



10805 - ACS Imaging of Uranus' Atmosphere Near Equinox

Cycle: 15, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets</i>	<i>Configurations</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) URANUS	ACS/HRC	1	01-Aug-2006 21:55:51.0	yes
02	(1) URANUS	ACS/WFC	1	01-Aug-2006 21:55:57.0	yes
03	(1) URANUS	ACS/HRC	1	01-Aug-2006 21:56:02.0	yes
04	(1) URANUS	ACS/WFC	1	01-Aug-2006 21:56:07.0	yes
05	(1) URANUS	ACS/HRC	1	01-Aug-2006 21:56:13.0	yes
06	(1) URANUS	ACS/HRC	1	01-Aug-2006 21:56:21.0	yes
07	(1) URANUS	ACS/WFC	1	01-Aug-2006 21:56:25.0	yes
08	(1) URANUS	ACS/HRC	1	01-Aug-2006 21:56:29.0	yes
09	(1) URANUS	ACS/WFC	1	01-Aug-2006 21:56:33.0	yes
10	(1) URANUS	ACS/HRC	1	01-Aug-2006 21:56:38.0	yes

Proposal 10805 - Overview

<i>Visit</i>	<i>Targets</i>	<i>Configurations</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
51	(1) URANUS	ACS/HRC	1	01-Aug-2006 21:56:43.0	yes
52	(1) URANUS	ACS/HRC	1	01-Aug-2006 21:56:49.0	yes
53	(1) URANUS	ACS/HRC	1	01-Aug-2006 21:56:55.0	yes
54	(1) URANUS	ACS/HRC	1	01-Aug-2006 21:57:00.0	yes
55	(1) URANUS	ACS/HRC	1	01-Aug-2006 21:57:06.0	yes
56	(1) URANUS	ACS/HRC	1	01-Aug-2006 21:57:12.0	yes

16 Total Orbits Used

ABSTRACT

Uranus' 97-degree spin axis inclination results in the largest fractional seasonal variation of solar insolation in the solar system. Uranus is now close to its 7 December 2007 equinox, and we can now see most of the northern hemisphere, which was in darkness when Voyager provided our first detailed view of the planet in 1986. If Uranus' seasonal response has the large phase shift expected from its long radiative time constant, it should now exhibit nearly maximal hemispheric contrast. Although the long time constant also suggests a small physical response, significant hemispheric asymmetries in cloud structure and dynamics are becoming apparent. We propose a detailed characterization of Uranus' current response to this forcing with a 10-orbit program consisting of 4 orbits of WFC imaging with narrowband ramp filters and 6 orbits of HRC imaging using both broadband and narrowband filters. Nine narrow-band filters between 0.62 and 0.955 microns will provide vertical sensing depths scanning through the pressure range where the putative methane and deeper H₂S clouds might plausibly exist and provide strong constraints on their optical properties and parent gas mixing ratios. The high resolution HRC images will characterize the dynamics of discrete features at the 15-30 hour time scale unavailable from the ground. Short wavelength HRC images will enable a characterization of the stratospheric haze. These observations have unique combinations of spectral range and resolution with needed temporal and spatial resolution not available from groundbased observations.

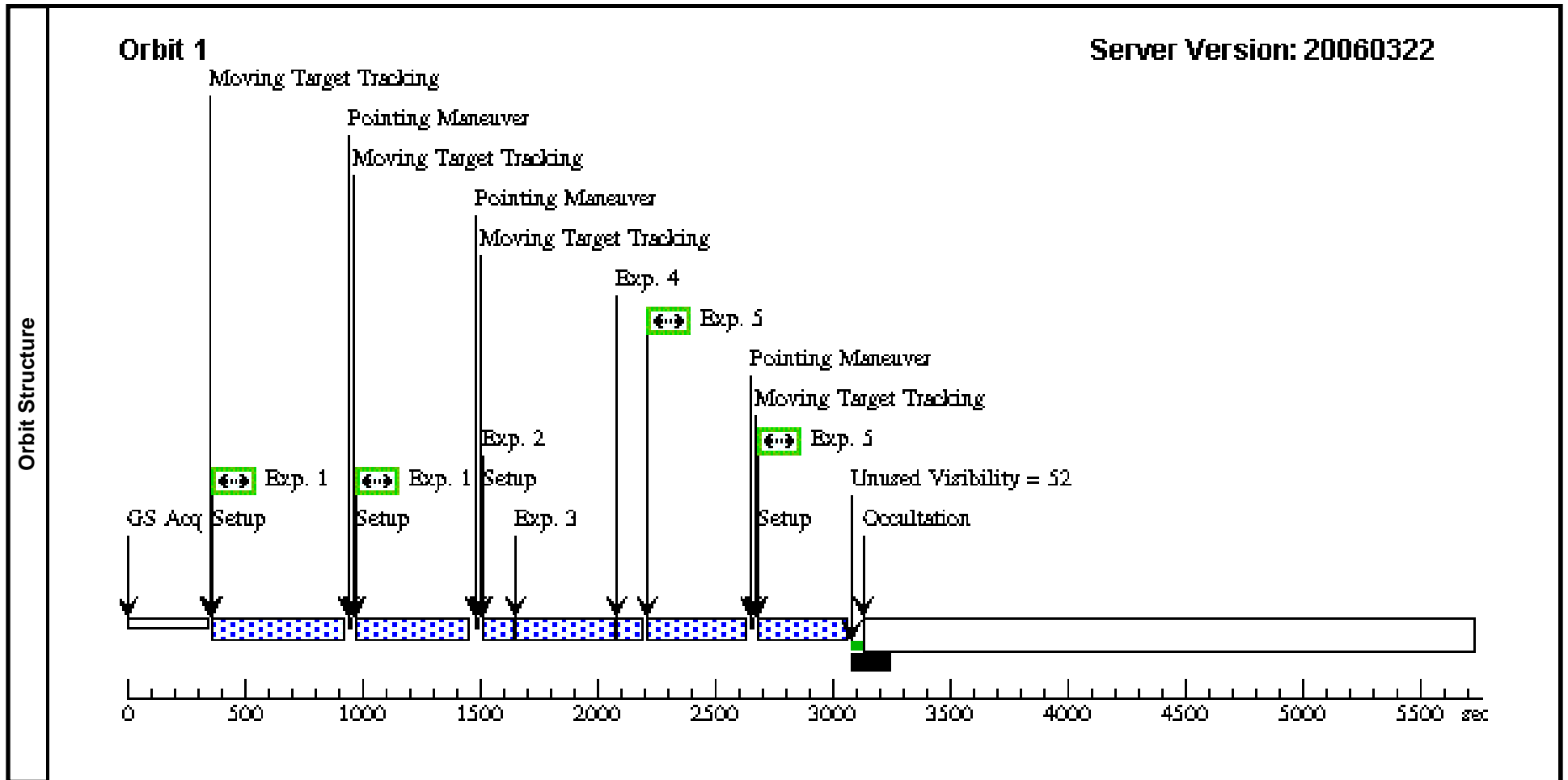
OBSERVING DESCRIPTION

Spatial and Temporal Sampling: The 10-orbit observing program is designed to obtain complete longitudinal coverage for the narrow-band ramp filters and the four HRC longer wavelength filters, but only center-to-limb coverage for the shortwave HRC filters 250W, 330W, and 435W, which are unlikely to see any discrete features. To obtain essentially complete longitude coverage at least out to 50D N requires at least four orbits with approximately equal longitude spacing. Orbits 2, 5, 17, and 20 provide that coverage for the WFC narrowband ramp filter images. Similar coverage for the HRC imaging is provided by orbits 1, 4, 16, and 19. Two additional HRC orbits (6 and 21) provide important time-delayed coverage that, with other images, allows dynamical measurements of latitudinal and longitudinal motions over the 15-30 hour time domain that is inaccessible from the ground. The proposed program provides barely adequate longitudinal coverage at 50D N, and good coverage at southern latitudes, with enough overlap to potentially permit useful wind speed determination and information about cloud evolution.

Proposal 10805 - Visit 01 - ACS Imaging of Uranus' Atmosphere Near Equinox

Wed Aug 02 01:57:15 GMT 2006

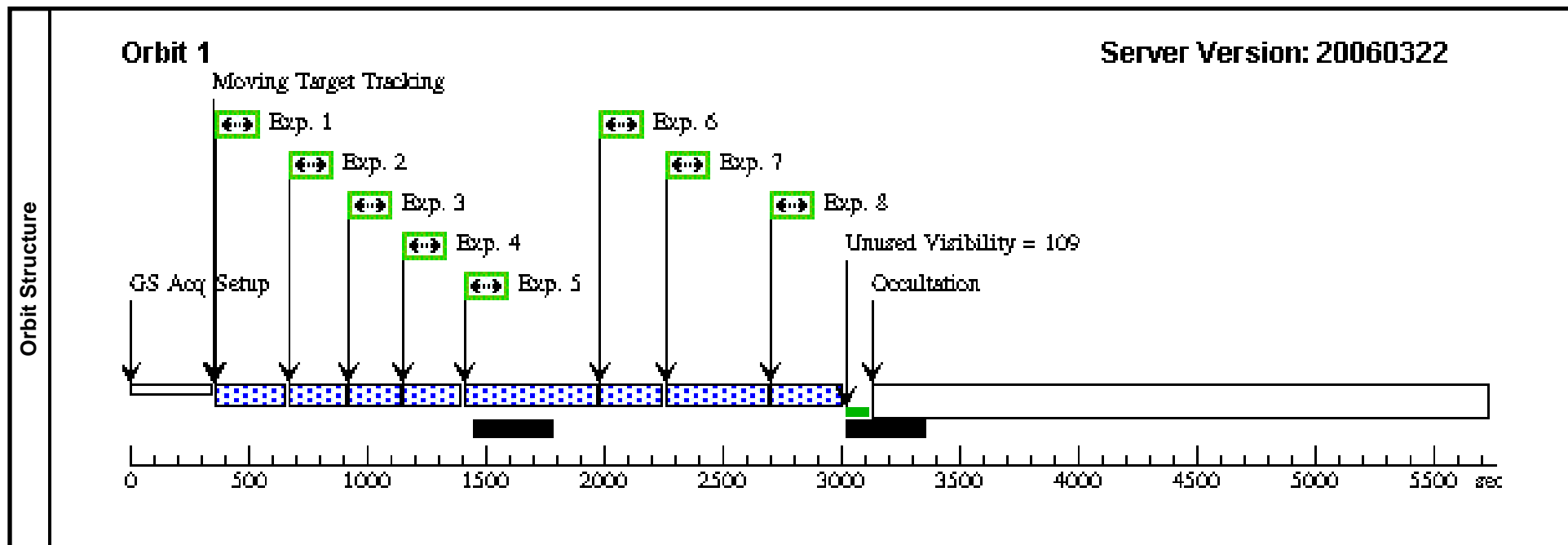
Visit	Proposal 10805, Visit 01 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: BETWEEN 01-JUL-2006:00:00:00 AND 01-SEP-2006:00:00:00 Comments: HRC A									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=ACS-HRC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.079 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.4 Angle Between Sides= Center Pattern=false					(1), (5)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window				
	(1)	URANUS	STD=URANUS							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) URANUS	ACS/HRC, ACCUM, HRC	F250W	CR-SPLIT=NO; PAREXP=NONE; GAIN=2		Sequence 1-5 Non-Int Pattern 1-1 (1)	450.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2		(1) URANUS	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=NO; GAIN=4		Sequence 1-5 Non-Int	46.0 Secs [==>]	[1]
	3		(1) URANUS	ACS/HRC, ACCUM, HRC	F658N	CR-SPLIT=NO; GAIN=4		Sequence 1-5 Non-Int	354.0 Secs [==>]	[1]
	4		(1) URANUS	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=NO; GAIN=4		Sequence 1-5 Non-Int	46.0 Secs [==>]	[1]
	5		(1) URANUS	ACS/HRC, ACCUM, HRC	F892N	CR-SPLIT=NO; PAREXP=NONE; GAIN=2		Sequence 1-5 Non-Int Pattern 5-5 (1)	350.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 10805 - Visit 02 - ACS Imaging of Uranus' Atmosphere Near Equinox

