



## 15719 - WFC3 UVIS CCD Gain Stability

Cycle: 27, 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	TUNGSTEN	WFC3/UVIS	1	18-Jul-2019 10:00:14.0	yes
02	TUNGSTEN	WFC3/UVIS	1	18-Jul-2019 10:00:15.0	yes
03	TUNGSTEN	WFC3/UVIS	1	18-Jul-2019 10:00:17.0	yes
04	TUNGSTEN	WFC3/UVIS	1	18-Jul-2019 10:00:17.0	yes
05	TUNGSTEN	WFC3/UVIS	1	18-Jul-2019 10:00:18.0	yes
06	TUNGSTEN	WFC3/UVIS	1	18-Jul-2019 10:00:18.0	yes
07	TUNGSTEN	WFC3/UVIS	1	18-Jul-2019 10:00:19.0	yes
08	TUNGSTEN	WFC3/UVIS	1	18-Jul-2019 10:00:19.0	yes
09	TUNGSTEN	WFC3/UVIS	1	18-Jul-2019 10:00:20.0	yes
10	TUNGSTEN	WFC3/UVIS	1	18-Jul-2019 10:00:21.0	yes
11	TUNGSTEN	WFC3/UVIS	1	18-Jul-2019 10:00:22.0	yes
12	TUNGSTEN	WFC3/UVIS	1	18-Jul-2019 10:00:23.0	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>
13	TUNGSTEN	WFC3/UVIS	1	18-Jul-2019 10:00:24.0	yes
14	TUNGSTEN	WFC3/UVIS	1	18-Jul-2019 10:00:24.0	yes
15	TUNGSTEN	WFC3/UVIS	1	18-Jul-2019 10:00:24.0	yes
16	TUNGSTEN	WFC3/UVIS	1	18-Jul-2019 10:00:25.0	yes
17	TUNGSTEN	WFC3/UVIS	1	18-Jul-2019 10:00:26.0	yes
18	TUNGSTEN	WFC3/UVIS	1	18-Jul-2019 10:00:26.0	yes

18 Total Orbits Used

### **ABSTRACT**

This proposal, focusing on monitoring gain stability, will acquire absolute gain data for every quadrant (A, B, C, and D) of the WFC3/UVIS detector. This is one of a recurring program, providing plenty of data for comparison. We take binned and unbinned nominal gain measurements (mode BIN=2,3).

### **OBSERVING DESCRIPTION**

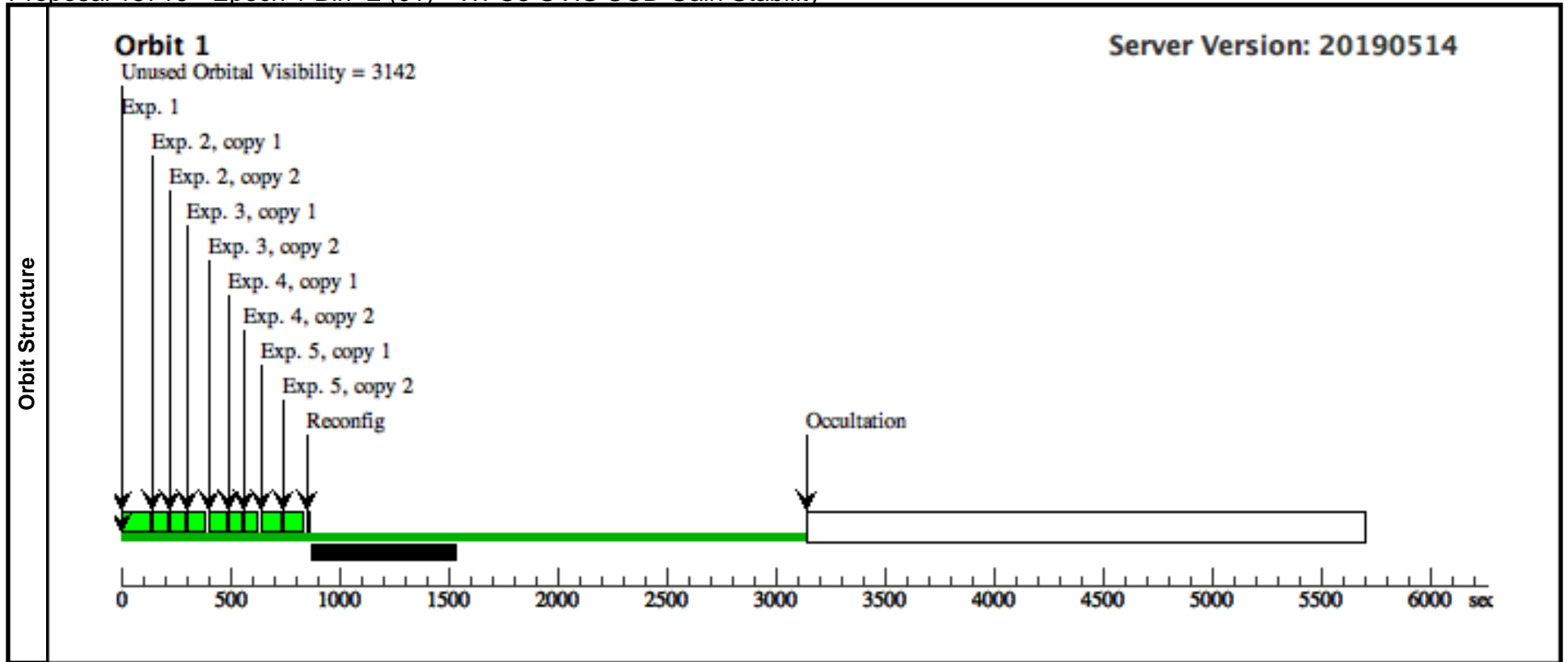
We take 8 full frame pairs of internal flat fields and measure the nominal readout for every detector quadrant (ABCD, gain=1.5 e-/DN, with binning bin=2,3,NONE). We use the default tungsten lamp and F645N filter to reach exposure levels from ~500 to 50,000 e-. We take a total of 18 internal orbits in the form of two epochs separated by 6 months (9 orbits per epoch.)

To check for any gain variability across the field of view, we use full frames instead of subarrays. We hope to cover the bulk of science/GO observing modes with our observations. Other proposals to study absolute gain in the same way have included 12364, 12690, 13168, 13561, 14007, 14536, 14985, and 15574; these proposals have all provided consistent results.

