



16440 - WFC3/UVIS CTE: A Completely Direct Approach to Model Pinning

Cycle: 28, Proposal Category: CAL/WFC3

(Availability Mode: RESTRICTED)

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	DARK	WFC3/UVIS	1	12-Nov-2020 16:07:44.0	yes
02	DARK	WFC3/UVIS	1	12-Nov-2020 16:07:45.0	yes
03	DARK	WFC3/UVIS	1	12-Nov-2020 16:07:45.0	yes
04	DARK	WFC3/UVIS	1	12-Nov-2020 16:07:46.0	yes
05	DARK	WFC3/UVIS	1	12-Nov-2020 16:07:46.0	yes
06	DARK	WFC3/UVIS	1	12-Nov-2020 16:07:47.0	yes
07	DARK	WFC3/UVIS	1	12-Nov-2020 16:07:47.0	yes
08	DARK	WFC3/UVIS	1	12-Nov-2020 16:07:48.0	yes
09	DARK	WFC3/UVIS	1	12-Nov-2020 16:07:48.0	yes
10	DARK	WFC3/UVIS	1	12-Nov-2020 16:07:48.0	yes
11	DARK	WFC3/UVIS	1	12-Nov-2020 16:07:49.0	yes
12	DARK	WFC3/UVIS	1	12-Nov-2020 16:07:49.0	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>
13	DARK	WFC3/UVIS	1	12-Nov-2020 16:07:50.0	yes
14	DARK	WFC3/UVIS	1	12-Nov-2020 16:07:50.0	yes
15	DARK	WFC3/UVIS	1	12-Nov-2020 16:07:51.0	yes
16	DARK	WFC3/UVIS	1	12-Nov-2020 16:07:51.0	yes
17	DARK	WFC3/UVIS	1	12-Nov-2020 16:07:52.0	yes
18	DARK	WFC3/UVIS	1	12-Nov-2020 16:07:52.0	yes
19	DARK	WFC3/UVIS	1	12-Nov-2020 16:07:52.0	yes
20	DARK	WFC3/UVIS	1	12-Nov-2020 16:07:53.0	yes
21	DARK	WFC3/UVIS	1	12-Nov-2020 16:07:53.0	yes
22	DARK	WFC3/UVIS	1	12-Nov-2020 16:07:54.0	yes
23	DARK	WFC3/UVIS	1	12-Nov-2020 16:07:54.0	yes
24	DARK	WFC3/UVIS	1	12-Nov-2020 16:07:55.0	yes

24 Total Orbits Used

ABSTRACT

This program is designed to provide a new, fully direct calibration of the pixel-based CTE model. The initial calibration of the model in 2013 involved studying the trails behind warm pixels (WPs) and determining the trapping-and-release model that turned the WPs back into delta functions again. This approach worked for bright WPs, but it was hard to examine the full trails behind faint WPs.

So in 2016, we developed CAL-14880 to take a set of images with various post-flash levels so we could examine the survival of WPs as a function of background. This allowed a direct calibration of the losses without reference to the electrons in the trails, thus decoupling the trapping and release aspects of the model.

This program (CAL-16440) is an extension of that methodology. In addition to its extension of the direct approach to the entire range of pixel-packet size, the detector is ~40% older than when CAL-14880 was taken in 2016, and as such we have 40% more WPs to work with and the CTE-loss signal is 40% stronger, essentially allowing a factor of two more constraints on the model.

OBSERVING DESCRIPTION

There are two sets of postflashed dark observations in this program: (1) reference stacks and (2) finely-sampled background probes.

(1) The reference stacks will be constructed from 6x900s exposures with backgrounds of 100e, 1,000e, and 10,000e. We will also supplement the stacks taken here with 0e-background and 12e-background stacks (which can be constructed from the standard dark programs). These stacks will provide a robust list of warm pixel locations and intensities for analysis with the finely-sampled background set. They will also be used to explore the variations in trail shape as a function of electron-packet size.

