



## 14195 - Cloud Evolution on Uranus with K2 and HST

Cycle: 23, Proposal Category: GO

(Availability Mode: SUPPORTED)

### INVESTIGATORS

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### VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) URANUS-MAP1	WFC3/UVIS	1	22-Oct-2015 21:14:04.0	yes
02	(1) URANUS-MAP1	WFC3/UVIS	1	22-Oct-2015 21:14:07.0	yes
03	(1) URANUS-MAP1	WFC3/UVIS	1	22-Oct-2015 21:14:10.0	yes
04	(2) URANUS-MAP2	WFC3/UVIS	1	22-Oct-2015 21:14:13.0	yes
05	(2) URANUS-MAP2	WFC3/UVIS	1	22-Oct-2015 21:14:16.0	yes
06	(2) URANUS-MAP2	WFC3/UVIS	1	22-Oct-2015 21:14:18.0	yes

6 Total Orbits Used

## **ABSTRACT**

The Kepler K2 mission will monitor Uranus at high photometric precision for three months to determine its interior structure via seismology and to track cloud evolution. This will allow, for the first time, a direct comparison between the disk-integrated weather evolution of a planet and brown dwarfs, and eventually exoplanets. Hubble Space Telescope optical imaging taken during the K2 campaign is needed to anchor our understanding of the atmospheric cloud morphology. We propose observations that will allow us to map the cloud features with HST twice during the K2 campaign.

## **OBSERVING DESCRIPTION**

As noted in the abstract, this proposal is aimed at imaging Uranus during the K2 monitoring campaign. We have chosen to copy the existing OPAL legacy program for the observing program; the main difference is the number and timing of the visits.

The broad Kepler filter extends from 430nm to 900nm. In a single orbit, we can image Uranus with the WFC3/UVIS medium width filters F467M (14s), F547M (6s), and F845M (20s). This allows us to compare the HST map to the K2-derived map. In addition, we will observe in the methane filters FQ619N (65s), FQ727N (200s), and FQ924N (100s); and the narrow filter F658N (144s) that maximizes the detectability of a dark spot (see Sromovsky et al. 2012). These filters probe different layers of the atmosphere to see cloud structure. An advantage of choosing these filters is that they are same as those used by the OPAL legacy program monitoring Uranus for the next several years (program 13937). Examples of their images detecting clouds can be seen in Wong et al. (2015). This should add to the long-term archival value of our program. We adopt the same exposure times as OPAL, given above, and take a pair of dithered images in each filter. In a few cases, as in OPAL, only a single image is taken due to the time constraints of a single orbit; though this means cosmic rays will degrade the image, we believe our science goals can still be met.

In order to construct a reliable map minimizing limb effects, we need three observations during a single Uranian day. Therefore, we request three orbits of observations, with each one following four orbits after the rest. We need two maps to anchor the light curve analysis; one relatively early in the K2 campaign and one near the mid-point. We therefore request six orbits. The second half of the K2 campaign is unobservable (at night) from Earth.

