



## 14064 - A New Disturbance in Saturn's North Sub-Polar Region

Cycle: 22, Proposal Category: GO/DD

(Availability Mode: AVAILABLE)

### INVESTIGATORS

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### VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) SATURN+63N-FEATURE	WFC3/UVIS	1	18-Jun-2015 21:15:08.0	yes
02	(1) SATURN+63N-FEATURE	WFC3/UVIS	1	18-Jun-2015 21:15:13.0	yes
03	(1) SATURN+63N-FEATURE	WFC3/UVIS	1	18-Jun-2015 21:15:17.0	yes

3 Total Orbits Used

### ABSTRACT

We ask for 3 orbits of DD to urgently observe Saturn's atmosphere due to the development of a rare large disturbance that is occurring in the sub-polar region of the planet. It has been initially observed by amateurs astronomers in mid-May and Cassini can observe it but under poor conditions of

visibility due to its current and next month orbital path. This disturbance can give important clues to understand the dynamics of Saturn's tropospheric weather layer.

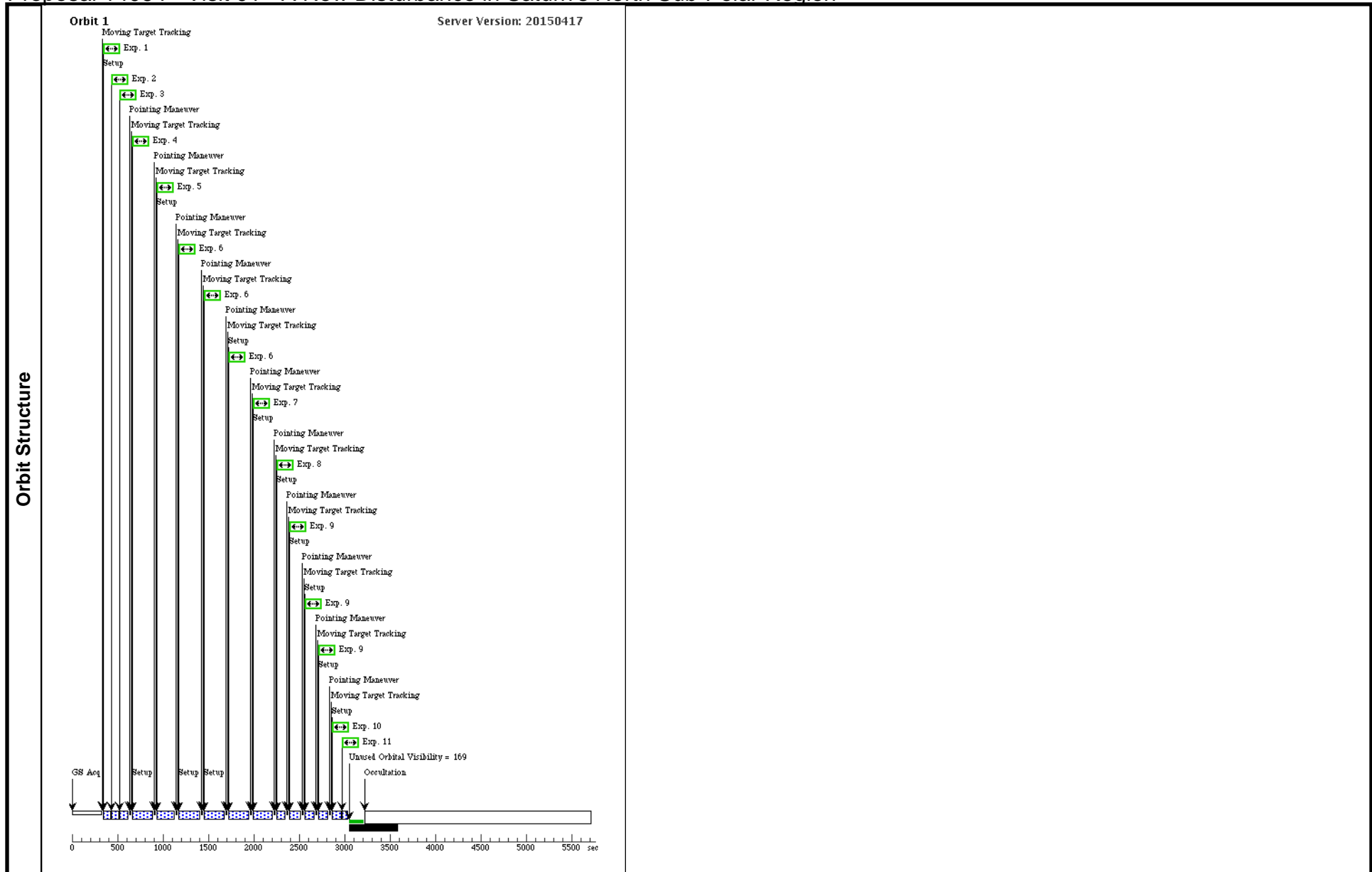
Proposal 14064 - Visit 01 - A New Disturbance in Saturn's North Sub-Polar Region