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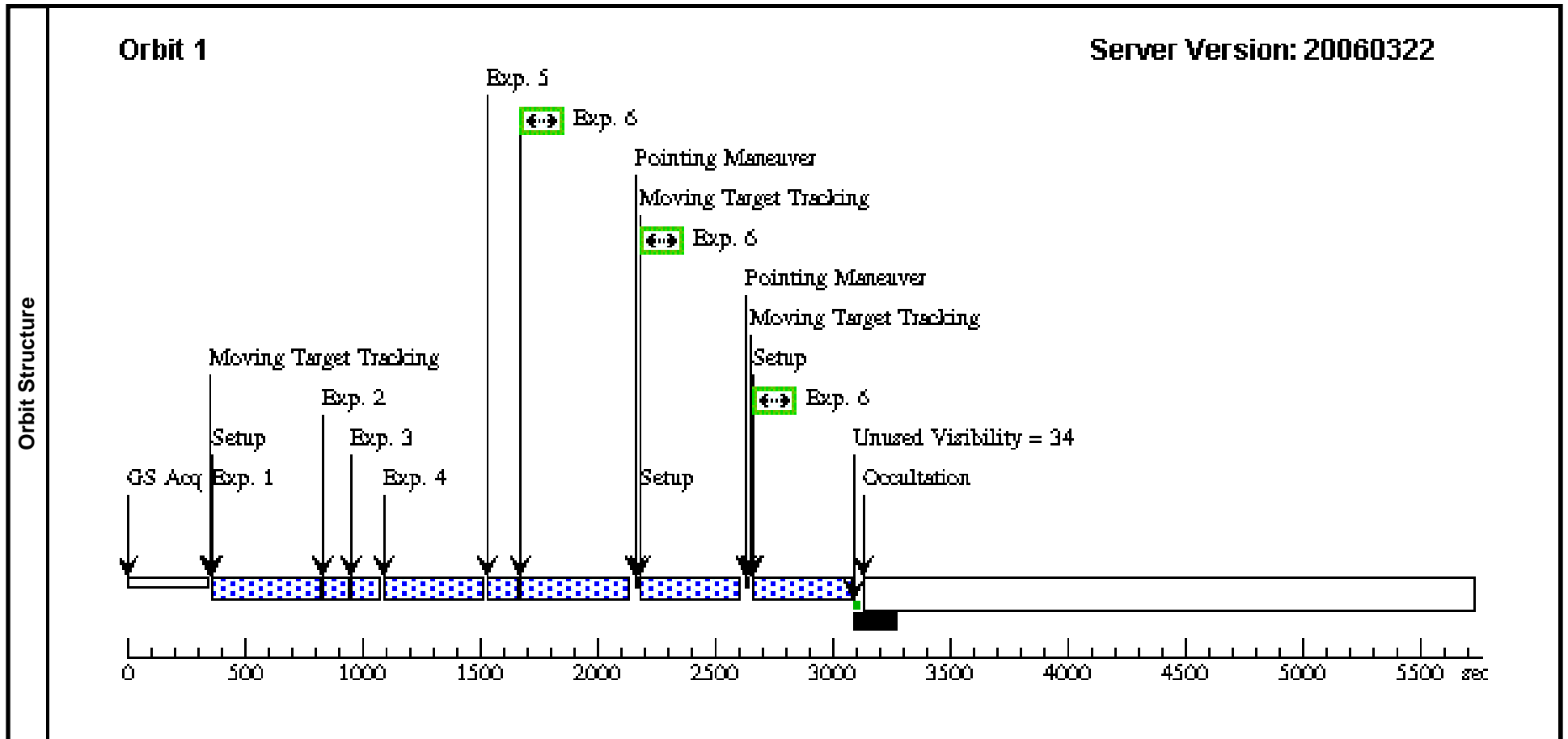
Visit	Proposal 10805, Visit 02 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: AFTER 01 BY 0.8 Orbits TO 1.2 Orbits Comments: WFC ORAMP									
	Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window			
	(1)	URANUS	STD=URANUS							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR601N 6190.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	35.0 Secs [==>]	[1]
	2	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR782N 7500.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	24.0 Secs [==>]	[1]
	3	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR782N 7700.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	34.0 Secs [==>]	[1]
	4	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR782N 7900.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	55.0 Secs [==>]	[1]
	5	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR931N 9150.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	350.0 Secs [==>]	[1]
	6	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR931N 9350.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	71.0 Secs [==>]	[1]
	7	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR931N 9550.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	250.0 Secs [==>]	[1]
	8	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR931N 9150.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	113.0 Secs [==>]	[1]



Proposal 10805 - Visit 03 - ACS Imaging of Uranus' Atmosphere Near Equinox

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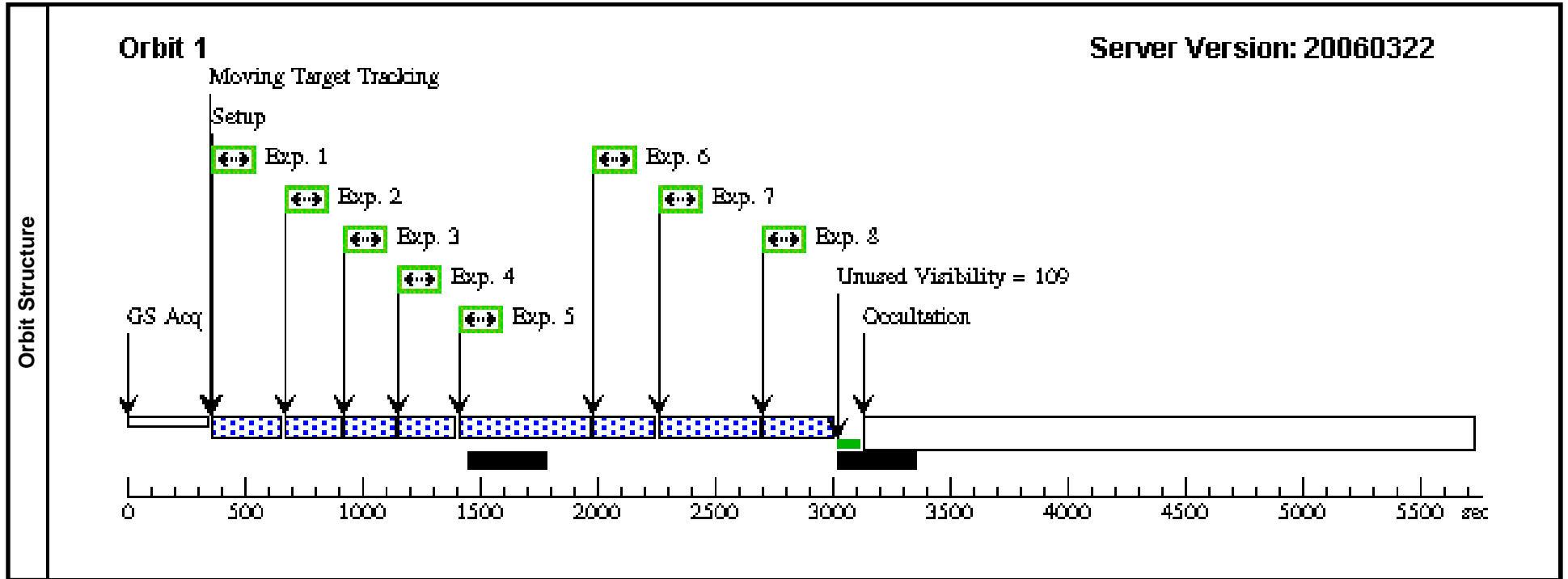
Visit	Proposal 10805, Visit 03 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: AFTER 01 BY 2.8 Orbits TO 3.2 Orbits Comments: HRC B										
	Patterns	#	Primary Pattern			Secondary Pattern				Exposures	
(2)		Pattern Type=ACS-HRC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.079 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.4 Angle Between Sides= Center Pattern=false					(6)			
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window					
	(1)	URANUS	STD=URANUS								
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1	(1) URANUS	ACS/HRC, ACCUM, HRC	F330W	CR-SPLIT=NO; GAIN=4		Sequence 1-6 Non-Int	344.0 Secs [==>]	[1]		
	2	(1) URANUS	ACS/HRC, ACCUM, HRC	F435W	CR-SPLIT=NO; GAIN=4		Sequence 1-6 Non-Int	45.0 Secs [==>]	[1]		
	3	(1) URANUS	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=NO; GAIN=4		Sequence 1-6 Non-Int	46.0 Secs [==>]	[1]		
	4	(1) URANUS	ACS/HRC, ACCUM, HRC	F658N	CR-SPLIT=NO; GAIN=4		Sequence 1-6 Non-Int	354.0 Secs [==>]	[1]		
	5	(1) URANUS	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=NO; GAIN=4		Sequence 1-6 Non-Int	64.0 Secs [==>]	[1]		
	6	(1) URANUS	ACS/HRC, ACCUM, HRC	F892N	CR-SPLIT=NO; PAREXP=NONE; GAIN=2		Sequence 1-6 Non-Int Pattern 6-6 (2)	390.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]		



