



## 17691 - WFC3 IR Internal Flats

Cycle: 32, Proposal Category: CAL/WFC3

(Availability Mode: RESTRICTED)

### INVESTIGATORS

<i>Name</i>	<i>Institution</i>
<b>Dr. Joel David Green (PI) (Contact)</b>	<b>Space Telescope Science Institute</b>
Benjamin Kuhn (CoI) (Contact)	Space Telescope Science Institute

### 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/IR	1	15-Jul-2024 15:00:52.0	yes
02	TUNGSTEN	WFC3/IR	1	15-Jul-2024 15:00:53.0	yes
03	TUNGSTEN	WFC3/IR	1	15-Jul-2024 15:00:53.0	yes
04	TUNGSTEN	WFC3/IR	1	15-Jul-2024 15:00:53.0	yes
05	TUNGSTEN	WFC3/IR	1	15-Jul-2024 15:00:54.0	yes
06	TUNGSTEN	WFC3/IR	1	15-Jul-2024 15:00:54.0	yes
07	TUNGSTEN	WFC3/IR	1	15-Jul-2024 15:00:54.0	yes
08	TUNGSTEN	WFC3/IR	1	15-Jul-2024 15:00:55.0	yes
09	TUNGSTEN	WFC3/IR	1	15-Jul-2024 15:00:55.0	yes
10	TUNGSTEN	WFC3/IR	1	15-Jul-2024 15:00:55.0	yes
11	TUNGSTEN	WFC3/IR	1	15-Jul-2024 15:00:55.0	yes
12	TUNGSTEN	WFC3/IR	1	15-Jul-2024 15:00:56.0	yes
13	TUNGSTEN	WFC3/IR	1	15-Jul-2024 15:00:56.0	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>
14	TUNGSTEN	WFC3/IR	1	15-Jul-2024 15:00:57.0	yes
15	TUNGSTEN	WFC3/IR	1	15-Jul-2024 15:00:57.0	yes
16	TUNGSTEN	WFC3/IR	1	15-Jul-2024 15:00:58.0	yes
17	TUNGSTEN	WFC3/IR	1	15-Jul-2024 15:00:58.0	yes
18	TUNGSTEN	WFC3/IR	1	15-Jul-2024 15:00:59.0	yes

18 Total Orbits Used

### **ABSTRACT**

This is a continuation of programs 11433 (SMOV), 11915 (Cy 17), 12338 (Cy 18), 12712 (Cy 19), 13098 (Cy 20), 13587 (Cy 21), 14029 (Cy 22), 14391 (Cy23), 14548 (Cy24), 14998 (Cy25), 15591 (Cy26), 15731 (Cy27), 16411 (Cy28), 16586 (Cy29), 17021 (Cy30), and 17370 (Cy31). We study the stability and structure of the IR channel flat field images through all filter elements. Flats are monitored, to capture any temporal trends and delta flats are produced. High signal observations will provide a map of the pixel-to-pixel flat field structure, as well as identify the positions of any dust particles.

This version contains a full set of IR filter exposures once in the middle of the cycle. In addition we will acquire 3 exposures in each of the broadband filters F105W, F110W, F125W, F140W, and F160W twice during the cycle. This work builds on the ISR of Ryan & Baggett (2015-011), Ryan (2019-06), and Green & Shenoy (2024-xx, forthcoming).

### ----- Calibration Justification -----

The target electrons per pixel is 40,000 - 60,000, so that the Poisson noise of an individual pixel and a single exposure will be 0.5%, comparable to or smaller than any individual astronomical image made by WFC3 IR. With 2 well-exposed flats per medium- and narrow-band filter, the Poisson-limited noise after combining 2 individuals will be ~1.4x smaller. For the broad-band filters, we can combine 3 exposures to produce bi-monthly flats, or combine a total of 18 exposures for a extremely low noise flats in the case temporal variations are limited.

Analysis results will be detailed in an ISR (Green+24, in prep).

### **OBSERVING DESCRIPTION**

In this program, we study the stability and structure of the IR channel flat field images through all filter elements. Flats will be monitored to capture any trends over time in the flat fields and delta flats produced. High signal observations will provide a map of the pixel-to-pixel flat field structure, as well as identify the position of any dust particles. This version contains a full set of IR filter exposures once in the middle of the cycle. In addition, we will acquire 3 exposures in each of the broadband filters F105W, F110W, F125W, F140W, and F160W twice during the cycle.

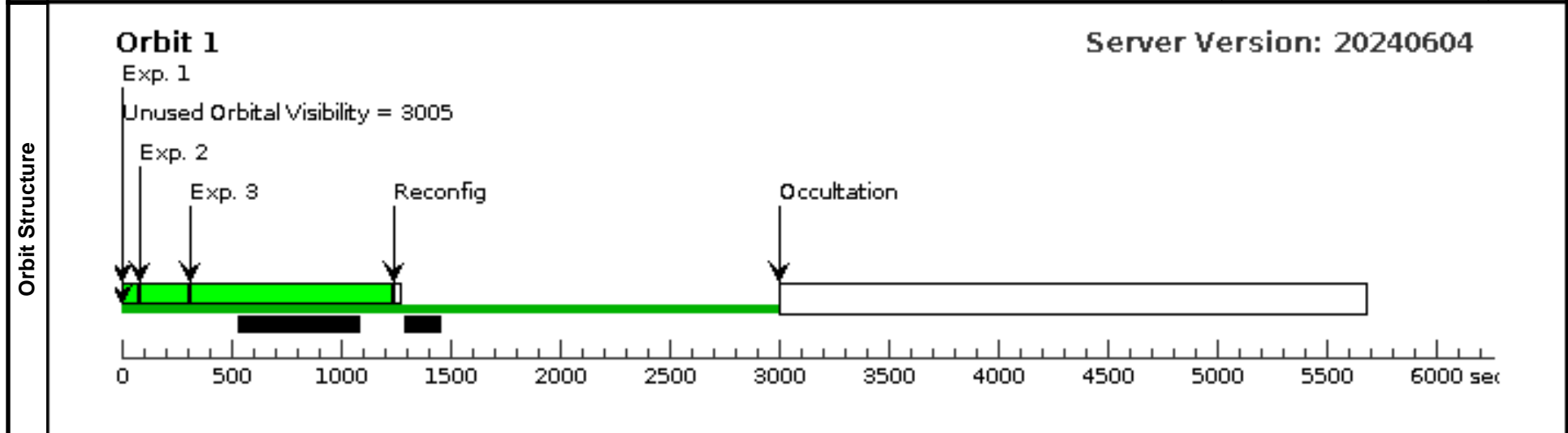
Proposal 17691 - Visit 01 - WFC3 IR Internal Flats