Proposal 14195 - Uranus 1A (01) - Cloud Evolution on Uranus with K2 and HST

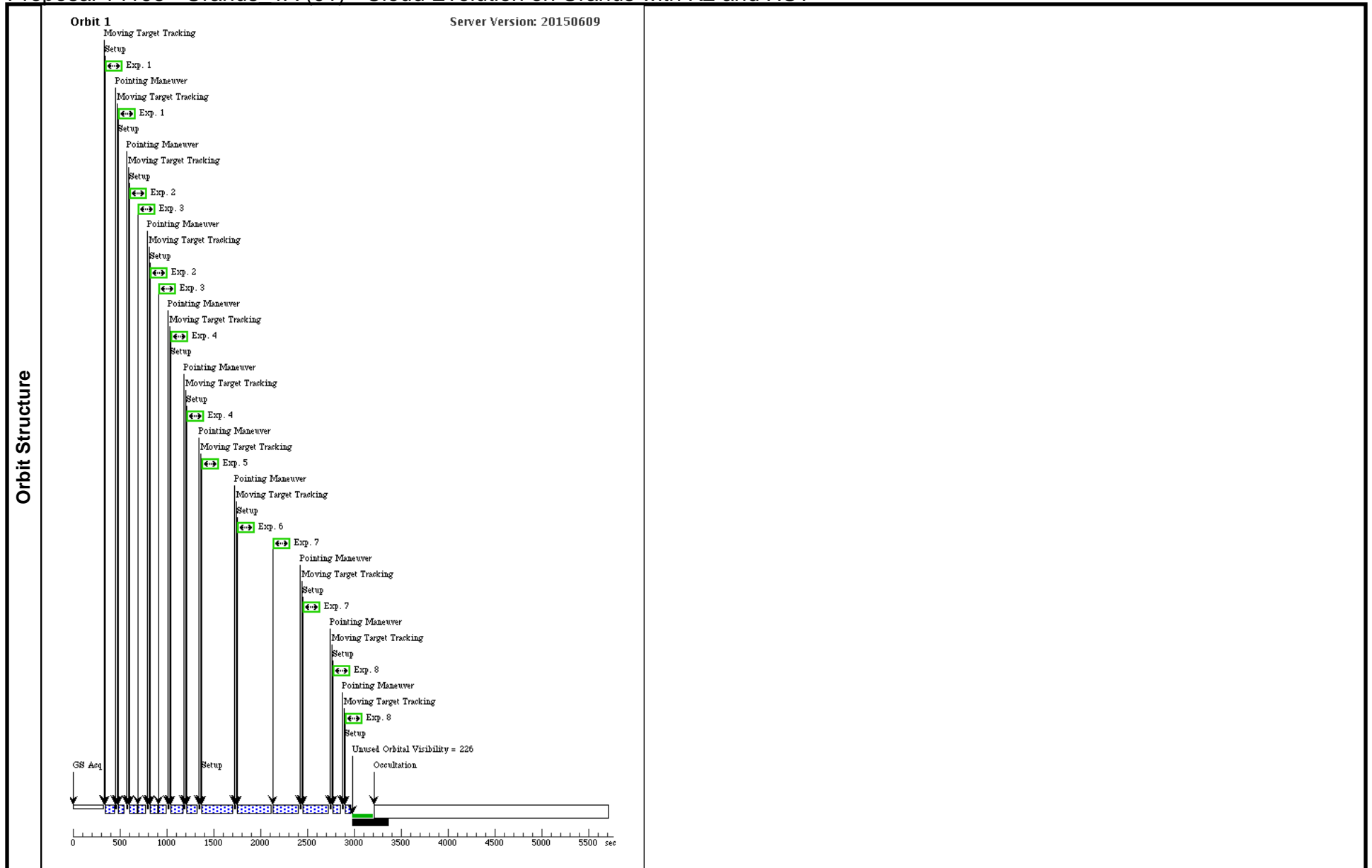
Fri Oct 23 01:14:20 GMT 2015

<b>Visit</b>	<b>Proposal 14195, Uranus_1A (01), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 06-JAN-2016:00:00:00 AND 20-JAN-2016:00:00:00 <i>Comments: This is the first of a set of three visits to make a map of Uranus early in the K2 campaign.</i>																	
	<b>Diagnostics</b>	(F845M (01.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (01.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (01.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F658N (01.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (01.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (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. (FQ727N_quadD (01.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (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. (FQ924N_quadD (01.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ924N_quadD (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. (F845M (01.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser																
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(1)		Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	(1), (2-3), (4), (7), (8)														
<b>Solar System Targets</b>		<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Level 1</th> <th>Level 2</th> <th>Level 3</th> <th>Window</th> <th>Ephem Center</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>URANUS-MAP1</td> <td>STD=URANUS</td> <td></td> <td></td> <td></td> <td>EARTH</td> </tr> </tbody> </table>			#	Name	Level 1	Level 2	Level 3	Window	Ephem Center	(1)	URANUS-MAP1	STD=URANUS				EARTH
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(1)		URANUS-MAP1	STD=URANUS				EARTH											

Proposal 14195 - Uranus 1A (01) - Cloud Evolution on Uranus with K2 and HST

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F845M	(1) URANUS-MAP1	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO	GS ACQ SCENARIO BASE1B3	Sequence 1-8 Non-Int in Uranus_1A (01)	20 Secs (40 Secs)	
								Pattern 1, Exps 1-1 in Sequence 1-8 Non-Int in Uranus_1A (01) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F467M	(1) URANUS-MAP1	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F467M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_1A (01)	14 Secs (28 Secs)	
								Pattern 1, Exps 2-3 in Sequence 1-8 Non-Int in Uranus_1A (01) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	F547M	(1) URANUS-MAP1	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F547M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_1A (01)	6 Secs (12 Secs)	
								Pattern 1, Exps 2-3 in Sequence 1-8 Non-Int in Uranus_1A (01) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	F658N	(1) URANUS-MAP1	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F658N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_1A (01)	65 Secs (130 Secs)	
								Pattern 1, Exps 4-4 in Sequence 1-8 Non-Int in Uranus_1A (01) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
5	FQ619N_quadA	(1) URANUS-MAP1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	CR-SPLIT=NO	POS TARG 18.673,-18.179	Sequence 1-8 Non-Int in Uranus_1A (01)	144 Secs (144 Secs)		
								[==>]	[1]	
6	FQ727N_quadD	(1) URANUS-MAP1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -17.245,+16.537	Sequence 1-8 Non-Int in Uranus_1A (01)	200 Secs (200 Secs)		
								[==>]	[1]	
7	FQ924N_quadD	(1) URANUS-MAP1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ924N	CR-SPLIT=NO	POS TARG -17.245,+16.537	Sequence 1-8 Non-Int in Uranus_1A (01)	100 Secs (200 Secs)		
							Pattern 1, Exps 7-7 in Sequence 1-8 Non-Int in Uranus_1A (01) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
8	F845M	(1) URANUS-MAP1	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_1A (01)	20 Secs (40 Secs)		
							Pattern 1, Exps 8-8 in Sequence 1-8 Non-Int in Uranus_1A (01) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	