Proposal 10805 - Visit 04 - ACS Imaging of Uranus' Atmosphere Near Equinox

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Visit	Proposal 10805, Visit 04 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: AFTER 01 BY 3.8 Orbits TO 4.2 Orbits Comments: WFC ORAMP									
	Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window			
	(1)	URANUS	STD=URANUS							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR601N 6190.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	35.0 Secs [==>]	[1]
	2	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR782N 7500.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	24.0 Secs [==>]	[1]
	3	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR782N 7700.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	34.0 Secs [==>]	[1]
	4	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR782N 7900.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	55.0 Secs [==>]	[1]
	5	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR931N 9150.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	350.0 Secs [==>]	[1]
	6	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR931N 9350.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	71.0 Secs [==>]	[1]
	7	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR931N 9550.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	250.0 Secs [==>]	[1]
	8	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR931N 9150.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	113.0 Secs [==>]	[1]



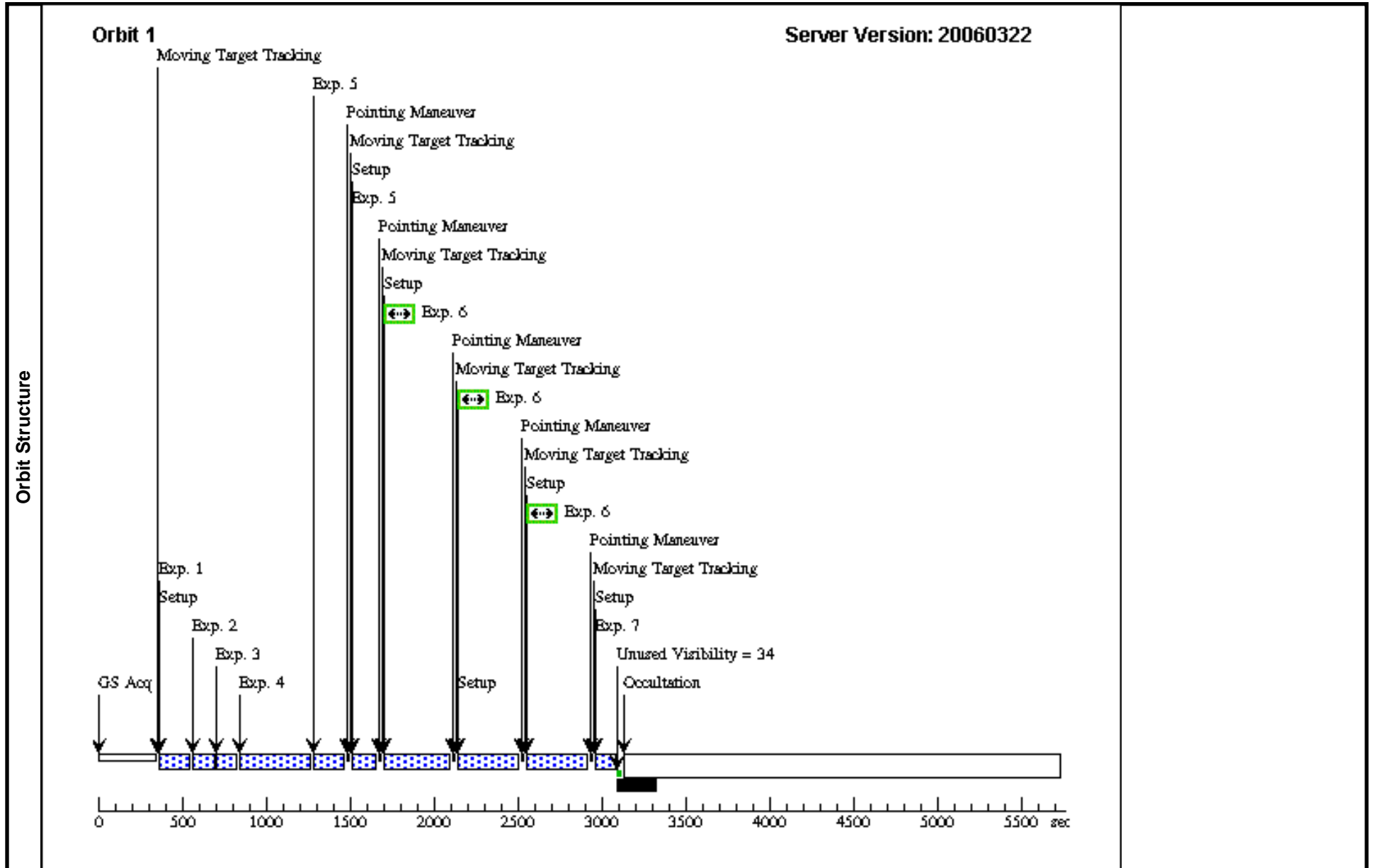
Proposal 10805 - Visit 05 - ACS Imaging of Uranus' Atmosphere Near Equinox

Wed Aug 02 01:57:17 GMT 2006

Visit	Proposal 10805, Visit 05 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: AFTER 01 BY 4.8 Orbits TO 5.2 Orbits Comments: HRC C									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=ACS-HRC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.079 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.4 Angle Between Sides= Center Pattern=false					(5)		
(2)	Pattern Type=ACS-HRC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.079 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.4 Angle Between Sides= Center Pattern=false					(6)			
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window				
	(1)	URANUS	STD=URANUS							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) URANUS	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=NO; GAIN=4		Sequence 1-7 Non-Int	64.0 Secs [==>]	[1]	
	2	(1) URANUS	ACS/HRC, ACCUM, HRC	F435W	CR-SPLIT=NO; GAIN=4		Sequence 1-7 Non-Int	45.0 Secs [==>]	[1]	
	3	(1) URANUS	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=NO; GAIN=4		Sequence 1-7 Non-Int	46.0 Secs [==>]	[1]	
	4	(1) URANUS	ACS/HRC, ACCUM, HRC	F658N	CR-SPLIT=NO; GAIN=4		Sequence 1-7 Non-Int	354.0 Secs [==>]	[1]	
	5	(1) URANUS	ACS/HRC, ACCUM, HRC	F850LP	CR-SPLIT=NO; GAIN=4		Sequence 1-7 Non-Int Pattern 5-5 (1)	102.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]	

Proposal 10805 - Visit 05 - ACS Imaging of Uranus' Atmosphere Near Equinox

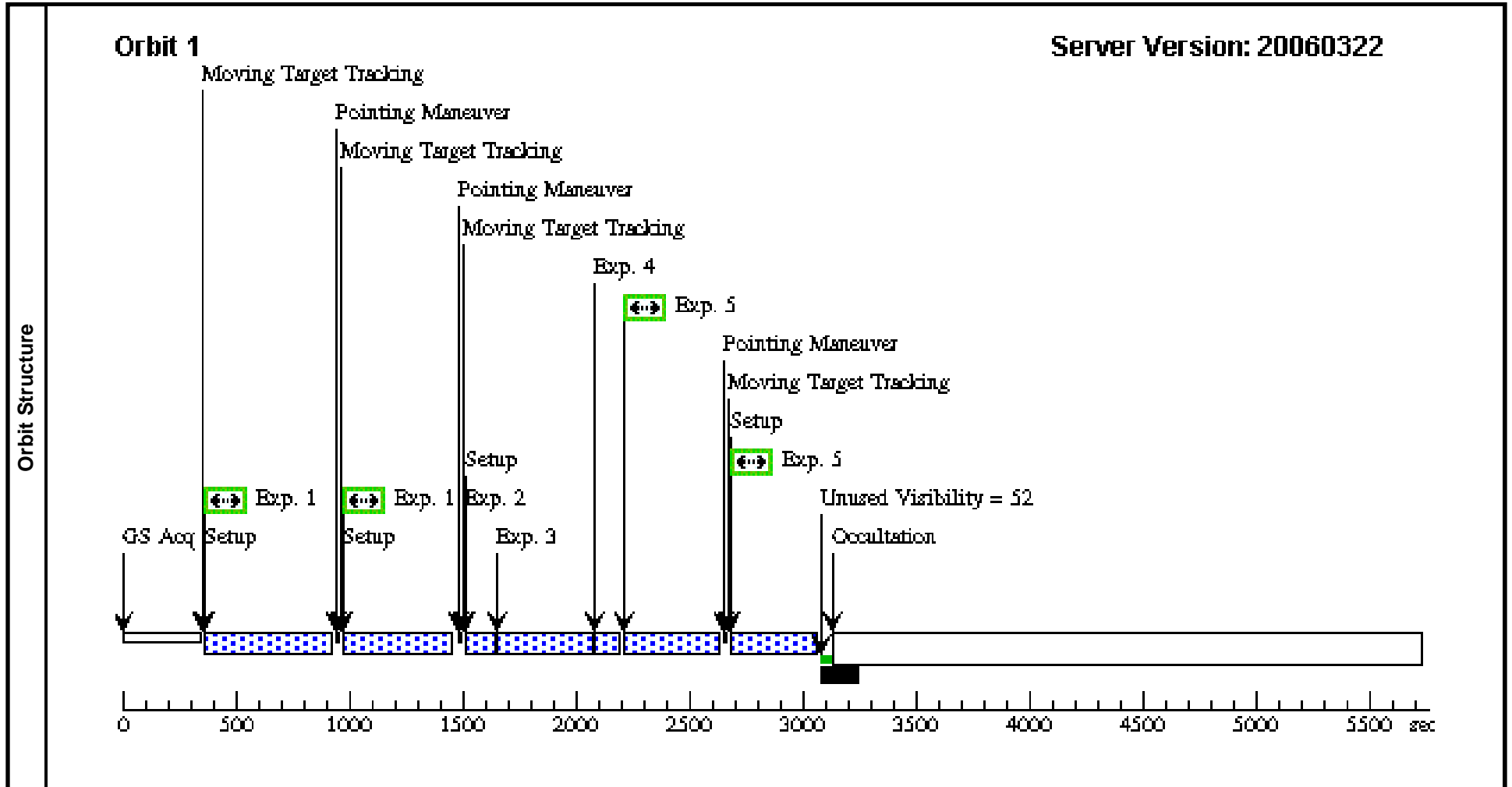
Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		6		(1) URANUS	ACS/HRC, ACCUM, HRC	F892N	CR-SPLIT=NO; PAREXP=NONE; GAIN=2		Sequence 1-7 Non-Int Pattern 6-6 (2)	330.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]
	7		(1) URANUS	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=NO; GAIN=4		Sequence 1-7 Non-Int	46.0 Secs [==>]	[1]



