



## 18102 - Investigating Saturn's Equatorial Winds at Equinox

Cycle: 33, Proposal Category: GO

(Availability Mode: AVAILABLE)

### INVESTIGATORS

<i>Name</i>	<i>Institution</i>
<b>Dr. Amy Simon (PI) (Contact)</b>	<b>NASA Goddard Space Flight Center</b>
Prof. Leigh Fletcher (CoI) (ESA Member)	University of Leicester
Dr. Arrate Antunano (CoI) (ESA Member)	Universidad del Pais Vasco
Dr. Ricardo Hueso (CoI) (ESA Member)	Universidad del Pais Vasco
Michael H. Wong (CoI)	University of California - Berkeley

### VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) SATURN	WFC3/UVIS	1	27-Aug-2025 22:00:15.0	yes
02	(1) SATURN	WFC3/UVIS	1	27-Aug-2025 22:00:16.0	yes
03	(1) SATURN	WFC3/UVIS	1	27-Aug-2025 22:00:17.0	yes
04	(1) SATURN	WFC3/UVIS	1	27-Aug-2025 22:00:17.0	yes
05	(1) SATURN	WFC3/UVIS	1	27-Aug-2025 22:00:18.0	yes
06	(1) SATURN	WFC3/UVIS	1	27-Aug-2025 22:00:19.0	yes
07	(1) SATURN	WFC3/UVIS	1	27-Aug-2025 22:00:20.0	yes
08	(1) SATURN	WFC3/UVIS	1	27-Aug-2025 22:00:21.0	yes
09	(1) SATURN	WFC3/UVIS	1	27-Aug-2025 22:00:21.0	yes
10	(1) SATURN	WFC3/UVIS	1	27-Aug-2025 22:00:23.0	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>
11	(1) SATURN	WFC3/UVIS	1	27-Aug-2025 22:00:23.0	yes
12	(1) SATURN	WFC3/UVIS	1	27-Aug-2025 22:00:24.0	yes

12 Total Orbits Used

## ABSTRACT

We propose a time-critical multi-wavelength study to develop a 3D picture of Saturn's equatorial region near equinox using 12 orbits of HST WFC3/UVIS and 10.6 hours of JWST MIRI/MRS. Saturn's stratospheric temperatures, vertical windshears, and meridional flows are influenced by seasonal temperature gradients, as well as wave-driven equatorial oscillations. We propose to test 5 hypotheses: 1) The speed, structure, and altitude of Saturn's stratospheric equatorial jet has changed since 2015 due to modulation by the equatorial oscillation; 2. Planetary-scale stratospheric circulations will switch direction at equinox; 3: Saturn's tropical windshear zones are asymmetric about the equator due to seasonal contrasts, affecting the 3D structure of the equatorial zonal jet; 4. Saturn's post-winter clouds and hazes (south) will be thinner and have different composition than post-summer (north); 5: Stratospheric hydrocarbons will be symmetric about the equator at high pressures but show deeper local maxima at northern and southern latitudes. We will address these hypotheses by using the powerful combined broad wavelength coverage of these two instruments to measure atmospheric temperatures, cloud-traced wind fields, and compositional tracers of upper altitude meridional circulation. These values will be compared with 2015 HST + Cassini solstice values, as well as 2022 MIRI data, to better understand the combined effects of solar insolation and wave-driven oscillations on atmospheric circulation. The unique geometry present around equinox, with both hemispheres simultaneously visible, will not repeat until 2039.

## OBSERVING DESCRIPTION

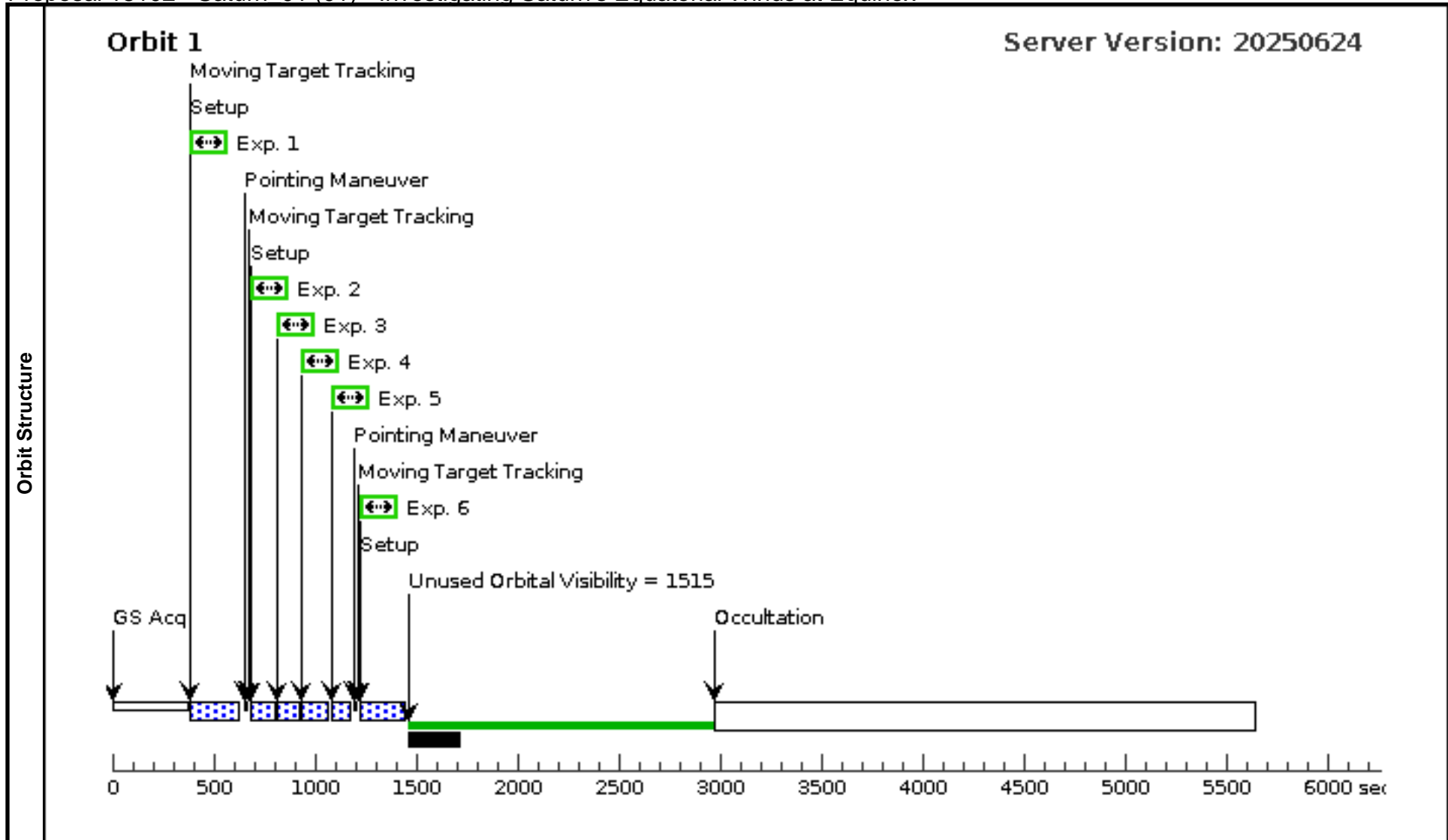
A total of 12 HST orbits are requested to maximize longitudinal coverage, in two sets of 6 contiguous orbits, to achieve global coverage with ~11-hour separations for high accuracy velocity mapping. Sets can be separated by an orbit to avoid contiguous viewing violations.

We request HST/JWST observations occur as close to equinox and minimum ring opening angles as possible, 16 Sept. (HST) and 24 Nov. 2025 (JWST). Acceptable Saturn RGM roll angles only occur between 2 to 24 Sept. 2025 and 3 June to 5 Oct. 2026, Fig. 5. Although the former window falls before the notional start of Cycle 33, it is strongly preferred as it gives the best Saturn latitude visibility and is close enough in time to the JWST Nov. 2025 viewing period for determining zonal-mean trends to better constrain the timing of circulation reversal. If it is not possible to schedule in Sept./Nov. 2025, the less ideal 2026 window is acceptable, however the JWST meteoroid avoidance window would also need to be waived.

Proposal 18102 - Saturn\_01 (01) - Investigating Saturn's Equatorial Winds at Equinox