# Proposal 14195 - Uranus 1A (01) - Cloud Evolution on Uranus with K2 and HST



Proposal 14195 - Uranus 1B (02) - Cloud Evolution on Uranus with K2 and HST

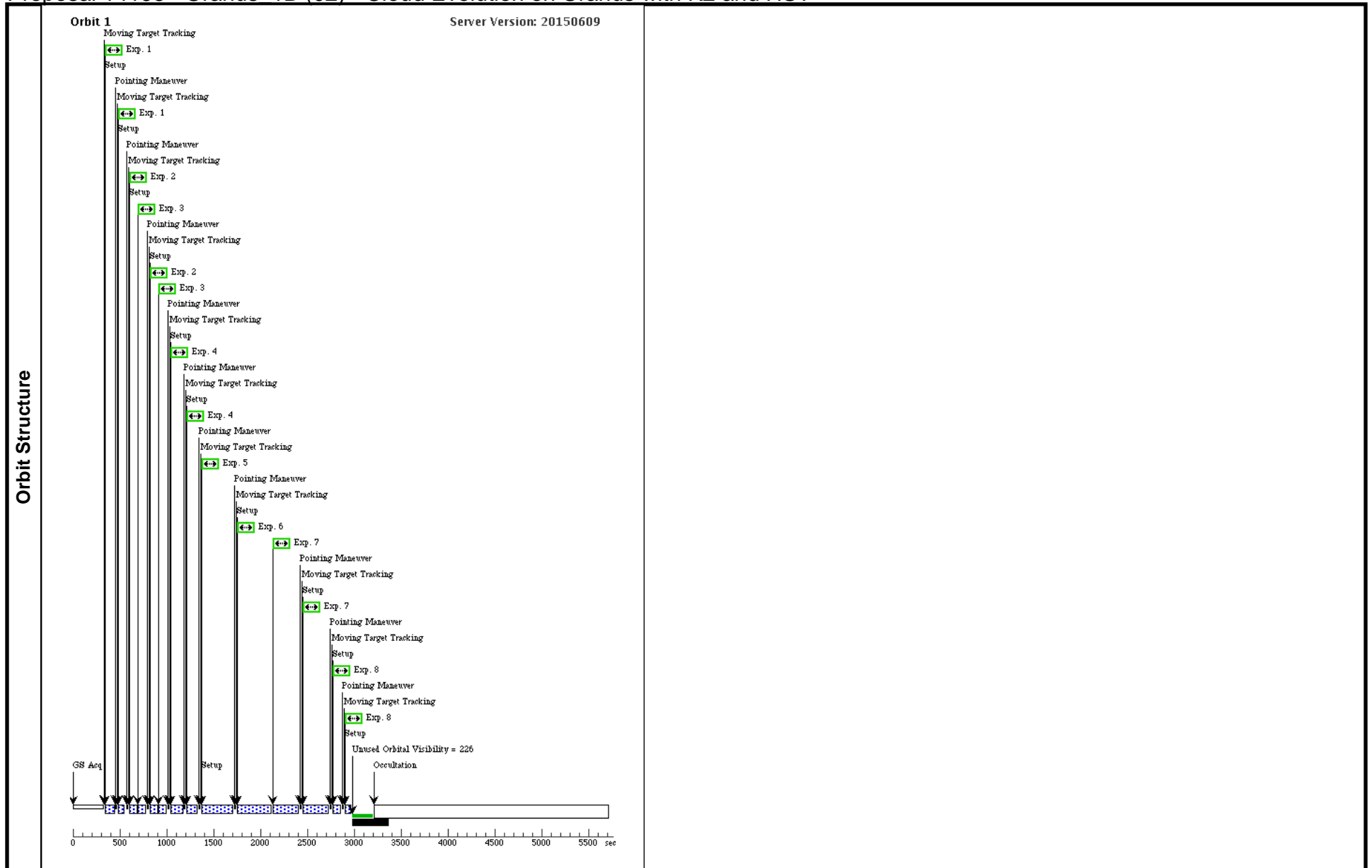
Fri Oct 23 01:14:21 GMT 2015

<b>Visit</b>	<b>Proposal 14195, Uranus_1B (02), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 01 BY 3.9 Orbits TO 4.1 Orbits <i>Comments: This is the second of a set of three visits to make a map of Uranus early in the K2 campaign. The timing of 4 orbits is later is for approximate a third of a Uranus rotation.</i>																	
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Proposal 14195 - Uranus 1B (02) - Cloud Evolution on Uranus with K2 and HST

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F845M	(1) URANUS-MAP1	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO	GS ACQ SCENARIO BASE1B3	Sequence 1-8 Non-Int in Uranus_1B (02)	20 Secs (40 Secs)	
								Pattern 1, Exps 1-1 in Sequence 1-8 Non-Int in Uranus_1B (02) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F467M	(1) URANUS-MAP1	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F467M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_1B (02)	14 Secs (28 Secs)	
								Pattern 1, Exps 2-3 in Sequence 1-8 Non-Int in Uranus_1B (02) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	F547M	(1) URANUS-MAP1	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F547M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_1B (02)	6 Secs (12 Secs)	
								Pattern 1, Exps 2-3 in Sequence 1-8 Non-Int in Uranus_1B (02) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	F658N	(1) URANUS-MAP1	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F658N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_1B (02)	65 Secs (130 Secs)	
								Pattern 1, Exps 4-4 in Sequence 1-8 Non-Int in Uranus_1B (02) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
5	FQ619N_quadA	(1) URANUS-MAP1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	CR-SPLIT=NO	POS TARG 18.673,-18.179	Sequence 1-8 Non-Int in Uranus_1B (02)	144 Secs (144 Secs)		
								[==>]	[1]	
6	FQ727N_quadD	(1) URANUS-MAP1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -17.245,+16.537	Sequence 1-8 Non-Int in Uranus_1B (02)	200 Secs (200 Secs)		
								[==>]	[1]	
7	FQ924N_quadD	(1) URANUS-MAP1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ924N	CR-SPLIT=NO	POS TARG -17.245,+16.537	Sequence 1-8 Non-Int in Uranus_1B (02)	100 Secs (200 Secs)		
							Pattern 1, Exps 7-7 in Sequence 1-8 Non-Int in Uranus_1B (02) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
8	F845M	(1) URANUS-MAP1	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_1B (02)	20 Secs (40 Secs)		
							Pattern 1, Exps 8-8 in Sequence 1-8 Non-Int in Uranus_1B (02) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	