Proposal 10805 - Visit 06 - ACS Imaging of Uranus' Atmosphere Near Equinox

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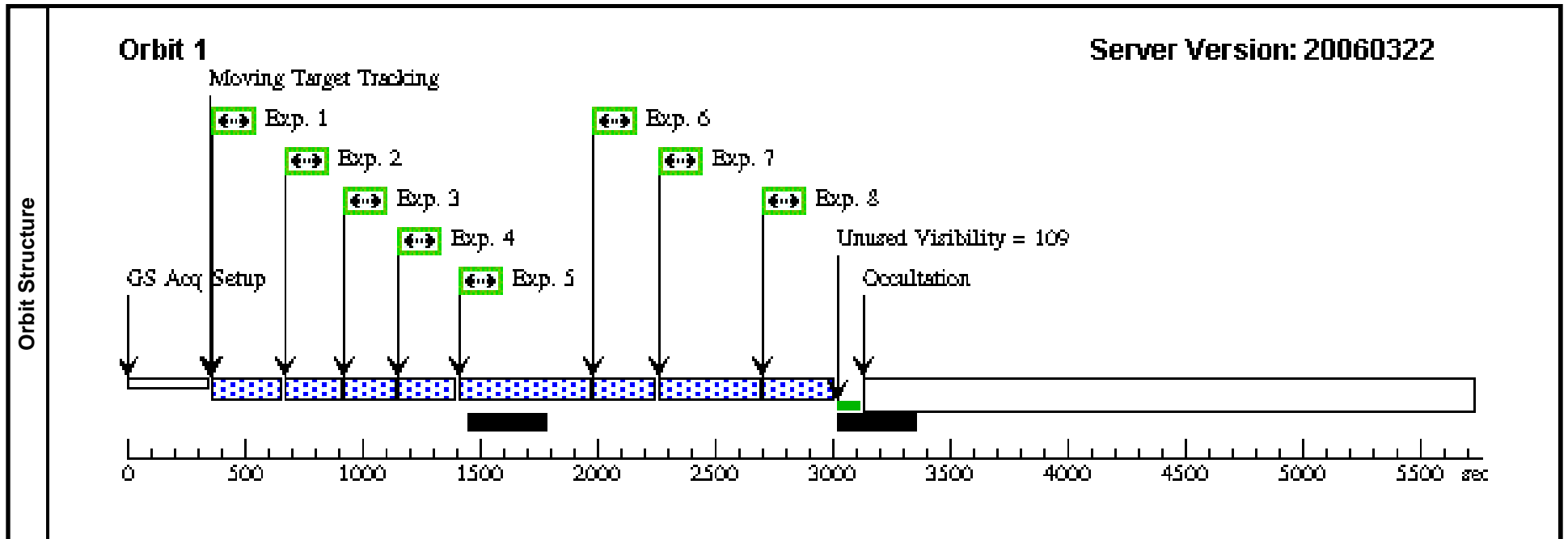
Visit	Proposal 10805, Visit 06 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: AFTER 01 BY 14.8 Orbits TO 15.2 Orbits Comments: HRC A									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=ACS-HRC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.079 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.4 Angle Between Sides= Center Pattern=false					(1), (5)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window				
	(1)	URANUS	STD=URANUS							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) URANUS	ACS/HRC, ACCUM, HRC	F250W	CR-SPLIT=NO; PAREXP=NONE; GAIN=2		Sequence 1-5 Non-Int Pattern 1-1 (1)	450.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2		(1) URANUS	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=NO; GAIN=4		Sequence 1-5 Non-Int	46.0 Secs [==>]	[1]
	3		(1) URANUS	ACS/HRC, ACCUM, HRC	F658N	CR-SPLIT=NO; GAIN=4		Sequence 1-5 Non-Int	354.0 Secs [==>]	[1]
	4		(1) URANUS	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=NO; GAIN=4		Sequence 1-5 Non-Int	46.0 Secs [==>]	[1]
	5		(1) URANUS	ACS/HRC, ACCUM, HRC	F892N	CR-SPLIT=NO; PAREXP=NONE; GAIN=2		Sequence 1-5 Non-Int Pattern 5-5 (1)	350.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 10805 - Visit 07 - ACS Imaging of Uranus' Atmosphere Near Equinox

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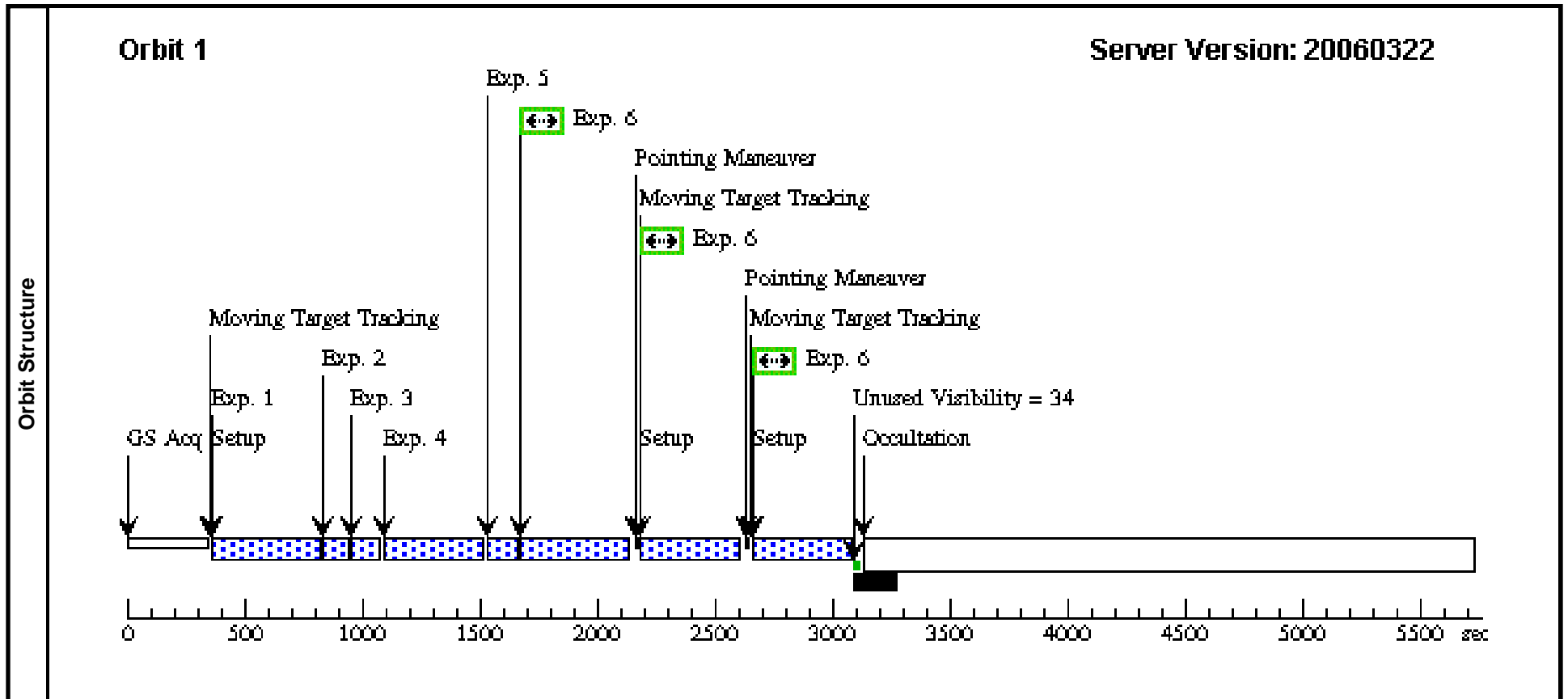
Visit	Proposal 10805, Visit 07 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: AFTER 06 BY 0.8 Orbits TO 1.2 Orbits Comments: WFC ORAMP									
	Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window			
	(1)	URANUS	STD=URANUS							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR601N 6190.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	35.0 Secs [==>]	[1]
	2	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR782N 7500.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	24.0 Secs [==>]	[1]
	3	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR782N 7700.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	34.0 Secs [==>]	[1]
	4	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR782N 7900.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	55.0 Secs [==>]	[1]
	5	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR931N 9150.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	350.0 Secs [==>]	[1]
	6	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR931N 9350.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	71.0 Secs [==>]	[1]
	7	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR931N 9550.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	250.0 Secs [==>]	[1]
	8	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR931N 9150.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	113.0 Secs [==>]	[1]