<b>Visit</b>	<b>Proposal 14064, Visit 01, implementation</b> <span style="float: right;">Fri Jun 19 01:15:19 GMT 2015</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 29-JUN-2015:22:41 AND 29-JUN-2015:23:08																		
	<b>Diagnosics</b> (FQ727N-D (01.004)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ750N-B (01.005)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ889N-A (01.006)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ889N-A (01.006) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes (FQ937N-B (01.007)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.																		
<b>Patterns</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">#</th> <th style="width: 40%;">Primary Pattern</th> <th style="width: 40%;">Secondary Pattern</th> <th style="width: 15%;">Exposures</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>                     Pattern Type=WFC3-UVIS-DITHER-                      LINE-3PT                      Purpose=DITHER                      Number Of Points=3                      Point Spacing=0.135                      Line Spacing=                      Coordinate Frame=POS-TARG                      Pattern Orientation=46.84                      Angle Between Sides=                      Center Pattern=true                 </td> <td></td> <td>(6), (9)</td> </tr> </tbody> </table>						#	Primary Pattern	Secondary Pattern	Exposures	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=true		(6), (9)					
	#	Primary Pattern	Secondary Pattern	Exposures															
(1)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=true		(6), (9)																
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#	Name	Level 1	Level 2	Level 3	Window	Ephem Center													
(1)	SATURN+63N-FEATURE	STD=SATURN			SEP OF SATURN+63N-FEATURE RHEA FROM EARTH GT 10", SEP OF SATURN+63N-FEATURE TITAN FROM EARTH GT 10"	EARTH													
<b>Solar System Targets</b>																			

Proposal 14064 - Visit 01 - A New Disturbance in Saturn's North Sub-Polar Region

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F689M-C	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F689M	CR-SPLIT=NO; BLADE=A		Sequence 1-11 Non-Int in Visit 01	1.7 Secs (1.7 Secs) [==>]	[1]
	2	F547M-C	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F547M	CR-SPLIT=NO; BLADE=A		Sequence 1-11 Non-Int in Visit 01	1.9 Secs (1.9 Secs) [==>]	[1]
	3	F410M-C	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F410M	CR-SPLIT=NO		Sequence 1-11 Non-Int in Visit 01	20 Secs (20 Secs) [==>]	[1]
	4	FQ727N-D	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -12,+12	Sequence 1-11 Non-Int in Visit 01	40 Secs (40 Secs) [==>]	[1]
	5	FQ750N-B	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ750N	CR-SPLIT=NO	POS TARG -12,-12	Sequence 1-11 Non-Int in Visit 01	20 Secs (20 Secs) [==>]	[1]
	6	FQ889N-A	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG +12,-12	Sequence 1-11 Non-Int in Visit 01 Pattern 1, Exps 6-6 i n Sequence 1-11 No n-Int in Visit 01 (1)	55 Secs (165 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	7	FQ937N-B	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ937N	CR-SPLIT=NO	POS TARG -12,-12	Sequence 1-11 Non-Int in Visit 01	45 Secs (45 Secs) [==>]	[1]
	8	F502N-C	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F502N	CR-SPLIT=NO		Sequence 1-11 Non-Int in Visit 01	23 Secs (23 Secs) [==>]	[1]
	9	F225W-C	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F225W	CR-SPLIT=NO		Sequence 1-11 Non-Int in Visit 01 Pattern 1, Exps 9-9 i n Sequence 1-11 No n-Int in Visit 01 (1)	55 Secs (165 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	10	F336W-C	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F336W	CR-SPLIT=NO		Sequence 1-11 Non-Int in Visit 01	30 Secs (30 Secs) [==>]	[1]
11	F689M-C	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F689M	CR-SPLIT=NO; BLADE=A		Sequence 1-11 Non-Int in Visit 01	1.7 Secs (1.7 Secs) [==>]	[1]	