Thu Aug 28 02:00:24 GMT 2025

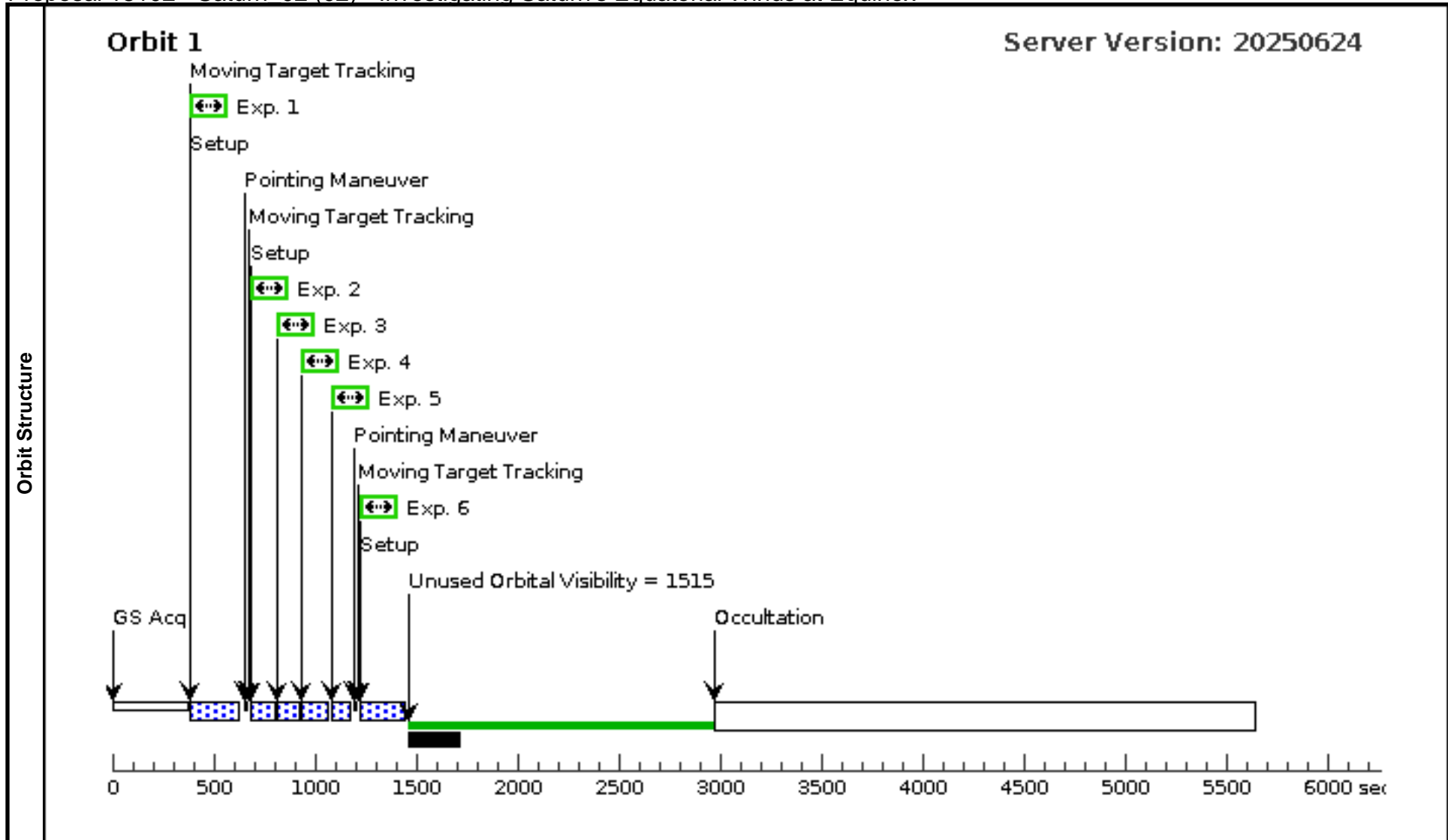
<b>Visit</b>	<b>Proposal 18102, Saturn_01 (01), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 08-SEP-2025 AND 24-SEP-2025; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET <i>Comments: Minimum ring opening angle occurs on 16 Sept 2025. We chose a window +/-8 days, but there are a few more days of one gyro visibility, if needed.</i>																																																																														
	<b>Diagnosics</b> (Saturn_01 (01)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED (Saturn_01 (01)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED (FQ889N-quadA (01.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889N-quadA (01.001)) 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. (F631N-M1K1C (01.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M-M1K1C (01.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F336W-M1K1C (01.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F689M-M1K1C (01.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ906N-quadC (01.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ906N-quadC (01.006)) Warning (Form): POS TARG & PATTERN should be used carefully with WFC3 quad filters to avoid placing the target on the vignetted part of the field of view or moving it to another quadrant. (Saturn_01 (01)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																																																																														
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2	F631N-M1K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F631N	CR-SPLIT=NO	SAA CONTOUR 02	Sequence 1-6 Non-Int in Saturn_01 (01)	15 Secs (15 Secs) [==>]	[1]																																																																						
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4	F336W-M1K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F336W	CR-SPLIT=NO	SAA CONTOUR 02	Sequence 1-6 Non-Int in Saturn_01 (01)	30 Secs (30 Secs) [==>]	[1]																																																																						
5	F689M-M1K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F689M	CR-SPLIT=NO	SAA CONTOUR 02	Sequence 1-6 Non-Int in Saturn_01 (01)	1.7 Secs (1.7 Secs) [==>]	[1]																																																																						
6	FQ906N-quadC	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ906N	CR-SPLIT=NO	POS TARG +19.38,+21.11; SAA CONTOUR 02	Sequence 1-6 Non-Int in Saturn_01 (01)	30 Secs (30 Secs) [==>]	[1]																																																																						



Proposal 18102 - Saturn\_02 (02) - Investigating Saturn's Equatorial Winds at Equinox

Thu Aug 28 02:00:24 GMT 2025

<b>Visit</b>	<b>Proposal 18102, Saturn_02 (02), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 01 BY 0.9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET																								
	<b>Diagnostics</b>	(Saturn_02 (02)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED (Saturn_02 (02)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED (FQ889N-quadA (02.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889N-quadA (02.001)) 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. (F631N-M1K1C (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-M1K1C (02.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F336W-M1K1C (02.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F689M-M1K1C (02.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ906N-quadC (02.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ906N-quadC (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. (Saturn_02 (02)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																							
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(1)		SATURN	STD=SATURN			NOT ECL P PARTIAL OF SATURN BY TITAN FROM EARTH, SEP OF SATURN TITAN FROM EARTH GT 10"	EARTH																		
<b>Exposures</b>		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit														
		1	FQ889N-quadA	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG +14.35,-17.03; SAA CONTOUR 02	Sequence 1-6 Non-Int in Saturn_02 (02)	45 Secs (45 Secs) [==>]	[1]														
		2	F631N-M1K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F631N	CR-SPLIT=NO	SAA CONTOUR 02	Sequence 1-6 Non-Int in Saturn_02 (02)	15 Secs (15 Secs) [==>]	[1]														
		3	F547M-M1K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F547M	CR-SPLIT=NO	SAA CONTOUR 02	Sequence 1-6 Non-Int in Saturn_02 (02)	1.9 Secs (1.9 Secs) [==>]	[1]														
		4	F336W-M1K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F336W	CR-SPLIT=NO	SAA CONTOUR 02	Sequence 1-6 Non-Int in Saturn_02 (02)	30 Secs (30 Secs) [==>]	[1]														
		5	F689M-M1K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F689M	CR-SPLIT=NO	SAA CONTOUR 02	Sequence 1-6 Non-Int in Saturn_02 (02)	1.7 Secs (1.7 Secs) [==>]	[1]														
	6	FQ906N-quadC	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ906N	CR-SPLIT=NO	POS TARG +19.38,+21.11; SAA CONTOUR 02	Sequence 1-6 Non-Int in Saturn_02 (02)	30 Secs (30 Secs) [==>]	[1]															



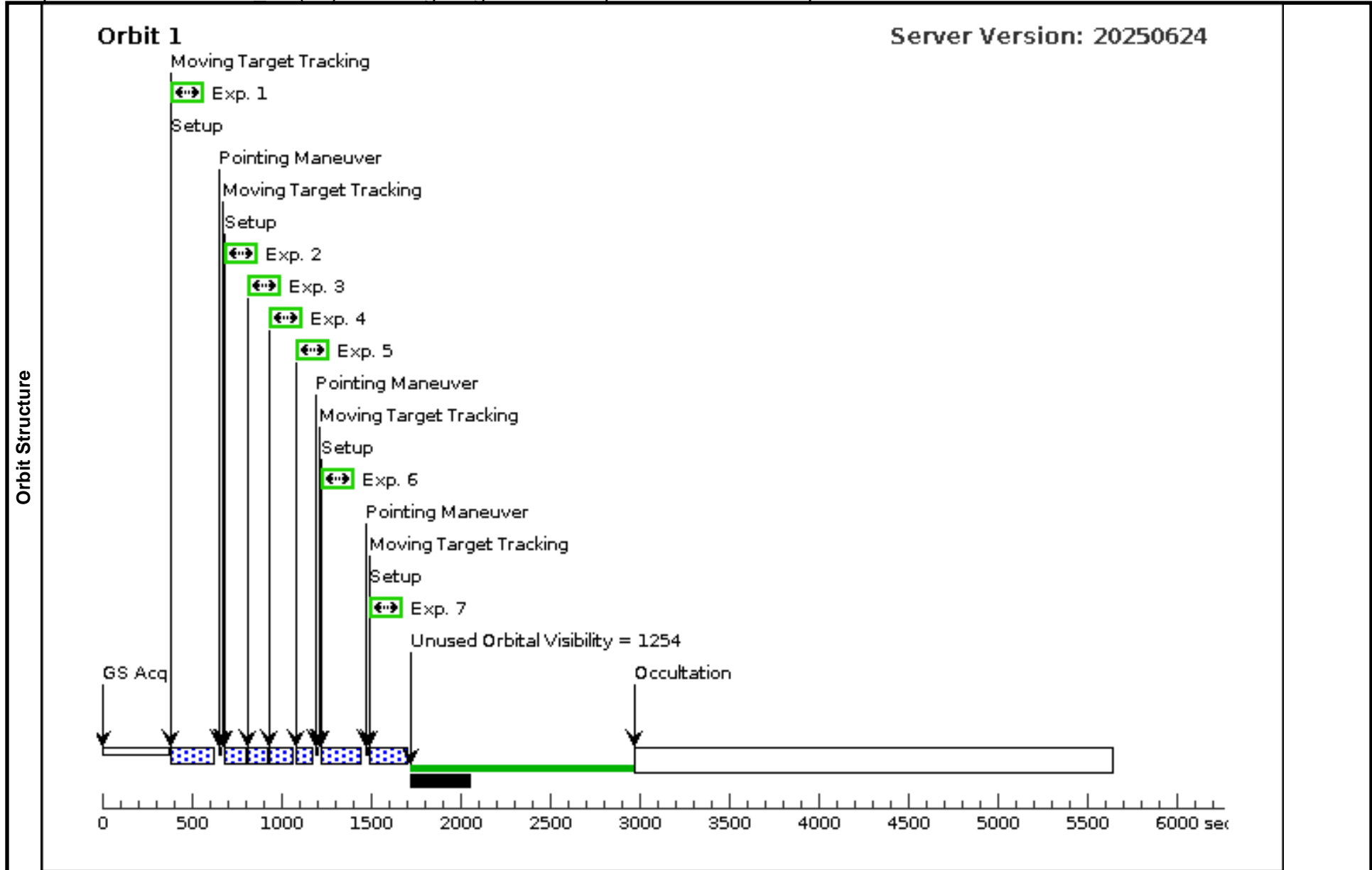
Proposal 18102 - Saturn\_03 (03) - Investigating Saturn's Equatorial Winds at Equinox