Proposal 10805 - Visit 08 - ACS Imaging of Uranus' Atmosphere Near Equinox

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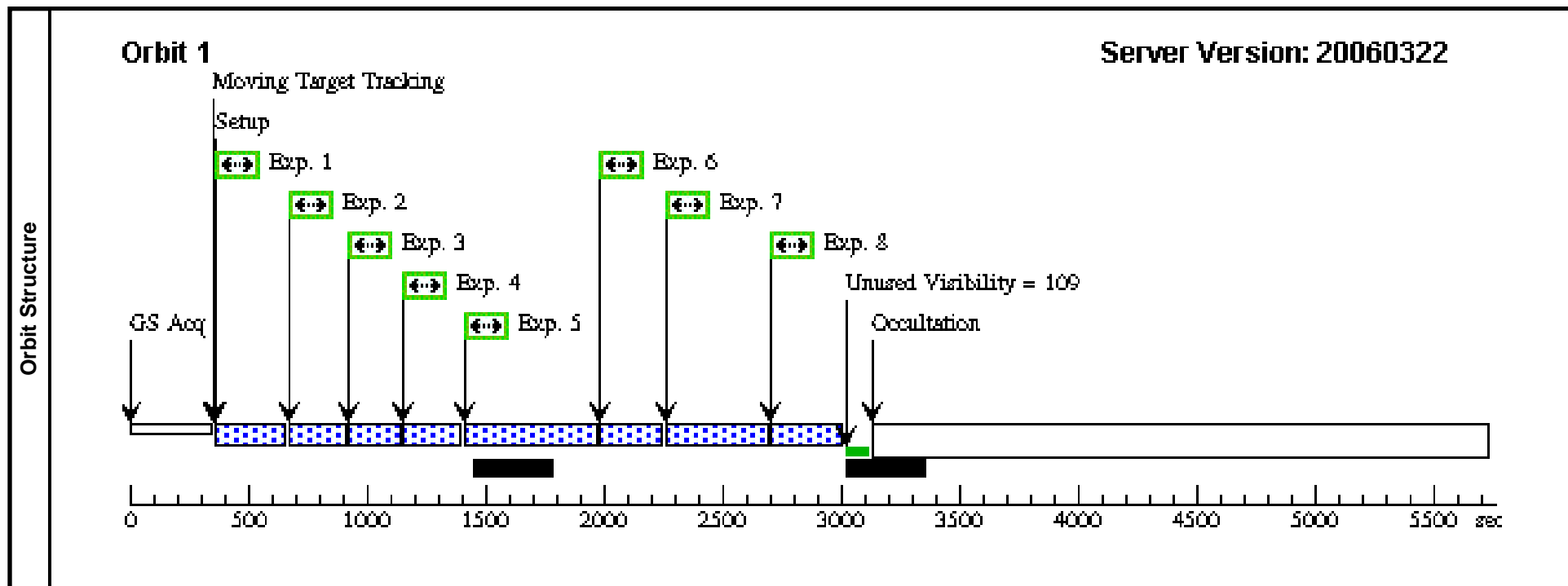
Visit	Proposal 10805, Visit 08 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: AFTER 06 BY 2.8 Orbits TO 3.2 Orbits Comments: HRC B										
	Patterns	#	Primary Pattern			Secondary Pattern				Exposures	
(2)		Pattern Type=ACS-HRC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.079 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.4 Angle Between Sides= Center Pattern=false					(6)			
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window					
	(1)	URANUS	STD=URANUS								
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1	(1) URANUS	ACS/HRC, ACCUM, HRC	F330W	CR-SPLIT=NO; GAIN=4		Sequence 1-6 Non-Int	344.0 Secs	[==>]	[1]	
	2	(1) URANUS	ACS/HRC, ACCUM, HRC	F435W	CR-SPLIT=NO; GAIN=4		Sequence 1-6 Non-Int	45.0 Secs	[==>]	[1]	
	3	(1) URANUS	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=NO; GAIN=4		Sequence 1-6 Non-Int	46.0 Secs	[==>]	[1]	
	4	(1) URANUS	ACS/HRC, ACCUM, HRC	F658N	CR-SPLIT=NO; GAIN=4		Sequence 1-6 Non-Int	354.0 Secs	[==>]	[1]	
	5	(1) URANUS	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=NO; GAIN=4		Sequence 1-6 Non-Int	64.0 Secs	[==>]	[1]	
	6	(1) URANUS	ACS/HRC, ACCUM, HRC	F892N	CR-SPLIT=NO; PAREXP=NONE; GAIN=2		Sequence 1-6 Non-Int Pattern 6-6 (2)	390.0 Secs	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	



Proposal 10805 - Visit 09 - ACS Imaging of Uranus' Atmosphere Near Equinox

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Visit	Proposal 10805, Visit 09 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: AFTER 06 BY 3.8 Orbits TO 4.2 Orbits Comments: WFC ORAMP									
	Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window			
	(1)	URANUS	STD=URANUS							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR601N 6190.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	35.0 Secs [==>]	[1]
	2	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR782N 7500.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	24.0 Secs [==>]	[1]
	3	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR782N 7700.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	34.0 Secs [==>]	[1]
	4	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR782N 7900.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	55.0 Secs [==>]	[1]
	5	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR931N 9150.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	350.0 Secs [==>]	[1]
	6	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR931N 9350.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	71.0 Secs [==>]	[1]
	7	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR931N 9550.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	250.0 Secs [==>]	[1]
	8	(1) URANUS	(1) URANUS	ACS/WFC, ACCUM, WFC2-ORAMPQ	FR931N 9150.0 A	CR-SPLIT=NO		Sequence 1-8 Non-Int	113.0 Secs [==>]	[1]



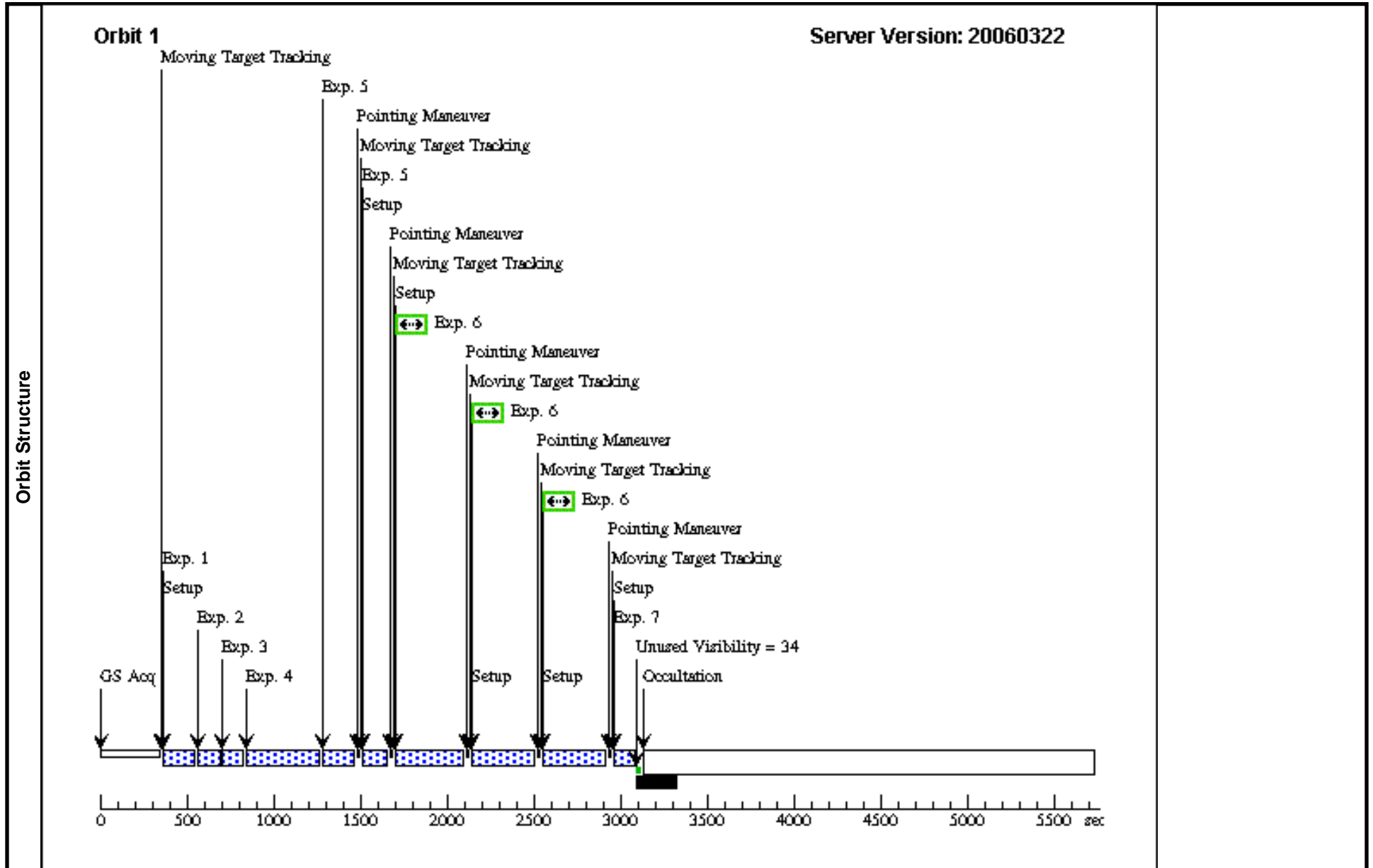
Proposal 10805 - Visit 10 - ACS Imaging of Uranus' Atmosphere Near Equinox

Wed Aug 02 01:57:20 GMT 2006

Visit	Proposal 10805, Visit 10 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: AFTER 06 BY 4.8 Orbits TO 5.2 Orbits Comments: HRC C									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=ACS-HRC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.079 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.4 Angle Between Sides= Center Pattern=false						
	(2)	Pattern Type=ACS-HRC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.079 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.4 Angle Between Sides= Center Pattern=false							(6)
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window				
	(1)	URANUS	STD=URANUS							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) URANUS	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=NO; GAIN=4			Sequence 1-7 Non-Int	64.0 Secs [==>]	[1]
	2	(1) URANUS	ACS/HRC, ACCUM, HRC	F435W	CR-SPLIT=NO; GAIN=4			Sequence 1-7 Non-Int	45.0 Secs [==>]	[1]
	3	(1) URANUS	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=NO; GAIN=4			Sequence 1-7 Non-Int	46.0 Secs [==>]	[1]
	4	(1) URANUS	ACS/HRC, ACCUM, HRC	F658N	CR-SPLIT=NO; GAIN=4			Sequence 1-7 Non-Int	354.0 Secs [==>]	[1]
	5	(1) URANUS	ACS/HRC, ACCUM, HRC	F850LP	CR-SPLIT=NO; GAIN=4			Sequence 1-7 Non-Int Pattern 5-5 (1)	102.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]