Proposal 15719 - Epoch 1 Bin=2 (01) - WFC3 UVIS CCD Gain Stability

Thu Jul 18 14:00:27 GMT 2019

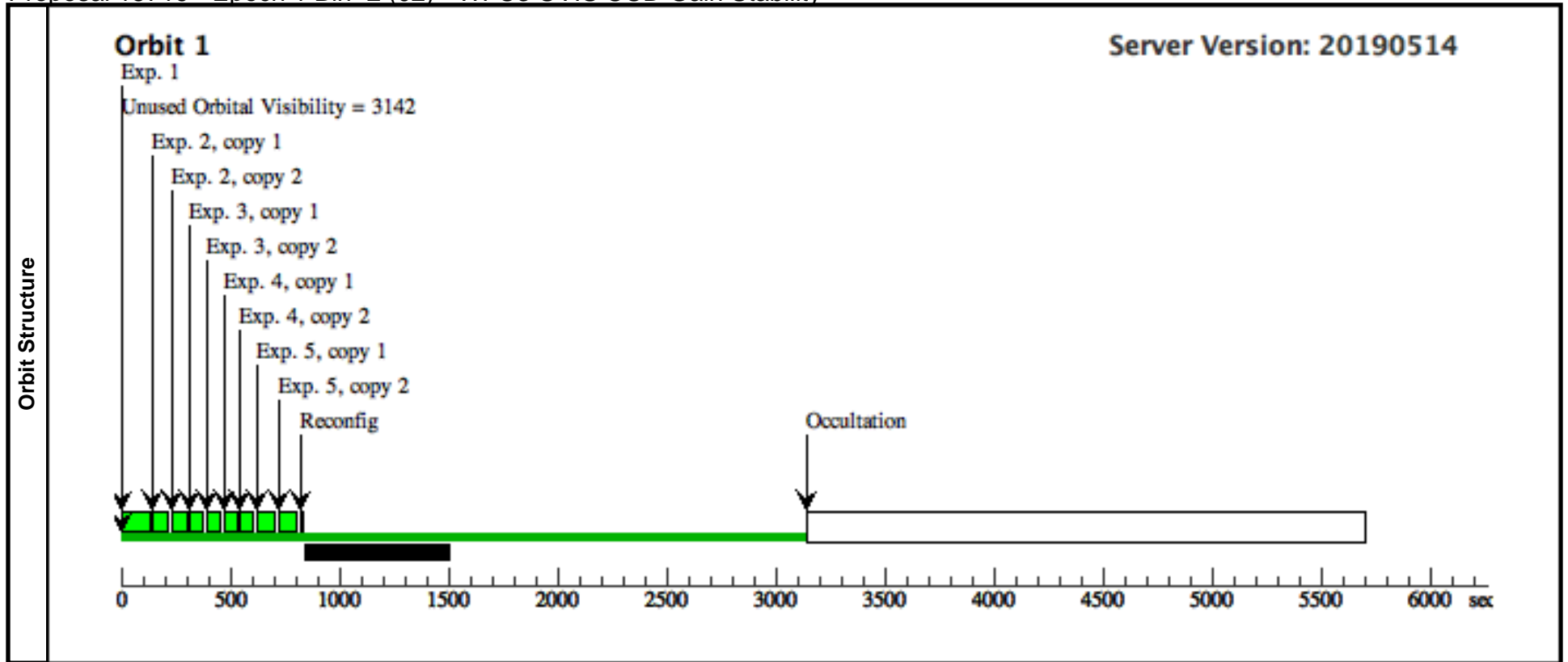
Visit	<b>Proposal 15719, Epoch 1 Bin=2 (01)</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-DEC-2019:00:00:00 AND 31-DEC-2019:00:00:00 Comments: BIN=2										
	Diagnostics	(subarray for lamp warmup (01.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Flat4 (01.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Flat6 (01.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Flat1 (01.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Flat8 (01.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	subarray for lamp warmup	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS1-M512-SUB	F645N				Sequence 1-5 Non-Int in Epoch 1 Bin=2 (01)	60 Secs (60 Secs) [==>]	[1]
	2	Flat4	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=2			Sequence 1-5 Non-Int in Epoch 1 Bin=2 (01)	6.0 Secs X 2 (12 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
	3	Flat6	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=2			Sequence 1-5 Non-Int in Epoch 1 Bin=2 (01)	17.0 Secs X 2 (34 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
	4	Flat1	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=2			Sequence 1-5 Non-Int in Epoch 1 Bin=2 (01)	0.5 Secs X 2 (1 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
	5	Flat8	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=2			Sequence 1-5 Non-Int in Epoch 1 Bin=2 (01)	30.0 Secs X 2 (60 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]



Proposal 15719 - Epoch 1 Bin=2 (02) - WFC3 UVIS CCD Gain Stability

Thu Jul 18 14:00:27 GMT 2019

Visit	<b>Proposal 15719, Epoch 1 Bin=2 (02)</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-DEC-2019:00:00:00 AND 31-DEC-2019:00:00:00 Comments: BIN=2										
	Diagnosics	(subarray for lamp warmup (02.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Flat5 (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 (02.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Flat3 (02.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Flat7 (02.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	subarray for lamp warmup	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS1-M512-SUB	F645N				Sequence 1-5 Non-Int in Epoch 1 Bin=2 (02)	60 Secs (60 Secs) [==>]	[1]
	2	Flat5	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=2			Sequence 1-5 Non-Int in Epoch 1 Bin=2 (02)	11.0 Secs X 2 (22 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
	3	Flat2	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=2			Sequence 1-5 Non-Int in Epoch 1 Bin=2 (02)	1.0 Secs X 2 (2 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
	4	Flat3	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=2			Sequence 1-5 Non-Int in Epoch 1 Bin=2 (02)	2.0 Secs X 2 (4 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
	5	Flat7	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=2			Sequence 1-5 Non-Int in Epoch 1 Bin=2 (02)	24.0 Secs X 2 (48 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]



Proposal 15719 - Epoch 1 Bin=3 (03) - WFC3 UVIS CCD Gain Stability

Thu Jul 18 14:00:27 GMT 2019

<b>Visit</b>	<p><b>Proposal 15719, Epoch 1 Bin=3 (03)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 01-DEC-2019:00:00:00 AND 31-DEC-2019:00:00:00</p> <p><i>Comments: BIN=3</i></p>
<b>Diagnostics</b>	<p>(subarray for lamp warmup (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>(Flat1 (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>(Flat2 (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>(Flat3 (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>(Flat4 (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>(Flat5 (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>(Flat6 (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>(Flat7 (03.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Flat8 (03.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Flat9 (03.010)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>

Proposal 15719 - Epoch 1 Bin=3 (03) - WFC3 UVIS CCD Gain Stability

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	subarray for lamp warmup	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS1-M512-SUB	F645N			Sequence 1-10 Non-Int in Epoch 1 Bin=3 (03)	60 Secs (60 Secs) [==>]	[1]
	2	Flat1	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=3		Sequence 1-10 Non-Int in Epoch 1 Bin=3 (03)	5.0 Secs X 2 (10 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
	3	Flat2	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=3		Sequence 1-10 Non-Int in Epoch 1 Bin=3 (03)	1.0 Secs X 2 (2 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
	4	Flat3	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=3		Sequence 1-10 Non-Int in Epoch 1 Bin=3 (03)	7.0 Secs X 2 (14 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
	5	Flat4	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=3		Sequence 1-10 Non-Int in Epoch 1 Bin=3 (03)	3.0 Secs X 2 (6 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
	6	Flat5	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=3		Sequence 1-10 Non-Int in Epoch 1 Bin=3 (03)	0.5 Secs X 2 (1 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
	7	Flat6	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=3		Sequence 1-10 Non-Int in Epoch 1 Bin=3 (03)	9.0 Secs X 2 (18 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
	8	Flat7	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=3		Sequence 1-10 Non-Int in Epoch 1 Bin=3 (03)	2.0 Secs X 2 (4 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
	9	Flat8	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=3		Sequence 1-10 Non-Int in Epoch 1 Bin=3 (03)	11.0 Secs X 2 (22 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
10	Flat9	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=3		Sequence 1-10 Non-Int in Epoch 1 Bin=3 (03)	13.0 Secs X 2 (26 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]	



Orbit Structure

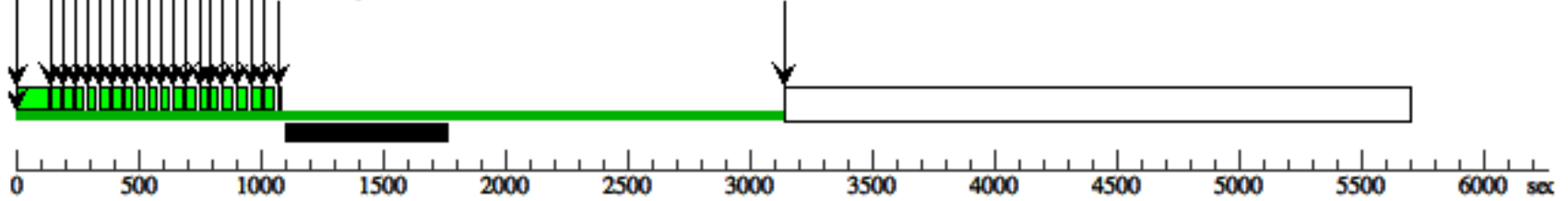
**Orbit 1**

Exp. 1

Unused Orbital Visibility = 3142

- Exp. 2, copy 1
- Exp. 2, copy 2
- Exp. 3, copy 1
- Exp. 3, copy 2
- Exp. 4, copy 1
- Exp. 4, copy 2
- Exp. 5, copy 1
- Exp. 5, copy 2
- Exp. 6, copy 1
- Exp. 6, copy 2
- Exp. 7, copy 1
- Exp. 7, copy 2
- Exp. 8, copy 1
- Exp. 8, copy 2
- Exp. 9, copy 1
- Exp. 9, copy 2
- Exp. 10, copy 1
- Exp. 10, copy 2
- Reconfig

