



17014 - WFC3 UVIS Shutter Monitoring

Cycle: 30, Proposal Category: CAL/WFC3

(Availability Mode: RESTRICTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
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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	TUNGSTEN	WFC3/UVIS	1	29-Mar-2023 15:00:24.0	yes
02	TUNGSTEN	WFC3/UVIS	1	29-Mar-2023 15:00:25.0	yes

2 Total Orbits Used

ABSTRACT

We monitor the WFC3 UVIS shutter performance. The exposures in F555W need to be identical to previous cycles. Images with exposure times ranging from 0.5 to 17 seconds will be used to compare the photometric behavior of each shutter blade, for short vs long exposures and check for shutter shading effects. The first exposure of 0.5sec cannot be used since the lamp would be still heating during this exposure, so we will take a set of three 0.5sec exposures. Internal flats in each of the 4 amps will be used to monitor the repeatability and shutter shading effects. We want to include some wavelength dependence, so this proposal now includes exposures in F814W filter, exposure times for which have been estimated using information from WFC3 ISR 2008-21.

OBSERVING DESCRIPTION

WFC3/Cal proposal.

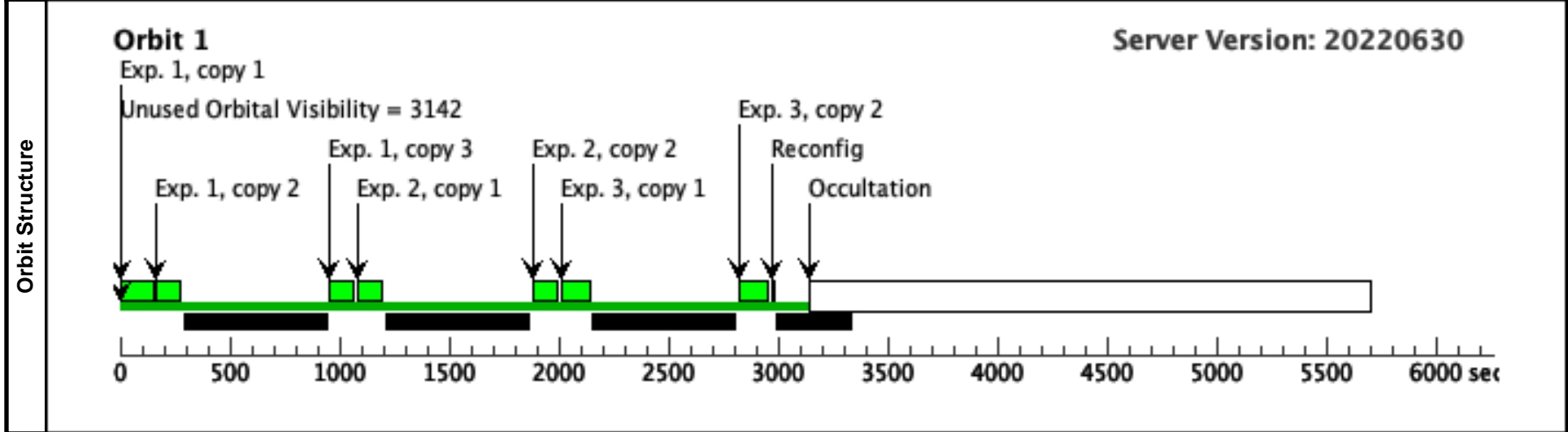
Proposal 17014 - Visit 01 - WFC3 UVIS Shutter Monitoring

Wed Mar 29 19:00:26 GMT 2023

Visit	<p>Proposal 17014, Visit 01, completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 01-JUL-2022 AND 01-APR-2023</p>
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Diagnostics	<p>(Visit 01) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU</p> <p>(Flat0.5 (01.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Flat1.0 (01.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Flat17 (01.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
<p>Comments: This assumes Tungsten lamp 3. (2800 e-/sec/pix through F555W in TV3 testing)</p>	1	Flat0.5	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F555W				0.5 Secs X 3 (1.5 Secs)	
									[=>(Copy 1)]	[1]
									[=>(Copy 2)]	
								[=>(Copy 3)]		
<p>Comments: This assumes Tungsten lamp 3. (2800 e-/sec/pix through F555W in TV3 testing)</p>	2	Flat1.0	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F555W				1.0 Secs X 2 (2 Secs)	
									[=>(Copy 1)]	[1]
									[=>(Copy 2)]	
<p>Comments: This assumes Tungsten lamp 3. (2800 e-/sec/pix through F555W in TV3 testing)</p>	3	Flat17	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F555W				17 Secs X 2 (34 Secs)	
									[=>(Copy 1)]	[1]
									[=>(Copy 2)]	



Proposal 17014 - Visit 02 - WFC3 UVIS Shutter Monitoring

Wed Mar 29 19:00:26 GMT 2023

Visit	Proposal 17014, Visit 02, implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-MAR-2023 AND 31-DEC-2023
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Diagnostics	(Visit 02) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU (Flat0.5 (02.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Flat1.0 (02.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Flat2.0 (02.003)) 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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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Flat0.5	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F814W				0.5 Secs X 3 (1.5 Secs)	
								[==>(Copy 1)]	
								[==>(Copy 2)]	[1]
<i>Comments: This assumes Tungsten lamp 3. (20,000 e-/sec/pix through F814W, WFC3 ISR 2008-21)</i>									
2	Flat1.0	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F814W				1 Secs X 2 (2 Secs)	
								[==>(Copy 1)]	
								[==>(Copy 2)]	[1]
3	Flat2.0	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F814W				2 Secs X 2 (4 Secs)	
								[==>(Copy 1)]	
								[==>(Copy 2)]	[1]
<i>Comments: This assumes Tungsten lamp 3. (20,000 e-/sec/pix through F814W, WFC3 ISR 2008-21)</i>									