Thu Aug 28 02:00:24 GMT 2025

<b>Visit</b>	<p><b>Proposal 18102, Saturn_03 (03), implementation</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: AFTER 02 BY 3.9 Orbits TO 4.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET</p>																				
	<b>Diagnostics</b>	<p>(Saturn_03 (03)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED</p> <p>(Saturn_03 (03)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED</p> <p>(FQ889N-quadA (03.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ889N-quadA (03.001)) 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>(F631N-M1K1C (03.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F547M-M1K1C (03.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F336W-M1K1C (03.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F689M-M1K1C (03.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ906N-quadC (03.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ906N-quadC (03.006)) 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>(FQ937N-quadB (03.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ937N-quadB (03.007)) 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>(Saturn_03 (03)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>																			
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Proposal 18102 - Saturn 03 (03) - Investigating Saturn's Equatorial Winds at Equinox

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	FQ889N-qu adA	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG +14.35,- 17.03; SAA CONTOUR 02	Sequence 1-7 Non-Int in Saturn_03 (03)	45 Secs (45 Secs) [==>]	[1]
	2	F631N-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F631N	CR-SPLIT=NO	SAA CONTOUR 02	Sequence 1-7 Non-Int in Saturn_03 (03)	15 Secs (15 Secs) [==>]	[1]
	3	F547M-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F547M	CR-SPLIT=NO	SAA CONTOUR 02	Sequence 1-7 Non-Int in Saturn_03 (03)	1.9 Secs (1.9 Secs) [==>]	[1]
	4	F336W-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F336W	CR-SPLIT=NO	SAA CONTOUR 02	Sequence 1-7 Non-Int in Saturn_03 (03)	30 Secs (30 Secs) [==>]	[1]
	5	F689M-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F689M	CR-SPLIT=NO	SAA CONTOUR 02	Sequence 1-7 Non-Int in Saturn_03 (03)	1.7 Secs (1.7 Secs) [==>]	[1]
	6	FQ906N-qu adC	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ906N	CR-SPLIT=NO	POS TARG +19.38, +21.11; SAA CONTOUR 02	Sequence 1-7 Non-Int in Saturn_03 (03)	30 Secs (30 Secs) [==>]	[1]
	7	FQ937N-qu adB	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ937N	CR-SPLIT=NO	POS TARG -24.05,- 17.77; SAA CONTOUR 02	Sequence 1-7 Non-Int in Saturn_03 (03)	45 Secs (45 Secs) [==>]	[1]



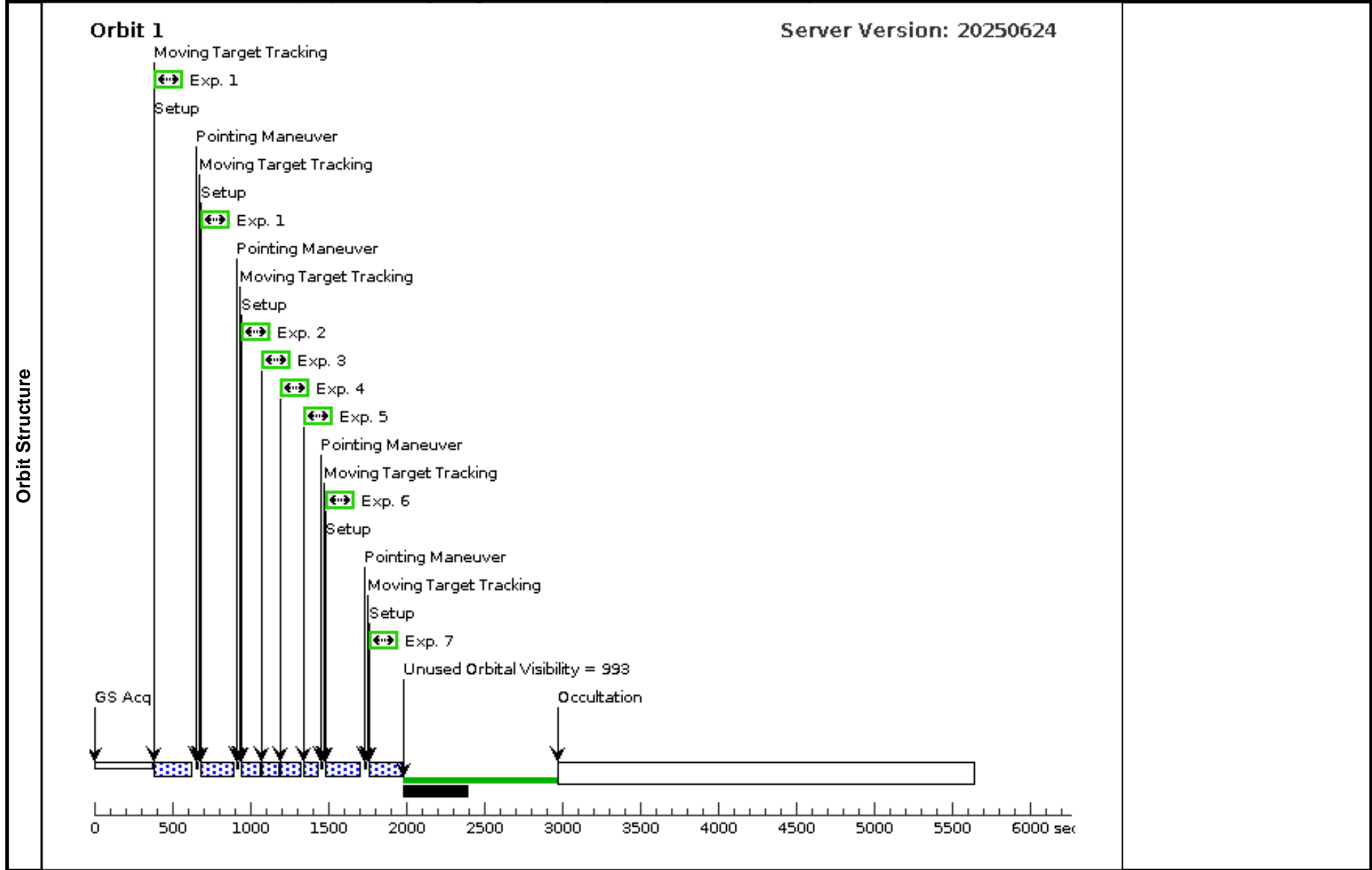
Proposal 18102 - Saturn\_04 (04) - Investigating Saturn's Equatorial Winds at Equinox

Thu Aug 28 02:00:24 GMT 2025

<b>Visit</b>	<b>Proposal 18102, Saturn_04 (04), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 03 BY 0.9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET					
	(Saturn_04 (04)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED (Saturn_04 (04)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED (FQ889N-quadA (04.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889N-quadA (04.001)) 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. (F631N-M1K1C (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-M1K1C (04.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F336W-M1K1C (04.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F689M-M1K1C (04.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ906N-quadC (04.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ906N-quadC (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. (FQ937N-quadB (04.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ937N-quadB (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. (Saturn_04 (04)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.					
<b>Diagnosics</b>						
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>		<b>Secondary Pattern</b>		<b>Exposures</b>
	(1)	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)
<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>
	(1)	SATURN	STD=SATURN			NOT ECL P PARTIAL OF SATURN BY TITAN FROM EARTH, SEP OF SATURN TITAN FROM EARTH GT 10"
Comments: Description=Saturn rotation maps						

Proposal 18102 - Saturn 04 (04) - Investigating Saturn's Equatorial Winds at Equinox

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	FQ889N-qu adA	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG +14.35,- 17.03; SAA CONTOUR 02	Sequence 1-7 Non-Int in Saturn_04 (04) Pattern 1, Exps 1-1 i n Sequence 1-7 Non- Int in Saturn_04 (04) (1)	45 Secs (90 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F631N-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F631N	CR-SPLIT=NO	SAA CONTOUR 02	Sequence 1-7 Non-Int in Saturn_04 (04)	15 Secs (15 Secs) [==>]	[1]
	3	F547M-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F547M	CR-SPLIT=NO	SAA CONTOUR 02	Sequence 1-7 Non-Int in Saturn_04 (04)	1.9 Secs (1.9 Secs) [==>]	[1]
	4	F336W-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F336W	CR-SPLIT=NO	SAA CONTOUR 02	Sequence 1-7 Non-Int in Saturn_04 (04)	30 Secs (30 Secs) [==>]	[1]
	5	F689M-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F689M	CR-SPLIT=NO	SAA CONTOUR 02	Sequence 1-7 Non-Int in Saturn_04 (04)	1.7 Secs (1.7 Secs) [==>]	[1]
	6	FQ906N-qu adC	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ906N	CR-SPLIT=NO	POS TARG +19.38, +21.11; SAA CONTOUR 02	Sequence 1-7 Non-Int in Saturn_04 (04)	30 Secs (30 Secs) [==>]	[1]
	7	FQ937N-qu adB	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ937N	CR-SPLIT=NO	POS TARG -24.05,- 17.77; SAA CONTOUR 02	Sequence 1-7 Non-Int in Saturn_04 (04)	45 Secs (45 Secs) [==>]	[1]