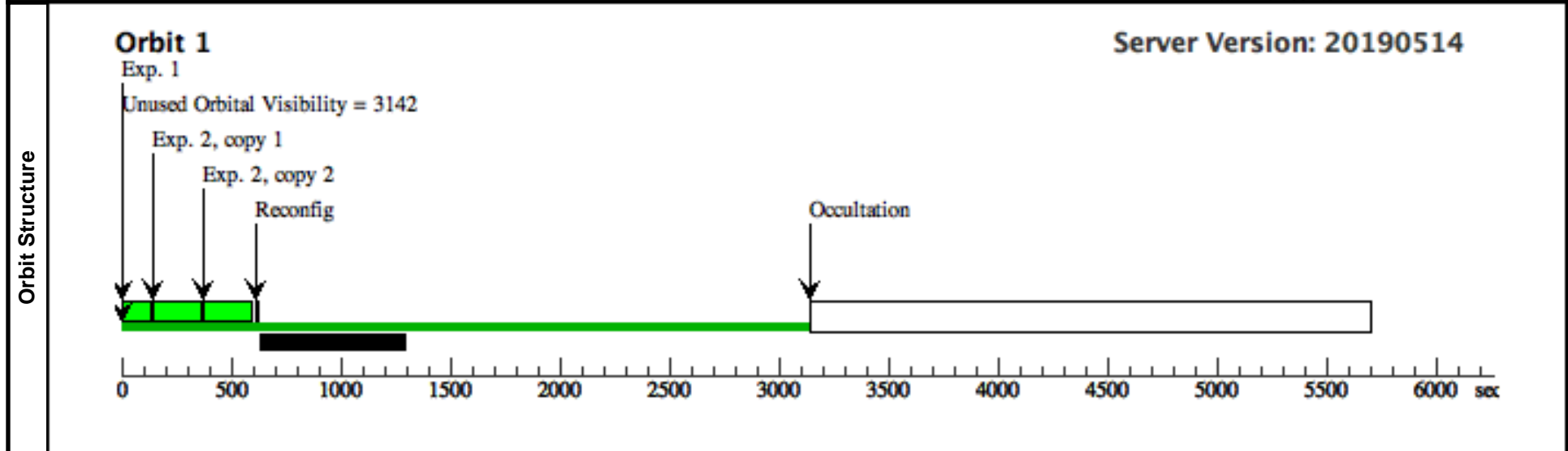
Occultation



<b>Visit</b>	<p><b>Proposal 15719, Epoch 1 (04)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 01-DEC-2019:00:00:00 AND 31-DEC-2019:00:00:00</p> <p><i>Comments: Epoch 1, nominal detector readout configuration: ABCD, gain=1.5 e-/DN, bin=NONE</i></p>
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<b>Diagnostics</b>	<p>(subarray for lamp warm up (04.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Flat8 (04.002)) 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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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	subarray for lamp warm up	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS1-M512-SUB	F645N			Sequence 1-2 Non-Int in Epoch 1 (04)	60 Secs (60 Secs) [==>]	[1]
2	Flat8	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5		Sequence 1-2 Non-Int in Epoch 1 (04)	105.0 Secs X 2 (210 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]



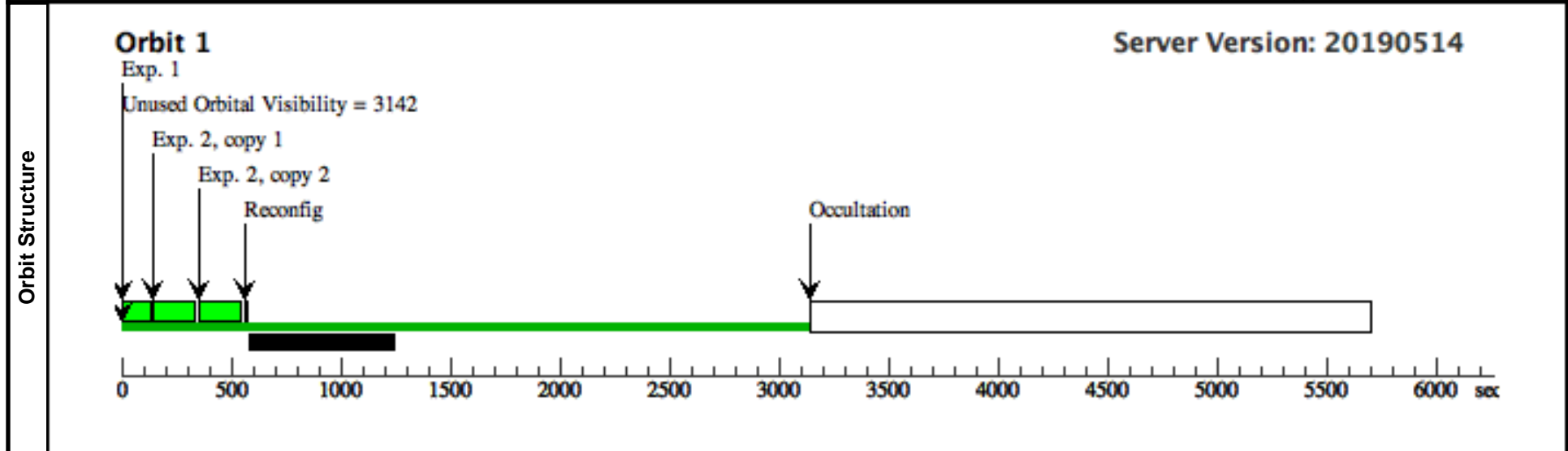
Proposal 15719 - Epoch 1 (05) - WFC3 UVIS CCD Gain Stability

Thu Jul 18 14:00:27 GMT 2019

<b>Visit</b>	<p>Proposal 15719, Epoch 1 (05)</p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 01-DEC-2019:00:00:00 AND 31-DEC-2019:00:00:00</p> <p><i>Comments: Epoch 1, nominal detector readout configuration: ABCD, gain=1.5 e-/DN, bin=NONE</i></p>
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<b>Diagnostics</b>	<p>(Subarray for lamp warm up (05.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Flat7 (05.002)) 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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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Subarray for lamp warm up	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS1-M512-SUB	F645N			Sequence 1-2 Non-Int in Epoch 1 (05)	60 Secs (60 Secs) [==>]	[1]
2	Flat7	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5		Sequence 1-2 Non-Int in Epoch 1 (05)	80.0 Secs X 2 (160 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]



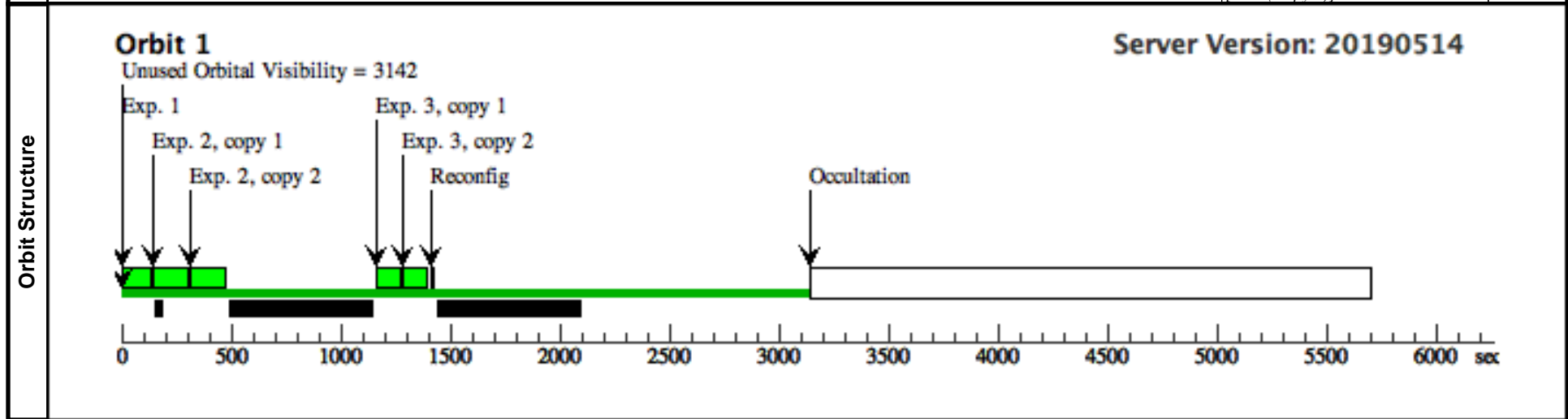
Proposal 15719 - Epoch 1 (06) - WFC3 UVIS CCD Gain Stability