Proposal 10805 - Visit 10 - ACS Imaging of Uranus' Atmosphere Near Equinox

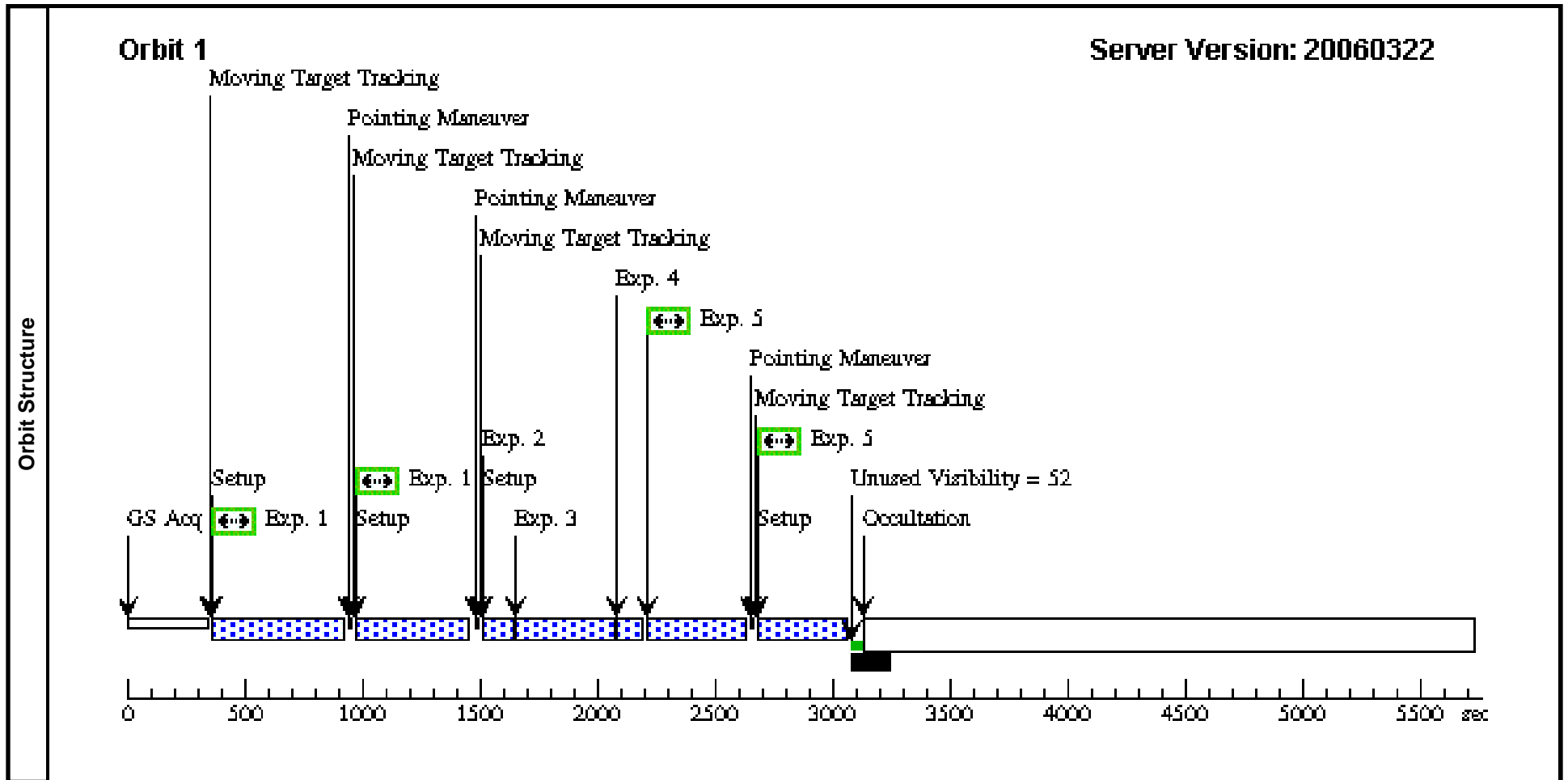
Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		6		(1) URANUS	ACS/HRC, ACCUM, HRC	F892N	CR-SPLIT=NO; PAREXP=NONE; GAIN=2		Sequence 1-7 Non-Int Pattern 6-6 (2)	330.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]
	7		(1) URANUS	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=NO; GAIN=4		Sequence 1-7 Non-Int	46.0 Secs [==>]	[1]



Proposal 10805 - Visit 51 - ACS Imaging of Uranus' Atmosphere Near Equinox

Wed Aug 02 01:57:20 GMT 2006

Visit	Proposal 10805, Visit 51 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: BETWEEN 01-JUL-2006:00:00:00 AND 01-SEP-2006:00:00:00 Comments: HRC A									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=ACS-HRC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.079 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.4 Angle Between Sides= Center Pattern=false					(1), (5)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window				
	(1)	URANUS	STD=URANUS							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) URANUS	(1) URANUS	ACS/HRC, ACCUM, HRC	F250W	CR-SPLIT=NO; PAREXP=NONE; GAIN=2		Sequence 1-5 Non-Int Pattern 1-1 (1)	450.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(1) URANUS	(1) URANUS	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=NO; GAIN=4		Sequence 1-5 Non-Int	46.0 Secs [==>]	[1]
	3	(1) URANUS	(1) URANUS	ACS/HRC, ACCUM, HRC	F658N	CR-SPLIT=NO; GAIN=4		Sequence 1-5 Non-Int	354.0 Secs [==>]	[1]
	4	(1) URANUS	(1) URANUS	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=NO; GAIN=4		Sequence 1-5 Non-Int	46.0 Secs [==>]	[1]
	5	(1) URANUS	(1) URANUS	ACS/HRC, ACCUM, HRC	F892N	CR-SPLIT=NO; PAREXP=NONE; GAIN=2		Sequence 1-5 Non-Int Pattern 5-5 (1)	350.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]



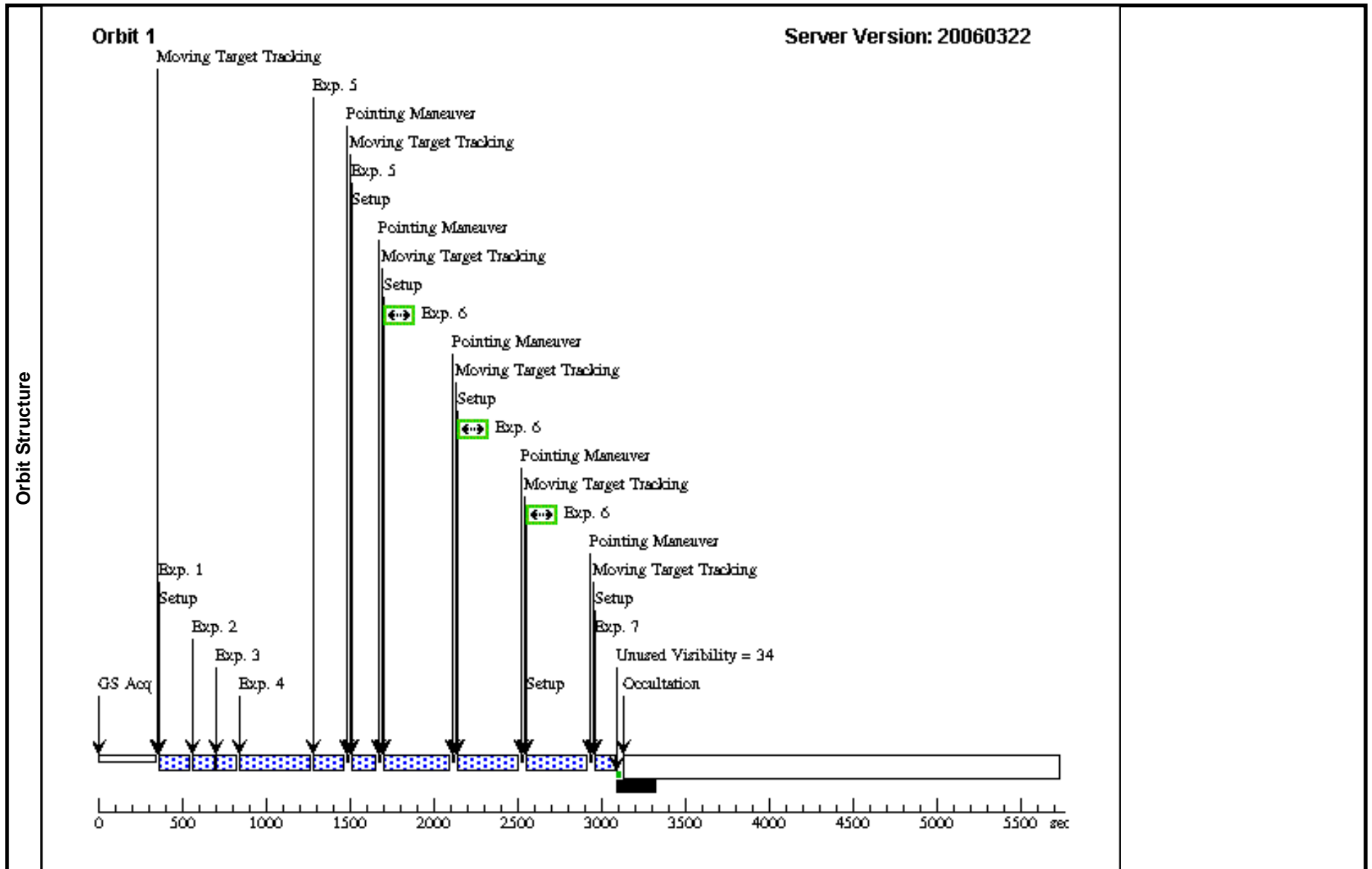
Proposal 10805 - Visit 52 - ACS Imaging of Uranus' Atmosphere Near Equinox

