



11559 - Jovian Upheaval and its Impact on Vortices

Cycle: 17, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
11	(3) JUPITER-A1	WFC3/UVIS	1	08-Sep-2009 21:01:20.0	yes
12	(1) JUPITER-A2	WFC3/UVIS	1	08-Sep-2009 21:01:28.0	yes
13	(5) JUPITER-A3	WFC3/UVIS	1	08-Sep-2009 21:01:34.0	yes
17	(3) JUPITER-A1	WFC3/UVIS	1	08-Sep-2009 21:01:43.0	yes
19	(5) JUPITER-A3	WFC3/UVIS	1	08-Sep-2009 21:01:48.0	yes
21	(4) JUPITER-B1	WFC3/UVIS	1	08-Sep-2009 21:01:54.0	yes
22	(2) JUPITER-B2	WFC3/UVIS	1	08-Sep-2009 21:01:59.0	yes
23	(6) JUPITER-B3	WFC3/UVIS	1	08-Sep-2009 21:02:04.0	yes

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27	(4) JUPITER-B1	WFC3/UVIS	1	08-Sep-2009 21:02:09.0	yes
29	(6) JUPITER-B3	WFC3/UVIS	1	08-Sep-2009 21:02:14.0	yes
B7	(4) JUPITER-B1	WFC3/UVIS	1	08-Sep-2009 21:02:22.0	yes
B9	(6) JUPITER-B3	WFC3/UVIS	1	08-Sep-2009 21:02:27.0	yes

12 Total Orbits Used

ABSTRACT

We propose observations of Jupiter with global coverage at high resolution to quantify changes in its atmosphere during and following the global upheaval. Only HST has the capability to obtain images with enough spatial resolution and contrast to extract velocity fields (we will use our newly developed technique to accomplish this), and with WFC3 we can image Jupiter in its entirety in a single exposure. We are in particular interested in the Red Oval BA: Will the Oval be long-lived, remain red, or turn white again, disappear? Both the merger of its precursors, and change in color has never before been witnessed. The Great Red Spot: This storm system appears to decrease in size and has become rounder, both as derived from its associated cloud deck, but also from its potential vorticity, a more dynamically-relevant quantity. How will the GRS evolve? Will it swallow the new vortices detected in amateur images at this same latitude band? How will this effect the potential vorticity? In addition, we hope to understand Disturbances and stagnation

points, both of which were detected during the present global upheaval: are these cyclonic regions, can they spawn anticyclones (as suggested by amateur images)?

OBSERVING DESCRIPTION

Using a sequence of 10 non-consecutive orbits, we will map velocities in all regions of Jupiter. The first group of 5 orbits maps one hemisphere of the planet with 10-hour separations. The second group of 5 orbits maps the other hemisphere. The two hemispheres are observed separately in order to reduce consecutive-orbit requirements and minimize SAA impacts on scheduling.

Within a single block of 5 orbits, we obtain time separations of ~10 hours (e.g., orbit 1 to orbit 7) and < 1 hour (e.g., within orbit 1) for the entire hemisphere, plus ~1.5 hours for the GRS and Oval BA (e.g., orbit 1 to orbit 2).

All frames will be acquired with WFC3/UVIS using 2k x 2k QUAD subarray readouts, to minimize overhead from buffer dumps. The entire disk of Jupiter will fit within a single QUAD subarray.

A schematic of the orbit sequence is available through mid-2009 at http://astro.berkeley.edu/~mikewong/G480_hst/timing_v6.png

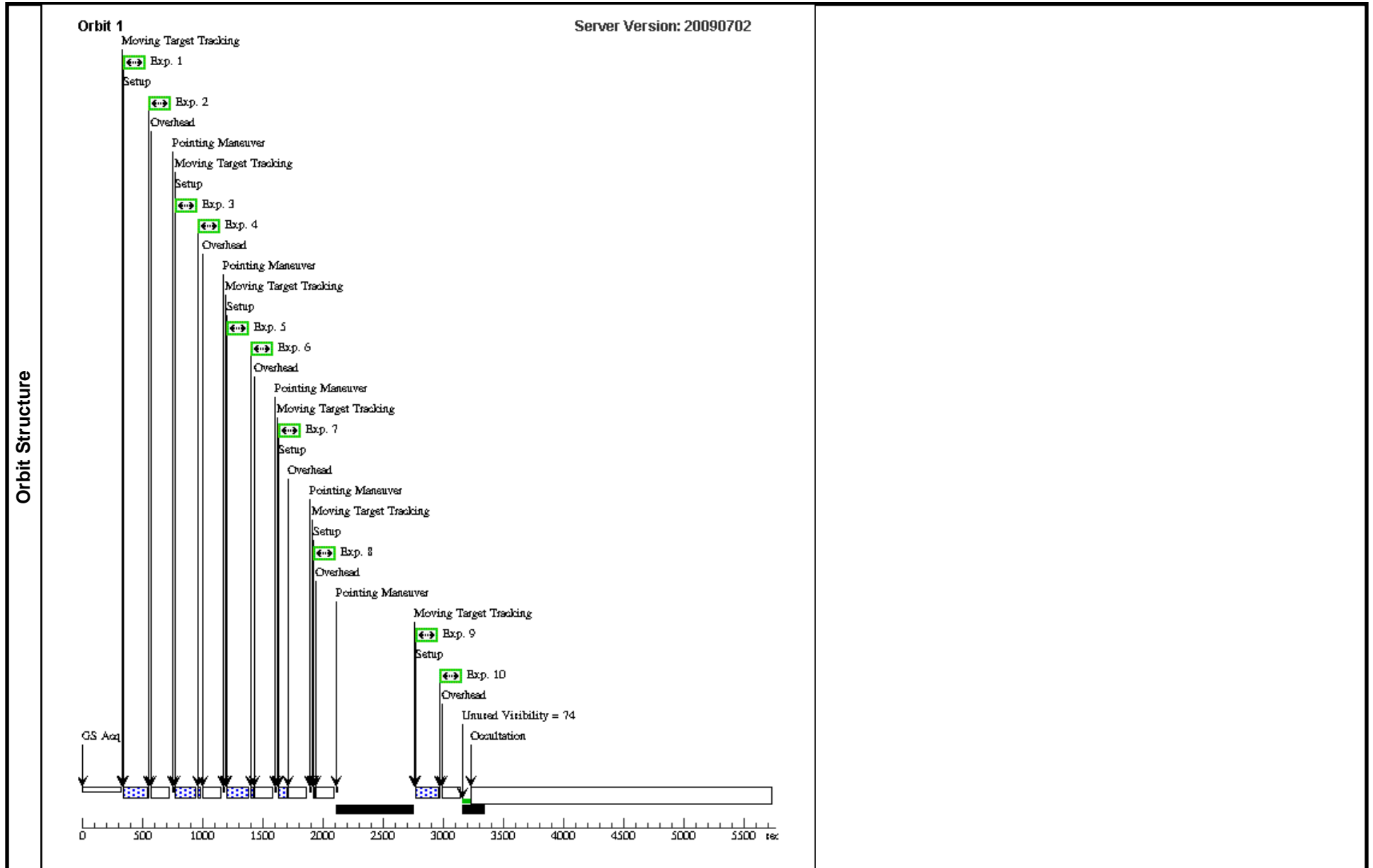
Proposal 11559 - Visit 11 - Jovian Upheaval and its Impact on Vortices

Wed Sep 09 01:02:31 GMT 2009

Visit	Proposal 11559, Visit 11, implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-SEP-2009:00:00:00 AND 01-OCT-2009:00:00:00 <i>Comments: HEMISPHERE A, ORBIT 1</i>																																																																															
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Proposal 11559 - Visit 11 - Jovian Upheaval and its Impact on Vortices

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		7	FQ889N-3A	(3) JUPITER-A1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG -3.3,-6.5		60 Secs [==>]
	8	FQ937N-3B	(3) JUPITER-A1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ937N	CR-SPLIT=NO	POS TARG -2.7,-9.5		10 Secs [==>]	[1]
	9	FQ634N-4C	(3) JUPITER-A1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG -5.1,-8.1		4 Secs [==>]	[1]
	10	FQ634N-4C	(3) JUPITER-A1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG -5.1,-8.1		4 Secs [==>]	[1]