Thu Jul 18 14:00:27 GMT 2019

<b>Visit</b>	<p><b>Proposal 15719, Epoch 1 (06)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 01-DEC-2019:00:00:00 AND 31-DEC-2019:00:00:00</p> <p><i>Comments: Epoch 1, nominal detector readout configuration: ABCD, gain=1.5 e-/DN, bin=NONE</i></p>
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<b>Diagnostics</b>	<p>(Epoch 1 (06)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU</p> <p>(Subarray for lamp warm up (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>(Flat6 (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>(Flat1 (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>
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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Subarray for lamp warm up	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS1-M512-SUB	F645N			Sequence 1-3 Non-Int in Epoch 1 (06)	60 Secs (60 Secs) [==>]	[1]
2	Flat6	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5		Sequence 1-3 Non-Int in Epoch 1 (06)	45.0 Secs X 2 (90 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
3	Flat1	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5		Sequence 1-3 Non-Int in Epoch 1 (06)	1.0 Secs X 2 (2 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]



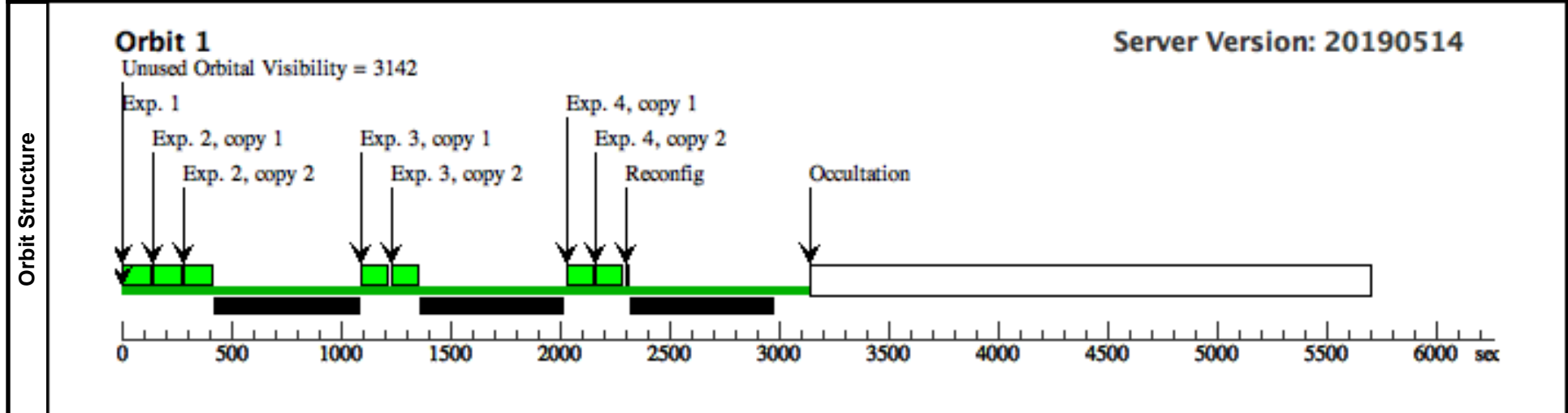
Proposal 15719 - Epoch 1 (07) - WFC3 UVIS CCD Gain Stability

Thu Jul 18 14:00:27 GMT 2019

**Visit**  
**Proposal 15719, Epoch 1 (07)**  
**Diagnostic Status: Warning**  
 Scientific Instruments: WFC3/UVIS  
 Special Requirements: BETWEEN 01-DEC-2019:00:00:00 AND 31-DEC-2019:00:00:00  
*Comments: Epoch 1, nominal detector readout configuration: ABCD, gain=1.5 e-/DN, bin=NONE*

**Diagnostics**  
 (Epoch 1 (07)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU  
 (Subarray for lamp warm up (07.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser  
 (Flat4 (07.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser  
 (Flat3 (07.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser  
 (Flat3 (07.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Subarray for lamp warm up	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS1-M512-SUB	F645N			Sequence 1-4 Non-Int in Epoch 1 (07)	60 Secs (60 Secs) [==>]	[1]
2	Flat4	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5		Sequence 1-4 Non-Int in Epoch 1 (07)	12.0 Secs X 2 (24 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
3	Flat3	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5		Sequence 1-4 Non-Int in Epoch 1 (07)	5.0 Secs X 2 (10 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
4	Flat3	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5		Sequence 1-4 Non-Int in Epoch 1 (07)	7.0 Secs X 2 (14 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]



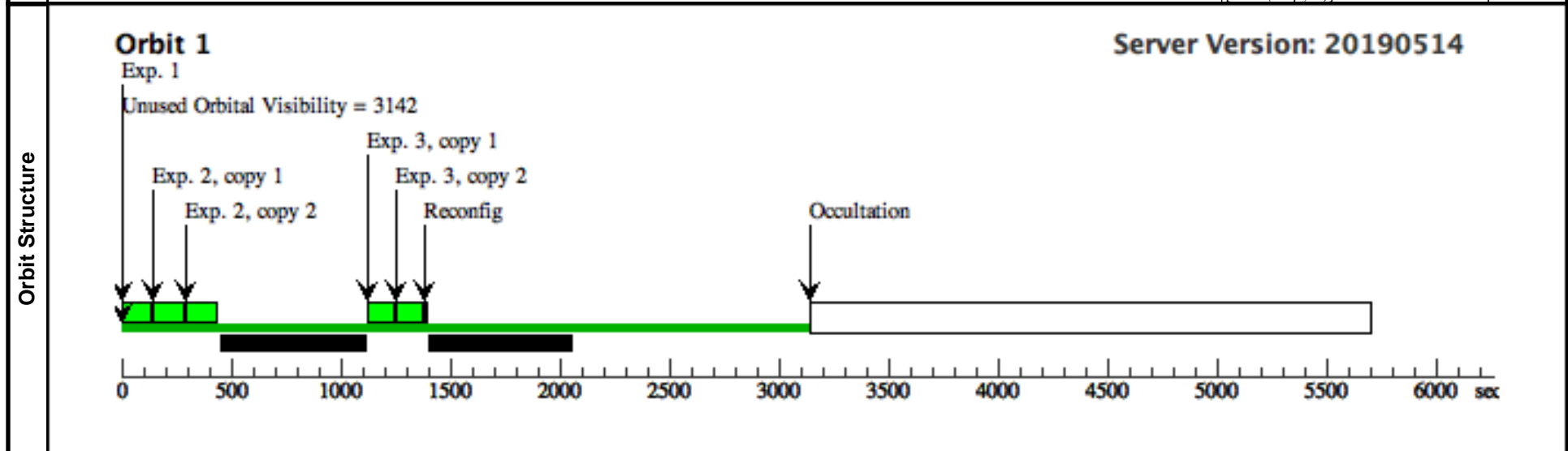
Proposal 15719 - Epoch 1 (08) - WFC3 UVIS CCD Gain Stability

Thu Jul 18 14:00:27 GMT 2019

<b>Visit</b>	<p><b>Proposal 15719, Epoch 1 (08)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 01-DEC-2019:00:00:00 AND 31-DEC-2019:00:00:00</p> <p><i>Comments: Epoch 1, nominal detector readout configuration: ABCD, gain=1.5 e-/DN, bin=NONE</i></p>
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<b>Diagnostics</b>	<p>(Epoch 1 (08)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU</p> <p>(Subarray for lamp warm up (08.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Flat5 (08.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Flat2 (08.003)) 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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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Subarray for lamp warm up	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS1-M512-SUB	F645N			Sequence 1-3 Non-Int in Epoch 1 (08)	60.0 Secs (60 Secs) [==>]	[1]
2	Flat5	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5		Sequence 1-3 Non-Int in Epoch 1 (08)	25.0 Secs X 2 (50 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
3	Flat2	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5		Sequence 1-3 Non-Int in Epoch 1 (08)	2.0 Secs X 2 (4 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]