Mon Jul 15 19:00:59 GMT 2024

<b>Visit</b>	<b>Proposal 17691, Visit 01</b>									
	<b>Diagnostic Status: No Diagnostics</b>									
	Scientific Instruments: WFC3/IR									
	Special Requirements: BETWEEN 01-APR-2025:00:00:00 AND 01-MAY-2025:00:00:00									

*Comments: Part of an mid cycle group of visits in all filters.*

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F140W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=13; SAMP-SEQ=RAPID			38.119783 Secs (38.12 Secs)	[1]
	2	F153M	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=9; SAMP-SEQ=SPARS25			202.936411 Secs (202.936 Secs)	[1]
	3	F130N	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F130N	NSAMP=10; SAMP-SEQ=SPARS100			902.935198 Secs (902.935 Secs)	[1]



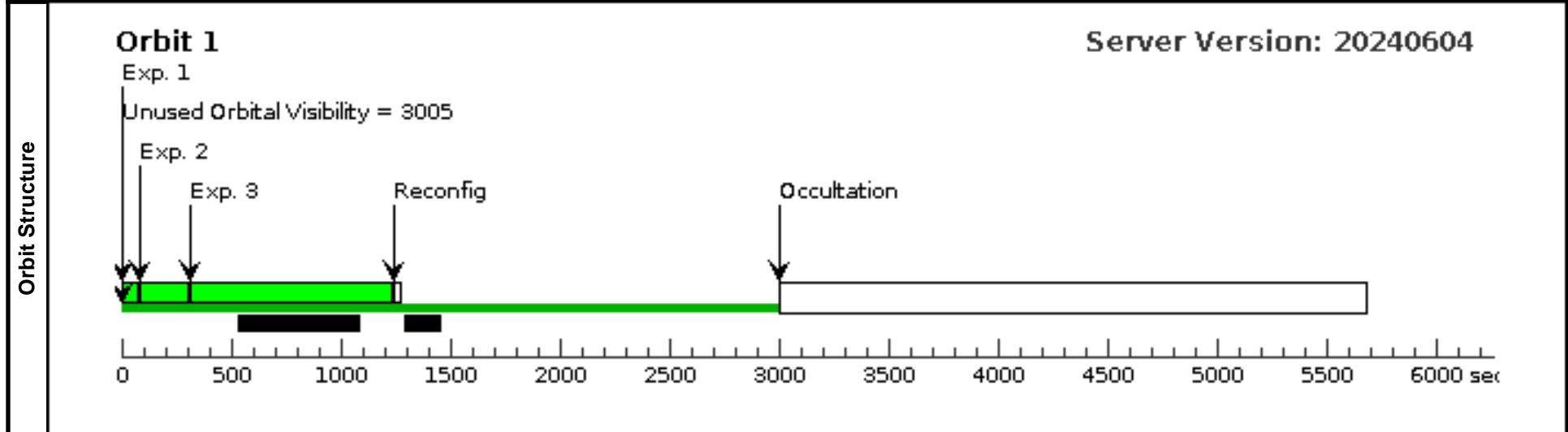
Proposal 17691 - Visit 02 - WFC3 IR Internal Flats

Mon Jul 15 19:00:59 GMT 2024

<b>Visit</b>	<b>Proposal 17691, Visit 02</b>									
	<b>Diagnostic Status: No Diagnostics</b>									
	Scientific Instruments: WFC3/IR									
	Special Requirements: GROUP 02,01,03,04,05,06,07,08,09,10,11,12 WITHIN 45D									

*Comments: Part of an mid cycle group of visits in all filters.*

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F140W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=13; SAMP-SEQ=RAPID			38.119783 Secs (38.12 Secs)	[1]
	2	F153M	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F153M	NSAMP=9; SAMP-SEQ=SPARS25			202.936411 Secs (202.936 Secs)	[1]
	3	F130N	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F130N	NSAMP=10; SAMP-SEQ=SPARS100			902.935198 Secs (902.935 Secs)	[1]



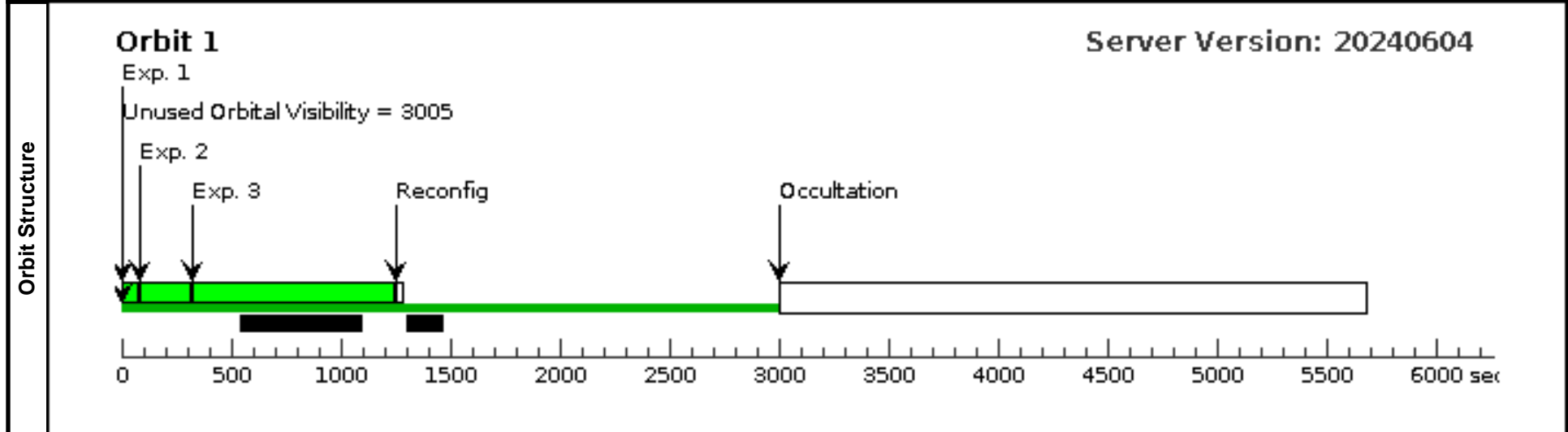
Proposal 17691 - Visit 03 - WFC3 IR Internal Flats