# Proposal 14064 - Visit 01 - A New Disturbance in Saturn's North Sub-Polar Region



Proposal 14064 - Visit 02 - A New Disturbance in Saturn's North Sub-Polar Region

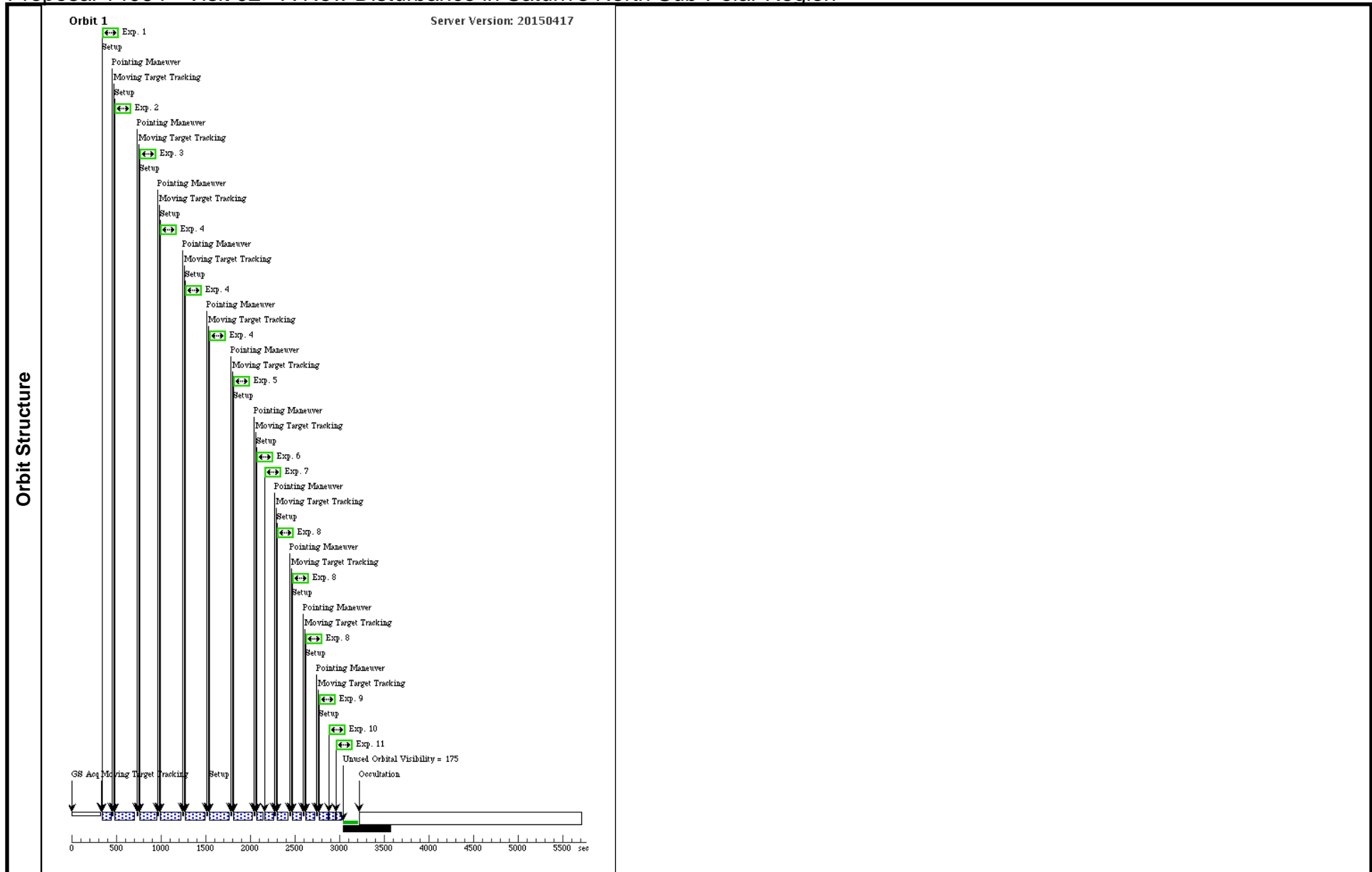
Fri Jun 19 01:15:20 GMT 2015

<b>Visit</b>	<b>Proposal 14064, Visit 02, implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 30-JUN-2015:19:20:00 AND 30-JUN-2015:19:50:00																		
	<b>Diagnosics</b> (FQ727N-D (02.002)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ750N-B (02.003)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ889N-A (02.004)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ889N-A (02.004) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes (FQ937N-B (02.005)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.																		
<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-3PT                      Purpose=DITHER                      Number Of Points=3                      Point Spacing=0.135                      Line Spacing=                      Coordinate Frame=POS-TARG                      Pattern Orientation=46.84                      Angle Between Sides=                      Center Pattern=true                 </td> <td></td> <td>(4), (8)</td> </tr> </tbody> </table>						#	Primary Pattern	Secondary Pattern	Exposures	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=true		(4), (8)					
	#	Primary Pattern	Secondary Pattern	Exposures															
(1)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=true		(4), (8)																
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#	Name	Level 1	Level 2	Level 3	Window	Ephem Center													
(1)	SATURN+63N-FEATURE	STD=SATURN			SEP OF SATURN+63N-FEATURE RHEA FROM EARTH GT 10", SEP OF SATURN+63N-FEATURE TITAN FROM EARTH GT 10"	EARTH													
<b>Solar System Targets</b>																			

Proposal 14064 - Visit 02 - A New Disturbance in Saturn's North Sub-Polar Region