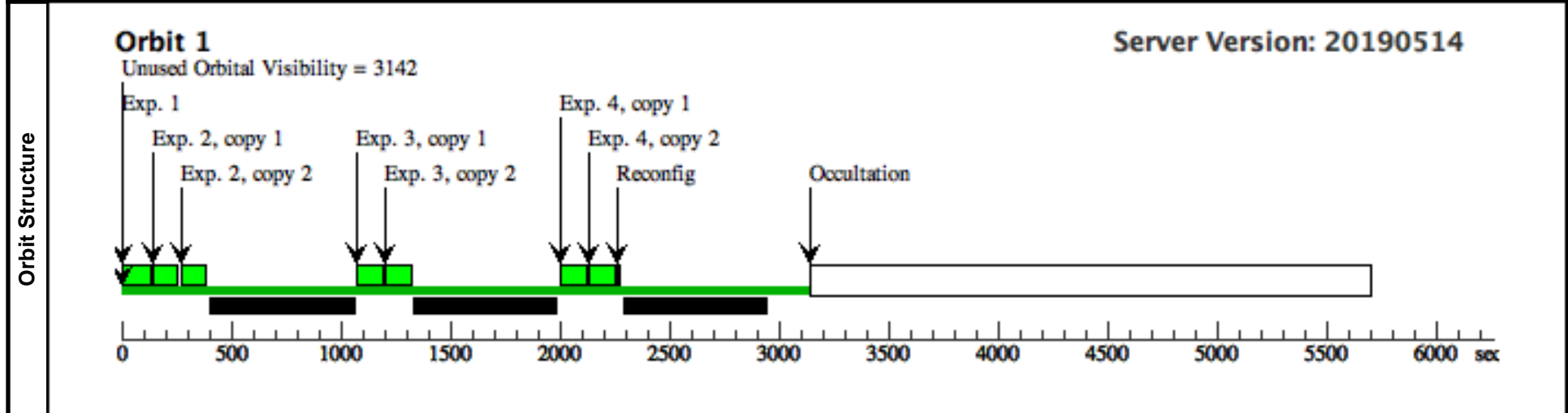
Proposal 15719 - Epoch 1 (09) - WFC3 UVIS CCD Gain Stability

Thu Jul 18 14:00:27 GMT 2019

<b>Visit</b>	<p><b>Proposal 15719, Epoch 1 (09)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 01-DEC-2019:00:00:00 AND 31-DEC-2019:00:00:00</p> <p><i>Comments: Epoch 1, nominal detector readout configuration: ABCD, gain=1.5 e-/DN, bin=NONE</i></p>
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<b>Diagnostics</b>	<p>(Epoch 1 (09)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU</p> <p>(Subarray for lamp warm up (09.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 2 (Sequence 1-4 Non-Int in Epoch 1 (09))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 3 (Sequence 1-4 Non-Int in Epoch 1 (09))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Exposure 4 (Sequence 1-4 Non-Int in Epoch 1 (09))) 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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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Subarray for lamp warm up	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS1-M512-SUB	F645N			Sequence 1-4 Non-Int in Epoch 1 (09)	60 Secs (60 Secs) [==>]	[1]
2		TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5		Sequence 1-4 Non-Int in Epoch 1 (09)	0.5 Secs X 2 (1 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
3		TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5		Sequence 1-4 Non-Int in Epoch 1 (09)	1.5 Secs X 2 (3 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
4		TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5		Sequence 1-4 Non-Int in Epoch 1 (09)	3.5 Secs X 2 (7 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]

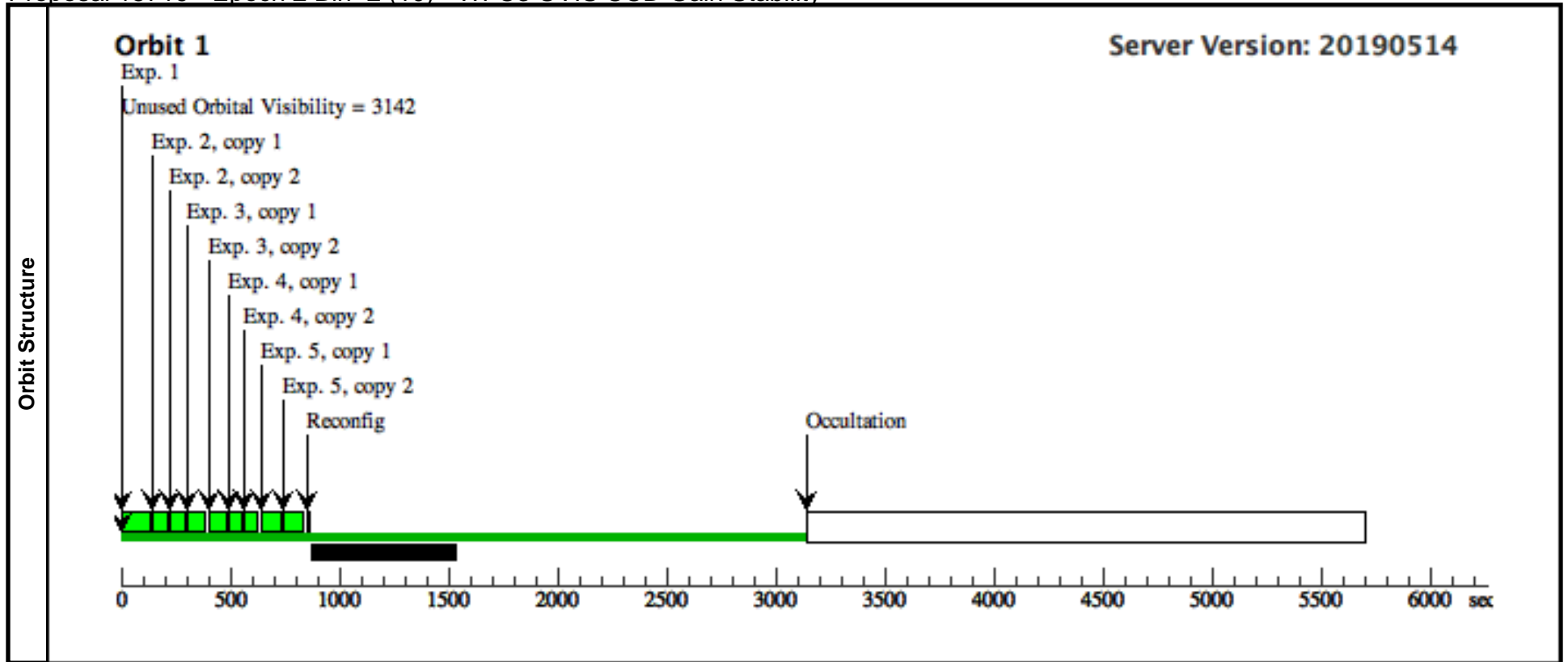


Proposal 15719 - Epoch 2 Bin=2 (10) - WFC3 UVIS CCD Gain Stability

Thu Jul 18 14:00:27 GMT 2019

Visit	<b>Proposal 15719, Epoch 2 Bin=2 (10)</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-JUN-2020:00:00:00 AND 30-JUN-2020:00:00:00 Comments: BIN=2									
	Diagnosics	(subarray for lamp warmup (10.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Flat4 (10.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Flat6 (10.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Flat1 (10.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Flat8 (10.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser								
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]
	1	subarray for lamp warmup	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS1-M512-SUB	F645N			Sequence 1-5 Non-Int in Epoch 2 Bin=2 (10)	60 Secs (60 Secs) [==>]	[1]
	2	Flat4	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=2		Sequence 1-5 Non-Int in Epoch 2 Bin=2 (10)	6.0 Secs X 2 (12 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
	3	Flat6	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=2		Sequence 1-5 Non-Int in Epoch 2 Bin=2 (10)	17.0 Secs X 2 (34 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
	4	Flat1	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=2		Sequence 1-5 Non-Int in Epoch 2 Bin=2 (10)	0.5 Secs X 2 (1 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
	5	Flat8	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=2		Sequence 1-5 Non-Int in Epoch 2 Bin=2 (10)	30.0 Secs X 2 (60 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]