(2) The other set of observations will explore CTE losses at 54 different post-flash levels: 0e, 1e, 2e, 4e, 6e, 8e, 10e, 12e, 14e, 16e, 18e, 20e, 22e, 24e, 26e, 28e, 30e, 33e, 37e, 42e, 49e, 56e, 63e, 70e, 77e, 84e, 91e, 98e, 112e, 126e, 140e, 154e, 168e, 182e, 203e, 224e, 245e, 273e, 301e, 336e, 378e, 420e, 462e, 504e, 602e, 700e, 798e, 903e, 1000e, 1750e, 3045e, 5306e, 9240e, 9940e, 16079e, and 28000e. This will allow us to examine the survival of WPs as a function of background.

The backgrounds up to 30e will be taken with 30s exposure times. We will probe marginal $\sim 5e$ WPs so that we can pin the model as precisely as possible. Between 30s and 300s, we will increase the exposure time linearly with the post-flash level so that we can study marginal WPs that have an intensity of $\sim 15\%$ of the background. Between backgrounds of 300e and 1000e, we will use a 300s exposure time. Finally, for backgrounds above 1000e, we will use a 900s exposure time, which will be the same as is used in the reference stacks.

Each visit in the program will take three exposures: two short exposures (300s or less) and one 900s exposure. Some of the visits go over the 1800s target for internals, but none of the exposures go over as much as the standard dark program, so it shouldn't be too hard to schedule this.

We will aim to schedule these 24 orbits to take place during the same anneal period, hopefully sometime around December 2020.

Proposal 16440 - 0e, 700e, 1778e (01) - WFC3/UVIS CTE: A Completely Direct Approach to Model Pinning

Thu Nov 12 21:07:55 GMT 2020

Visit	Proposal 16440, 0e, 700e, 1778e (01) Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 03-DEC-2020 AND 21-DEC-2020									
	(0e, 700e, 1778e (01)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	0e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=LOW; FLASHEXP=0.1			26.9 Secs (26.9 Secs) [==>]	[1]
	2	700e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM; FLASHEXP=10.0			287 Secs (287 Secs) [==>]	[1]
	3	1778e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM; FLASHEXP=25.0			872 Secs (872 Secs) [==>]	[1]
Orbit Structure										

Proposal 16440 - 2e, 903e, 3046e (02) - WFC3/UVIS CTE: A Completely Direct Approach to Model Pinning

Thu Nov 12 21:07:55 GMT 2020

Visit	Proposal 16440, 2e, 903e, 3046e (02) Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 03-DEC-2020 AND 21-DEC-2020									
	(2e, 903e, 3046e (02)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	2e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=LOW; FLASHEXP=0.8			26.2 Secs (26.2 Secs) [==>]	[1]
	2	903e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM; FLASHEXP=12.9			284.1 Secs (284.1 Secs) [==>]	[1]
	3	3046	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM; FLASHEXP=43.5			853.5 Secs (853.5 Secs) [==>]	[1]
Orbit Structure	Orbit 1 Unused Orbital Visibility = 3142 Exp. 1 Exp. 2 Exp. 3 Occultation									
	Server Version: 20200619									

Proposal 16440 - 6e, 504e, 5300e (03) - WFC3/UVIS CTE: A Completely Direct Approach to Model Pinning

Thu Nov 12 21:07:55 GMT 2020

Visit	Proposal 16440, 6e, 504e, 5300e (03) Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 03-DEC-2020 AND 21-DEC-2020									
	(6e, 504e, 5300e (03)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	6e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=LOW; FLASHEXP=2.4			24.6 Secs (24.6 Secs) [==>]	[1]
	2	504e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM; FLASHEXP=7.2			289.8 Secs (289.8 Secs) [==>]	[1]
	3	5300e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM; FLASHEXP=75.8			821.2 Secs (821.2 Secs) [==>]	[1]
Orbit Structure										
	Server Version: 20200619									

Proposal 16440 - 10e, 378e, 7490e (04) - WFC3/UVIS CTE: A Completely Direct Approach to Model Pinning