Mon Jul 15 19:00:59 GMT 2024

<b>Visit</b>	<b>Proposal 17691, Visit 03</b>									
	<b>Diagnostic Status: No Diagnostics</b>									
	Scientific Instruments: WFC3/IR									
	Special Requirements: GROUP 03,01,02,04,05,06,07,08,09,10,11,12 WITHIN 45D									

*Comments: Part of a mid cycle group of visits in all filters.*

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F110W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=13; SAMP-SEQ=RAPID			38.119783 Secs (38.12 Secs)	[1]
	2	F127M	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=SPARS25			202.936411 Secs (202.936 Secs)	[1]
	3	F132N	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F132N	NSAMP=10; SAMP-SEQ=SPARS100			902.935198 Secs (902.935 Secs)	[1]

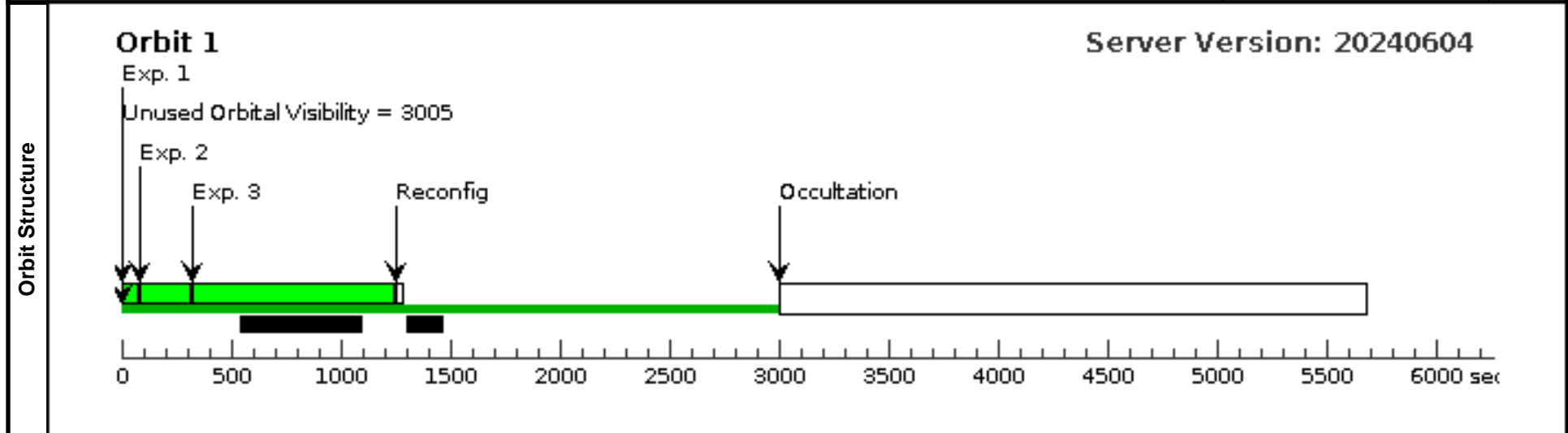


Proposal 17691 - Visit 04 - WFC3 IR Internal Flats

Mon Jul 15 19:00:59 GMT 2024

<b>Visit</b>	<b>Proposal 17691, Visit 04</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: GROUP 04,01,02,03,05,06,07,08,09,10,11,12 WITHIN 45D; SEQ 04,05 WITHIN 7 D <i>Comments: Part of a mid cycle group of visits in all filters.</i>									

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1	F110W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=13; SAMP-SEQ=RAPID			38.119783 Secs (38.12 Secs) [==>]
	2	F127M	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F127M	NSAMP=9; SAMP-SEQ=SPARS25			202.936411 Secs (202.936 Secs) [==>]	[1]
	3	F132N	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F132N	NSAMP=10; SAMP-SEQ=SPARS100			902.935198 Secs (902.935 Secs) [==>]	[1]