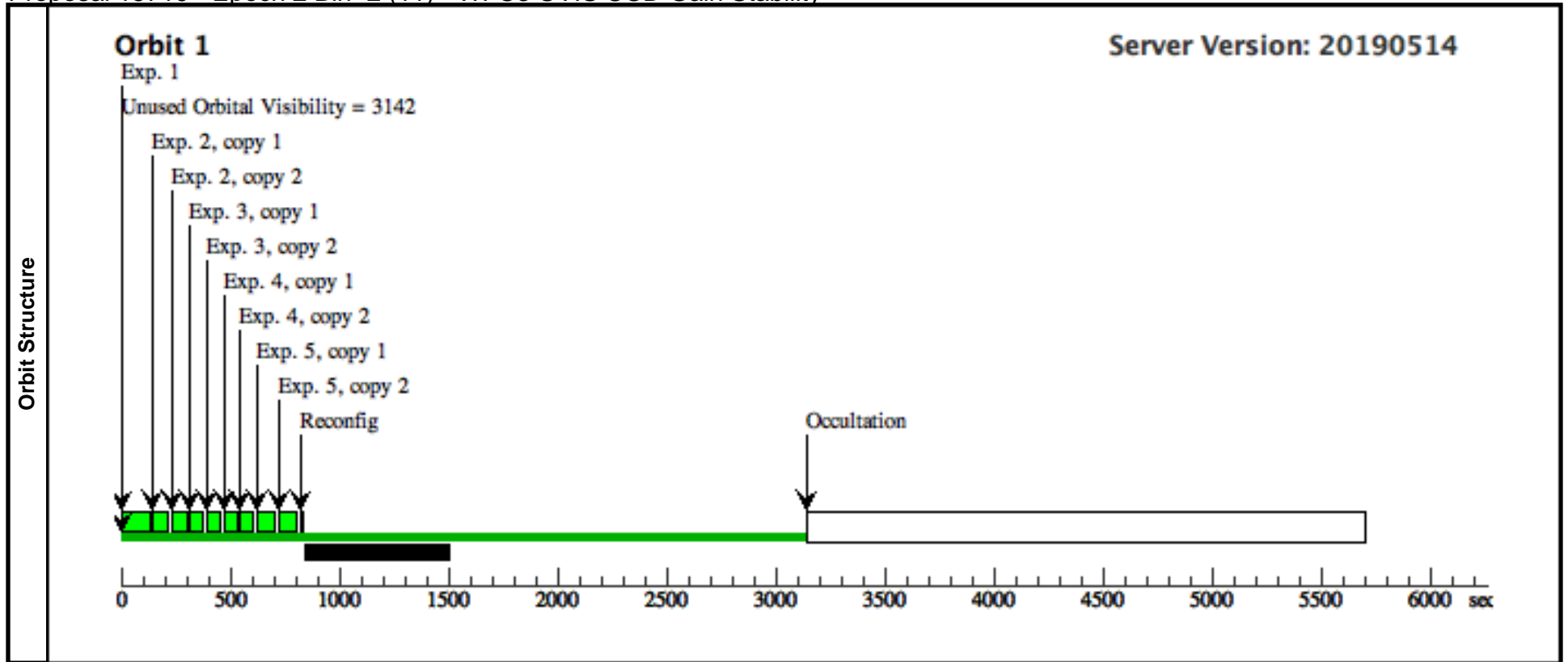




Proposal 15719 - Epoch 2 Bin=2 (11) - WFC3 UVIS CCD Gain Stability

Thu Jul 18 14:00:27 GMT 2019

Visit	<b>Proposal 15719, Epoch 2 Bin=2 (11)</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-JUN-2020:00:00:00 AND 30-JUN-2020:00:00:00 Comments: BIN=2										
	Diagnostics	(subarray for lamp warmup (11.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Flat5 (11.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Flat2 (11.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Flat3 (11.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Flat7 (11.005)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	subarray for lamp warmup	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS1-M512-SUB	F645N				Sequence 1-5 Non-Int in Epoch 2 Bin=2 (11)	60 Secs (60 Secs) [==>]	[1]
	2	Flat5	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=2			Sequence 1-5 Non-Int in Epoch 2 Bin=2 (11)	11.0 Secs X 2 (22 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
	3	Flat2	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=2			Sequence 1-5 Non-Int in Epoch 2 Bin=2 (11)	1.0 Secs X 2 (2 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
	4	Flat3	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=2			Sequence 1-5 Non-Int in Epoch 2 Bin=2 (11)	2.0 Secs X 2 (4 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
	5	Flat7	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=2			Sequence 1-5 Non-Int in Epoch 2 Bin=2 (11)	24.0 Secs X 2 (48 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]



Proposal 15719 - Epoch 2 Bin=3 (12) - WFC3 UVIS CCD Gain Stability

Thu Jul 18 14:00:27 GMT 2019

<b>Visit</b>	<p><b>Proposal 15719, Epoch 2 Bin=3 (12)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 01-JUN-2020:00:00:00 AND 30-JUN-2020:00:00:00</p> <p><i>Comments: BIN=3</i></p>
<b>Diagnostics</b>	<p>(subarray for lamp warmup (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>(Flat1 (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>(Flat2 (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>(Flat3 (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>(Flat4 (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>(Flat5 (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>(Flat6 (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>(Flat7 (12.008)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Flat8 (12.009)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Flat9 (12.010)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>

Proposal 15719 - Epoch 2 Bin=3 (12) - WFC3 UVIS CCD Gain Stability

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	subarray for lamp warmup	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS1-M512-SUB	F645N				Sequence 1-10 Non-Int in Epoch 2 Bin=3 (12)	60 Secs (60 Secs) [==>]	[1]
	2	Flat1	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=3			Sequence 1-10 Non-Int in Epoch 2 Bin=3 (12)	5.0 Secs X 2 (10 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
	3	Flat2	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=3			Sequence 1-10 Non-Int in Epoch 2 Bin=3 (12)	1.0 Secs X 2 (2 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
	4	Flat3	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=3			Sequence 1-10 Non-Int in Epoch 2 Bin=3 (12)	7.0 Secs X 2 (14 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
	5	Flat4	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=3			Sequence 1-10 Non-Int in Epoch 2 Bin=3 (12)	3.0 Secs X 2 (6 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
	6	Flat5	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=3			Sequence 1-10 Non-Int in Epoch 2 Bin=3 (12)	0.5 Secs X 2 (1 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
	7	Flat6	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=3			Sequence 1-10 Non-Int in Epoch 2 Bin=3 (12)	9.0 Secs X 2 (18 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
	8	Flat7	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=3			Sequence 1-10 Non-Int in Epoch 2 Bin=3 (12)	2.0 Secs X 2 (4 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
	9	Flat8	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=3			Sequence 1-10 Non-Int in Epoch 2 Bin=3 (12)	11.0 Secs X 2 (22 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
10	Flat9	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5; BIN=3			Sequence 1-10 Non-Int in Epoch 2 Bin=3 (12)	13.0 Secs X 2 (26 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]	