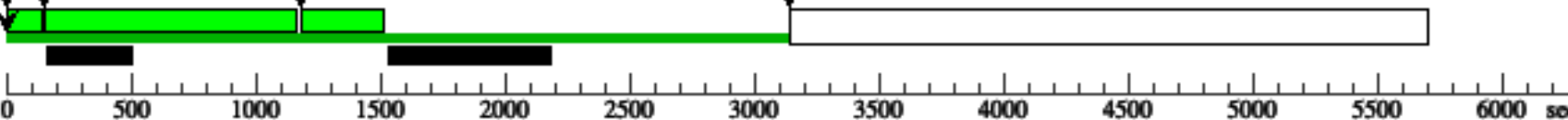
Thu Nov 12 21:07:55 GMT 2020

Visit	Proposal 16440, 10e, 378e, 7490e (04) Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 03-DEC-2020 AND 21-DEC-2020									
	(10e, 378e, 7490e (04)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	10e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=LOW; FLASHEXP=4.0			23.0 Secs (23 Secs) [==>]	[1]
	2	378e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM; FLASHEXP=5.4			291.6 Secs (291.6 Secs) [==>]	[1]
	3	7490e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM; FLASHEXP=107			790 Secs (790 Secs) [==>]	[1]
Orbit Structure										

Proposal 16440 - 14e, 301e, 16Ke (05) - WFC3/UVIS CTE: A Completely Direct Approach to Model Pinning

Visit	Proposal 16440, 14e, 301e, 16Ke (05) Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 03-DEC-2020 AND 21-DEC-2020										Thu Nov 12 21:07:55 GMT 2020
	(14e, 301e, 16Ke (05)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	14e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=LOW;			21.4 Secs (21.4 Secs)		
						FLASHEXP=5.6			[==>]		[1]
	2	301e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI			263.6 Secs (263.6 Secs)		
						UM;			[==>]		[1]
						FLASHEXP=4.3					
	3	16Ke	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI			667.3 Secs (667.3 Secs)		
						UM;			[==>]		[1]
						FLASHEXP=229.7					
Orbit Structure	Orbit 1 Unused Orbital Visibility = 3142 Exp. 1 Exp. 2 Exp. 3 Occultation										
	Server Version: 20200619										

Proposal 16440 - 18e, 28Ke, 245e (06) - WFC3/UVIS CTE: A Completely Direct Approach to Model Pinning

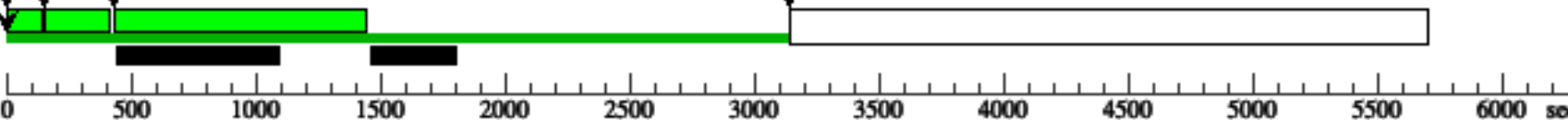
Visit	Proposal 16440, 18e, 28Ke, 245e (06)										Thu Nov 12 21:07:55 GMT 2020
	Diagnostic Status: Warning										
	Scientific Instruments: WFC3/UVIS										
	Special Requirements: BETWEEN 03-DEC-2020 AND 21-DEC-2020										
Diagnos	(18e, 28Ke, 245e (06)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	18e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=LOW; FLASHEXP=7.2			19.8 Secs (19.8 Secs) [>=>]	[1]	
	2	28Ke	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM; FLASHEXP=400.0			497.0 Secs (497 Secs) [>=>]	[1]	
	3	245e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM; FLASHEXP=3.5			214.0 Secs (214 Secs) [>=>]	[1]	
Orbit Structure	Orbit 1 Exp. 1 Unused Orbital Visibility = 3142 Exp. 2 Exp. 3 Occultation  Server Version: 20200619										

Proposal 16440 - 22e, 200e, 100e (07) - WFC3/UVIS CTE: A Completely Direct Approach to Model Pinning