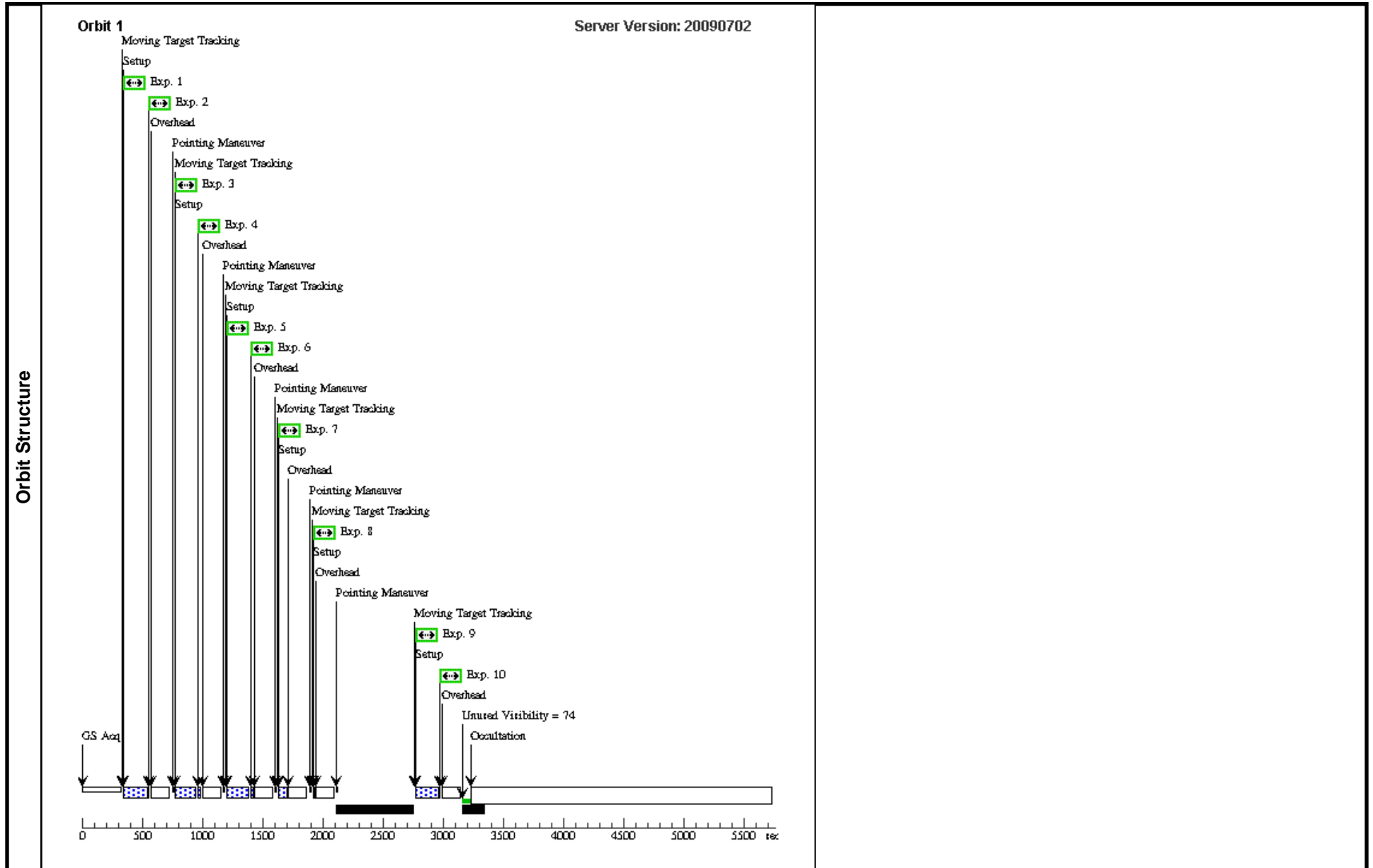
Proposal 11559 - Visit 12 - Jovian Upheaval and its Impact on Vortices

Wed Sep 09 01:02:32 GMT 2009

Visit	Proposal 11559, Visit 12, implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 11 BY 0.8 Orbits TO 1.2 Orbits <i>Comments: HEMISPHERE A, ORBIT 2</i>																																																																															
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	2	FQ634N-4C	(1) JUPITER-A2	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 10.6,5.2		4 Secs [==>]	[1]																																																																						
	3	FQ727N-4D	(1) JUPITER-A2	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG 14.8,5.4		8 Secs [==>]	[1]																																																																						
	4	FQ924N-3D	(1) JUPITER-A2	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ924N	CR-SPLIT=NO	POS TARG 14.8,5.4		12 Secs [==>]	[1]																																																																						
	5	FQ906N-3C	(1) JUPITER-A2	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ906N	CR-SPLIT=NO	POS TARG 10.6,5.2		15 Secs [==>]	[1]																																																																						
6	FQ634N-4C	(1) JUPITER-A2	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 10.6,5.2		4 Secs [==>]	[1]																																																																							

Proposal 11559 - Visit 12 - Jovian Upheaval and its Impact on Vortices

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		7	FQ889N-3A	(1) JUPITER-A2	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG 8.1,7.1		60 Secs [==>]
	8	FQ937N-3B	(1) JUPITER-A2	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ937N	CR-SPLIT=NO	POS TARG 12.3,2.9		10 Secs [==>]	[1]
	9	FQ634N-4C	(1) JUPITER-A2	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 10.6,5.2		4 Secs [==>]	[1]
	10	FQ634N-4C	(1) JUPITER-A2	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 10.6,5.2		4 Secs [==>]	[1]



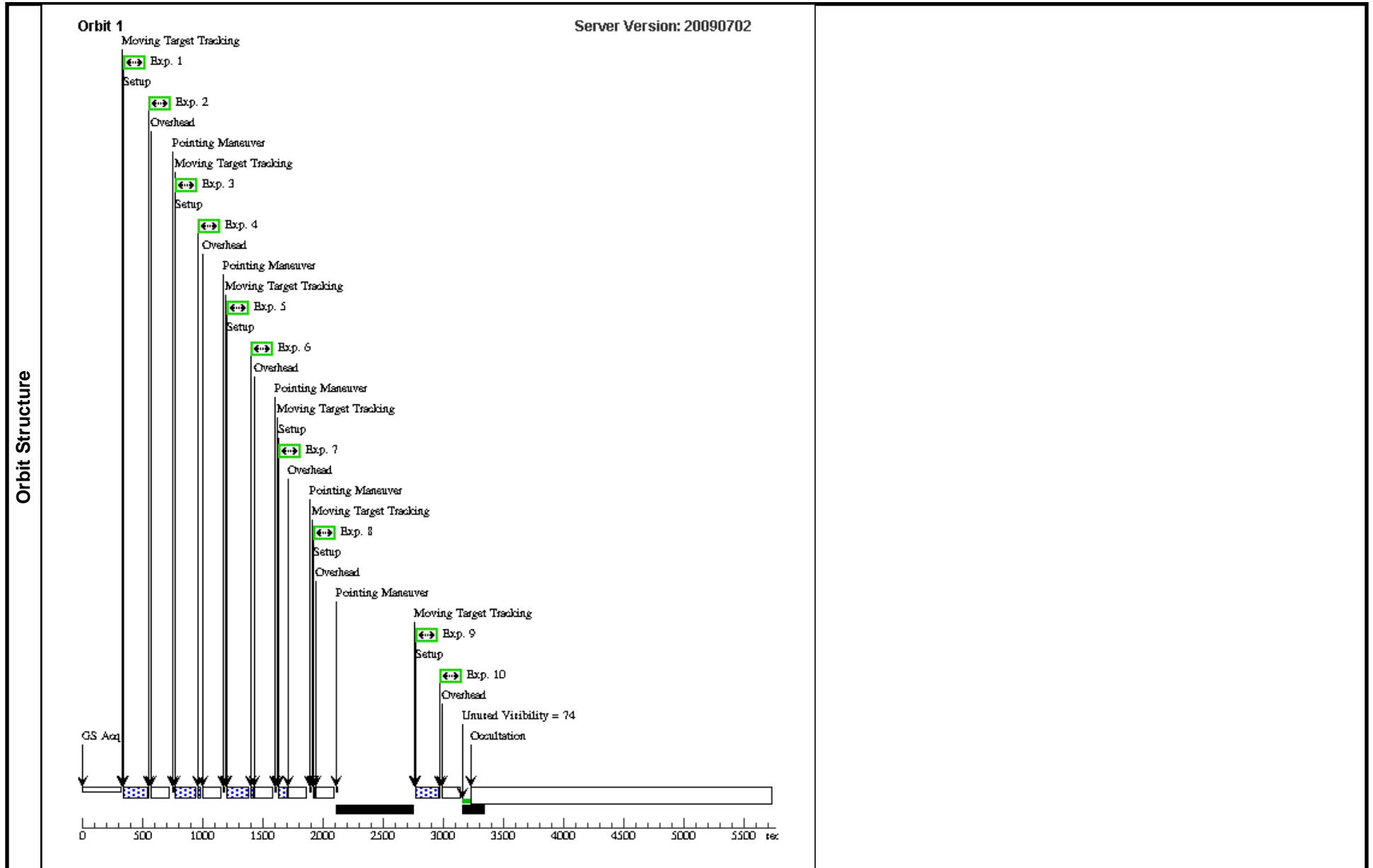
Proposal 11559 - Visit 13 - Jovian Upheaval and its Impact on Vortices