Orbit Structure

**Orbit 1**

Exp. 1

Unused Orbital Visibility = 3142

Exp. 2, copy 1

Exp. 2, copy 2

Exp. 3, copy 1

Exp. 3, copy 2

Exp. 4, copy 1

Exp. 4, copy 2

Exp. 5, copy 1

Exp. 5, copy 2

Exp. 6, copy 1

Exp. 6, copy 2

Exp. 7, copy 1

Exp. 7, copy 2

Exp. 8, copy 1

Exp. 8, copy 2

Exp. 9, copy 1

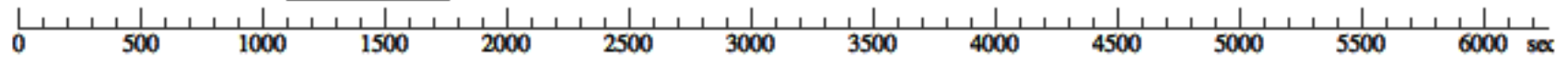
Exp. 9, copy 2

Exp. 10, copy 1

Exp. 10, copy 2

Reconfig

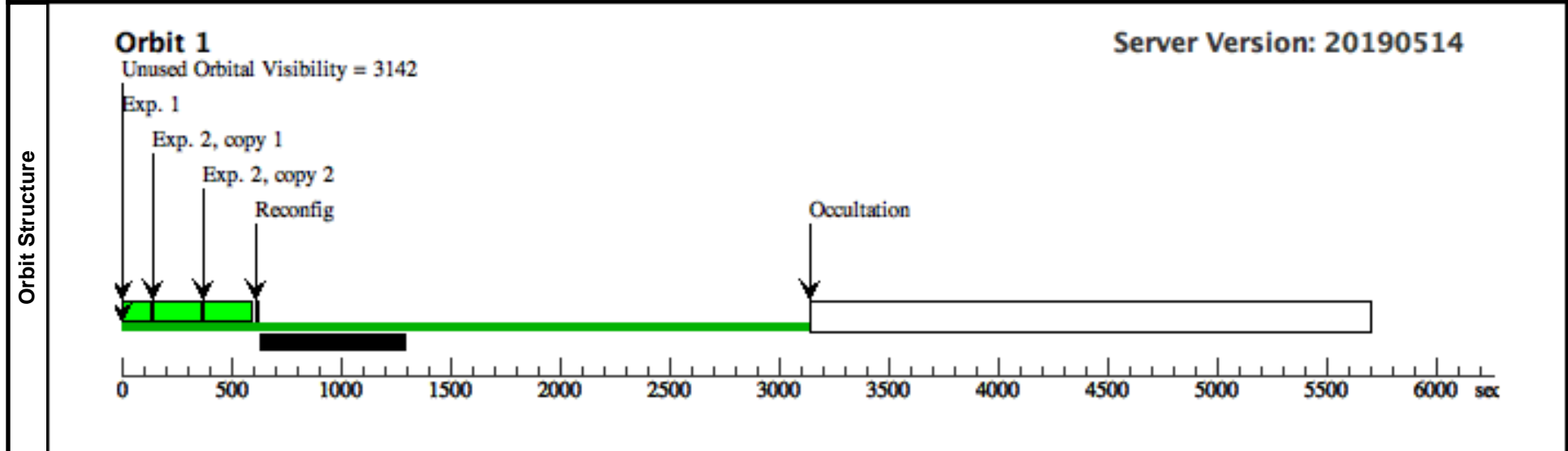
Occultation



<b>Visit</b>	<p>Proposal 15719, Epoch 2 (13)</p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 01-JUN-2020:00:00:00 AND 30-JUN-2020:00:00:00</p> <p><i>Comments: Epoch 2, nominal detector readout configuration: ABCD, gain=1.5 e-/DN, bin=NONE</i></p>
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<b>Diagnostics</b>	<p>(subarray for lamp warm up (13.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Flat8 (13.002)) 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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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	subarray for lamp warm up	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS1-M512-SUB	F645N			Sequence 1-2 Non-Int in Epoch 2 (13)	60 Secs (60 Secs) [==>]	[1]
2	Flat8	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5		Sequence 1-2 Non-Int in Epoch 2 (13)	105.0 Secs X 2 (210 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]



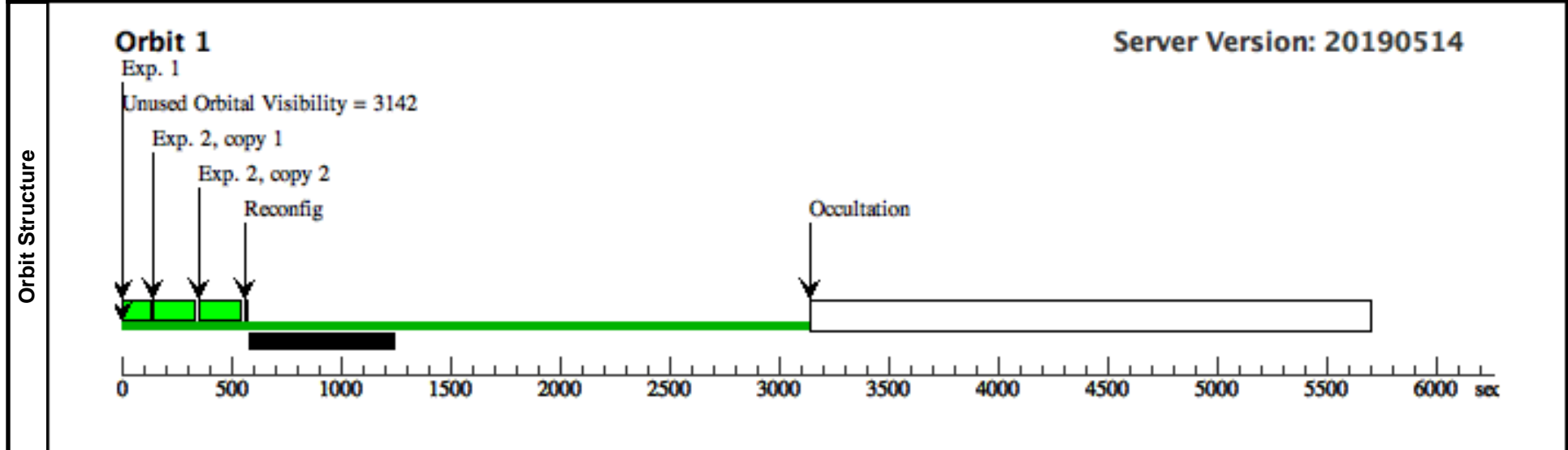
Proposal 15719 - Epoch 2 (14) - WFC3 UVIS CCD Gain Stability

Thu Jul 18 14:00:27 GMT 2019

<b>Visit</b>	<p>Proposal 15719, Epoch 2 (14)</p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 01-JUN-2020:00:00:00 AND 30-JUN-2020:00:00:00</p> <p><i>Comments: Epoch 2, nominal detector readout configuration: ABCD, gain=1.5 e-/DN, bin=NONE</i></p>
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<b>Diagnostics</b>	<p>(Subarray for lamp warm up (14.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Flat7 (14.002)) 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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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Subarray for lamp warm up	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS1-M512-SUB	F645N			Sequence 1-2 Non-Int in Epoch 2 (14)	60 Secs (60 Secs) [==>]	[1]
2	Flat7	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5		Sequence 1-2 Non-Int in Epoch 2 (14)	80.0 Secs X 2 (160 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]





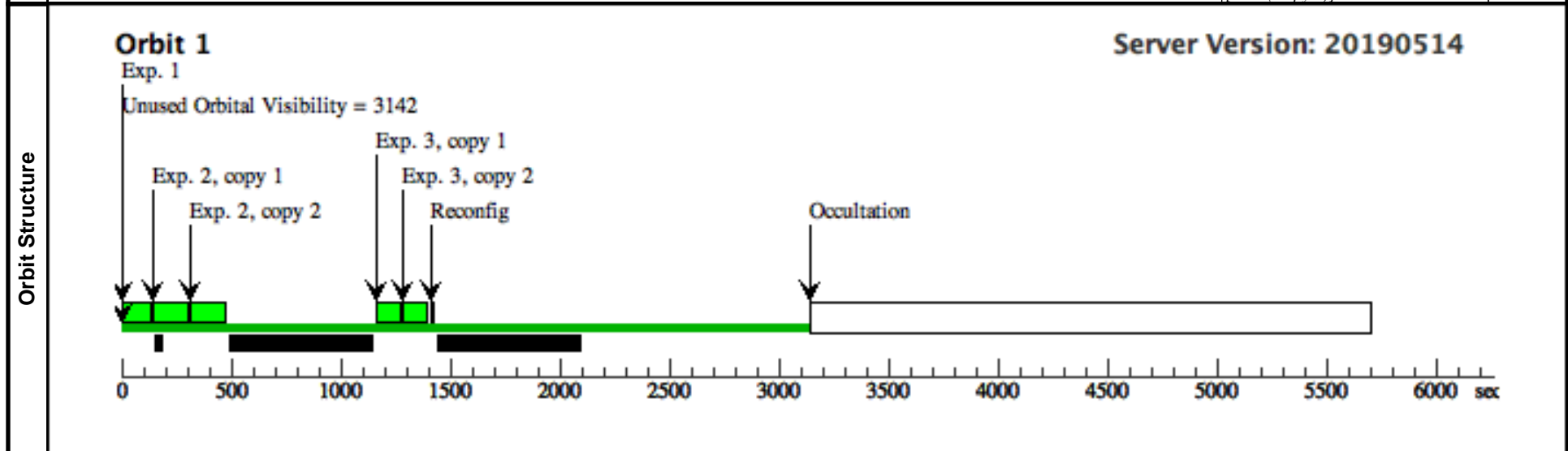
Proposal 15719 - Epoch 2 (15) - WFC3 UVIS CCD Gain Stability

Thu Jul 18 14:00:28 GMT 2019

<b>Visit</b>	<p>Proposal 15719, Epoch 2 (15)</p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 01-JUN-2020:00:00:00 AND 30-JUN-2020:00:00:00</p> <p><i>Comments: Epoch 2, nominal detector readout configuration: ABCD, gain=1.5 e-/DN, bin=NONE</i></p>
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<b>Diagnostics</b>	<p>(Epoch 2 (15)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU</p> <p>(Subarray for lamp warm up (15.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Flat6 (15.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Flat1 (15.003)) 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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<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Subarray for lamp warm up	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS1-M512-SUB	F645N				Sequence 1-3 Non-Int in Epoch 2 (15)	60 Secs (60 Secs) [==>]	[1]
2	Flat6	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5			Sequence 1-3 Non-Int in Epoch 2 (15)	45.0 Secs X 2 (90 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
3	Flat1	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5			Sequence 1-3 Non-Int in Epoch 2 (15)	1.0 Secs X 2 (2 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]