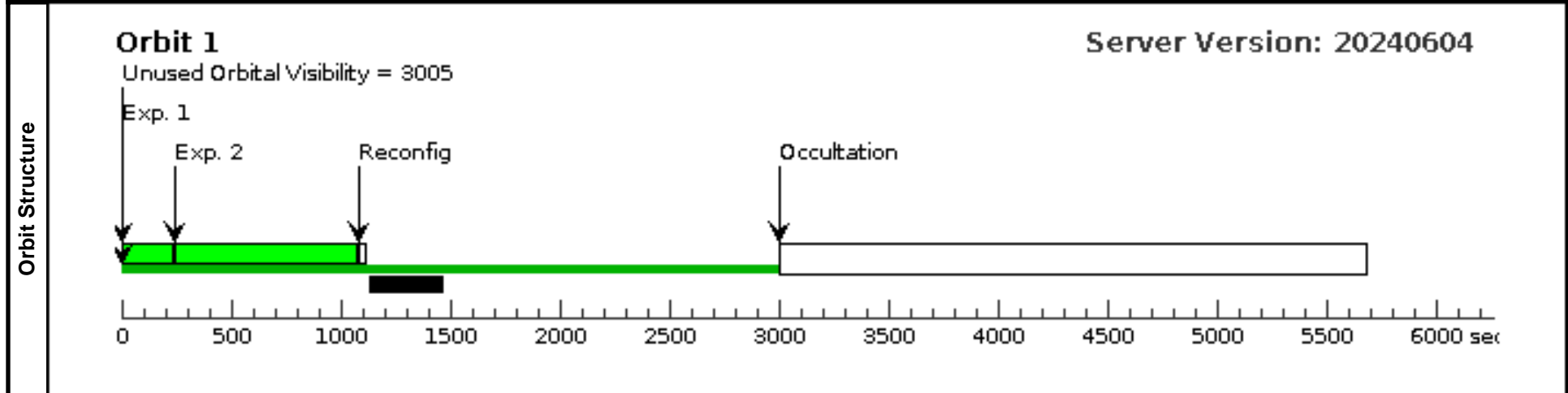


Proposal 17691 - Visit 05 - WFC3 IR Internal Flats

Mon Jul 15 19:00:59 GMT 2024

<b>Visit</b>	<b>Proposal 17691, Visit 05</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: GROUP 05,01,02,03,04,06,07,08,09,10,11,12 WITHIN 45D <i>Comments: Part of a mid cycle group of visits in all filters.</i>							

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1	F098M	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F098M	NSAMP=5; SAMP-SEQ=SPAR S50			202.934095 Secs (202.934 Secs) [==>]
	2	F167N	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F167N	NSAMP=9; SAMP-SEQ=SPAR S100			802.934875 Secs (802.935 Secs) [==>]	[1]

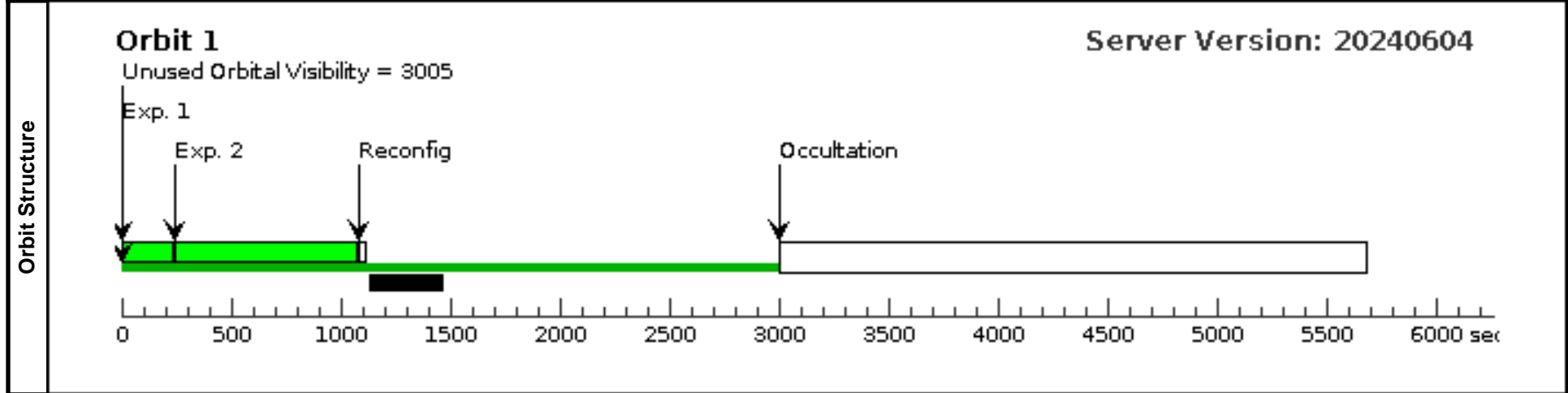


Proposal 17691 - Visit 06 - WFC3 IR Internal Flats

Mon Jul 15 19:00:59 GMT 2024

<b>Visit</b>	<b>Proposal 17691, Visit 06</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: GROUP 06,01,02,03,04,05,07,08,09,10,11,12 WITHIN 45D; SEQ 06,07 WITHIN 7 D <i>Comments: Part of a mid cycle group of visits in all filters.</i>							

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1	F098M	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F098M	NSAMP=5; SAMP-SEQ=SPAR S50			202.934095 Secs (202.934 Secs) [==>]
	2	F167N	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F167N	NSAMP=9; SAMP-SEQ=SPAR S100			802.934875 Secs (802.935 Secs) [==>]	[1]

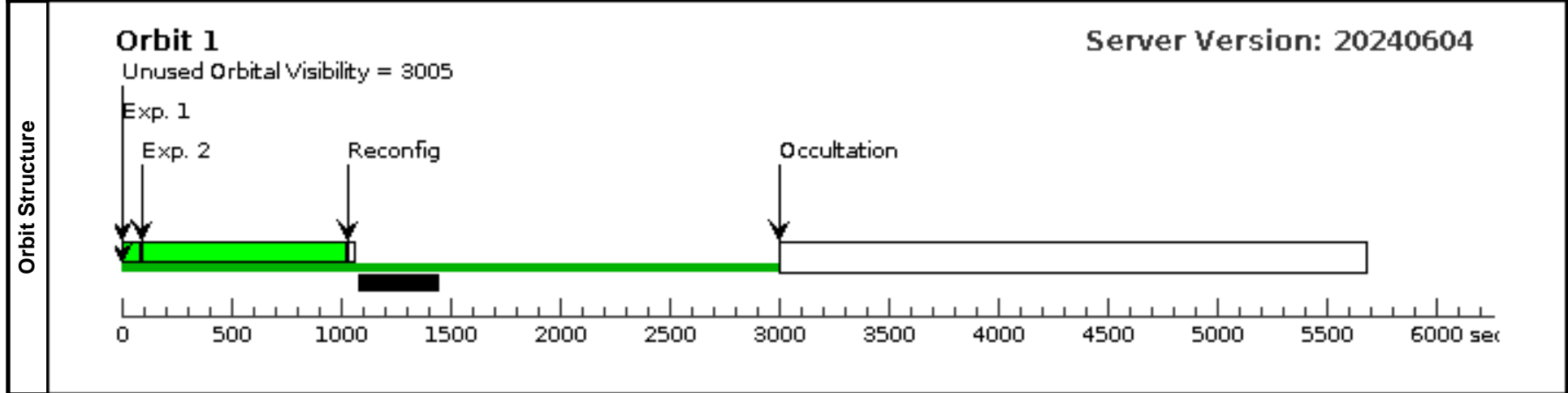


Proposal 17691 - Visit 07 - WFC3 IR Internal Flats

Mon Jul 15 19:00:59 GMT 2024

<b>Visit</b>	<b>Proposal 17691, Visit 07</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: GROUP 07,01,02,03,04,05,06,08,09,10,11,12 WITHIN 45D Comments: Part of a mid cycle group of visits in all filters.									