Wed Sep 09 01:02:33 GMT 2009

Visit	Proposal 11559, Visit 13, implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 12 BY 0.8 Orbits TO 1.2 Orbits <i>Comments: HEMISPHERE A, ORBIT 3</i>																																																																															
	Diagnostics	(FQ634N-4C (13.001)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.																																																																														
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Solar System Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(5)</td> <td>JUPITER-A3</td> <td>STD=JUPITER</td> <td>TYPE=PGRAPHIC, LONG=340, LAT=-23, ALT=0, R_LONG=+0.287, R_LAT=0, R_RAD=0, EPOCH=01-SEP-2009:00:00:00</td> <td></td> <td>NOT TRANSIT OF IO ACROSS JUPITER FROM EARTH, NOT TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, NOT TRANSIT OF GANYMEDE ACROSS JUPITER FROM EARTH, NOT TRANSIT OF CALLISTO ACROSS JUPITER FROM EARTH</td> <td>EARTH</td> </tr> </tbody> </table>										#	Name	Level 1	Level 2	Level 3	Window	Ephem Center	(5)	JUPITER-A3	STD=JUPITER	TYPE=PGRAPHIC, LONG=340, LAT=-23, ALT=0, R_LONG=+0.287, R_LAT=0, R_RAD=0, EPOCH=01-SEP-2009:00:00:00		NOT TRANSIT OF IO ACROSS JUPITER FROM EARTH, NOT TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, NOT TRANSIT OF GANYMEDE ACROSS JUPITER FROM EARTH, NOT TRANSIT OF CALLISTO ACROSS JUPITER FROM EARTH	EARTH																																																								
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Exposures	<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/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>FQ634N-4C</td> <td>(5) JUPITER-A3</td> <td>WFC3/UVIS, ACCUM, UVIS-QUAD-SUB</td> <td>FQ634N</td> <td>CR-SPLIT=NO</td> <td>POS TARG 00,-6; GS ACQ SCENARI O BASE1B3</td> <td></td> <td>4 Secs [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>FQ634N-4C</td> <td>(5) JUPITER-A3</td> <td>WFC3/UVIS, ACCUM, UVIS-QUAD-SUB</td> <td>FQ634N</td> <td>CR-SPLIT=NO</td> <td>POS TARG 0,-6</td> <td></td> <td>4 Secs [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>FQ727N-4D</td> <td>(5) JUPITER-A3</td> <td>WFC3/UVIS, ACCUM, UVIS-QUAD-SUB</td> <td>FQ727N</td> <td>CR-SPLIT=NO</td> <td>POS TARG 04.3,-6</td> <td></td> <td>8 Secs [==>]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>FQ924N-3D</td> <td>(5) JUPITER-A3</td> <td>WFC3/UVIS, ACCUM, UVIS-QUAD-SUB</td> <td>FQ924N</td> <td>CR-SPLIT=NO</td> <td>POS TARG 4.3,-6</td> <td></td> <td>12 Secs [==>]</td> <td>[1]</td> </tr> <tr> <td>5</td> <td>FQ906N-3C</td> <td>(5) JUPITER-A3</td> <td>WFC3/UVIS, ACCUM, UVIS-QUAD-SUB</td> <td>FQ906N</td> <td>CR-SPLIT=NO</td> <td>POS TARG 0,-6</td> <td></td> <td>15 Secs [==>]</td> <td>[1]</td> </tr> <tr> <td>6</td> <td>FQ634N-4C</td> <td>(5) JUPITER-A3</td> <td>WFC3/UVIS, ACCUM, UVIS-QUAD-SUB</td> <td>FQ634N</td> <td>CR-SPLIT=NO</td> <td>POS TARG 0,-6</td> <td></td> <td>4 Secs [==>]</td> <td>[1]</td> </tr> </tbody> </table>										#	Label	Target	Config, Mode, Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	1	FQ634N-4C	(5) JUPITER-A3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 00,-6; GS ACQ SCENARI O BASE1B3		4 Secs [==>]	[1]	2	FQ634N-4C	(5) JUPITER-A3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 0,-6		4 Secs [==>]	[1]	3	FQ727N-4D	(5) JUPITER-A3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG 04.3,-6		8 Secs [==>]	[1]	4	FQ924N-3D	(5) JUPITER-A3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ924N	CR-SPLIT=NO	POS TARG 4.3,-6		12 Secs [==>]	[1]	5	FQ906N-3C	(5) JUPITER-A3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ906N	CR-SPLIT=NO	POS TARG 0,-6		15 Secs [==>]	[1]	6	FQ634N-4C	(5) JUPITER-A3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 0,-6		4 Secs [==>]	[1]
	#	Label	Target	Config, Mode, Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit																																																																						
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	2	FQ634N-4C	(5) JUPITER-A3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 0,-6		4 Secs [==>]	[1]																																																																						
	3	FQ727N-4D	(5) JUPITER-A3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG 04.3,-6		8 Secs [==>]	[1]																																																																						
	4	FQ924N-3D	(5) JUPITER-A3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ924N	CR-SPLIT=NO	POS TARG 4.3,-6		12 Secs [==>]	[1]																																																																						
	5	FQ906N-3C	(5) JUPITER-A3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ906N	CR-SPLIT=NO	POS TARG 0,-6		15 Secs [==>]	[1]																																																																						
6	FQ634N-4C	(5) JUPITER-A3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 0,-6		4 Secs [==>]	[1]																																																																							

Proposal 11559 - Visit 13 - Jovian Upheaval and its Impact on Vortices

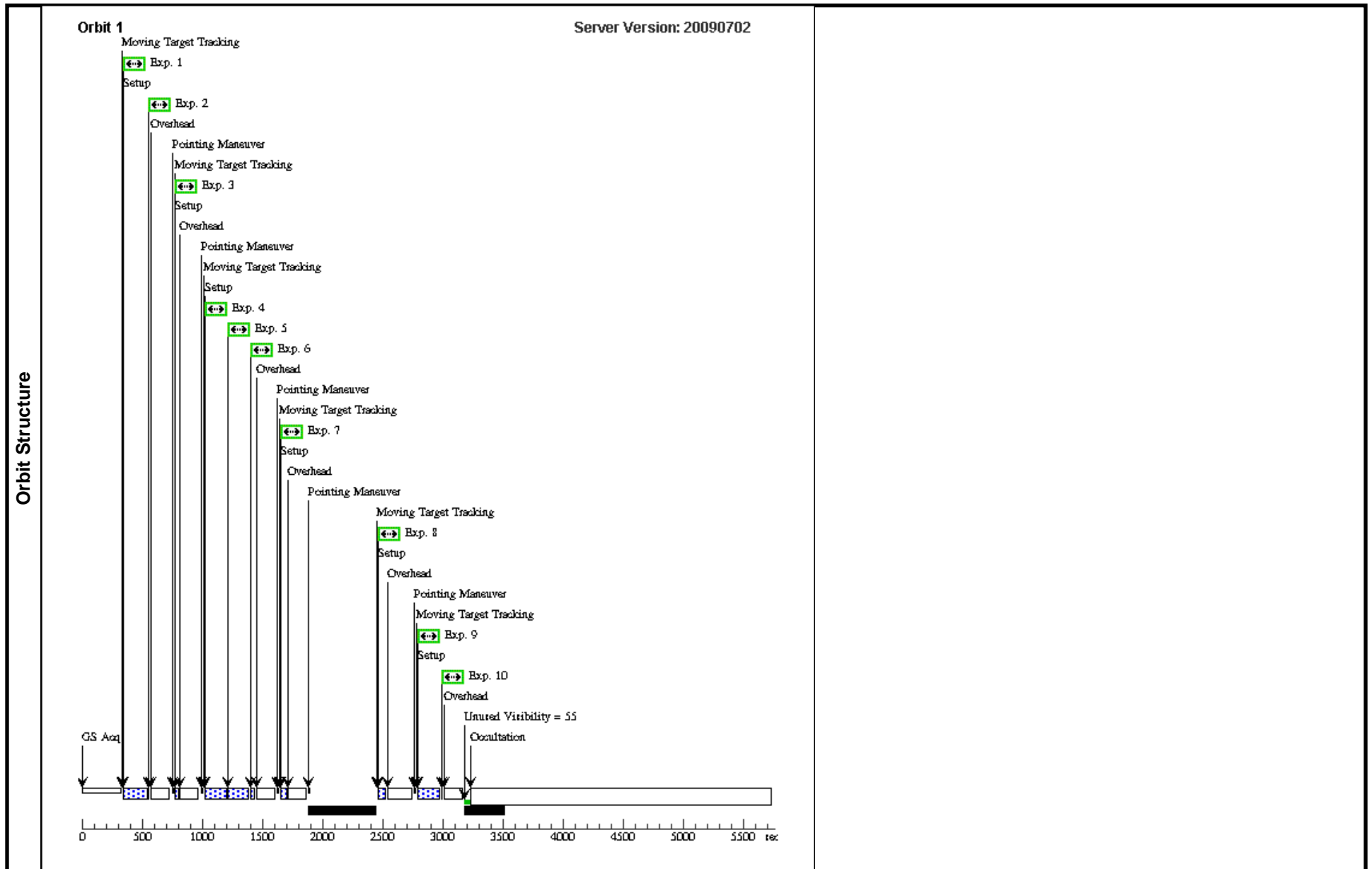
Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		7	FQ889N-3A	(5) JUPITER-A3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG -2.2,-4.2		60 Secs [==>]
	8	FQ937N-3B	(5) JUPITER-A3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ937N	CR-SPLIT=NO	POS TARG 02.4,-7. 5		10 Secs [==>]	[1]
	9	FQ634N-4C	(5) JUPITER-A3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 0,-6		4 Secs [==>]	[1]
	10	FQ634N-4C	(5) JUPITER-A3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 0,-6		4 Secs [==>]	[1]