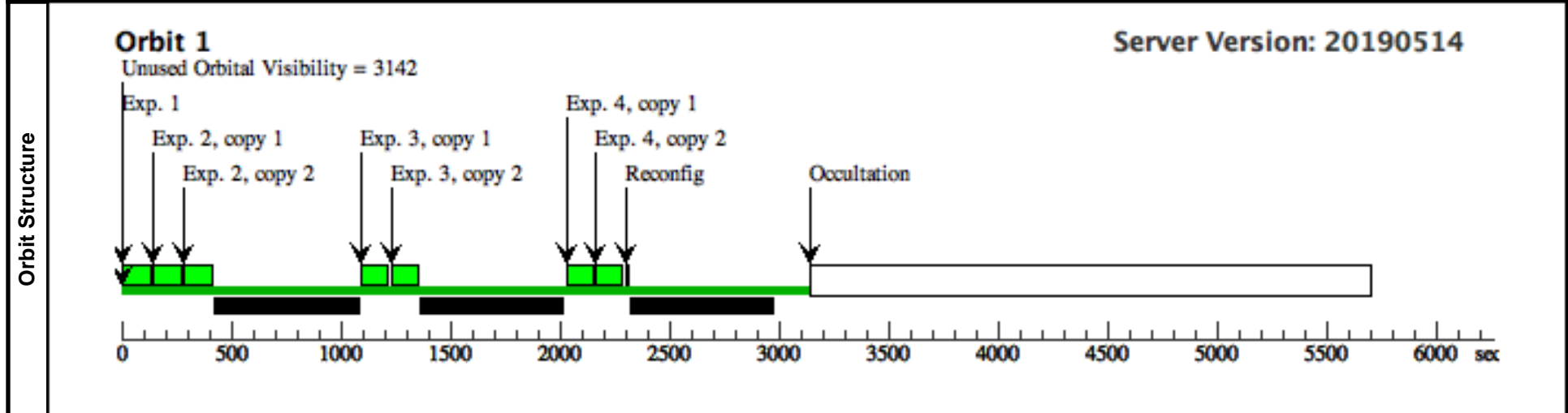
Proposal 15719 - Epoch 2 (16) - WFC3 UVIS CCD Gain Stability

Thu Jul 18 14:00:28 GMT 2019

**Visit**  
**Proposal 15719, Epoch 2 (16)**  
**Diagnostic Status: Warning**  
 Scientific Instruments: WFC3/UVIS  
 Special Requirements: BETWEEN 01-JUN-2020:00:00:00 AND 30-JUN-2020:00:00:00  
*Comments: Epoch 2, nominal detector readout configuration: ABCD, gain=1.5 e-/DN, bin=NONE*

**Diagnostics**  
 (Epoch 2 (16)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU  
 (Subarray for lamp warm up (16.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser  
 (Flat4 (16.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser  
 (Flat3 (16.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser  
 (Flat3 (16.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Subarray for lamp warm up	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS1-M512-SUB	F645N			Sequence 1-4 Non-Int in Epoch 2 (16)	60 Secs (60 Secs) [==>]	[1]
2	Flat4	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5		Sequence 1-4 Non-Int in Epoch 2 (16)	12.0 Secs X 2 (24 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
3	Flat3	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5		Sequence 1-4 Non-Int in Epoch 2 (16)	5.0 Secs X 2 (10 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
4	Flat3	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5		Sequence 1-4 Non-Int in Epoch 2 (16)	7.0 Secs X 2 (14 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]



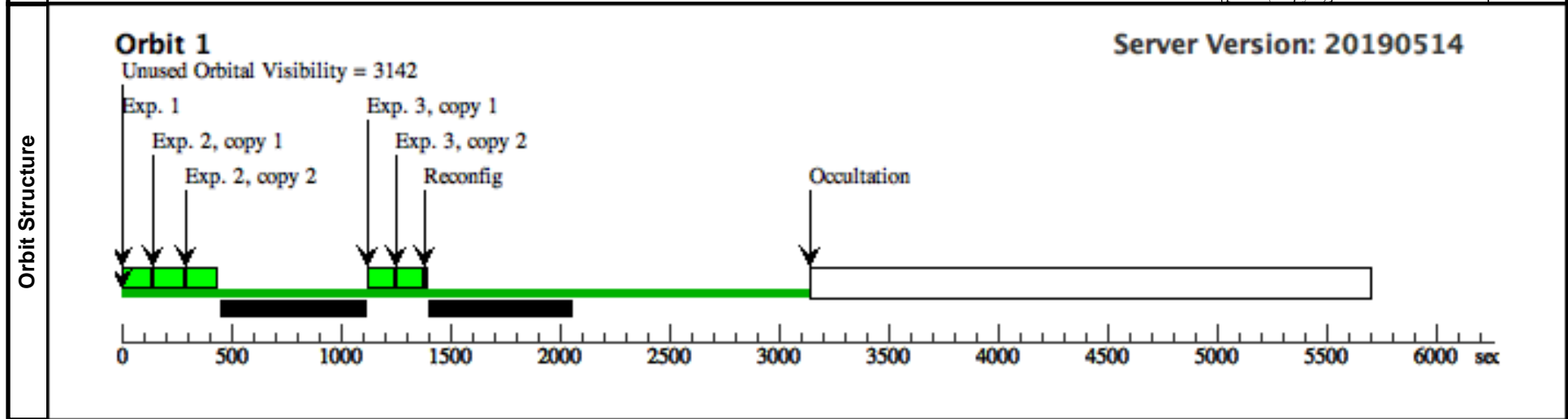
Proposal 15719 - Epoch 2 (17) - WFC3 UVIS CCD Gain Stability

Thu Jul 18 14:00:28 GMT 2019

<b>Visit</b>	<p><b>Proposal 15719, Epoch 2 (17)</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 01-JUN-2020:00:00:00 AND 30-JUN-2020:00:00:00</p> <p><i>Comments: Epoch 2, nominal detector readout configuration: ABCD, gain=1.5 e-/DN, bin=NONE</i></p>
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<b>Diagnostics</b>	<p>(Epoch 2 (17)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU</p> <p>(Subarray for lamp warm up (17.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Flat5 (17.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(Flat2 (17.003)) 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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<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Subarray for lamp warm up	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS1-M512-SUB	F645N				Sequence 1-3 Non-Int in Epoch 2 (17)	60.0 Secs (60 Secs) [==>]
2	Flat5	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5			Sequence 1-3 Non-Int in Epoch 2 (17)	25.0 Secs X 2 (50 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
3	Flat2	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5			Sequence 1-3 Non-Int in Epoch 2 (17)	2.0 Secs X 2 (4 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]



Proposal 15719 - Epoch 2 (18) - WFC3 UVIS CCD Gain Stability

Thu Jul 18 14:00:28 GMT 2019

**Visit**  
**Proposal 15719, Epoch 2 (18)**  
**Diagnostic Status: Warning**  
 Scientific Instruments: WFC3/UVIS  
 Special Requirements: BETWEEN 01-JUN-2020:00:00:00 AND 30-JUN-2020:00:00:00  
*Comments: Epoch 2, nominal detector readout configuration: ABCD, gain=1.5 e-/DN, bin=NONE*

**Diagnostics**  
 (Epoch 2 (18)) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU  
 (Subarray for lamp warm up (18.001)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser  
 (Exposure 2 (Sequence 1-4 Non-Int in Epoch 2 (18))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser  
 (Exposure 3 (Sequence 1-4 Non-Int in Epoch 2 (18))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser  
 (Exposure 4 (Sequence 1-4 Non-Int in Epoch 2 (18))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Subarray for lamp warm up	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS1-M512-SUB	F645N			Sequence 1-4 Non-Int in Epoch 2 (18)	60 Secs (60 Secs) [==>]	[1]
2		TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5		Sequence 1-4 Non-Int in Epoch 2 (18)	0.5 Secs X 2 (1 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
3		TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5		Sequence 1-4 Non-Int in Epoch 2 (18)	1.5 Secs X 2 (3 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]
4		TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F645N	GAIN=1.5		Sequence 1-4 Non-Int in Epoch 2 (18)	3.5 Secs X 2 (7 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]