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1	F125W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]
	2	F128N	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F128N	NSAMP=10; SAMP-SEQ=SPAR S100			902.935198 Secs (902.935 Secs) [==>]	[1]

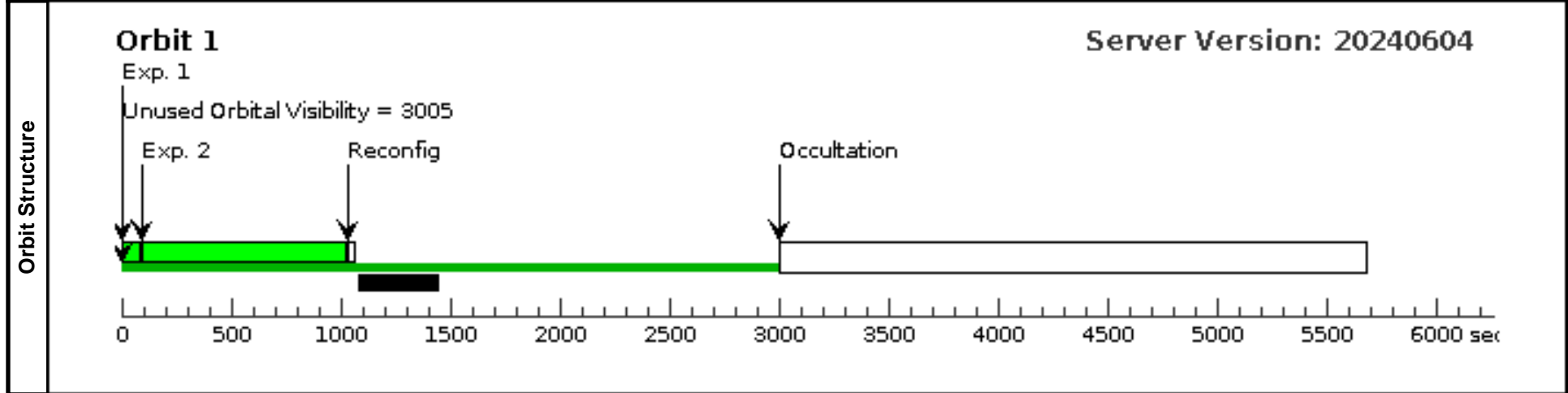


Proposal 17691 - Visit 08 - WFC3 IR Internal Flats

Mon Jul 15 19:00:59 GMT 2024

<b>Visit</b>	<b>Proposal 17691, Visit 08</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: GROUP 08,01,02,03,04,05,06,07,09,10,11,12 WITHIN 45D; SEQ 08,09 WITHIN 7 D <i>Comments: Part of a mid cycle group of visits in all filters.</i>									
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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	F125W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=6; SAMP-SEQ=SPAR S10				52.937106 Secs (52.937 Secs) [==>]
2	F128N	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F128N	NSAMP=10; SAMP-SEQ=SPAR S100				902.935198 Secs (902.935 Secs) [==>]	[1]



Proposal 17691 - Visit 09 - WFC3 IR Internal Flats

Mon Jul 15 19:00:59 GMT 2024

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F126N	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=11; SAMP-SEQ=SPAR S100				1002.935521 Secs (1002.936 Secs) [==>]
2	F105W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=9; SAMP-SEQ=SPAR S10				82.939995 Secs (82.94 Secs) [==>]	[1]

**Orbit 1**  
Unused Orbital Visibility = 3005

Timeline labels: Exp. 1, Exp. 2, Reconfig, Occultation

X-axis: 0, 500, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500, 6000 sec

**Server Version: 20240604**

Proposal 17691 - Visit 10 - WFC3 IR Internal Flats

Mon Jul 15 19:00:59 GMT 2024

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1	F126N	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F126N	NSAMP=11; SAMP-SEQ=SPAR S100			1002.935521 Secs (1002.936 Secs) [==>]
	2	F105W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=9; SAMP-SEQ=SPAR S10			82.939995 Secs (82.94 Secs) [==>]	[1]

**Orbit 1**  
Unused Orbital Visibility = 3005

The diagram shows a horizontal timeline from 0 to 6000 seconds. A green bar starts at 0 and ends at approximately 3000 seconds. Above the green bar, 'Exp. 1' is marked at 0s, 'Exp. 2' at ~1100s, and 'Reconfig' at ~1200s. Below the green bar, a black bar is shown between 1200s and 1600s. At 3000s, an arrow points to the end of the green bar, labeled 'Occultation'. The x-axis has major ticks every 500 seconds.