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F410M-C	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F410M	CR-SPLIT=NO		Sequence 1-11 Non-Int in Visit 02	20 Secs (20 Secs) [==>]	[1]
	2	FQ727N-D	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -12,+12	Sequence 1-11 Non-Int in Visit 02	40 Secs (40 Secs) [==>]	[1]
	3	FQ750N-B	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ750N	CR-SPLIT=NO	POS TARG -12,-12	Sequence 1-11 Non-Int in Visit 02	20 Secs (20 Secs) [==>]	[1]
	4	FQ889N-A	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG +12,-12	Sequence 1-11 Non-Int in Visit 02 Pattern 1, Exps 4-4 i n Sequence 1-11 No n-Int in Visit 02 (1)	55 Secs (165 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	5	FQ937N-B	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ937N	CR-SPLIT=NO	POS TARG -12,-12	Sequence 1-11 Non-Int in Visit 02	45 Secs (45 Secs) [==>]	[1]
	6	F689M-C	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F689M	CR-SPLIT=NO; BLADE=A		Sequence 1-11 Non-Int in Visit 02	1.7 Secs (1.7 Secs) [==>]	[1]
	7	F502N-C	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F502N	CR-SPLIT=NO		Sequence 1-11 Non-Int in Visit 02	23 Secs (23 Secs) [==>]	[1]
	8	F225W-C	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F225W	CR-SPLIT=NO		Sequence 1-11 Non-Int in Visit 02 Pattern 1, Exps 8-8 i n Sequence 1-11 No n-Int in Visit 02 (1)	55 Secs (165 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	9	F336W-C	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F336W	CR-SPLIT=NO		Sequence 1-11 Non-Int in Visit 02	30 Secs (30 Secs) [==>]	[1]
	10	F547M-C	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F547M	CR-SPLIT=NO; BLADE=A		Sequence 1-11 Non-Int in Visit 02	1.9 Secs (1.9 Secs) [==>]	[1]
11	F689M-C	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F689M	CR-SPLIT=NO; BLADE=A		Sequence 1-11 Non-Int in Visit 02	1.7 Secs (1.7 Secs) [==>]	[1]	