Visit	Proposal 11559, Visit 17 Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 11 BY 5.8 Orbits TO 6.2 Orbits <i>Comments: HEMISPHERE A, ORBIT 7 --- with UV</i>										
	Diagnostics	(FQ634N-4C (17.001)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ634N-4C (17.002)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ378N-1B (17.003)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ634N-4C (17.004)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ634N-4C (17.005)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ575N-4C (17.006)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ437N-1A (17.007)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ634N-4C (17.009)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ634N-4C (17.010)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.									
Solar System Targets		#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
		(3)	JUPITER-A1	STD=JUPITER	TYPE=PGRAPHIC, LONG=246, LAT=-23, ALT=0, R_LONG=+0.287, R_LAT=0, R_RAD=0, EPOCH=01-SEP-2009:00:00:00		NOT TRANSIT OF IO ACROSS JUPITER FROM EARTH, NOT TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, NOT TRANSIT OF GANYMEDE ACROSS JUPITER FROM EARTH, NOT TRANSIT OF CALLISTO ACROSS JUPITER FROM EARTH	EARTH			
Exposures		#	Label	Target	Config, Mode, Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		1	FQ634N-4C	(3) JUPITER-A1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG -13,-11.1; GS ACQ SCENARIO BASE1B3		4 Secs [==>]	[1]
		2	FQ634N-4C	(3) JUPITER-A1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG -13,-11.1		4 Secs [==>]	[1]
		3	FQ378N-1B	(3) JUPITER-A1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ378N	CR-SPLIT=NO	POS TARG -10.4,-13.5		12 Secs [==>]	[1]
		4	FQ634N-4C	(3) JUPITER-A1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG -13,-11.1		4 Secs [==>]	[1]
	5	FQ634N-4C	(3) JUPITER-A1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG -13,-11.1		4 Secs [==>]	[1]	
	6	FQ575N-4C	(3) JUPITER-A1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ575N	CR-SPLIT=NO	POS TARG -13,-11.1		12 Secs [==>]	[1]	

Proposal 11559 - Visit 17 - Jovian Upheaval and its Impact on Vortices

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	7	FQ437N-1A	(3) JUPITER-A1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ437N	CR-SPLIT=NO	POS TARG -10,-9.5		15 Secs	
									[==>]	[1]
	8	F275W	(3) JUPITER-A1	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F275W	CR-SPLIT=NO	POS TARG -11.2,-1 7.3		40 Secs	
									[==>]	[1]
9	FQ634N-4C	(3) JUPITER-A1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG -13,-11. 1		4 Secs		
								[==>]	[1]	
10	FQ634N-4C	(3) JUPITER-A1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG -13,-11. 1		4 Secs		
								[==>]	[1]	



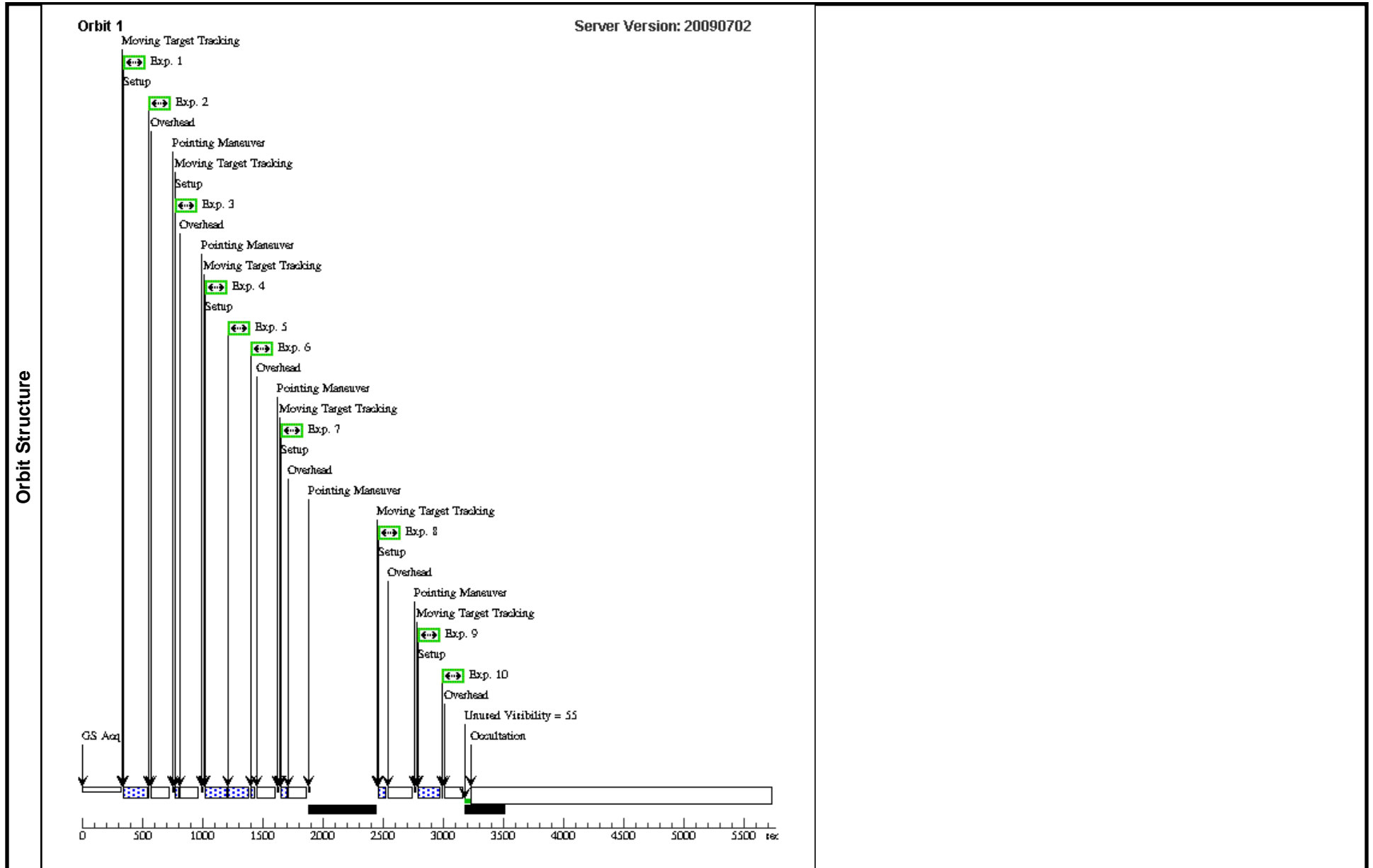
Proposal 11559 - Visit 19 - Jovian Upheaval and its Impact on Vortices