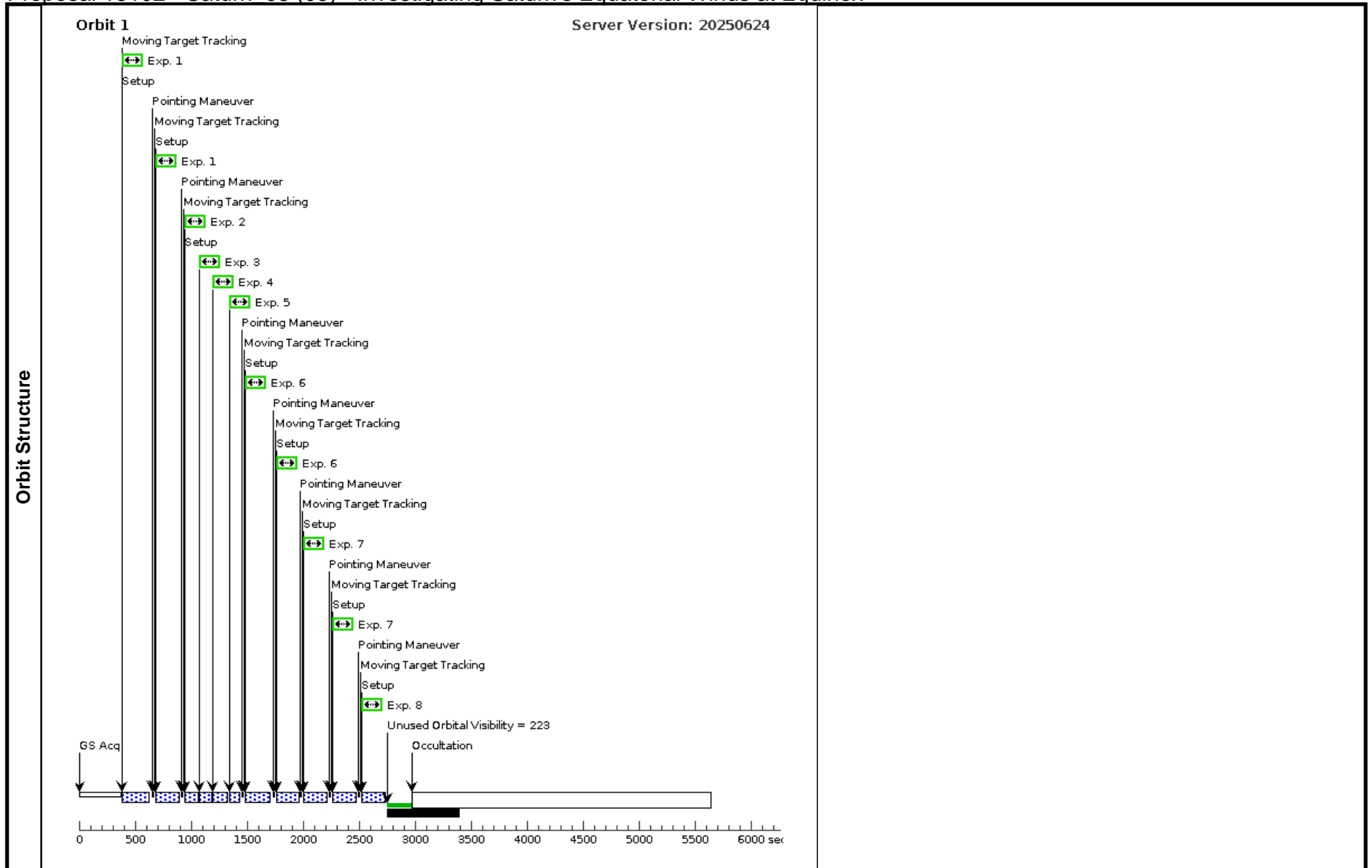
Proposal 18102 - Saturn 05 (05) - Investigating Saturn's Equatorial Winds at Equinox

Thu Aug 28 02:00:24 GMT 2025

<b>Visit</b>	<b>Proposal 18102, Saturn_05 (05), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 04 BY 0.9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET						
	<b>Diagnostics</b>	(Saturn_05 (05)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED (Saturn_05 (05)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED (FQ889N-quadA (05.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889N-quadA (05.001)) 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. (F631N-M1K1C (05.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M-M1K1C (05.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F336W-M1K1C (05.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F689M-M1K1C (05.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ906N-quadC (05.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ906N-quadC (05.006)) 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. (FQ937N-quadB (05.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ937N-quadB (05.007)) 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. (FQ727N-quadD (05.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N-quadD (05.008)) 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. (Saturn_05 (05)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.					
<b>Patterns</b>		#	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>		
	(1)	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), (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>
	(1)	SATURN	STD=SATURN				NOT ECL P PARTIAL OF SATURN BY TITAN FROM EARTH, SEP OF SATURN TITAN FROM EARTH GT 10"
<i>Comments: Description=Saturn rotation maps</i>							

Proposal 18102 - Saturn 05 (05) - Investigating Saturn's Equatorial Winds at Equinox

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	FQ889N-qu adA	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG +14.35,- 17.03; SAA CONTOUR 02	Sequence 1-8 Non-Int in Saturn_05 (05) Pattern 1, Exps 1-1 i n Sequence 1-8 Non- Int in Saturn_05 (05) (1)	45 Secs (90 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F631N-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F631N	CR-SPLIT=NO	SAA CONTOUR 02	Sequence 1-8 Non-Int in Saturn_05 (05)	15 Secs (15 Secs) [==>]	[1]
	3	F547M-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F547M	CR-SPLIT=NO	SAA CONTOUR 02	Sequence 1-8 Non-Int in Saturn_05 (05)	1.9 Secs (1.9 Secs) [==>]	[1]
	4	F336W-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F336W	CR-SPLIT=NO	SAA CONTOUR 02	Sequence 1-8 Non-Int in Saturn_05 (05)	30 Secs (30 Secs) [==>]	[1]
	5	F689M-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F689M	CR-SPLIT=NO	SAA CONTOUR 02	Sequence 1-8 Non-Int in Saturn_05 (05)	1.7 Secs (1.7 Secs) [==>]	[1]
	6	FQ906N-qu adC	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ906N	CR-SPLIT=NO	POS TARG +19.38, +21.11; SAA CONTOUR 02	Sequence 1-8 Non-Int in Saturn_05 (05) Pattern 1, Exps 6-6 i n Sequence 1-8 Non- Int in Saturn_05 (05) (1)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	7	FQ937N-qu adB	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ937N	CR-SPLIT=NO	POS TARG -24.05,- 17.77; SAA CONTOUR 02	Sequence 1-8 Non-Int in Saturn_05 (05) Pattern 1, Exps 7-7 i n Sequence 1-8 Non- Int in Saturn_05 (05) (1)	45 Secs (90 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	8	FQ727N-qu adD	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -19.45,+ 21.90; SAA CONTOUR 02	Sequence 1-8 Non-Int in Saturn_05 (05)	30 Secs (30 Secs) [==>]	[1]



Proposal 18102 - Saturn\_06 (06) - Investigating Saturn's Equatorial Winds at Equinox