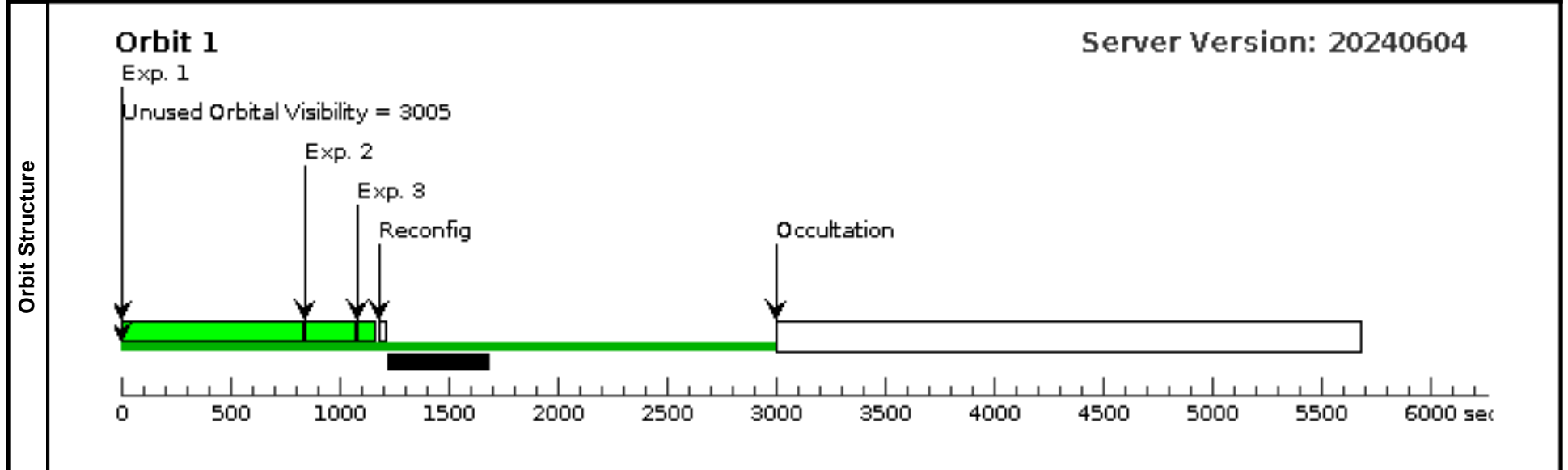
**Server Version: 20240604**

Proposal 17691 - Visit 11 - WFC3 IR Internal Flats

Mon Jul 15 19:00:59 GMT 2024

<b>Visit</b>	<b>Proposal 17691, Visit 11</b>									
	<b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: GROUP 11,01,02,03,04,05,06,07,08,09,10,12 WITHIN 45D <i>Comments: Part of a mid cycle group of visits in all filters.</i>									

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1	F164N	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F164N	NSAMP=9; SAMP-SEQ=SPAR S100			802.934875 Secs (802.935 Secs) [==>]
	2	F139M	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=5; SAMP-SEQ=SPAR S50			202.934095 Secs (202.934 Secs) [==>]	[1]
	3	F160W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]

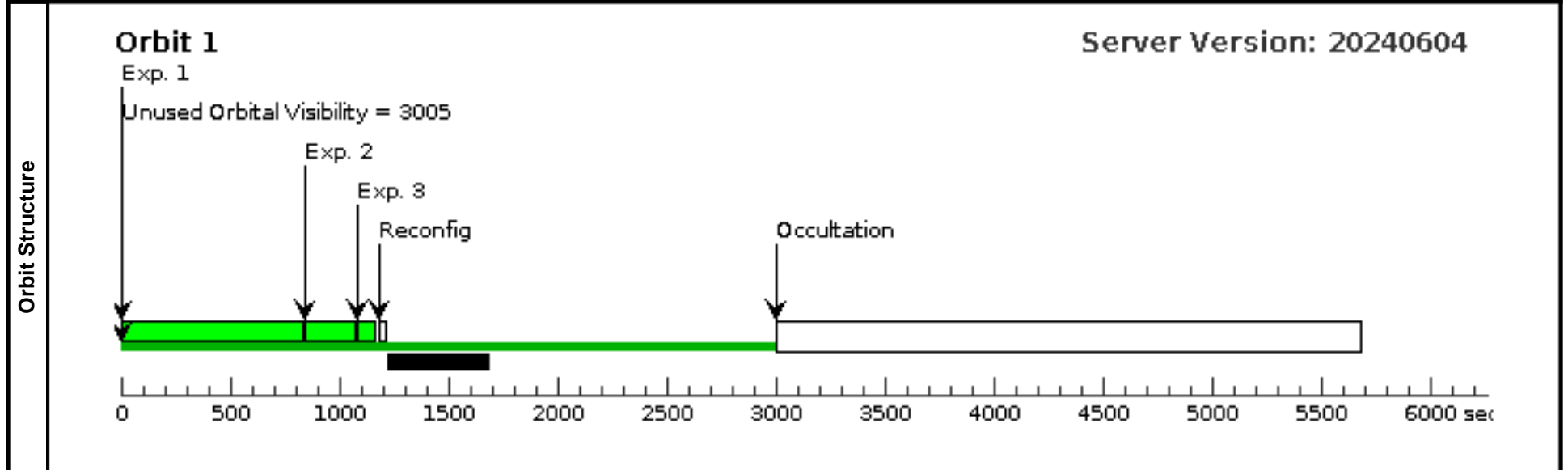


Proposal 17691 - Visit 12 - WFC3 IR Internal Flats

Mon Jul 15 19:00:59 GMT 2024

<b>Visit</b>	<b>Proposal 17691, Visit 12</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: GROUP 12,01,02,03,04,05,06,07,08,09,10,11 WITHIN 45D <i>Comments: Part of a mid cycle group of visits in all filters.</i>									

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1	F164N	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F164N	NSAMP=9; SAMP-SEQ=SPAR S100			802.934875 Secs (802.935 Secs) [==>]
	2	F139M	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F139M	NSAMP=5; SAMP-SEQ=SPAR S50			202.934095 Secs (202.934 Secs) [==>]	[1]
	3	F160W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]