Wed Aug 02 01:57:21 GMT 2006

Visit	Proposal 10805, Visit 52 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: AFTER 51 BY 2.8 Orbits TO 3.2 Orbits Comments: HRC C									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=ACS-HRC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.079 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.4 Angle Between Sides= Center Pattern=false						
	(2)	Pattern Type=ACS-HRC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.079 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.4 Angle Between Sides= Center Pattern=false							(6)
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window				
	(1)	URANUS	STD=URANUS							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) URANUS	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=NO; GAIN=4		Sequence 1-7 Non-Int	64.0 Secs [==>]	[1]
	2		(1) URANUS	ACS/HRC, ACCUM, HRC	F435W	CR-SPLIT=NO; GAIN=4		Sequence 1-7 Non-Int	45.0 Secs [==>]	[1]
	3		(1) URANUS	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=NO; GAIN=4		Sequence 1-7 Non-Int	46.0 Secs [==>]	[1]
	4		(1) URANUS	ACS/HRC, ACCUM, HRC	F658N	CR-SPLIT=NO; GAIN=4		Sequence 1-7 Non-Int	354.0 Secs [==>]	[1]
	5		(1) URANUS	ACS/HRC, ACCUM, HRC	F850LP	CR-SPLIT=NO; GAIN=4		Sequence 1-7 Non-Int Pattern 5-5 (1)	102.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]

Proposal 10805 - Visit 52 - ACS Imaging of Uranus' Atmosphere Near Equinox

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		6		(1) URANUS	ACS/HRC, ACCUM, HRC	F892N	CR-SPLIT=NO; PAREXP=NONE; GAIN=2		Sequence 1-7 Non-Int Pattern 6-6 (2)	330.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]
	7		(1) URANUS	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=NO; GAIN=4		Sequence 1-7 Non-Int	46.0 Secs [==>]	[1]



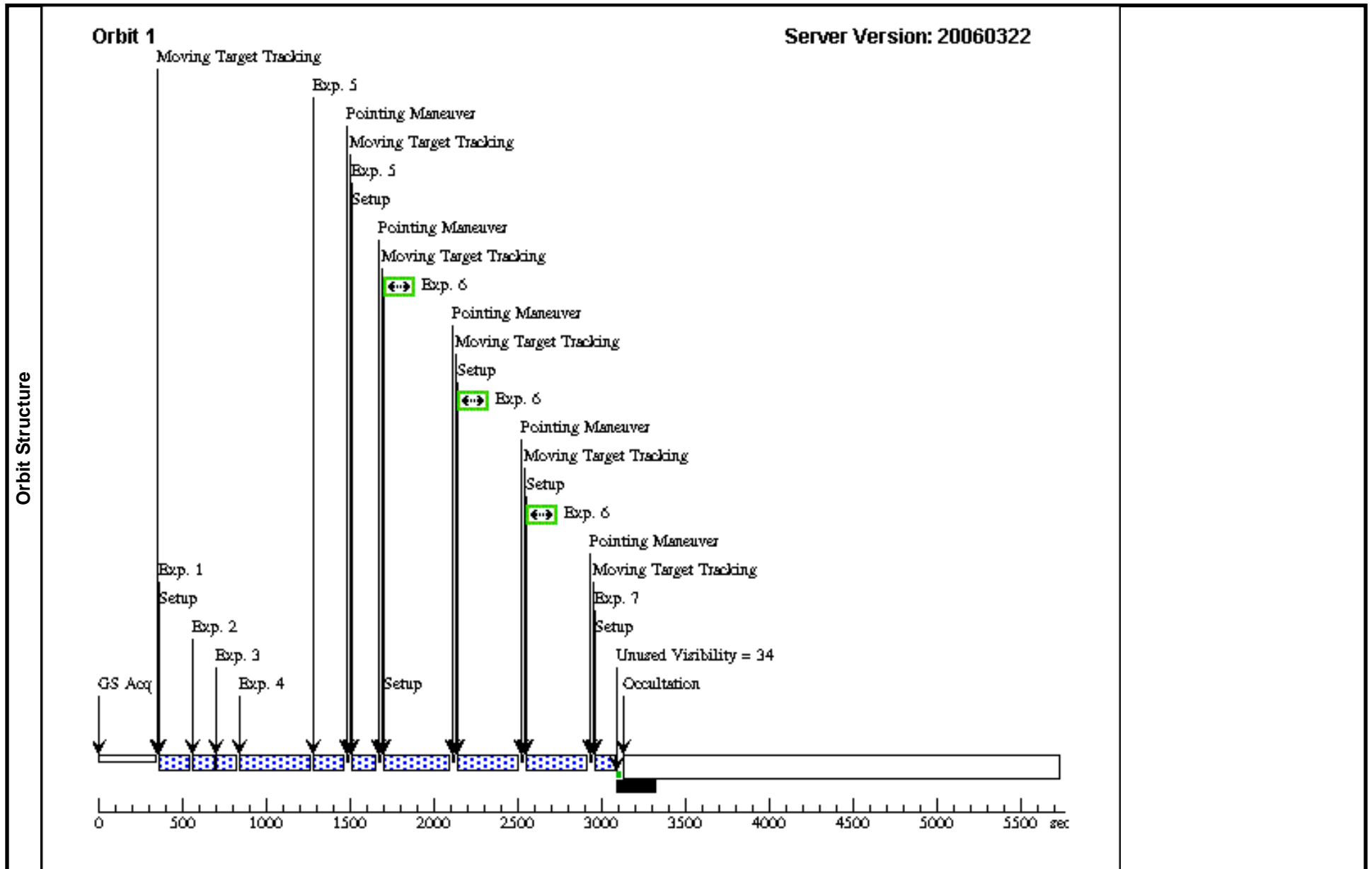
Proposal 10805 - Visit 53 - ACS Imaging of Uranus' Atmosphere Near Equinox

Wed Aug 02 01:57:21 GMT 2006

Visit	Proposal 10805, Visit 53 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: AFTER 51 BY 4.8 Orbits TO 5.2 Orbits Comments: HRC C									
	Patterns	#	Primary Pattern			Secondary Pattern				Exposures
(1)		Pattern Type=ACS-HRC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.079 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.4 Angle Between Sides= Center Pattern=false						(5)	
(2)	Pattern Type=ACS-HRC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.079 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.4 Angle Between Sides= Center Pattern=false						(6)		
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window				
	(1)	URANUS	STD=URANUS							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) URANUS	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=NO; GAIN=4			Sequence 1-7 Non-Int	64.0 Secs [==>]	[1]
	2	(1) URANUS	ACS/HRC, ACCUM, HRC	F435W	CR-SPLIT=NO; GAIN=4			Sequence 1-7 Non-Int	45.0 Secs [==>]	[1]
	3	(1) URANUS	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=NO; GAIN=4			Sequence 1-7 Non-Int	46.0 Secs [==>]	[1]
	4	(1) URANUS	ACS/HRC, ACCUM, HRC	F658N	CR-SPLIT=NO; GAIN=4			Sequence 1-7 Non-Int	354.0 Secs [==>]	[1]
	5	(1) URANUS	ACS/HRC, ACCUM, HRC	F850LP	CR-SPLIT=NO; GAIN=4			Sequence 1-7 Non-Int Pattern 5-5 (1)	102.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]

Proposal 10805 - Visit 53 - ACS Imaging of Uranus' Atmosphere Near Equinox

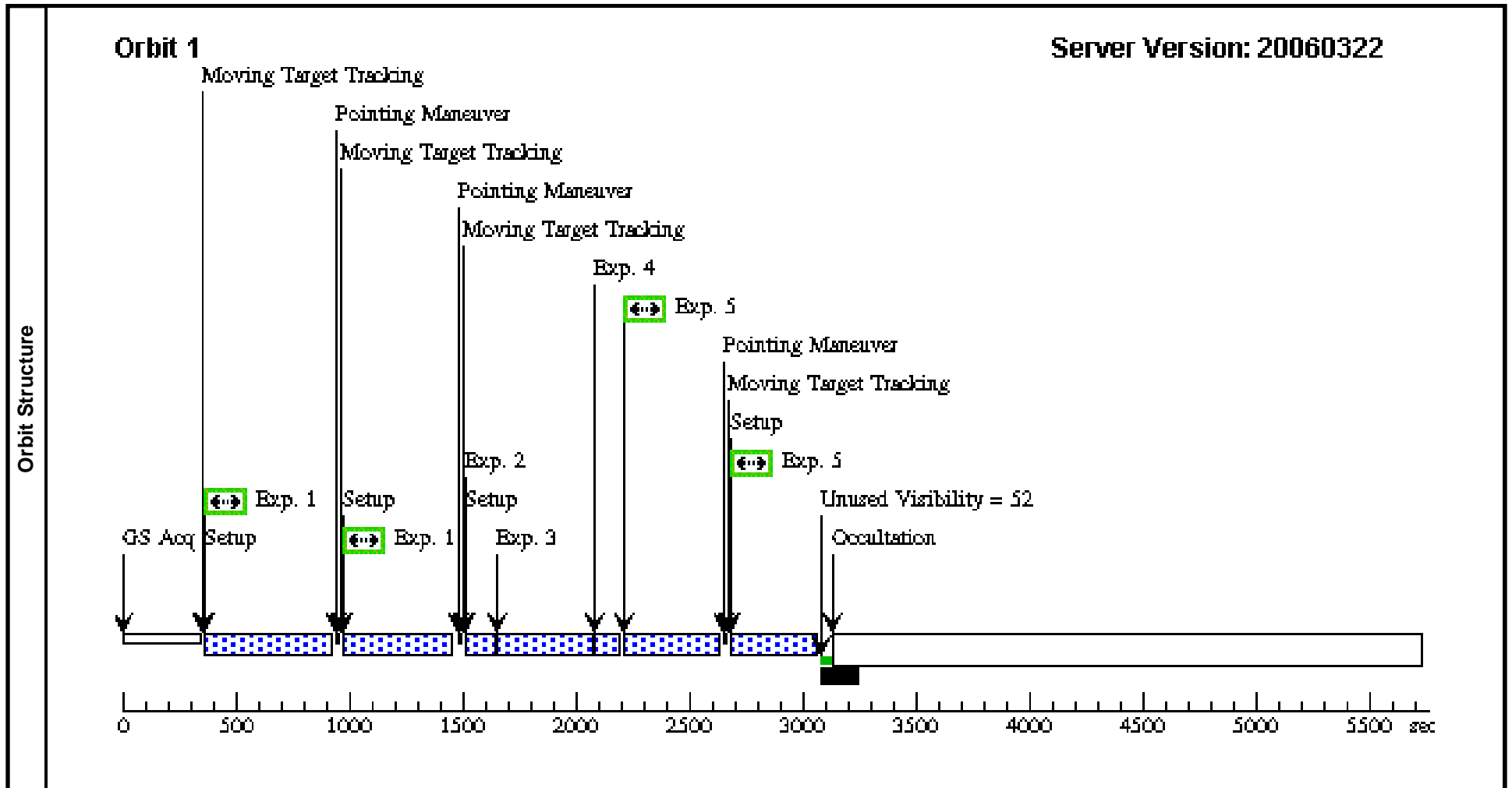
Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		6		(1) URANUS	ACS/HRC, ACCUM, HRC	F892N	CR-SPLIT=NO; PAREXP=NONE; GAIN=2		Sequence 1-7 Non-Int Pattern 6-6 (2)	330.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]
	7		(1) URANUS	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=NO; GAIN=4		Sequence 1-7 Non-Int	46.0 Secs [==>]	[1]