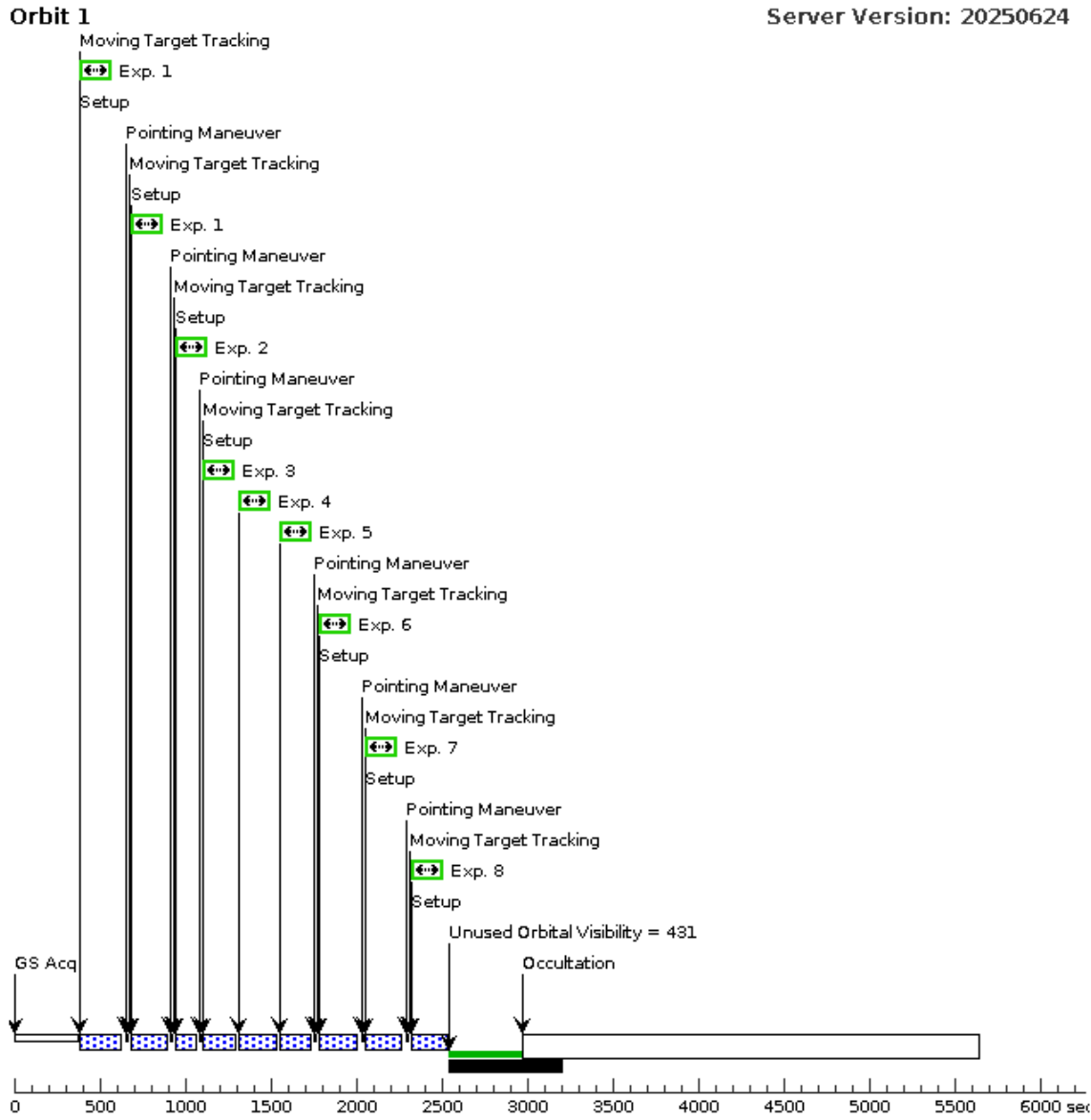
Thu Aug 28 02:00:24 GMT 2025

<b>Visit</b>	<p><b>Proposal 18102, Saturn_06 (06), implementation</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: AFTER 05 BY 0.9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET</p> <p><i>Comments: 2K2C (big enough to show the rings) for 3 filters that can do RGB. Requires taking out the dithered exposures (except one still fits). If going with an option that includes 750, then also delete the pattern off 889 and it should fit.</i></p>																	
	<p>(Saturn_06 (06)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED</p> <p>(Saturn_06 (06)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED</p> <p>(FQ889N-quadA (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>(FQ889N-quadA (06.001)) 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>(F631N-M1K1C (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-2K2C (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>(F336W-2K2C (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>(F689M-2K2C (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>(FQ906N-quadC (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>(FQ906N-quadC (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>(FQ937N-quadB (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>(FQ937N-quadB (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>(FQ727N-quadD (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> <p>(FQ727N-quadD (06.008)) 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>(Saturn_06 (06)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</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>(1)</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)</td> </tr> </tbody> </table>	#	Primary Pattern	Secondary Pattern	Exposures	(1)	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)									
	#	Primary Pattern	Secondary Pattern	Exposures														
(1)	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)															
<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>SATURN</td> <td>STD=SATURN</td> <td></td> <td></td> <td>NOT ECL P PARTIAL OF SATURN BY TITAN FROM EARTH, SEP OF SATURN TITAN FROM EARTH GT 10"</td> <td>EARTH</td> </tr> </tbody> </table>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center	(1)	SATURN	STD=SATURN			NOT ECL P PARTIAL OF SATURN BY TITAN FROM EARTH, SEP OF SATURN TITAN FROM EARTH GT 10"	EARTH			
	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center											
(1)	SATURN	STD=SATURN			NOT ECL P PARTIAL OF SATURN BY TITAN FROM EARTH, SEP OF SATURN TITAN FROM EARTH GT 10"	EARTH												
<p><i>Comments: Description=Saturn rotation maps</i></p>																		

Proposal 18102 - Saturn 06 (06) - Investigating Saturn's Equatorial Winds at Equinox

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	FQ889N-qu adA	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG +14.35,- 17.03	Sequence 1-8 Non-Int in Saturn_06 (06)	45 Secs (90 Secs)	
								Pattern 1, Exps 1-1 i n Sequence 1-8 Non- Int in Saturn_06 (06) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F631N-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F631N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Saturn_06 (06)	15 Secs (15 Secs)	
									[==>]	[1]
	3	F547M-2K2 C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Saturn_06 (06)	1.9 Secs (1.9 Secs)	
									[==>]	[1]
	4	F336W-2K2 C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F336W	CR-SPLIT=NO		Sequence 1-8 Non-Int in Saturn_06 (06)	30 Secs (30 Secs)	
									[==>]	[1]
5	F689M-2K2 C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F689M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Saturn_06 (06)	1.7 Secs (1.7 Secs)		
								[==>]	[1]	
6	FQ906N-qu adC	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ906N	CR-SPLIT=NO	POS TARG +19.38, +21.11	Sequence 1-8 Non-Int in Saturn_06 (06)	30 Secs (30 Secs)		
								[==>]	[1]	
7	FQ937N-qu adB	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ937N	CR-SPLIT=NO	POS TARG -24.05,- 17.77	Sequence 1-8 Non-Int in Saturn_06 (06)	45 Secs (45 Secs)		
								[==>]	[1]	
8	FQ727N-qu adD	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -19.45,+ 21.90	Sequence 1-8 Non-Int in Saturn_06 (06)	30 Secs (30 Secs)		
								[==>]	[1]	

Orbit Structure



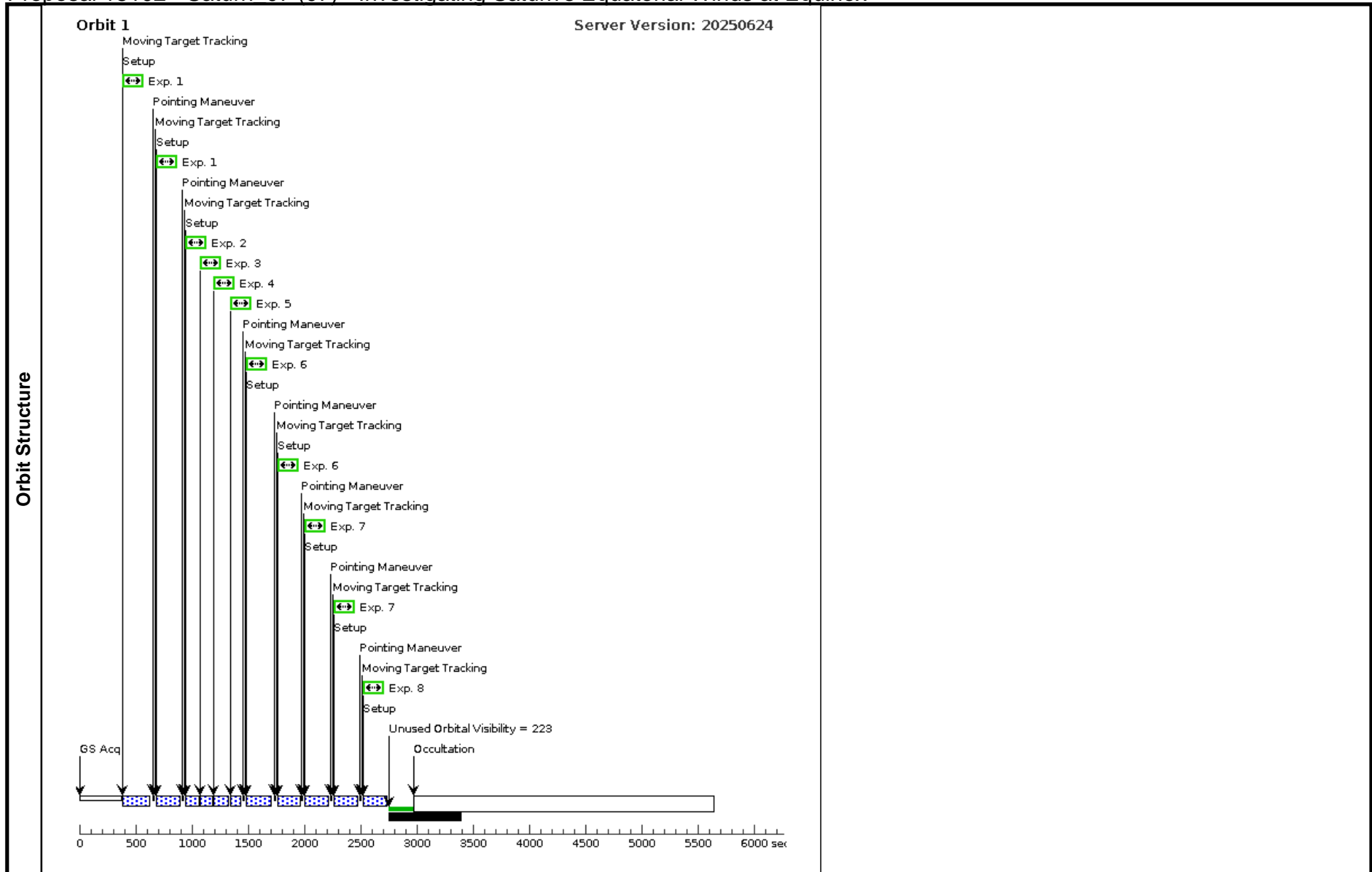
Proposal 18102 - Saturn 07 (07) - Investigating Saturn's Equatorial Winds at Equinox