Proposal 14195 - Uranus 1B (02) - Cloud Evolution on Uranus with K2 and HST



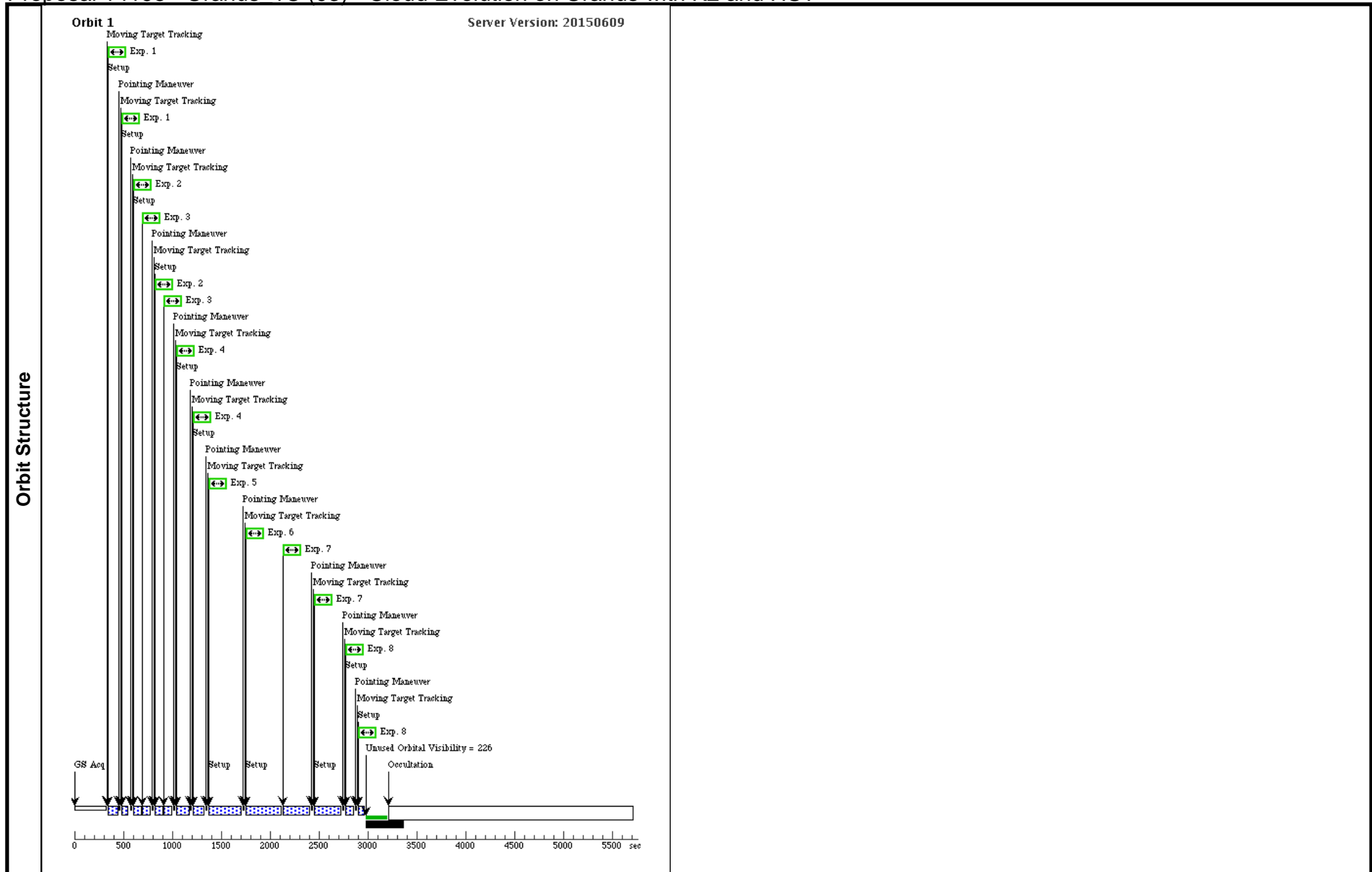
Proposal 14195 - Uranus 1C (03) - Cloud Evolution on Uranus with K2 and HST