Proposal 10805 - Visit 54 - ACS Imaging of Uranus' Atmosphere Near Equinox

Wed Aug 02 01:57:22 GMT 2006

Visit	Proposal 10805, Visit 54 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: AFTER 51 BY 14.8 Orbits TO 15.2 Orbits Comments: HRC A									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=ACS-HRC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.079 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.4 Angle Between Sides= Center Pattern=false					(1), (5)	
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window				
	(1)	URANUS	STD=URANUS							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) URANUS	ACS/HRC, ACCUM, HRC	F250W	CR-SPLIT=NO; PAREXP=NONE; GAIN=2		Sequence 1-5 Non-Int Pattern 1-1 (1)	450.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2		(1) URANUS	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=NO; GAIN=4		Sequence 1-5 Non-Int	46.0 Secs [==>]	[1]
	3		(1) URANUS	ACS/HRC, ACCUM, HRC	F658N	CR-SPLIT=NO; GAIN=4		Sequence 1-5 Non-Int	354.0 Secs [==>]	[1]
	4		(1) URANUS	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=NO; GAIN=4		Sequence 1-5 Non-Int	46.0 Secs [==>]	[1]
	5		(1) URANUS	ACS/HRC, ACCUM, HRC	F892N	CR-SPLIT=NO; PAREXP=NONE; GAIN=2		Sequence 1-5 Non-Int Pattern 5-5 (1)	350.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]



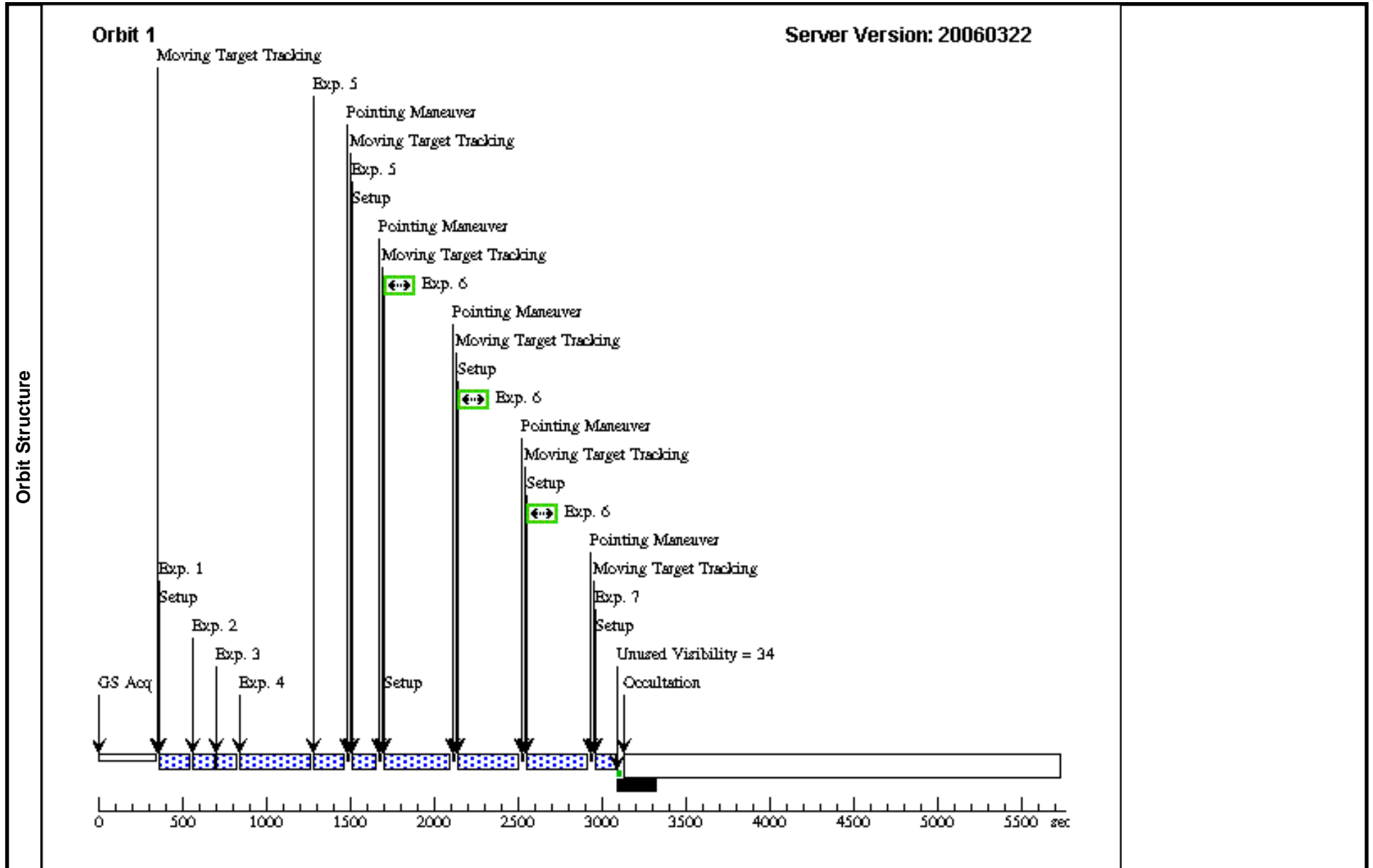
Proposal 10805 - Visit 55 - ACS Imaging of Uranus' Atmosphere Near Equinox

Wed Aug 02 01:57:22 GMT 2006

Visit	Proposal 10805, Visit 55 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: AFTER 51 BY 17.8 Orbits TO 18.2 Orbits Comments: HRC C									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=ACS-HRC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.079 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.4 Angle Between Sides= Center Pattern=false					(5)		
(2)	Pattern Type=ACS-HRC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.079 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.4 Angle Between Sides= Center Pattern=false					(6)			
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window				
	(1)	URANUS	STD=URANUS							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) URANUS	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=NO; GAIN=4		Sequence 1-7 Non-Int	64.0 Secs [==>]	[1]	
	2	(1) URANUS	ACS/HRC, ACCUM, HRC	F435W	CR-SPLIT=NO; GAIN=4		Sequence 1-7 Non-Int	45.0 Secs [==>]	[1]	
	3	(1) URANUS	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=NO; GAIN=4		Sequence 1-7 Non-Int	46.0 Secs [==>]	[1]	
	4	(1) URANUS	ACS/HRC, ACCUM, HRC	F658N	CR-SPLIT=NO; GAIN=4		Sequence 1-7 Non-Int	354.0 Secs [==>]	[1]	
	5	(1) URANUS	ACS/HRC, ACCUM, HRC	F850LP	CR-SPLIT=NO; GAIN=4		Sequence 1-7 Non-Int Pattern 5-5 (1)	102.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]	

Proposal 10805 - Visit 55 - ACS Imaging of Uranus' Atmosphere Near Equinox

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		6		(1) URANUS	ACS/HRC, ACCUM, HRC	F892N	CR-SPLIT=NO; PAREXP=NONE; GAIN=2		Sequence 1-7 Non-Int Pattern 6-6 (2)	330.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]
	7		(1) URANUS	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=NO; GAIN=4		Sequence 1-7 Non-Int	46.0 Secs [==>]	[1]



Proposal 10805 - Visit 56 - ACS Imaging of Uranus' Atmosphere Near Equinox

Wed Aug 02 01:57:23 GMT 2006

Visit	Proposal 10805, Visit 56 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: AFTER 51 BY 19.8 Orbits TO 20.2 Orbits Comments: HRC C									
	Patterns	#	Primary Pattern				Secondary Pattern			
(1)		Pattern Type=ACS-HRC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.079 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.4 Angle Between Sides= Center Pattern=false							(5)
(2)	Pattern Type=ACS-HRC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.079 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.4 Angle Between Sides= Center Pattern=false								(6)
Solar System Targets	#	Name	Level 1	Level 2	Level 3	Window				
	(1)	URANUS	STD=URANUS							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) URANUS	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=NO; GAIN=4			Sequence 1-7 Non-Int	64.0 Secs [==>]	[1]
	2	(1) URANUS	ACS/HRC, ACCUM, HRC	F435W	CR-SPLIT=NO; GAIN=4			Sequence 1-7 Non-Int	45.0 Secs [==>]	[1]
	3	(1) URANUS	ACS/HRC, ACCUM, HRC	F550M	CR-SPLIT=NO; GAIN=4			Sequence 1-7 Non-Int	46.0 Secs [==>]	[1]
	4	(1) URANUS	ACS/HRC, ACCUM, HRC	F658N	CR-SPLIT=NO; GAIN=4			Sequence 1-7 Non-Int	354.0 Secs [==>]	[1]
	5	(1) URANUS	ACS/HRC, ACCUM, HRC	F850LP	CR-SPLIT=NO; GAIN=4			Sequence 1-7 Non-Int Pattern 5-5 (1)	102.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]

Proposal 10805 - Visit 56 - ACS Imaging of Uranus' Atmosphere Near Equinox

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		6		(1) URANUS	ACS/HRC, ACCUM, HRC	F892N	CR-SPLIT=NO; PAREXP=NONE; GAIN=2		Sequence 1-7 Non-Int Pattern 6-6 (2)	330.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]
	7		(1) URANUS	ACS/HRC, ACCUM, HRC	F775W	CR-SPLIT=NO; GAIN=4		Sequence 1-7 Non-Int	46.0 Secs [==>]	[1]