Wed Sep 09 01:02:35 GMT 2009

Visit	Proposal 11559, Visit 19 Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 11 BY 7.8 Orbits TO 8.2 Orbits <i>Comments: HEMISPHERE A, ORBIT 9 --- with UV</i>									
	Diagnostics	(FQ634N-4C (19.001)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.								
(FQ634N-4C (19.002)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.										
(FQ378N-1B (19.003)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.										
(FQ634N-4C (19.004)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.										
(FQ634N-4C (19.005)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.										
(FQ575N-4C (19.006)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.										
(FQ437N-1A (19.007)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.										
(FQ634N-4C (19.009)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.										
(FQ634N-4C (19.010)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.										
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(5)	JUPITER-A3	STD=JUPITER	TYPE=PGRAPHIC, LONG=340, LAT=-23, ALT=0, R_LONG=+0.287, R_LAT=0, R_RAD=0, EPOCH=01-SEP-2009:00:00:00		NOT TRANSIT OF IO ACROSS JUPITER FROM EARTH, NOT TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, NOT TRANSIT OF GANYMEDE ACROSS JUPITER FROM EARTH, NOT TRANSIT OF CALLISTO ACROSS JUPITER FROM EARTH	EARTH			
Exposures	#	Label	Target	Config, Mode, Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	FQ634N-4C	(5) JUPITER-A3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG -3.9,-9.9 ; GS ACQ SCENARIO BASE1B3		4 Secs [==>]	[1]
	2	FQ634N-4C	(5) JUPITER-A3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG -3.9,-9.9		4 Secs [==>]	[1]
	3	FQ378N-1B	(5) JUPITER-A3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ378N	CR-SPLIT=NO	POS TARG -1.2,-11.2		12 Secs [==>]	[1]
	4	FQ634N-4C	(5) JUPITER-A3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG -3.9,-9.9		4 Secs [==>]	[1]
	5	FQ634N-4C	(5) JUPITER-A3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG -3.9,-9.9		4 Secs [==>]	[1]
	6	FQ575N-4C	(5) JUPITER-A3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ575N	CR-SPLIT=NO	POS TARG -3.9,-9.9		12 Secs [==>]	[1]

Proposal 11559 - Visit 19 - Jovian Upheaval and its Impact on Vortices

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		7	FQ437N-1A	(5) JUPITER-A3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ437N	CR-SPLIT=NO	POS TARG -6.3,-7.9		15 Secs [==>]
	8	F275W	(5) JUPITER-A3	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F275W	CR-SPLIT=NO	POS TARG -2.9,-14. 5		40 Secs [==>]	[1]
	9	FQ634N-4C	(5) JUPITER-A3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG -3.9,-9.9		4 Secs [==>]	[1]
	10	FQ634N-4C	(5) JUPITER-A3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG -3.9,-9.9		4 Secs [==>]	[1]



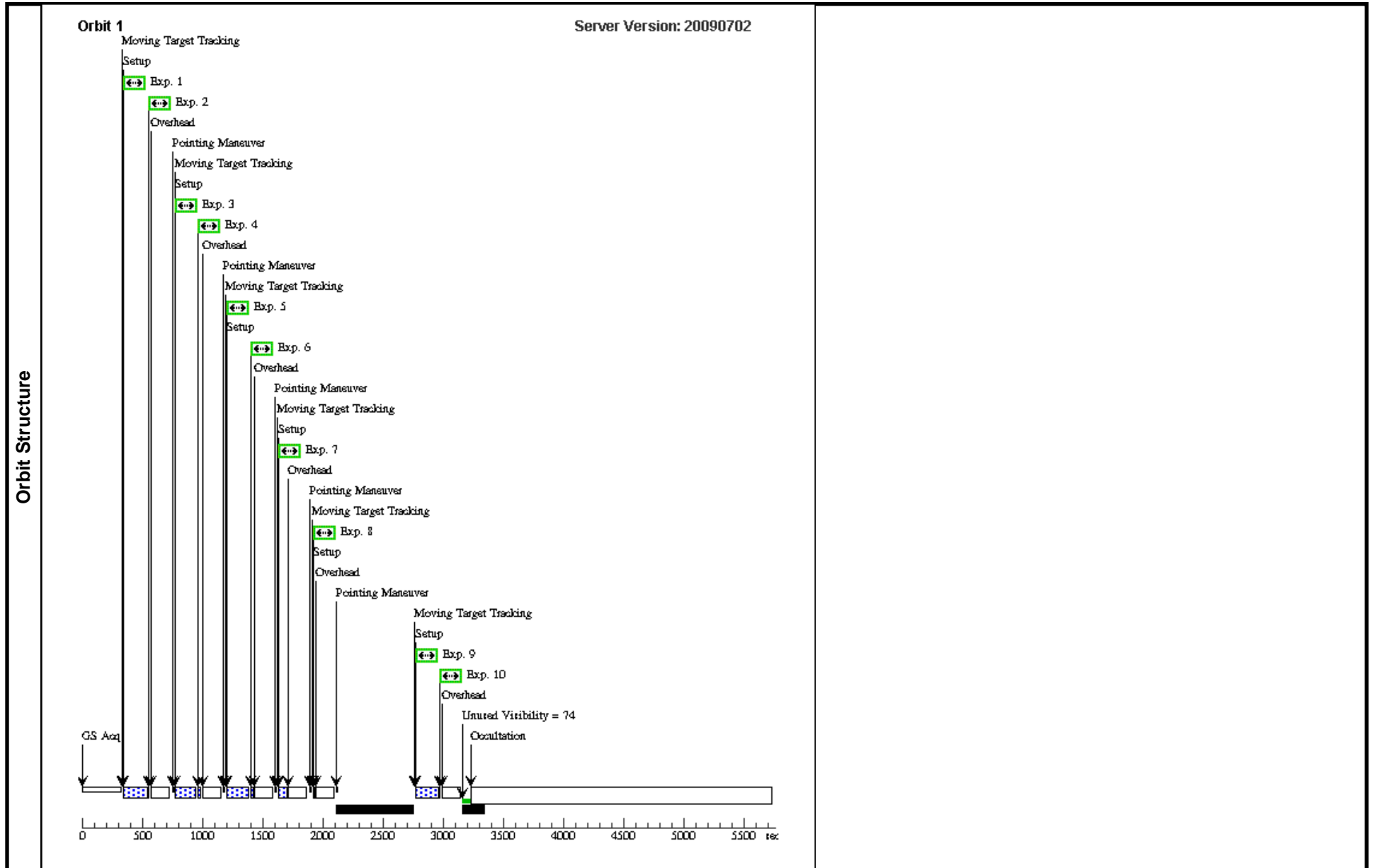
Proposal 11559 - Visit 21 - Jovian Upheaval and its Impact on Vortices

Wed Sep 09 01:02:36 GMT 2009

Visit	Proposal 11559, Visit 21, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none) <i>Comments: HEMISPHERE B, ORBIT 1</i>																																																																															
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Proposal 11559 - Visit 21 - Jovian Upheaval and its Impact on Vortices

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		7	FQ889N-3A	(4) JUPITER-B1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG 0,-3.3		60 Secs [==>]
	8	FQ937N-3B	(4) JUPITER-B1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ937N	CR-SPLIT=NO	POS TARG 7,-6.5		10 Secs [==>]	[1]
	9	FQ634N-4C	(4) JUPITER-B1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 3,-6.5		4 Secs [==>]	[1]
	10	FQ634N-4C	(4) JUPITER-B1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 3,-6.5		4 Secs [==>]	[1]