Thu Nov 12 21:07:55 GMT 2020

Visit	Proposal 16440, 22e, 200e, 100e (07) Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 03-DEC-2020 AND 21-DEC-2020									
	(22e, 200e, 100e (07)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	22e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=LOW; FLASHEXP=8.8			18.2 Secs (18.2 Secs) [==>]	[1]
	2	200e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM; FLASHEXP=2.9			174.1 Secs (174.1 Secs) [==>]	[1]
	3	100e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM; FLASHEXP=1.4			895.6 Secs (895.6 Secs) [==>]	[1]
Orbit Structure	Orbit 1 Exp. 1 Unused Orbital Visibility = 3142 Exp. 2 Exp. 3 Occultation Server Version: 20200619									

Proposal 16440 - 26e, 168e, 100e (08) - WFC3/UVIS CTE: A Completely Direct Approach to Model Pinning

Visit	Proposal 16440, 26e, 168e, 100e (08)										Thu Nov 12 21:07:56 GMT 2020
	Diagnostic Status: Warning										
	Scientific Instruments: WFC3/UVIS										
	Special Requirements: BETWEEN 03-DEC-2020 AND 21-DEC-2020										
Diagnostics	(26e, 168e, 100e (08)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	26e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=LOW;			16.6 Secs (16.6 Secs)		
						FLASHEXP=10.4			[==>]		[1]
	2	168e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI			145.8 Secs (145.8 Secs)		
						UM;			[==>]		[1]
						FLASHEXP=2.4					
	3	100e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI			895.6 Secs (895.6 Secs)		
						UM;			[==>]		[1]
						FLASHEXP=1.4					
Orbit Structure	Orbit 1 Unused Orbital Visibility = 3142 Exp. 1 Exp. 2 Exp. 3 Occultation  Server Version: 20200619										
	0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec										

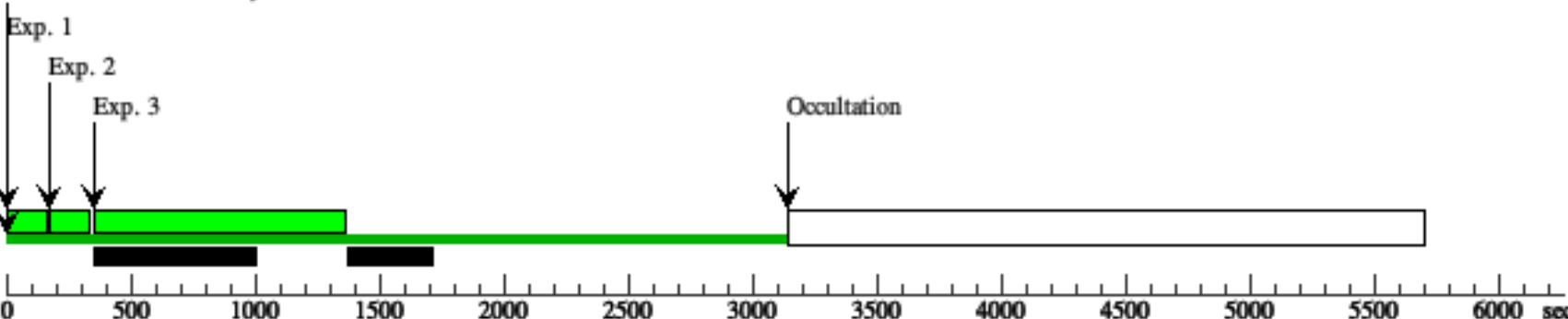
Proposal 16440 - 30e, 33e, 100e (09) - WFC3/UVIS CTE: A Completely Direct Approach to Model Pinning