Fri Oct 23 01:14:21 GMT 2015

<b>Visit</b>	<b>Proposal 14195, Uranus_1C (03), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 02 BY 3.9 Orbits TO 4.1 Orbits <i>Comments: This is the third of a set of three visits to make a map of Uranus early in the K2 campaign. The timing of 4 orbits is later is for approximate a third of a Uranus rotation.</i>																	
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		#	Name	Level 1	Level 2	Level 3	Window	Ephem Center										
(1)		URANUS-MAP1	STD=URANUS				EARTH											

Proposal 14195 - Uranus 1C (03) - Cloud Evolution on Uranus with K2 and HST

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F845M	(1) URANUS-MAP1	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO	GS ACQ SCENARIO BASE1B3	Sequence 1-8 Non-Int in Uranus_1C (03)	20 Secs (40 Secs)	
								Pattern 1, Exps 1-1 in Sequence 1-8 Non-Int in Uranus_1C (03) (1)	[==>(Pattern 1)]	[1]
									[==>(Pattern 2)]	
	2	F467M	(1) URANUS-MAP1	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F467M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_1C (03)	14 Secs (28 Secs)	
								Pattern 1, Exps 2-3 in Sequence 1-8 Non-Int in Uranus_1C (03) (1)	[==>(Pattern 1)]	[1]
									[==>(Pattern 2)]	
	3	F547M	(1) URANUS-MAP1	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F547M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_1C (03)	6 Secs (12 Secs)	
								Pattern 1, Exps 2-3 in Sequence 1-8 Non-Int in Uranus_1C (03) (1)	[==>(Pattern 1)]	[1]
								[==>(Pattern 2)]		
4	F658N	(1) URANUS-MAP1	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F658N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_1C (03)	65 Secs (130 Secs)		
							Pattern 1, Exps 4-4 in Sequence 1-8 Non-Int in Uranus_1C (03) (1)	[==>(Pattern 1)]	[1]	
								[==>(Pattern 2)]		
5	FQ619N_quadA	(1) URANUS-MAP1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	CR-SPLIT=NO	POS TARG 18.673,-18.179	Sequence 1-8 Non-Int in Uranus_1C (03)	144 Secs (144 Secs)		
								[==>]	[1]	
6	FQ727N_quadD	(1) URANUS-MAP1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -17.245,+16.537	Sequence 1-8 Non-Int in Uranus_1C (03)	200 Secs (200 Secs)		
								[==>]	[1]	
7	FQ924N_quadD	(1) URANUS-MAP1	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ924N	CR-SPLIT=NO	POS TARG -17.245,+16.537	Sequence 1-8 Non-Int in Uranus_1C (03)	100 Secs (200 Secs)		
							Pattern 1, Exps 7-7 in Sequence 1-8 Non-Int in Uranus_1C (03) (1)	[==>(Pattern 1)]	[1]	
								[==>(Pattern 2)]		
8	F845M	(1) URANUS-MAP1	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_1C (03)	20 Secs (40 Secs)		
							Pattern 1, Exps 8-8 in Sequence 1-8 Non-Int in Uranus_1C (03) (1)	[==>(Pattern 1)]	[1]	
								[==>(Pattern 2)]		



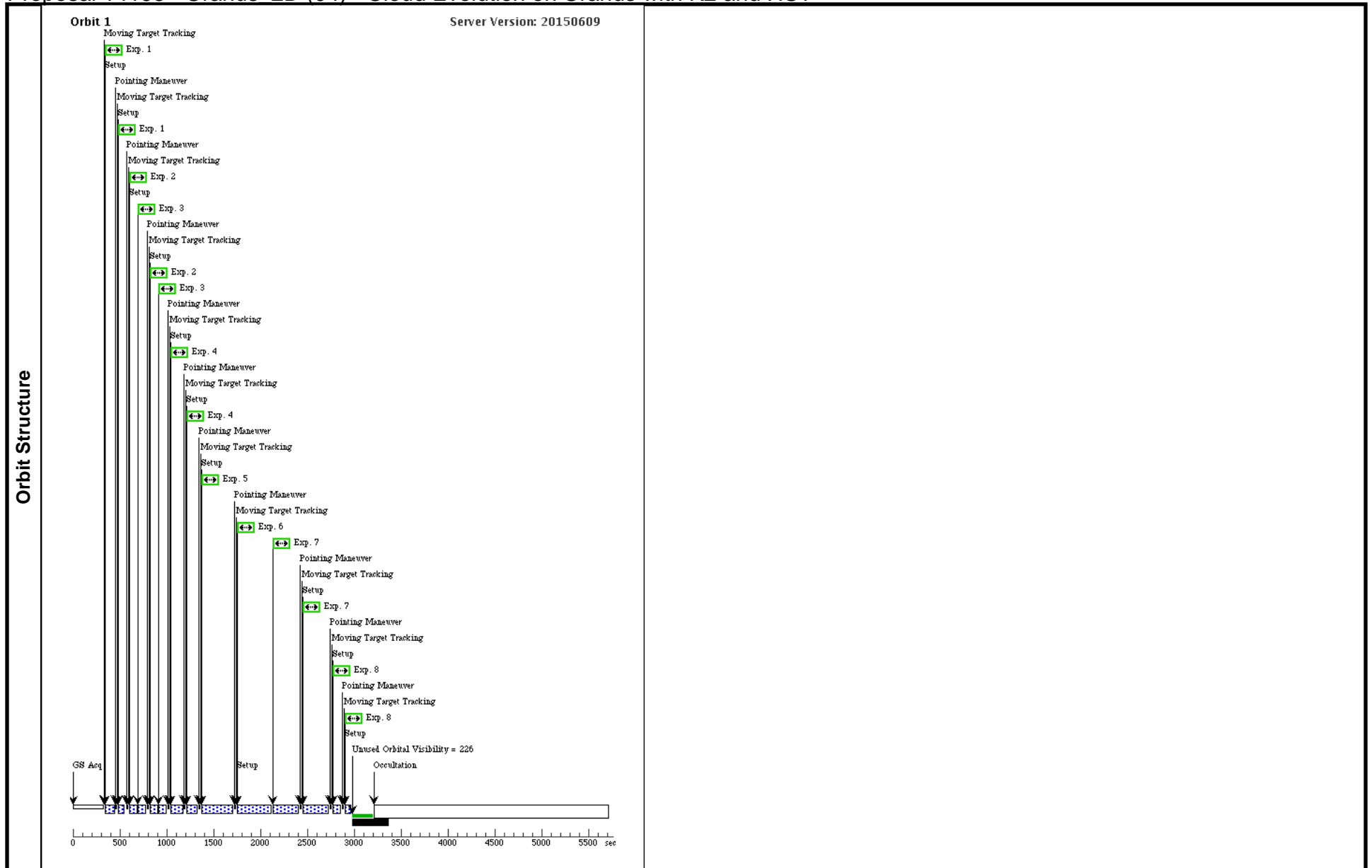
Proposal 14195 - Uranus\_2D (04) - Cloud Evolution on Uranus with K2 and HST