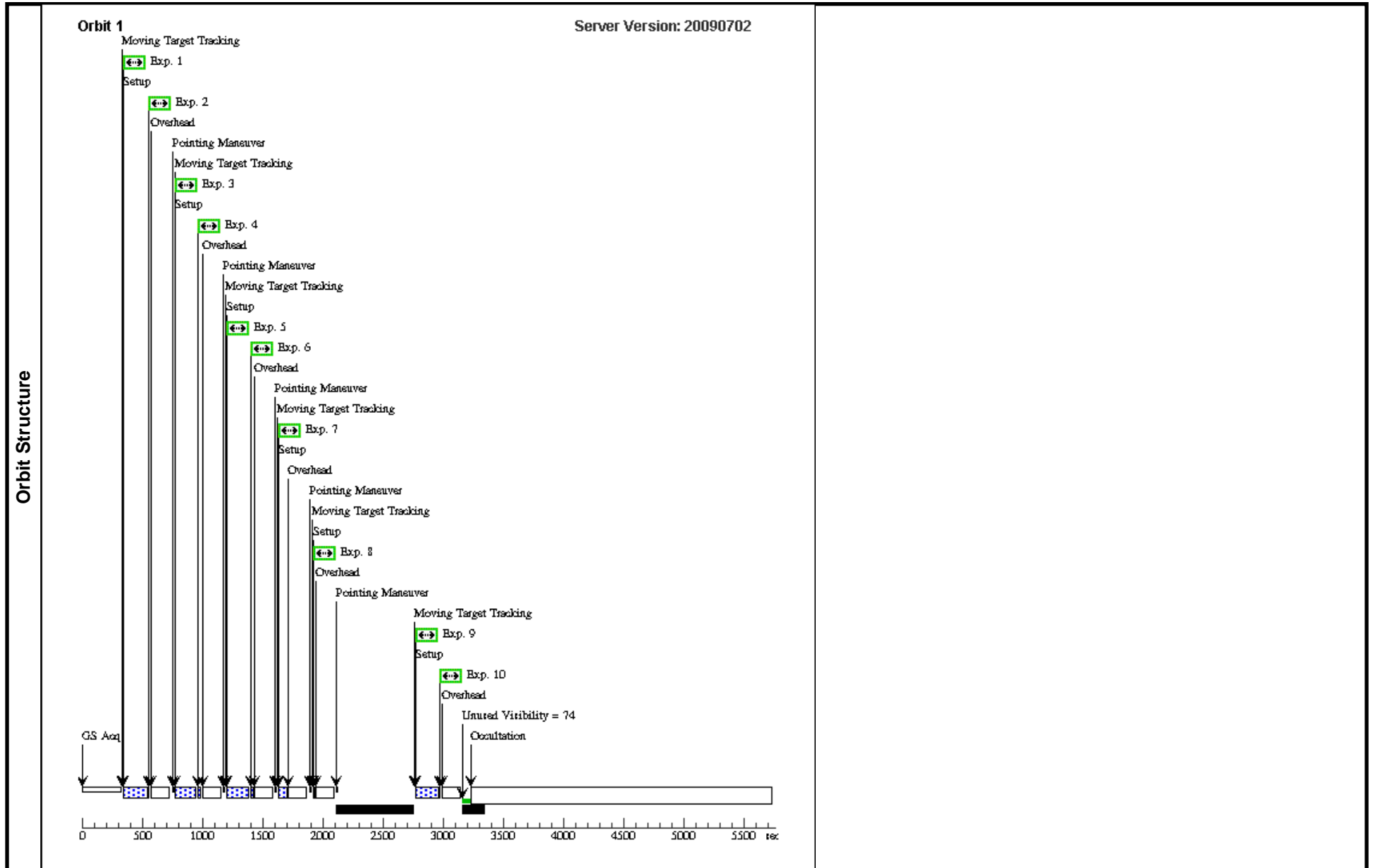
Proposal 11559 - Visit 22 - Jovian Upheaval and its Impact on Vortices

Wed Sep 09 01:02:36 GMT 2009

Visit	Proposal 11559, Visit 22, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 21 BY 0.8 Orbits TO 1.2 Orbits <i>Comments: HEMISPHERE B, ORBIT 2</i>																																																																															
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Proposal 11559 - Visit 22 - Jovian Upheaval and its Impact on Vortices

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		7	FQ889N-3A	(2) JUPITER-B2	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG 12.1,7.7		60 Secs [==>]
	8	FQ937N-3B	(2) JUPITER-B2	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ937N	CR-SPLIT=NO	POS TARG 12.9,7.3		10 Secs [==>]	[1]
	9	FQ634N-4C	(2) JUPITER-B2	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 9.1,7.6		4 Secs [==>]	[1]
	10	FQ634N-4C	(2) JUPITER-B2	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 9.1,7.6		4 Secs [==>]	[1]



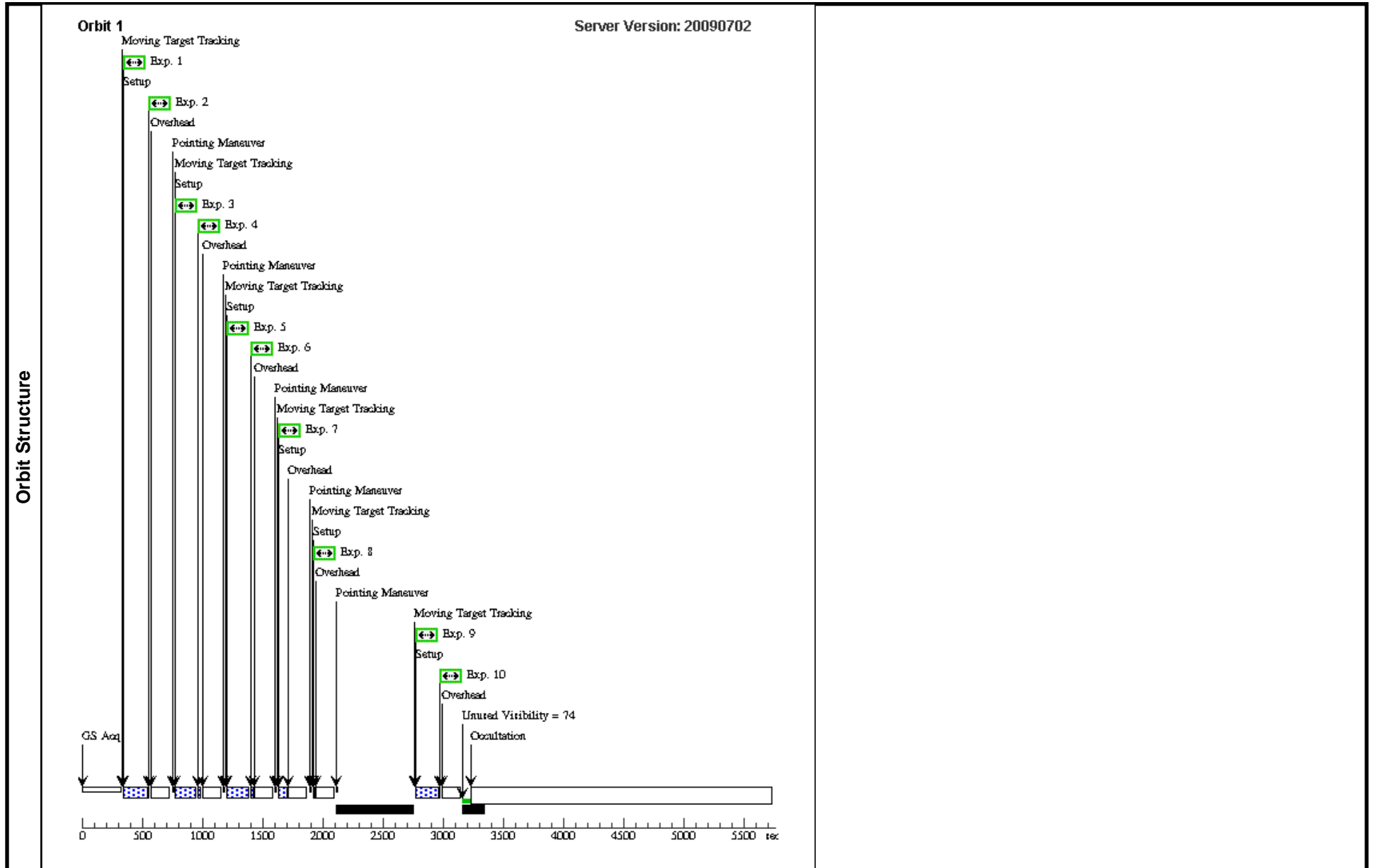
Proposal 11559 - Visit 23 - Jovian Upheaval and its Impact on Vortices

Wed Sep 09 01:02:37 GMT 2009

Visit	Proposal 11559, Visit 23, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 22 BY 0.8 Orbits TO 1.2 Orbits <i>Comments: HEMISPHERE B, ORBIT 3</i>																																																																															
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Proposal 11559 - Visit 23 - Jovian Upheaval and its Impact on Vortices

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		7	FQ889N-3A	(6) JUPITER-B3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG -.8,-3.8		60 Secs [==>]
	8	FQ937N-3B	(6) JUPITER-B3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ937N	CR-SPLIT=NO	POS TARG 3.6,-7.5		10 Secs [==>]	[1]
	9	FQ634N-4C	(6) JUPITER-B3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG .7,-6.4		4 Secs [==>]	[1]
	10	FQ634N-4C	(6) JUPITER-B3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG .7,-6.4		4 Secs [==>]	[1]