Visit	Proposal 16440, 30e, 33e, 100e (09)										Thu Nov 12 21:07:56 GMT 2020
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: WFC3/UVIS										
	Special Requirements: BETWEEN 03-DEC-2020 AND 21-DEC-2020										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	30e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=LOW;			15.0 Secs (15 Secs)		
						FLASHEXP=12.0			[==>]	[1]	
	2	33e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=LOW;			13.8 Secs (13.8 Secs)		
						FLASHEXP=13.2			[==>]	[1]	
	3	100e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI			895.6 Secs (895.6 Secs)		
					UM;			[==>]	[1]		
					FLASHEXP=1.4						
Orbit Structure	Orbit 1 Unused Orbital Visibility = 3142 Exp. 1 Exp. 2 Exp. 3 Occultation 050010001500200025003000350040004500500055006000 sec										
	Server Version: 20200619										

Proposal 16440 - 37e, 42e, 100e (10) - WFC3/UVIS CTE: A Completely Direct Approach to Model Pinning

Visit	Proposal 16440, 37e, 42e, 100e (10)										Thu Nov 12 21:07:56 GMT 2020
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: WFC3/UVIS										
	Special Requirements: BETWEEN 03-DEC-2020 AND 21-DEC-2020										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	37e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=LOW; FLASHEXP=14.8			12.2 Secs (12.2 Secs)		
									[==>]	[1]	
	2	42e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM; FLASHEXP=0.6			34.2 Secs (34.2 Secs)		
									[==>]	[1]	
	3	100e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM; FLASHEXP=1.4			895.6 Secs (895.6 Secs)		
								[==>]	[1]		
Orbit Structure	Orbit 1 Exp. 1 Unused Orbital Visibility = 3142 Exp. 2 Exp. 3 Occultation 050010001500200025003000350040004500500055006000 sec Server Version: 20200619										

Proposal 16440 - 49e, 56e, 100e (11) - WFC3/UVIS CTE: A Completely Direct Approach to Model Pinning

Visit	Proposal 16440, 49e, 56e, 100e (11)										Thu Nov 12 21:07:56 GMT 2020	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: BETWEEN 03-DEC-2020 AND 21-DEC-2020											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit		
	1	49e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM;			40.4 Secs (40.4 Secs)			
						FLASHEXP=0.7			[==>]	[1]		
	2	56e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM;			46.6 Secs (46.6 Secs)			
						FLASHEXP=0.8			[==>]	[1]		
	3	100e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM;			895.6 Secs (895.6 Secs)			
					FLASHEXP=1.4			[==>]	[1]			
Orbit Structure	Orbit 1 Unused Orbital Visibility = 3142 Exp. 1 Exp. 2 Exp. 3 Occultation 											Server Version: 20200619

Proposal 16440 - 63e, 70e, 100e (12) - WFC3/UVIS CTE: A Completely Direct Approach to Model Pinning

Visit	Proposal 16440, 63e, 70e, 100e (12) Thu Nov 12 21:07:56 GMT 2020									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 03-DEC-2020 AND 21-DEC-2020									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	63e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDIUM; FLASHEXP=0.9			52.8 Secs (52.8 Secs) [==>]	[1]
	2	70e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDIUM; FLASHEXP=1.0			59.0 Secs (59 Secs) [==>]	[1]
	3	100e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDIUM; FLASHEXP=1.4			895.6 Secs (895.6 Secs) [==>]	[1]
Orbit Structure	Orbit 1 Exp. 1 Unused Orbital Visibility = 3142									
	Server Version: 20200619									

Proposal 16440 - 77e, 84e, 1000e (13) - WFC3/UVIS CTE: A Completely Direct Approach to Model Pinning

Visit	Proposal 16440, 77e, 84e, 1000e (13)										Thu Nov 12 21:07:56 GMT 2020
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: WFC3/UVIS										
	Special Requirements: BETWEEN 03-DEC-2020 AND 21-DEC-2020										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	77e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM;			65.2 Secs (65.2 Secs)		
						FLASHEXP=1.1			[==>]	[1]	
	2	84e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM;			71.4 Secs (71.4 Secs)		
						FLASHEXP=1.2			[==>]	[1]	
	3	1000e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM;			882.7 Secs (882.7 Secs)		
					FLASHEXP=14.3			[==>]	[1]		
Orbit Structure	Orbit 1 Exp. 1 Unused Orbital Visibility = 3142 Exp. 2 Exp. 3 Occultation 050010001500200025003000350040004500500055006000 sec										Server Version: 20200619