Thu Aug 28 02:00:24 GMT 2025

<b>Visit</b>	<b>Proposal 18102, Saturn_07 (07), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 06 BY 2.9 Orbits TO 3.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET						
	<b>Diagnostics</b>	(Saturn_07 (07)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED (Saturn_07 (07)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED (FQ889N-quadA (07.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889N-quadA (07.001)) 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. (F631N-M1K1C (07.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M-M1K1C (07.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F336W-M1K1C (07.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F689M-M1K1C (07.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ906N-quadC (07.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ906N-quadC (07.006)) 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. (FQ937N-quadB (07.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ937N-quadB (07.007)) 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. (FQ727N-quadD (07.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N-quadD (07.008)) 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. (Saturn 07 (07)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.					
<b>Patterns</b>		#	<b>Primary Pattern</b>		<b>Secondary Pattern</b>		<b>Exposures</b>
	(1)	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), (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>
	(1)	SATURN	STD=SATURN			NOT ECL P PARTIAL OF SATURN BY TITAN FROM EARTH, SEP OF SATURN TITAN FROM EARTH GT 10"	EARTH
Comments: Description=Saturn rotation maps							

Proposal 18102 - Saturn 07 (07) - Investigating Saturn's Equatorial Winds at Equinox

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	FQ889N-qu adA	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG +14.35,- 17.03	Sequence 1-8 Non-Int in Saturn_07 (07)  Pattern 1, Exps 1-1 i n Sequence 1-8 Non- Int in Saturn_07 (07) (1)	45 Secs (90 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F631N-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F631N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Saturn_07 (07)	15 Secs (15 Secs) [==>]	[1]
	3	F547M-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F547M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Saturn_07 (07)	1.9 Secs (1.9 Secs) [==>]	[1]
	4	F336W-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F336W	CR-SPLIT=NO		Sequence 1-8 Non-Int in Saturn_07 (07)	30 Secs (30 Secs) [==>]	[1]
	5	F689M-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F689M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Saturn_07 (07)	1.7 Secs (1.7 Secs) [==>]	[1]
	6	FQ906N-qu adC	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ906N	CR-SPLIT=NO	POS TARG +19.38, +21.11	Sequence 1-8 Non-Int in Saturn_07 (07)  Pattern 1, Exps 6-6 i n Sequence 1-8 Non- Int in Saturn_07 (07) (1)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	7	FQ937N-qu adB	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ937N	CR-SPLIT=NO	POS TARG -24.05,- 17.77	Sequence 1-8 Non-Int in Saturn_07 (07)  Pattern 1, Exps 7-7 i n Sequence 1-8 Non- Int in Saturn_07 (07) (1)	45 Secs (90 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	8	FQ727N-qu adD	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -19.45,+ 21.90	Sequence 1-8 Non-Int in Saturn_07 (07)	30 Secs (30 Secs) [==>]	[1]



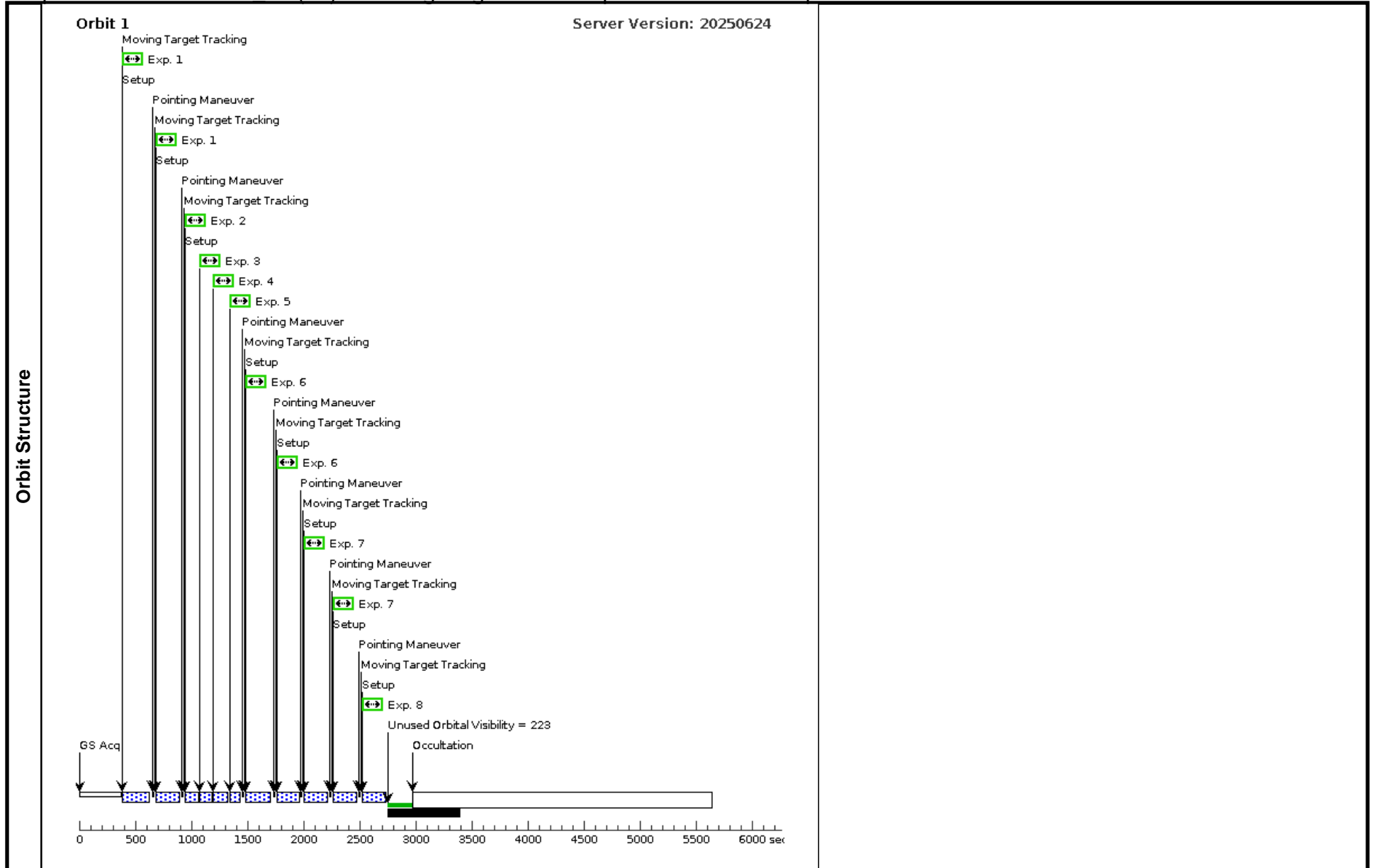
Proposal 18102 - Saturn 08 (08) - Investigating Saturn's Equatorial Winds at Equinox

Thu Aug 28 02:00:24 GMT 2025

<b>Visit</b>	<b>Proposal 18102, Saturn_08 (08), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 07 BY 0.9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET																	
	(Saturn_08 (08)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED (Saturn_08 (08)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED (FQ889N-quadA (08.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889N-quadA (08.001)) 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. (F631N-M1K1C (08.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M-M1K1C (08.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F336W-M1K1C (08.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F689M-M1K1C (08.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ906N-quadC (08.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ906N-quadC (08.006)) 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. (FQ937N-quadB (08.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ937N-quadB (08.007)) 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. (FQ727N-quadD (08.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N-quadD (08.008)) 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. (Saturn_08 (08)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.																	
<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>(1)</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), (6), (7)</td> </tr> </tbody> </table>	#	Primary Pattern	Secondary Pattern	Exposures	(1)	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), (6), (7)									
	#	Primary Pattern	Secondary Pattern	Exposures														
(1)	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), (6), (7)															
<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>SATURN</td> <td>STD=</td> <td>SATURN</td> <td></td> <td>NOT ECL P PARTIAL OF SATURN BY TITAN FROM EARTH, SEP OF SATURN TITAN FROM EARTH GT 10"</td> <td>EARTH</td> </tr> </tbody> </table>	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center	(1)	SATURN	STD=	SATURN		NOT ECL P PARTIAL OF SATURN BY TITAN FROM EARTH, SEP OF SATURN TITAN FROM EARTH GT 10"	EARTH			
	#	Name	Level 1	Level 2	Level 3	Window	Ephem Center											
(1)	SATURN	STD=	SATURN		NOT ECL P PARTIAL OF SATURN BY TITAN FROM EARTH, SEP OF SATURN TITAN FROM EARTH GT 10"	EARTH												
Comments: Description=Saturn rotation maps																		

Proposal 18102 - Saturn 08 (08) - Investigating Saturn's Equatorial Winds at Equinox

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	FQ889N-qu adA	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG +14.35,- 17.03	Sequence 1-8 Non-Int in Saturn_08 (08)  Pattern 1, Exps 1-1 i n Sequence 1-8 Non- Int in Saturn_08 (08) (1)	45 Secs (90 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F631N-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F631N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Saturn_08 (08)	15 Secs (15 Secs) [==>]	[1]
	3	F547M-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F547M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Saturn_08 (08)	1.9 Secs (1.9 Secs) [==>]	[1]
	4	F336W-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F336W	CR-SPLIT=NO		Sequence 1-8 Non-Int in Saturn_08 (08)	30 Secs (30 Secs) [==>]	[1]
	5	F689M-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F689M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Saturn_08 (08)	1.7 Secs (1.7 Secs) [==>]	[1]
	6	FQ906N-qu adC	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ906N	CR-SPLIT=NO	POS TARG +19.38, +21.11	Sequence 1-8 Non-Int in Saturn_08 (08)  Pattern 1, Exps 6-6 i n Sequence 1-8 Non- Int in Saturn_08 (08) (1)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	7	FQ937N-qu adB	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ937N	CR-SPLIT=NO	POS TARG -24.05,- 17.77	Sequence 1-8 Non-Int in Saturn_08 (08)  Pattern 1, Exps 7-7 i n Sequence 1-8 Non- Int in Saturn_08 (08) (1)	45 Secs (90 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	8	FQ727N-qu adD	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -19.45,+ 21.90	Sequence 1-8 Non-Int in Saturn_08 (08)	30 Secs (30 Secs) [==>]	[1]



Proposal 18102 - Saturn 09 (09) - Investigating Saturn's Equatorial Winds at Equinox