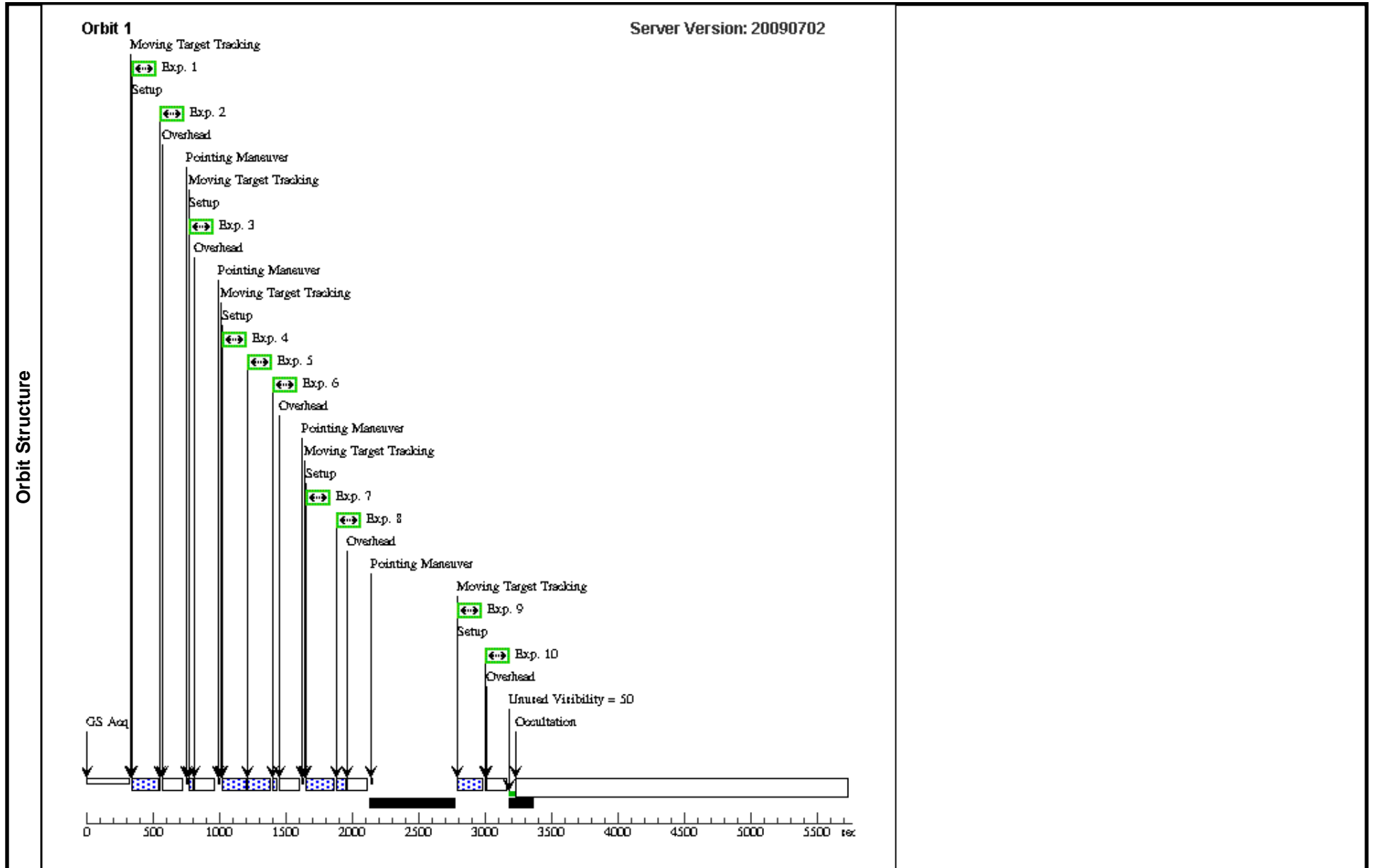
Proposal 11559 - Visit 27 - Jovian Upheaval and its Impact on Vortices

Wed Sep 09 01:02:38 GMT 2009

Visit	Proposal 11559, Visit 27, withdrawn Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 21 BY 5.8 Orbits TO 6.2 Orbits <i>Comments: HEMISPHERE B, ORBIT 7</i>																																																																															
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Proposal 11559 - Visit 27 - Jovian Upheaval and its Impact on Vortices

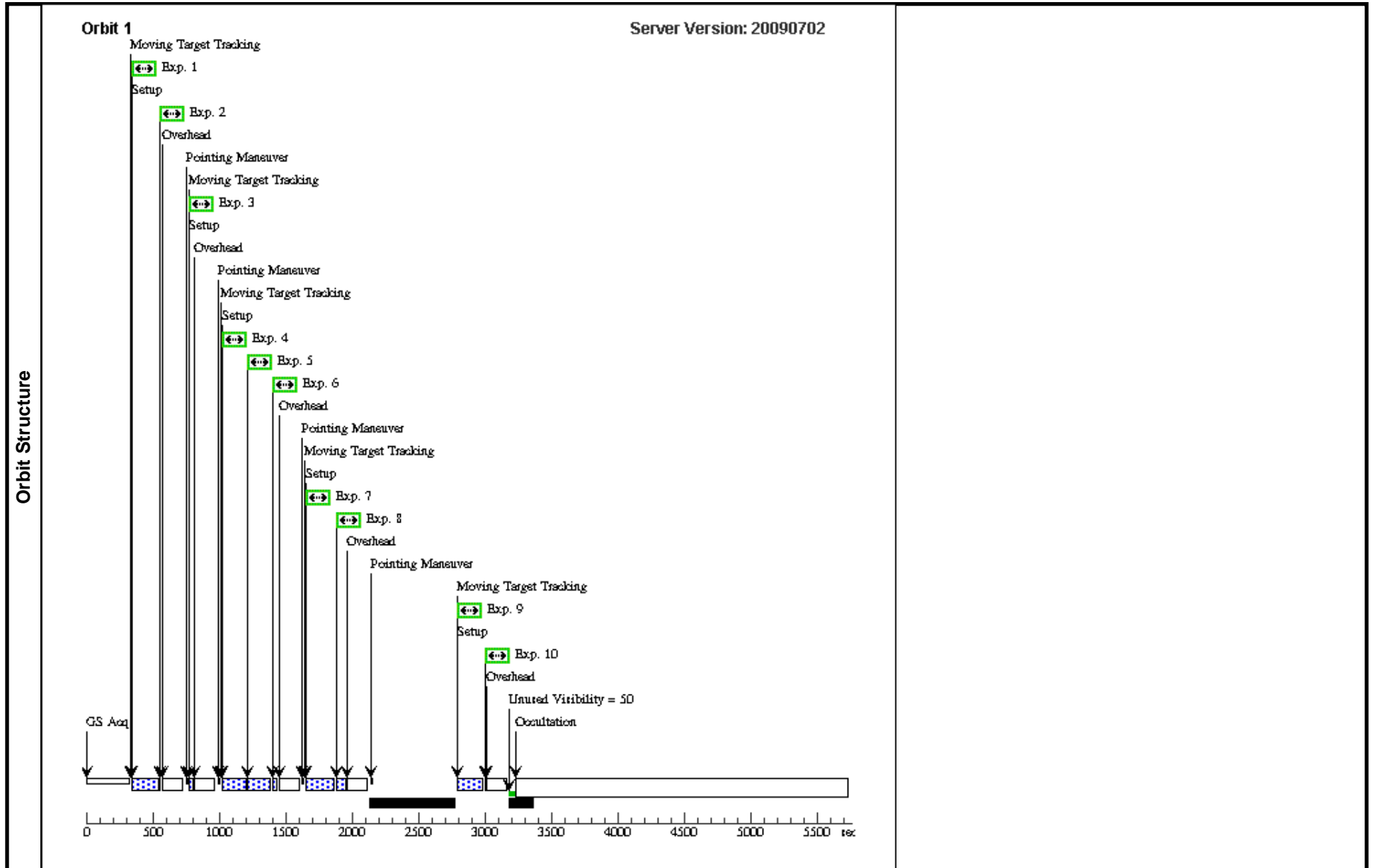
Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		7	FQ437N-1A	(4) JUPITER-B1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ437N	CR-SPLIT=NO	POS TARG -1.4,-6.7		15 Secs [==>]
	8	FQ889N-3A	(4) JUPITER-B1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG -1.4,-6.7		60 Secs [==>]	[1]
	9	FQ634N-4C	(4) JUPITER-B1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 1.1,-9.1		4 Secs [==>]	[1]
	10	FQ634N-4C	(4) JUPITER-B1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 1.1,-9.1		4 Secs [==>]	[1]



Visit	Proposal 11559, Visit 29, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 21 BY 7.8 Orbits TO 8.2 Orbits <i>Comments: HEMISPHERE B, ORBIT 9</i>																																																																															
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Proposal 11559 - Visit 29 - Jovian Upheaval and its Impact on Vortices