Proposal 16440 - 93e, 100e, 1000e (14) - WFC3/UVIS CTE: A Completely Direct Approach to Model Pinning

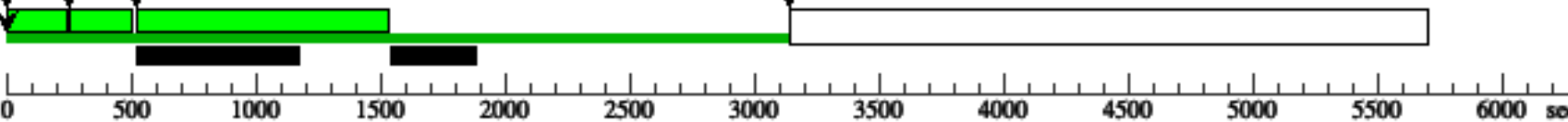
Thu Nov 12 21:07:56 GMT 2020

Visit	Proposal 16440, 93e, 100e, 1000e (14) Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 03-DEC-2020 AND 21-DEC-2020									
	(93e, 100e, 1000e (14)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	93e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM; FLASHEXP=1.3			77.6 Secs (77.6 Secs) [==>]	[1]
	2	100e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM; FLASHEXP=1.4			83.8 Secs (83.8 Secs) [==>]	[1]
	3	1000e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM; FLASHEXP=14.3			882.7 Secs (882.7 Secs) [==>]	[1]
Orbit Structure										

Proposal 16440 - 112e, 126e, 1000e (15) - WFC3/UVIS CTE: A Completely Direct Approach to Model Pinning

Visit	Proposal 16440, 112e, 126e, 1000e (15) Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 03-DEC-2020 AND 21-DEC-2020										Thu Nov 12 21:07:56 GMT 2020
	(112e, 126e, 1000e (15)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	112e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM;			96.2 Secs (96.2 Secs)		
						FLASHEXP=1.6			[==>]		[1]
	2	126e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM;			108.6 Secs (108.6 Secs)		
						FLASHEXP=1.8			[==>]		[1]
	3	1000e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM;			882.7 Secs (882.7 Secs)		
						FLASHEXP=14.3			[==>]		[1]
Orbit Structure	Orbit 1 Unused Orbital Visibility = 3142										
	Server Version: 20200619										

Proposal 16440 - 140e, 154e, 1000e (16) - WFC3/UVIS CTE: A Completely Direct Approach to Model Pinning

Visit	Proposal 16440, 140e, 154e, 1000e (16)										Thu Nov 12 21:07:56 GMT 2020
	Diagnostic Status: Warning										
	Scientific Instruments: WFC3/UVIS										
	Special Requirements: BETWEEN 03-DEC-2020 AND 21-DEC-2020										
Diagnosics	(140e, 154e, 1000e (16)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	140e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM;			121.0 Secs (121 Secs)		
						FLASHEXP=2.0			[==>]	[1]	
	2	154e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM;			133.4 Secs (133.4 Secs)		
						FLASHEXP=2.2			[==>]	[1]	
	3	1000e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM;			882.7 Secs (882.7 Secs)		
					FLASHEXP=14.3			[==>]	[1]		
Orbit Structure	Orbit 1 Unused Orbital Visibility = 3142 Exp. 1 Exp. 2 Exp. 3 Occultation 										
	Server Version: 20200619										

Proposal 16440 - 28e, 182e, 1000e (17) - WFC3/UVIS CTE: A Completely Direct Approach to Model Pinning

Visit	Proposal 16440, 28e, 182e, 1000e (17) Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 03-DEC-2020 AND 21-DEC-2020										Thu Nov 12 21:07:56 GMT 2020
	(28e, 182e, 1000e (17)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	28e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=LOW;			15.8 Secs (15.8 Secs)		
						FLASHEXP=11.2			[==>]		[1]
	2	182e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI			158.2 Secs (158.2 Secs)		
						UM;			[==>]		[1]
						FLASHEXP=2.6					
	3	1000e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI			882.7 Secs (882.7 Secs)		
						UM;			[==>]		[1]
						FLASHEXP=14.3					
Orbit Structure	Orbit 1 Exp. 1 Unused Orbital Visibility = 3142 Exp. 2 Exp. 3 Occultation										
	Server Version: 20200619										