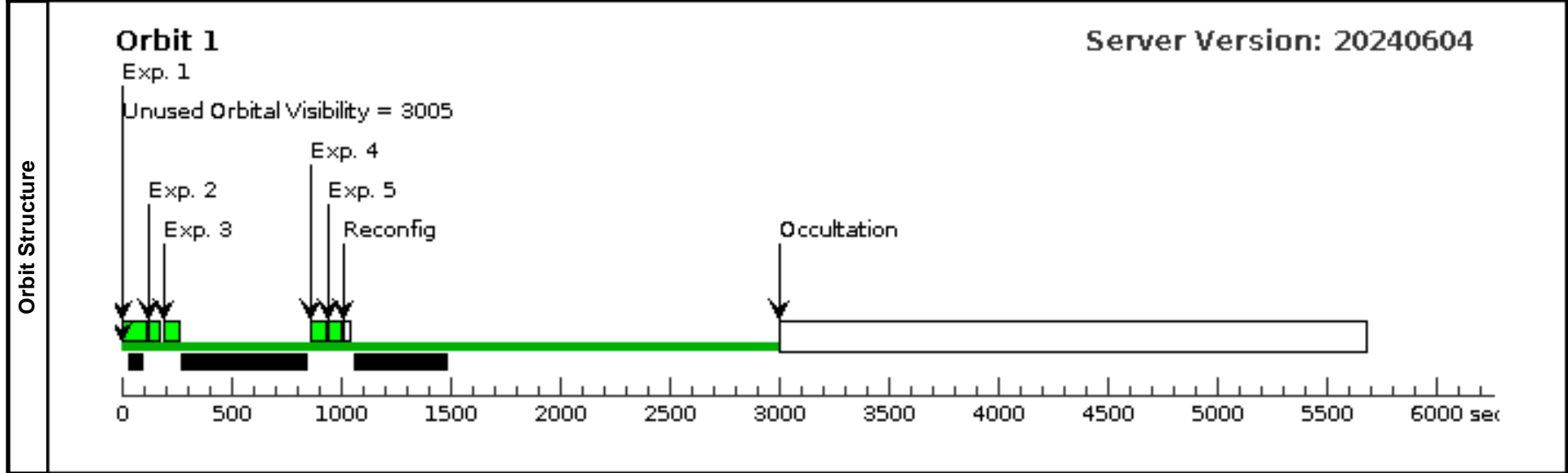


Proposal 17691 - Visit 13 - WFC3 IR Internal Flats

Mon Jul 15 19:00:59 GMT 2024

<b>Visit</b>	<b>Proposal 17691, Visit 13</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: BETWEEN 01-DEC-2024:00:00:00 AND 31-DEC-2024:00:00:00 Comments: Bi-monthly wide filter visit.									

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1	F105W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=9; SAMP-SEQ=SPAR S10			82.939995 Secs (82.94 Secs) [==>]
	2	F110W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=13; SAMP-SEQ=RAPI D			38.119783 Secs (38.12 Secs) [==>]	[1]
	3	F160W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]
	4	F125W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]
	5	F140W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=13; SAMP-SEQ=RAPI D			38.119783 Secs (38.12 Secs) [==>]	[1]

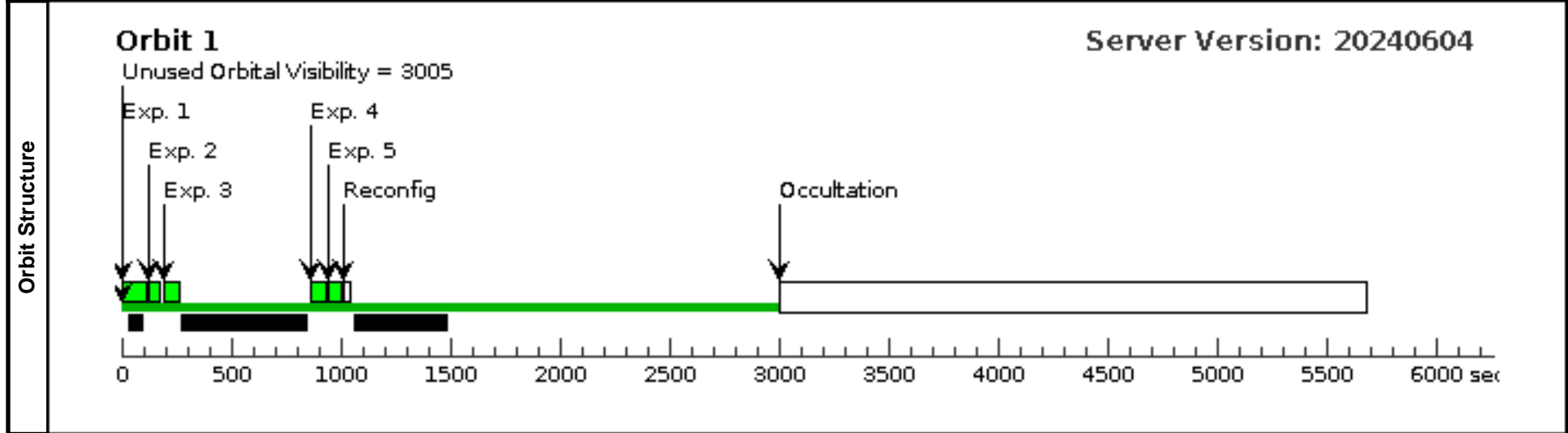


Proposal 17691 - Visit 14 - WFC3 IR Internal Flats

Mon Jul 15 19:00:59 GMT 2024

<b>Visit</b>	<b>Proposal 17691, Visit 14</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: GROUP 14,13,15 WITHIN 30D <i>Comments: Bi-monthly wide filter visit.</i>									

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1	F105W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=9; SAMP-SEQ=SPAR S10			82.939995 Secs (82.94 Secs) [==>]
	2	F110W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=13; SAMP-SEQ=RAPI D			38.119783 Secs (38.12 Secs) [==>]	[1]
	3	F160W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]
	4	F125W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]
	5	F140W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=13; SAMP-SEQ=RAPI D			38.119783 Secs (38.12 Secs) [==>]	[1]