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		7	FQ437N-1A	(6) JUPITER-B3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ437N	CR-SPLIT=NO	POS TARG -1.4,-6.7		15 Secs [==>]
	8	FQ889N-3A	(6) JUPITER-B3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG -1.4,-6.7		60 Secs [==>]	[1]
	9	FQ634N-4C	(6) JUPITER-B3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 1.1,-9.1		4 Secs [==>]	[1]
	10	FQ634N-4C	(6) JUPITER-B3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 1.1,-9.1		4 Secs [==>]	[1]



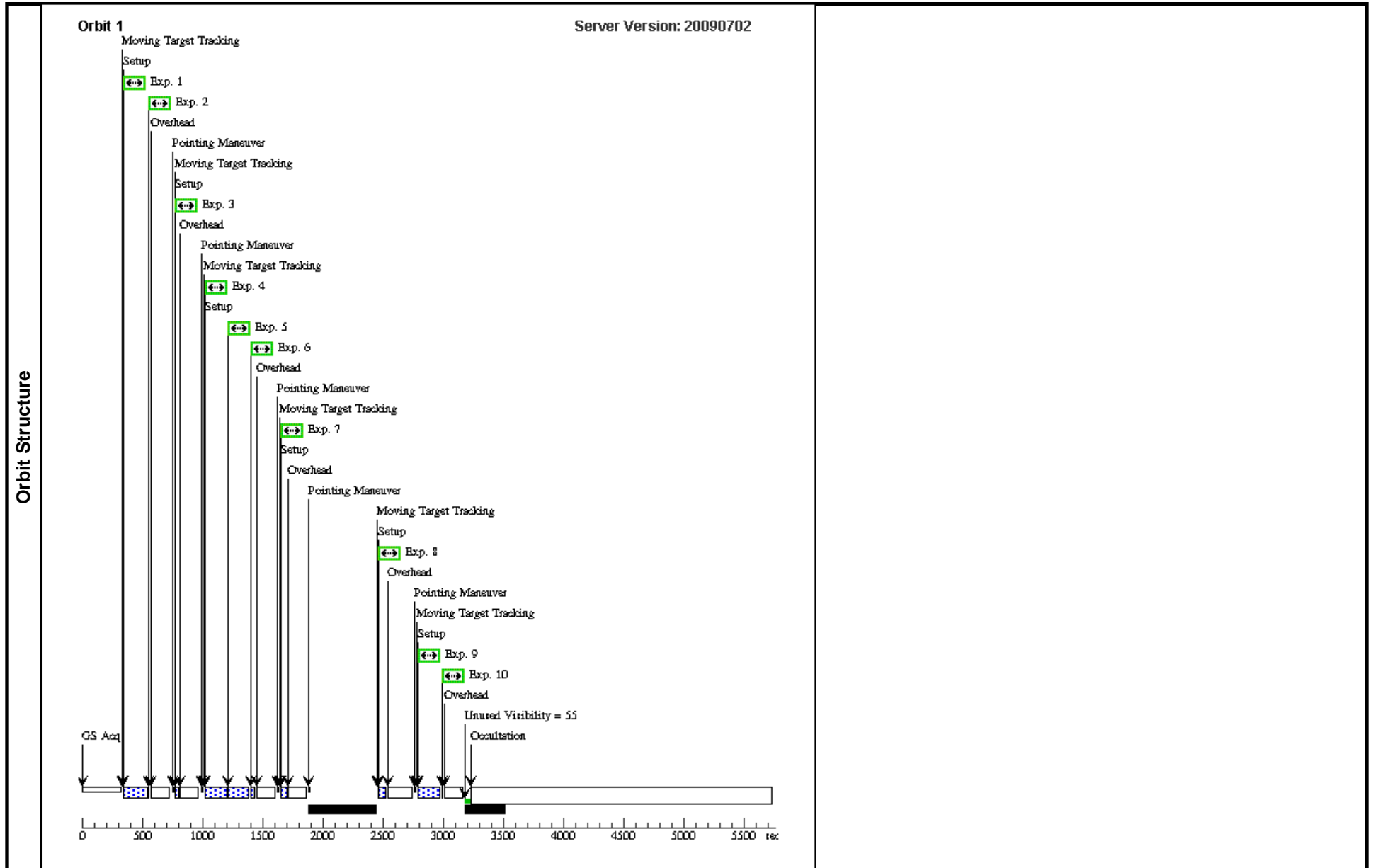
Proposal 11559 - Visit B7 - Jovian Upheaval and its Impact on Vortices

Wed Sep 09 01:02:39 GMT 2009

Visit	Proposal 11559, Visit B7, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none) <i>Comments: HEMISPHERE B, ORBIT 7 --- replacement for visit 27 with UV</i>									
	(FQ634N-4C (B7.001)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ634N-4C (B7.002)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ378N-1B (B7.003)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ634N-4C (B7.004)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ634N-4C (B7.005)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ575N-4C (B7.006)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ437N-1A (B7.007)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ634N-4C (B7.009)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ634N-4C (B7.010)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.									
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Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center			
	(4)	JUPITER-B1	STD=JUPITER	TYPE=PGRAPHIC, LONG=40, LAT=-30, ALT=0, R_LONG=-0.119, R_LAT=0, R_RAD=0, EPOCH=01-SEP-2009:00:00:00		NOT TRANSIT OF IO ACROSS JUPITER FROM EARTH, NOT TRANSIT OF EUROPA ACROSS JUPITER FROM EARTH, NOT TRANSIT OF GANYMEDE ACROSS JUPITER FROM EARTH, NOT TRANSIT OF CALLISTO ACROSS JUPITER FROM EARTH	EARTH			
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	1	FQ634N-4C	(4) JUPITER-B1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 1.1,-9.1; GS ACQ SCENARI O BASE1B3		4 Secs [==>]	[1]
2	FQ634N-4C	(4) JUPITER-B1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 1.1,-9.1		4 Secs [==>]	[1]	
3	FQ378N-1B	(4) JUPITER-B1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ378N	CR-SPLIT=NO	POS TARG 3.5,-10.6		12 Secs [==>]	[1]	
4	FQ634N-4C	(4) JUPITER-B1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 1.1,-9.1		4 Secs [==>]	[1]	
5	FQ634N-4C	(4) JUPITER-B1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 1.1,-9.1		4 Secs [==>]	[1]	
6	FQ575N-4C	(4) JUPITER-B1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ575N	CR-SPLIT=NO	POS TARG 1.1,-9.1		12 Secs [==>]	[1]	

Proposal 11559 - Visit B7 - Jovian Upheaval and its Impact on Vortices

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	7	FQ437N-1A	(4) JUPITER-B1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ437N	CR-SPLIT=NO	POS TARG -1.4,-6.7		15 Secs	
									[==>]	[1]
	8	F275W	(4) JUPITER-B1	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F275W	CR-SPLIT=NO	POS TARG -1.5,-17. 4		40 Secs	
									[==>]	[1]
9	FQ634N-4C	(4) JUPITER-B1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 1.1,-9.1		4 Secs		
								[==>]	[1]	
10	FQ634N-4C	(4) JUPITER-B1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 1.1,-9.1		4 Secs		
								[==>]	[1]	



Proposal 11559 - Visit B9 - Jovian Upheaval and its Impact on Vortices

Wed Sep 09 01:02:39 GMT 2009

Visit	Proposal 11559, Visit B9, withdrawn Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none) <i>Comments: HEMISPHERE B, ORBIT 9 --- replacement for visit 29 with UV</i>																																																																															
	Diagnostics	(FQ634N-4C (B9.001)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.																																																																														
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6	FQ575N-4C	(6) JUPITER-B3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ575N	CR-SPLIT=NO	POS TARG 1.1,-9.1		12 Secs [==>]	[1]																																																																							

Proposal 11559 - Visit B9 - Jovian Upheaval and its Impact on Vortices

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		7	FQ437N-1A	(6) JUPITER-B3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ437N	CR-SPLIT=NO	POS TARG -1.4,-6.7		15 Secs [==>]
	8	F275W	(6) JUPITER-B3	WFC3/UVIS, ACCUM, UVIS1-2K4-SUB	F275W	CR-SPLIT=NO	POS TARG -1.5,-17. 4		40 Secs [==>]	[1]
	9	FQ634N-4C	(6) JUPITER-B3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 1.1,-9.1		4 Secs [==>]	[1]
	10	FQ634N-4C	(6) JUPITER-B3	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ634N	CR-SPLIT=NO	POS TARG 1.1,-9.1		4 Secs [==>]	[1]