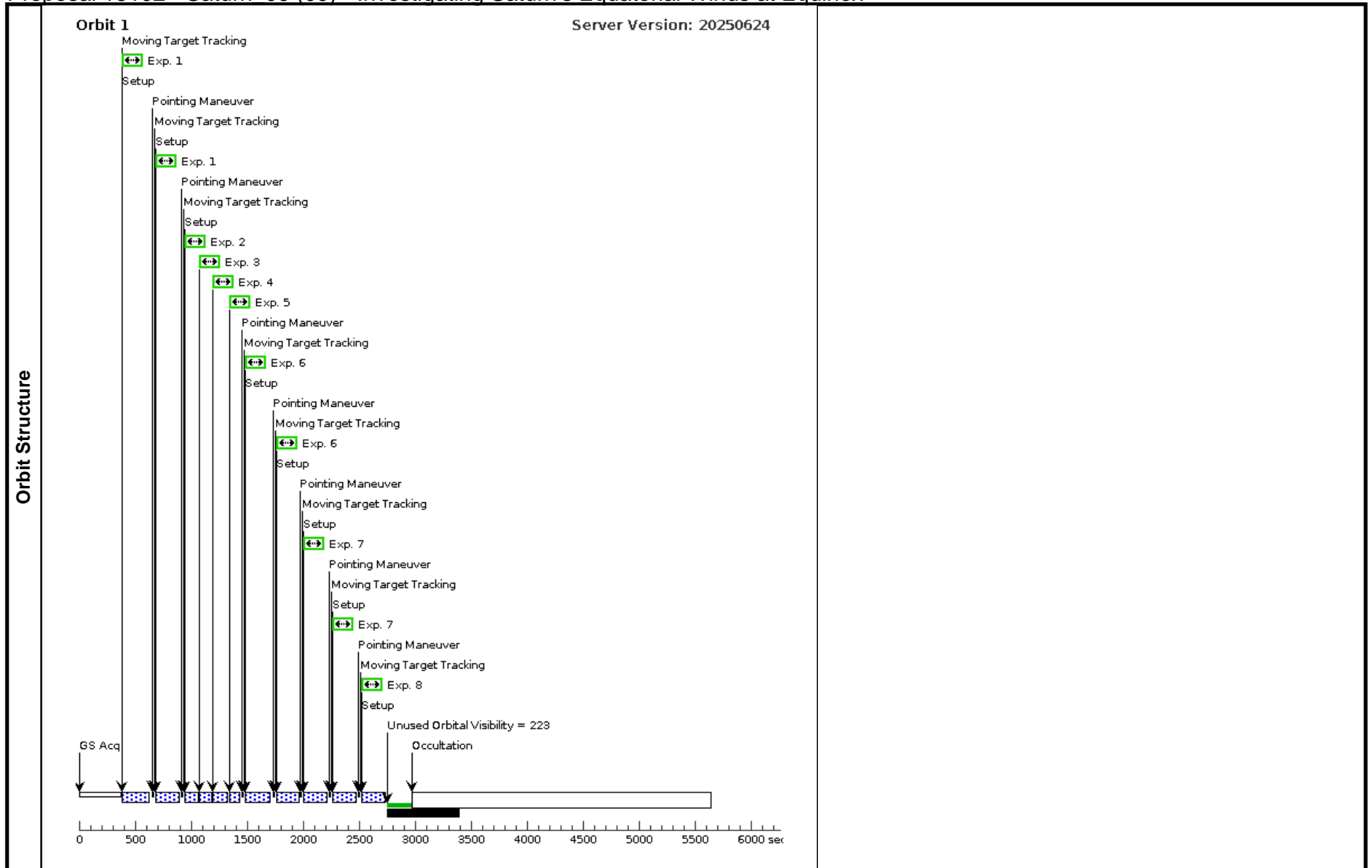
Thu Aug 28 02:00:24 GMT 2025

<b>Visit</b>	<b>Proposal 18102, Saturn_09 (09), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 08 BY 0.9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET						
	(Saturn_09 (09)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED (Saturn_09 (09)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED (FQ889N-quadA (09.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889N-quadA (09.001)) 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. (F631N-M1K1C (09.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M-M1K1C (09.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F336W-M1K1C (09.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F689M-M1K1C (09.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ906N-quadC (09.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ906N-quadC (09.006)) 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. (FQ937N-quadB (09.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ937N-quadB (09.007)) 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. (FQ727N-quadD (09.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N-quadD (09.008)) 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. (Saturn_09 (09)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.						
<b>Diagnosics</b>							
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>		<b>Secondary Pattern</b>		<b>Exposures</b>	
	(1)	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), (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>
	(1)	SATURN	STD=SATURN			NOT ECL P PARTIAL OF SATURN BY TITAN FROM EARTH, SEP OF SATURN TITAN FROM EARTH GT 10"	EARTH
Comments: Description=Saturn rotation maps							

Proposal 18102 - Saturn 09 (09) - Investigating Saturn's Equatorial Winds at Equinox

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	FQ889N-qu adA	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG +14.35,- 17.03	Sequence 1-8 Non-Int in Saturn_09 (09)  Pattern 1, Exps 1-1 i n Sequence 1-8 Non- Int in Saturn_09 (09) (1)	45 Secs (90 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F631N-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F631N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Saturn_09 (09)	15 Secs (15 Secs) [==>]	[1]
	3	F547M-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F547M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Saturn_09 (09)	1.9 Secs (1.9 Secs) [==>]	[1]
	4	F336W-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F336W	CR-SPLIT=NO		Sequence 1-8 Non-Int in Saturn_09 (09)	30 Secs (30 Secs) [==>]	[1]
	5	F689M-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F689M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Saturn_09 (09)	1.7 Secs (1.7 Secs) [==>]	[1]
	6	FQ906N-qu adC	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ906N	CR-SPLIT=NO	POS TARG +19.38, +21.11	Sequence 1-8 Non-Int in Saturn_09 (09)  Pattern 1, Exps 6-6 i n Sequence 1-8 Non- Int in Saturn_09 (09) (1)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	7	FQ937N-qu adB	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ937N	CR-SPLIT=NO	POS TARG -24.05,- 17.77	Sequence 1-8 Non-Int in Saturn_09 (09)  Pattern 1, Exps 7-7 i n Sequence 1-8 Non- Int in Saturn_09 (09) (1)	45 Secs (90 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	8	FQ727N-qu adD	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -19.45,+ 21.90	Sequence 1-8 Non-Int in Saturn_09 (09)	30 Secs (30 Secs) [==>]	[1]

Proposal 18102 - Saturn 09 (09) - Investigating Saturn's Equatorial Winds at Equinox



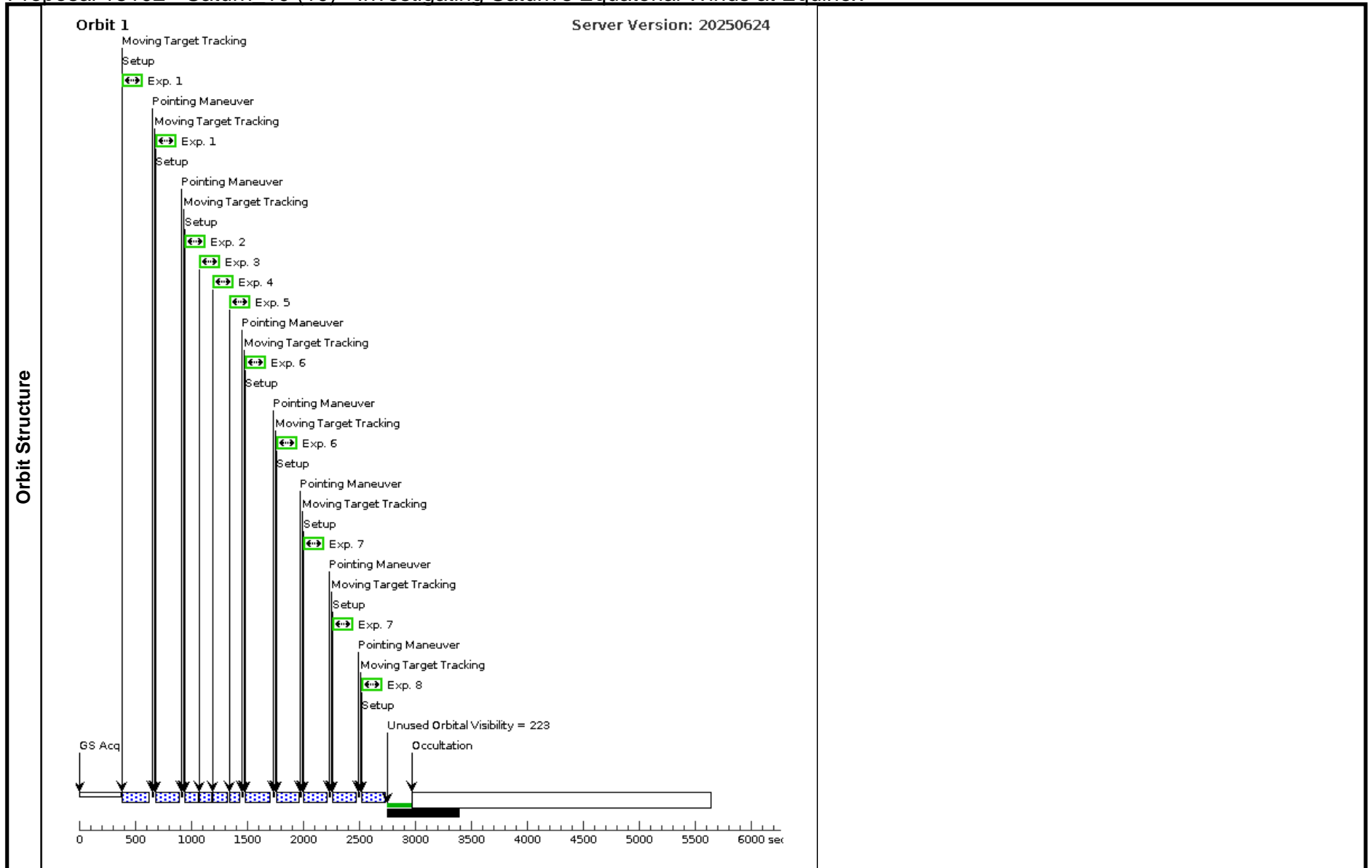
Proposal 18102 - Saturn 10 (10) - Investigating Saturn's Equatorial Winds at Equinox