Proposal 16440 - 24e, 224e, 1000e (18) - WFC3/UVIS CTE: A Completely Direct Approach to Model Pinning

Visit	Proposal 16440, 24e, 224e, 1000e (18)										Thu Nov 12 21:07:56 GMT 2020
	Diagnostic Status: Warning										
Scientific Instruments: WFC3/UVIS											
Special Requirements: AFTER 01; BETWEEN 03-DEC-2020 AND 21-DEC-2020											
Diagnostics	(24e, 224e, 1000e (18)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	24e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=LOW;			17.4 Secs (17.4 Secs)		
						FLASHEXP=9.6			[==>]	[1]	
	2	224e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI			195.4 Secs (195.4 Secs)		
						UM;			[==>]	[1]	
						FLASHEXP=3.2					
3	1000e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI			882.7 Secs (882.7 Secs)			
					UM;			[==>]	[1]		
					FLASHEXP=14.3						
Orbit Structure	Orbit 1 Unused Orbital Visibility = 3142 Exp. 1 Exp. 2 Exp. 3 Occultation 050010001500200025003000350040004500500055006000sec										
	Server Version: 20200619										

Proposal 16440 - 20e, 273e, 10Ke (19) - WFC3/UVIS CTE: A Completely Direct Approach to Model Pinning

Visit	Proposal 16440, 20e, 273e, 10Ke (19)										Thu Nov 12 21:07:56 GMT 2020
	Diagnostic Status: Warning										
	Scientific Instruments: WFC3/UVIS										
	Special Requirements: BETWEEN 03-DEC-2020 AND 21-DEC-2020										
Diagnos	(20e, 273e, 10Ke (19)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	20e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=LOW; FLASHEXP=8.0			19.0 Secs (19 Secs) [>=>]		[1]
	2	273e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM; FLASHEXP=3.9			238.8 Secs (238.8 Secs) [>=>]		[1]
	3	10Ke	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM; FLASHEXP=142.0			755.0 Secs (755 Secs) [>=>]		[1]
Orbit Structure	Orbit 1 Exp. 1 Unused Orbital Visibility = 3142 Exp. 2 Exp. 3 Occultation 050010001500200025003000350040004500500055006000 sec										
	Server Version: 20200619										

Proposal 16440 - 16e, 336e, 10Ke (20) - WFC3/UVIS CTE: A Completely Direct Approach to Model Pinning

Visit	Proposal 16440, 16e, 336e, 10Ke (20) Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 03-DEC-2020 AND 21-DEC-2020										Thu Nov 12 21:07:56 GMT 2020
	(16e, 336e, 10Ke (20)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	16e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=LOW;			20.6 Secs (20.6 Secs)		
						FLASHEXP=6.4			[==>]		[1]
	2	336e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI			292.2 Secs (292.2 Secs)		
						UM;			[==>]		[1]
						FLASHEXP=4.8					
	3	10Ke	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI			755.0 Secs (755 Secs)		
						UM;			[==>]		[1]
						FLASHEXP=142.0					
Orbit Structure	Orbit 1 Exp. 1 Unused Orbital Visibility = 3142 Exp. 2 Exp. 3 Occultation										
	Server Version: 20200619										

Proposal 16440 - 12e, 420e, 10Ke (21) - WFC3/UVIS CTE: A Completely Direct Approach to Model Pinning