Fri Oct 23 01:14:21 GMT 2015

<b>Visit</b>	<b>Proposal 14195, Uranus_2D (04), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 21-JAN-2016:00:00:00 AND 18-FEB-2016:00:00:00 <i>Comments: This is the first of a set of three visits to make a second map of Uranus in the middle of the K2 campaign.</i>																				
	<b>Diagnostics</b>	(F845M (04.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (04.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (04.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F658N (04.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (04.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (04.005)) 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. (FQ727N_quadD (04.006)) 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. (FQ727N_quadD (04.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ924N_quadD (04.007)) 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. (FQ924N_quadD (04.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F845M (04.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser																			
<b>Patterns</b>		<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=0.145                      Line Spacing=                 </td> <td>                     Coordinate Frame=POS-TARG                      Pattern Orientation=46.84                      Angle Between Sides=                      Center Pattern=false                 </td> <td>(1), (2-3), (4), (7), (8)</td> </tr> </tbody> </table>	#	Primary Pattern	Secondary Pattern	Exposures	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	(1), (2-3), (4), (7), (8)											
		#	Primary Pattern	Secondary Pattern	Exposures																
(1)		Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	(1), (2-3), (4), (7), (8)																	
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		#	Name	Level 1	Level 2	Level 3	Window	Ephem Center													
(2)		URANUS-MAP2	STD=URANUS				EARTH														

Proposal 14195 - Uranus 2D (04) - Cloud Evolution on Uranus with K2 and HST

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F845M	(2) URANUS-MAP2	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO	GS ACQ SCENARIO BASE1B3	Sequence 1-8 Non-Int in Uranus_2D (04)	20 Secs (40 Secs)	
								Pattern 1, Exps 1-1 in Sequence 1-8 Non-Int in Uranus_2D (04) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F467M	(2) URANUS-MAP2	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F467M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_2D (04)	14 Secs (28 Secs)	
								Pattern 1, Exps 2-3 in Sequence 1-8 Non-Int in Uranus_2D (04) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	F547M	(2) URANUS-MAP2	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F547M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_2D (04)	6 Secs (12 Secs)	
								Pattern 1, Exps 2-3 in Sequence 1-8 Non-Int in Uranus_2D (04) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	F658N	(2) URANUS-MAP2	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F658N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_2D (04)	65 Secs (130 Secs)	
								Pattern 1, Exps 4-4 in Sequence 1-8 Non-Int in Uranus_2D (04) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
5	FQ619N_quadA	(2) URANUS-MAP2	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	CR-SPLIT=NO	POS TARG 18.673,-18.179	Sequence 1-8 Non-Int in Uranus_2D (04)	144 Secs (144 Secs)		
								[==>]	[1]	
6	FQ727N_quadD	(2) URANUS-MAP2	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -17.245,+16.537	Sequence 1-8 Non-Int in Uranus_2D (04)	200 Secs (200 Secs)		
								[==>]	[1]	
7	FQ924N_quadD	(2) URANUS-MAP2	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ924N	CR-SPLIT=NO	POS TARG -17.245,+16.537	Sequence 1-8 Non-Int in Uranus_2D (04)	100 Secs (200 Secs)		
							Pattern 1, Exps 7-7 in Sequence 1-8 Non-Int in Uranus_2D (04) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
8	F845M	(2) URANUS-MAP2	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_2D (04)	20 Secs (40 Secs)		
							Pattern 1, Exps 8-8 in Sequence 1-8 Non-Int in Uranus_2D (04) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	