# Proposal 14064 - Visit O2 - A New Disturbance in Saturn's North Sub-Polar Region



Proposal 14064 - Visit 03 - A New Disturbance in Saturn's North Sub-Polar Region

Fri Jun 19 01:15:20 GMT 2015

<b>Visit</b>	<b>Proposal 14064, Visit 03, implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-JUL-2015:17:30:00 AND 01-JUL-2015:18:00:00						
	<b>Diagnosics</b> (FQ937N-B (03.006)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ889N-A (03.007)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ889N-A (03.007) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes (FQ750N-B (03.008)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (FQ727N-D (03.009)) Warning (Form): POS TARG & PATTERN should be used carefully with ACS ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.						
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>		<b>Secondary Pattern</b>		<b>Exposures</b>	
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=true			(3), (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+63N-FEATURE	STD=SATURN			SEP OF SATURN+63N-FEATURE RHEA FROM EARTH GT 10", SEP OF SATURN+63N-FEATURE TITAN FROM EARTH GT 10"	EARTH

Proposal 14064 - Visit 03 - A New Disturbance in Saturn's North Sub-Polar Region

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F689M-C	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F689M	CR-SPLIT=NO; BLADE=A		Sequence 1-11 Non-Int in Visit 03	1.7 Secs (1.7 Secs) [==>]	[1]
	2	F502N-C	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F502N	CR-SPLIT=NO		Sequence 1-11 Non-Int in Visit 03	23 Secs (23 Secs) [==>]	[1]
	3	F225W-C	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F225W	CR-SPLIT=NO		Sequence 1-11 Non-Int in Visit 03 Pattern 1, Exps 3-3 i n Sequence 1-11 No n-Int in Visit 03 (1)	55 Secs (165 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	4	F336W-C	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F336W	CR-SPLIT=NO		Sequence 1-11 Non-Int in Visit 03	30 Secs (30 Secs) [==>]	[1]
	5	F689M-C	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F689M	CR-SPLIT=NO; BLADE=A		Sequence 1-11 Non-Int in Visit 03	1.7 Secs (1.7 Secs) [==>]	[1]
	6	FQ937N-B	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ937N	CR-SPLIT=NO	POS TARG -12,-12	Sequence 1-11 Non-Int in Visit 03	45 Secs (45 Secs) [==>]	[1]
	7	FQ889N-A	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ889N	CR-SPLIT=NO	POS TARG +12,-12	Sequence 1-11 Non-Int in Visit 03 Pattern 1, Exps 7-7 i n Sequence 1-11 No n-Int in Visit 03 (1)	55 Secs (165 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	8	FQ750N-B	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ750N	CR-SPLIT=NO	POS TARG -12,-12	Sequence 1-11 Non-Int in Visit 03	20 Secs (20 Secs) [==>]	[1]
	9	FQ727N-D	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -12,+12	Sequence 1-11 Non-Int in Visit 03	40 Secs (40 Secs) [==>]	[1]
	10	F547M-C	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F547M	CR-SPLIT=NO; BLADE=A		Sequence 1-11 Non-Int in Visit 03	1.9 Secs (1.9 Secs) [==>]	[1]
11	F410M-C	(1) SATURN+63N-F EATURE	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F410M	CR-SPLIT=NO		Sequence 1-11 Non-Int in Visit 03	20 Secs (20 Secs) [==>]	[1]	

Proposal 14064 - Visit 03 - A New Disturbance in Saturn's North Sub-Polar Region