Visit	Proposal 16440, 12e, 420e, 10Ke (21)										Thu Nov 12 21:07:56 GMT 2020
	Diagnostic Status: Warning										
	Scientific Instruments: WFC3/UVIS										
	Special Requirements: BETWEEN 03-DEC-2020 AND 21-DEC-2020										
Diagnos	(12e, 420e, 10Ke (21)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	12e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=LOW; FLASHEXP=4.8			22.2 Secs (22.2 Secs) [>=>]	[1]	
	2	420e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM; FLASHEXP=6.0			291.0 Secs (291 Secs) [>=>]	[1]	
	3	10Ke	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM; FLASHEXP=142.0			755.0 Secs (755 Secs) [>=>]	[1]	
Orbit Structure	Orbit 1 Exp. 1 Unused Orbital Visibility = 3142 Exp. 2 Exp. 3 Occultation 050010001500200025003000350040004500500055006000 sec										
	Server Version: 20200619										

Proposal 16440 - 8e, 462e, 10Ke (22) - WFC3/UVIS CTE: A Completely Direct Approach to Model Pinning

Visit	Proposal 16440, 8e, 462e, 10Ke (22)										Thu Nov 12 21:07:56 GMT 2020
	Diagnostic Status: Warning										
	Scientific Instruments: WFC3/UVIS										
	Special Requirements: BETWEEN 03-DEC-2020 AND 21-DEC-2020										
Diagnostics	(8e, 462e, 10Ke (22)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	8e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=LOW;			23.8 Secs (23.8 Secs)		
						FLASHEXP=3.2			[==>]	[1]	
	2	462e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI			290.4 Secs (290.4 Secs)		
						UM;			[==>]	[1]	
						FLASHEXP=6.6					
3	10Ke	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI			755.0 Secs (755 Secs)			
					UM;			[==>]	[1]		
					FLASHEXP=142.0						
Orbit Structure	Orbit 1 Unused Orbital Visibility = 3142 Exp. 1 Exp. 2 Exp. 3 Occultation 050010001500200025003000350040004500500055006000 sec										
	Server Version: 20200619										

Proposal 16440 - 1e, 602e, 10Ke (23) - WFC3/UVIS CTE: A Completely Direct Approach to Model Pinning

Visit	Proposal 16440, 1e, 602e, 10Ke (23)										Thu Nov 12 21:07:56 GMT 2020
	Diagnostic Status: Warning										
	Scientific Instruments: WFC3/UVIS										
	Special Requirements: BETWEEN 03-DEC-2020 AND 21-DEC-2020										
Diagnostics	(1e, 602e, 10Ke (23)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	1e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=LOW; FLASHEXP=0.4			26.6 Secs (26.6 Secs) [>=>]	[1]	
	2	602e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM; FLASHEXP=8.6			288.4 Secs (288.4 Secs) [>=>]	[1]	
	3	10Ke	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI UM; FLASHEXP=142.0			755.0 Secs (755 Secs) [>=>]	[1]	
Orbit Structure	Orbit 1 Exp. 1 Unused Orbital Visibility = 3142 Exp. 2 Exp. 3 Occultation 050010001500200025003000350040004500500055006000 sec										
	Server Version: 20200619										

Proposal 16440 - 4e, 798e, 10Ke (24) - WFC3/UVIS CTE: A Completely Direct Approach to Model Pinning

Visit	Proposal 16440, 4e, 798e, 10Ke (24)										Thu Nov 12 21:07:56 GMT 2020
	Diagnostic Status: Warning										
	Scientific Instruments: WFC3/UVIS										
	Special Requirements: BETWEEN 03-DEC-2020 AND 21-DEC-2020										
Diagnostics	(4e, 798e, 10Ke (24)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	4e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=LOW;			25.4 Secs (25.4 Secs)		
						FLASHEXP=1.6			[==>]	[1]	
	2	798e	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI			285.6 Secs (285.6 Secs)		
						UM;			[==>]	[1]	
						FLASHEXP=11.4					
3	10Ke	DARK	WFC3/UVIS, ACCUM, UVIS-FIX	DEF	FLASHCUR=MEDI			755.0 Secs (755 Secs)			
					UM;			[==>]	[1]		
					FLASHEXP=142.0						
Orbit Structure	Orbit 1 Exp. 1 Unused Orbital Visibility = 3142 Exp. 2 Exp. 3 Occultation 050010001500200025003000350040004500500055006000 sec										
	Server Version: 20200619										