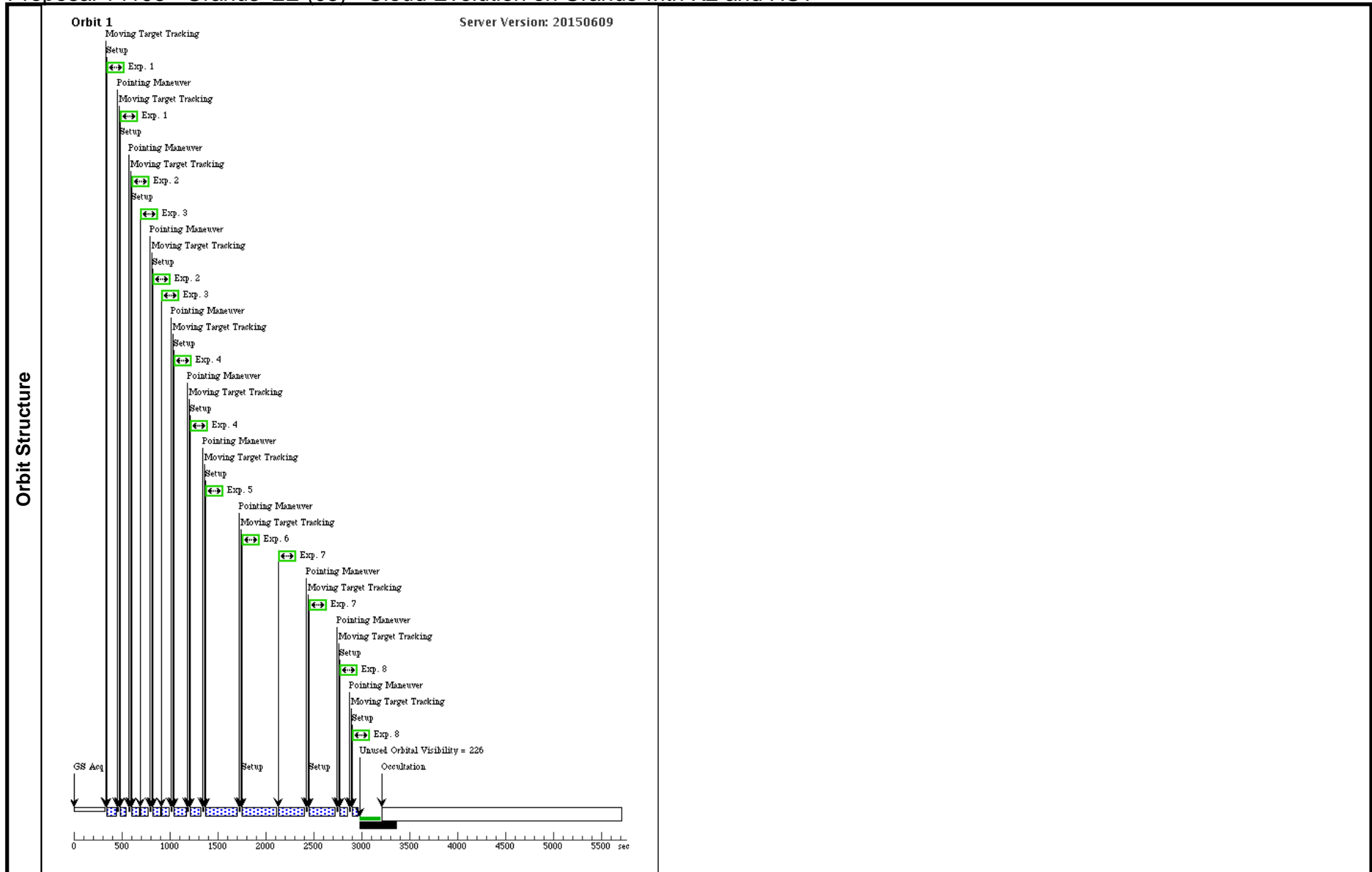
Proposal 14195 - Uranus\_2E (05) - Cloud Evolution on Uranus with K2 and HST

Fri Oct 23 01:14:21 GMT 2015

<b>Visit</b>	<b>Proposal 14195, Uranus_2E (05), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 04 BY 3.9 Orbits TO 4.1 Orbits <i>Comments: This is the second of a set of three visits to make a second map of Uranus in the middle of the K2 campaign. It is 4 orbits later to allow 1/3 of a rotation by the planet.</i>																				
	<b>Diagnostics</b>	(F845M (05.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (05.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (05.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F658N (05.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (05.005)) 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. (FQ619N_quadA (05.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (05.006)) 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. (FQ727N_quadD (05.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ924N_quadD (05.007)) 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. (FQ924N_quadD (05.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F845M (05.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser																			
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		#	Name	Level 1	Level 2	Level 3	Window	Ephem Center													
(2)		URANUS-MAP2	STD=URANUS				EARTH														