Thu Aug 28 02:00:24 GMT 2025

<b>Visit</b>	<b>Proposal 18102, Saturn_10 (10), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 09 BY 0.9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET						
	(Saturn_10 (10)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED (Saturn_10 (10)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED (FQ889N-quadA (10.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889N-quadA (10.001)) 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. (F631N-M1K1C (10.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M-M1K1C (10.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F336W-M1K1C (10.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F689M-M1K1C (10.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ906N-quadC (10.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ906N-quadC (10.006)) 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. (FQ937N-quadB (10.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ937N-quadB (10.007)) 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. (FQ727N-quadD (10.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N-quadD (10.008)) 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. (Saturn_10 (10)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.						
<b>Diagnostics</b>							
<b>Patterns</b>	#	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>			
	(1)	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), (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>
	(1)	SATURN	STD=SATURN				NOT ECL P PARTIAL OF SATURN BY TITAN FROM EARTH, SEP OF SATURN TITAN FROM EARTH GT 10"
Comments: Description=Saturn rotation maps							

Proposal 18102 - Saturn 10 (10) - Investigating Saturn's Equatorial Winds at Equinox

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	FQ889N-qu adA	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG +14.35,- 17.03; SAA CONTOUR 02	Sequence 1-8 Non-Int in Saturn_10 (10) Pattern 1, Exps 1-1 i n Sequence 1-8 Non- Int in Saturn_10 (10) (1)	45 Secs (90 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F631N-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F631N	CR-SPLIT=NO	SAA CONTOUR 02	Sequence 1-8 Non-Int in Saturn_10 (10)	15 Secs (15 Secs) [==>]	[1]
	3	F547M-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F547M	CR-SPLIT=NO	SAA CONTOUR 02	Sequence 1-8 Non-Int in Saturn_10 (10)	1.9 Secs (1.9 Secs) [==>]	[1]
	4	F336W-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F336W	CR-SPLIT=NO	SAA CONTOUR 02	Sequence 1-8 Non-Int in Saturn_10 (10)	30 Secs (30 Secs) [==>]	[1]
	5	F689M-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F689M	CR-SPLIT=NO	SAA CONTOUR 02	Sequence 1-8 Non-Int in Saturn_10 (10)	1.7 Secs (1.7 Secs) [==>]	[1]
	6	FQ906N-qu adC	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ906N	CR-SPLIT=NO	POS TARG +19.38, +21.11; SAA CONTOUR 02	Sequence 1-8 Non-Int in Saturn_10 (10) Pattern 1, Exps 6-6 i n Sequence 1-8 Non- Int in Saturn_10 (10) (1)	30 Secs (60 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	7	FQ937N-qu adB	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ937N	CR-SPLIT=NO	POS TARG -24.05,- 17.77; SAA CONTOUR 02	Sequence 1-8 Non-Int in Saturn_10 (10) Pattern 1, Exps 7-7 i n Sequence 1-8 Non- Int in Saturn_10 (10) (1)	45 Secs (90 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	8	FQ727N-qu adD	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -19.45,+ 21.90; SAA CONTOUR 02	Sequence 1-8 Non-Int in Saturn_10 (10)	30 Secs (30 Secs) [==>]	[1]



Proposal 18102 - Saturn\_11 (11) - Investigating Saturn's Equatorial Winds at Equinox

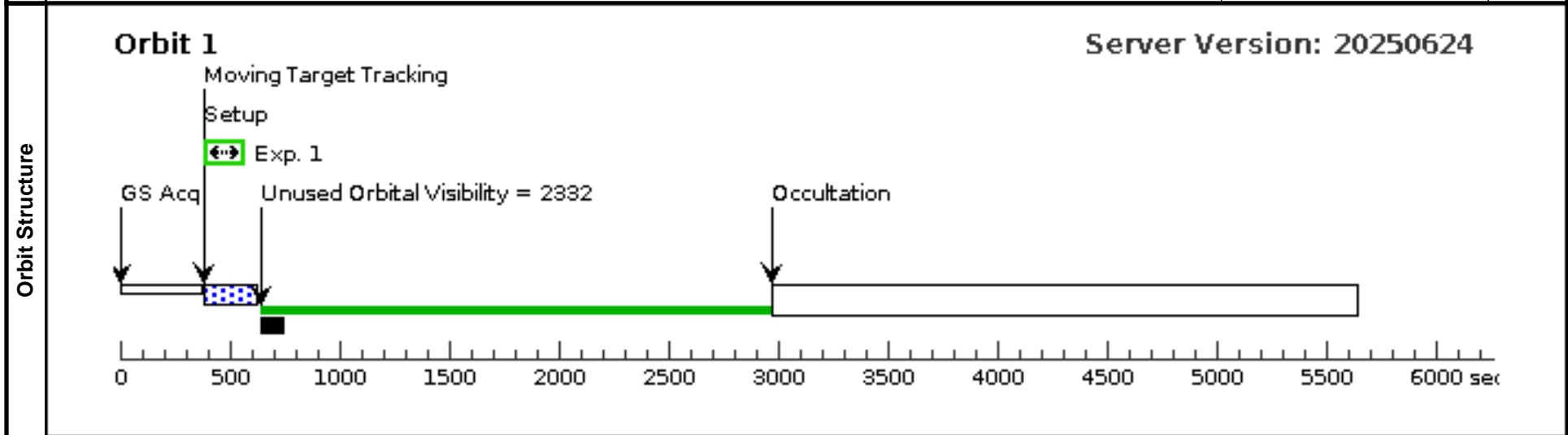
Thu Aug 28 02:00:25 GMT 2025

<b>Visit</b>	<b>Proposal 18102, Saturn_11 (11), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 10 BY 3.9 Orbits TO 4.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET
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<b>Diagnostics</b>	(FQ889N-quadA (11.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ889N-quadA (11.001)) 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. (Saturn_11 (11)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.
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Proposal 18102 - Saturn 12 (12) - Investigating Saturn's Equatorial Winds at Equinox

Thu Aug 28 02:00:25 GMT 2025

<b>Visit</b>	<p><b>Proposal 18102, Saturn_12 (12), implementation</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: AFTER 11 BY 0.9 Orbits TO 1.1 Orbits; VISIBILITY INTERVAL NO GYRO BIAS UPDATE ON MOVING TARGET</p> <p><i>Comments: 2K2C (big enough to show the rings) for 3 filters that can do RGB. Requires taking out the dithered exposures (except one still fits). If going with an option that includes 750, then also delete the pattern off 889 and it should fit.</i></p>																
	<b>Diagnostics</b>	<p>(Saturn_12 (12)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED</p> <p>(Saturn_12 (12)) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED</p> <p>(FQ889N-quadA (12.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ889N-quadA (12.001)) 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>(F631N-M1K1C (12.002)) 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-2K2C (12.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F336W-2K2C (12.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(F689M-2K2C (12.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ906N-quadC (12.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ906N-quadC (12.006)) 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>(FQ937N-quadB (12.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(FQ937N-quadB (12.007)) 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>(Saturn_12 (12)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.</p>															
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Proposal 18102 - Saturn 12 (12) - Investigating Saturn's Equatorial Winds at Equinox

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	FQ889N-qu adA	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG +14.35,- 17.03; SAA CONTOUR 02	Sequence 1-7 Non-Int in Saturn_12 (12) Pattern 1, Exps 1-1 i n Sequence 1-7 Non- Int in Saturn_12 (12) (1)	45 Secs (90 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F631N-M1 K1C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F631N	CR-SPLIT=NO	SAA CONTOUR 02	Sequence 1-7 Non-Int in Saturn_12 (12)	15 Secs (15 Secs) [==>]	[1]
	3	F547M-2K2 C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F547M	CR-SPLIT=NO	SAA CONTOUR 02	Sequence 1-7 Non-Int in Saturn_12 (12)	1.9 Secs (1.9 Secs) [==>]	[1]
	4	F336W-2K2 C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F336W	CR-SPLIT=NO	SAA CONTOUR 02	Sequence 1-7 Non-Int in Saturn_12 (12)	30 Secs (30 Secs) [==>]	[1]
	5	F689M-2K2 C	(1) SATURN	WFC3/UVIS, ACCUM, UVIS2-2K2C-SUB	F689M	CR-SPLIT=NO	SAA CONTOUR 02	Sequence 1-7 Non-Int in Saturn_12 (12)	1.7 Secs (1.7 Secs) [==>]	[1]
	6	FQ906N-qu adC	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ906N	CR-SPLIT=NO	POS TARG +19.38, +21.11; SAA CONTOUR 02	Sequence 1-7 Non-Int in Saturn_12 (12)	30 Secs (30 Secs) [==>]	[1]
	7	FQ937N-qu adB	(1) SATURN	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ937N	CR-SPLIT=NO	POS TARG -24.05,- 17.77; SAA CONTOUR 02	Sequence 1-7 Non-Int in Saturn_12 (12)	45 Secs (45 Secs) [==>]	[1]