Proposal 14195 - Uranus 2E (05) - Cloud Evolution on Uranus with K2 and HST

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F845M	(2) URANUS-MAP2	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO	GS ACQ SCENARIO BASE1B3	Sequence 1-8 Non-Int in Uranus_2E (05)	20 Secs (40 Secs)	
								Pattern 1, Exps 1-1 in Sequence 1-8 Non-Int in Uranus_2E (05) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F467M	(2) URANUS-MAP2	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F467M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_2E (05)	14 Secs (28 Secs)	
								Pattern 1, Exps 2-3 in Sequence 1-8 Non-Int in Uranus_2E (05) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	F547M	(2) URANUS-MAP2	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F547M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_2E (05)	6 Secs (12 Secs)	
								Pattern 1, Exps 2-3 in Sequence 1-8 Non-Int in Uranus_2E (05) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	F658N	(2) URANUS-MAP2	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F658N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_2E (05)	65 Secs (130 Secs)	
								Pattern 1, Exps 4-4 in Sequence 1-8 Non-Int in Uranus_2E (05) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
5	FQ619N_quadA	(2) URANUS-MAP2	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	CR-SPLIT=NO	POS TARG 18.673,-18.179	Sequence 1-8 Non-Int in Uranus_2E (05)	144 Secs (144 Secs)		
								[==>]	[1]	
6	FQ727N_quadD	(2) URANUS-MAP2	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -17.245,+16.537	Sequence 1-8 Non-Int in Uranus_2E (05)	200 Secs (200 Secs)		
								[==>]	[1]	
7	FQ924N_quadD	(2) URANUS-MAP2	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ924N	CR-SPLIT=NO	POS TARG -17.245,+16.537	Sequence 1-8 Non-Int in Uranus_2E (05)	100 Secs (200 Secs)		
							Pattern 1, Exps 7-7 in Sequence 1-8 Non-Int in Uranus_2E (05) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
8	F845M	(2) URANUS-MAP2	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_2E (05)	20 Secs (40 Secs)		
							Pattern 1, Exps 8-8 in Sequence 1-8 Non-Int in Uranus_2E (05) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	



Proposal 14195 - Uranus 2F (06) - Cloud Evolution on Uranus with K2 and HST

Fri Oct 23 01:14:22 GMT 2015

<b>Visit</b>	<b>Proposal 14195, Uranus_2F (06), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 05 BY 3.9 Orbits TO 4.1 Orbits <i>Comments: This is the third of a set of three visits to make a second map of Uranus in the middle of the K2 campaign. It is 4 orbits later to allow 1/3 of a rotation by the planet.</i>																	
	<b>Diagnostics</b>	(F845M (06.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F467M (06.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F547M (06.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (F658N (06.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ619N_quadA (06.005)) 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. (FQ619N_quadA (06.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (06.006)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ727N_quadD (06.006)) 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. (FQ924N_quadD (06.007)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (FQ924N_quadD (06.007)) 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. (F845M (06.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser																
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		#	Name	Level 1	Level 2	Level 3	Window	Ephem Center										
(2)		URANUS-MAP2	STD=URANUS				EARTH											

Proposal 14195 - Uranus 2F (06) - Cloud Evolution on Uranus with K2 and HST

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F845M	(2) URANUS-MAP2	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO	GS ACQ SCENARIO BASE1B3	Sequence 1-8 Non-Int in Uranus_2F (06)	20 Secs (40 Secs)	
								Pattern 1, Exps 1-1 in Sequence 1-8 Non-Int in Uranus_2F (06) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	F467M	(2) URANUS-MAP2	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F467M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_2F (06)	14 Secs (28 Secs)	
								Pattern 1, Exps 2-3 in Sequence 1-8 Non-Int in Uranus_2F (06) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	F547M	(2) URANUS-MAP2	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F547M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_2F (06)	6 Secs (12 Secs)	
								Pattern 1, Exps 2-3 in Sequence 1-8 Non-Int in Uranus_2F (06) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4	F658N	(2) URANUS-MAP2	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F658N	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_2F (06)	65 Secs (130 Secs)	
								Pattern 1, Exps 4-4 in Sequence 1-8 Non-Int in Uranus_2F (06) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
5	FQ619N_quadA	(2) URANUS-MAP2	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ619N	CR-SPLIT=NO	POS TARG 18.673,-18.179	Sequence 1-8 Non-Int in Uranus_2F (06)	144 Secs (144 Secs)		
								[==>]	[1]	
6	FQ727N_quadD	(2) URANUS-MAP2	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ727N	CR-SPLIT=NO	POS TARG -17.245,+16.537	Sequence 1-8 Non-Int in Uranus_2F (06)	200 Secs (200 Secs)		
								[==>]	[1]	
7	FQ924N_quadD	(2) URANUS-MAP2	WFC3/UVIS, ACCUM, UVIS-QUAD-SUB	FQ924N	CR-SPLIT=NO	POS TARG -17.245,+16.537	Sequence 1-8 Non-Int in Uranus_2F (06)	100 Secs (200 Secs)		
							Pattern 1, Exps 7-7 in Sequence 1-8 Non-Int in Uranus_2F (06) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
8	F845M	(2) URANUS-MAP2	WFC3/UVIS, ACCUM, UVIS2-M512C-SUB	F845M	CR-SPLIT=NO		Sequence 1-8 Non-Int in Uranus_2F (06)	20 Secs (40 Secs)		
							Pattern 1, Exps 8-8 in Sequence 1-8 Non-Int in Uranus_2F (06) (1)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	