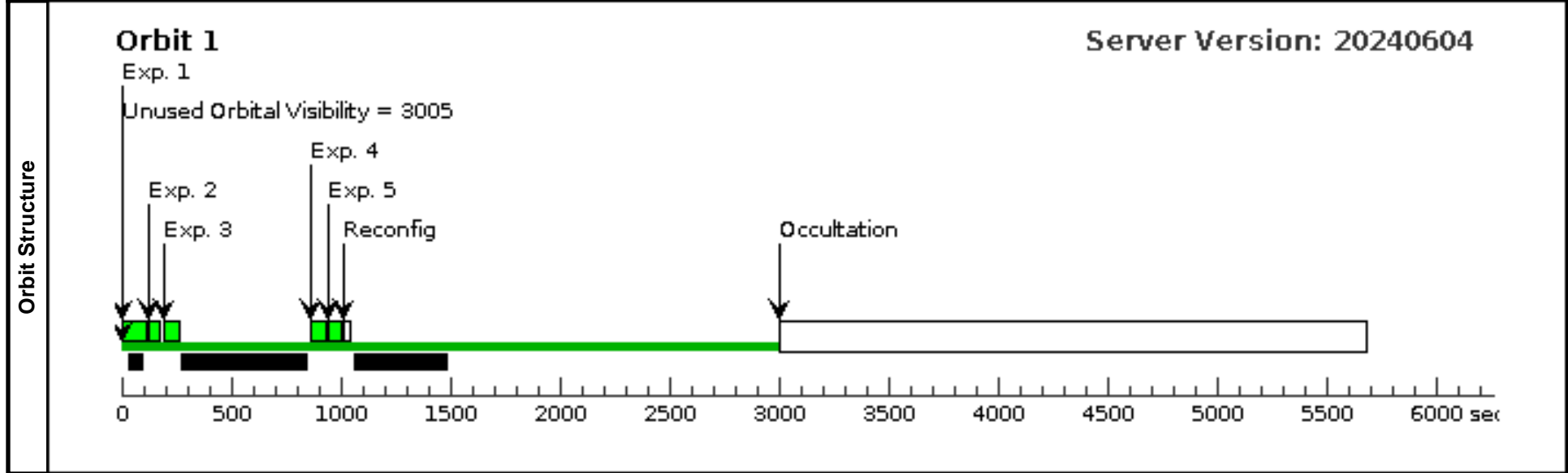


Proposal 17691 - Visit 15 - WFC3 IR Internal Flats

Mon Jul 15 19:00:59 GMT 2024

<b>Visit</b>	<b>Proposal 17691, Visit 15</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: GROUP 15,13,14 WITHIN 30D <i>Comments: Bi-monthly wide filter visit.</i>									

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1	F105W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=9; SAMP-SEQ=SPAR S10			82.939995 Secs (82.94 Secs) [==>]
	2	F110W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=13; SAMP-SEQ=RAPI D			38.119783 Secs (38.12 Secs) [==>]	[1]
	3	F160W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]
	4	F125W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]
	5	F140W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=13; SAMP-SEQ=RAPI D			38.119783 Secs (38.12 Secs) [==>]	[1]

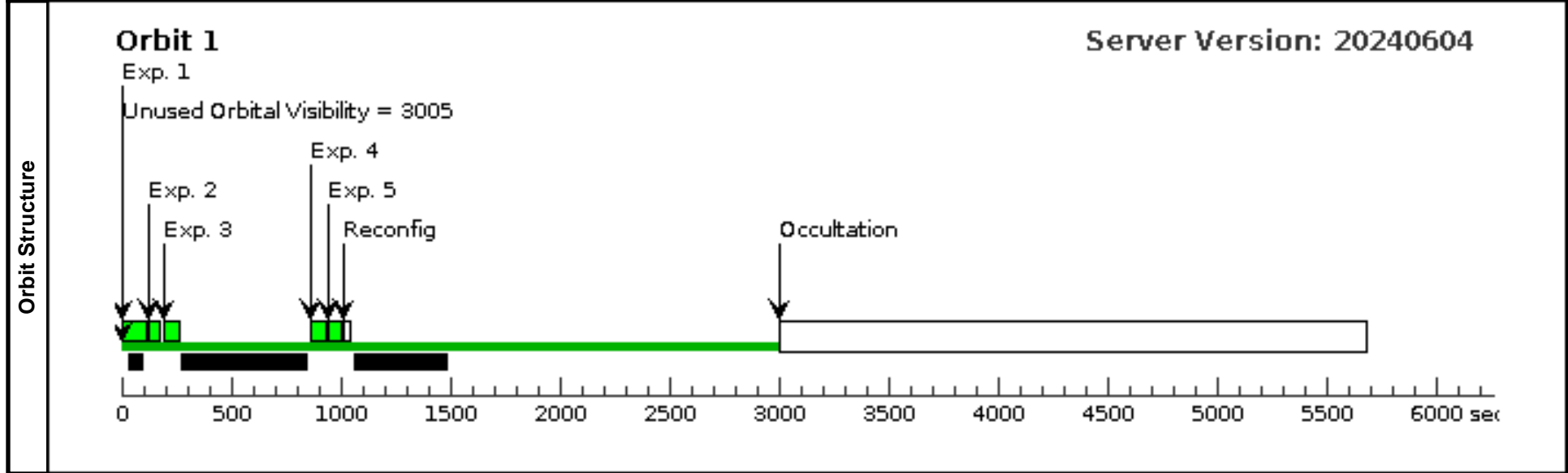


Proposal 17691 - Visit 16 - WFC3 IR Internal Flats

Mon Jul 15 19:01:00 GMT 2024

<b>Visit</b>	<b>Proposal 17691, Visit 16</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: BETWEEN 01-SEP-2025:00:00:00 AND 30-SEP-2025:00:00:00 Comments: Bi-monthly wide filter visit.									

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1	F105W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=9; SAMP-SEQ=SPAR S10			82.939995 Secs (82.94 Secs) [==>]
	2	F110W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=13; SAMP-SEQ=RAPI D			38.119783 Secs (38.12 Secs) [==>]	[1]
	3	F160W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]
	4	F125W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]
	5	F140W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=13; SAMP-SEQ=RAPI D			38.119783 Secs (38.12 Secs) [==>]	[1]

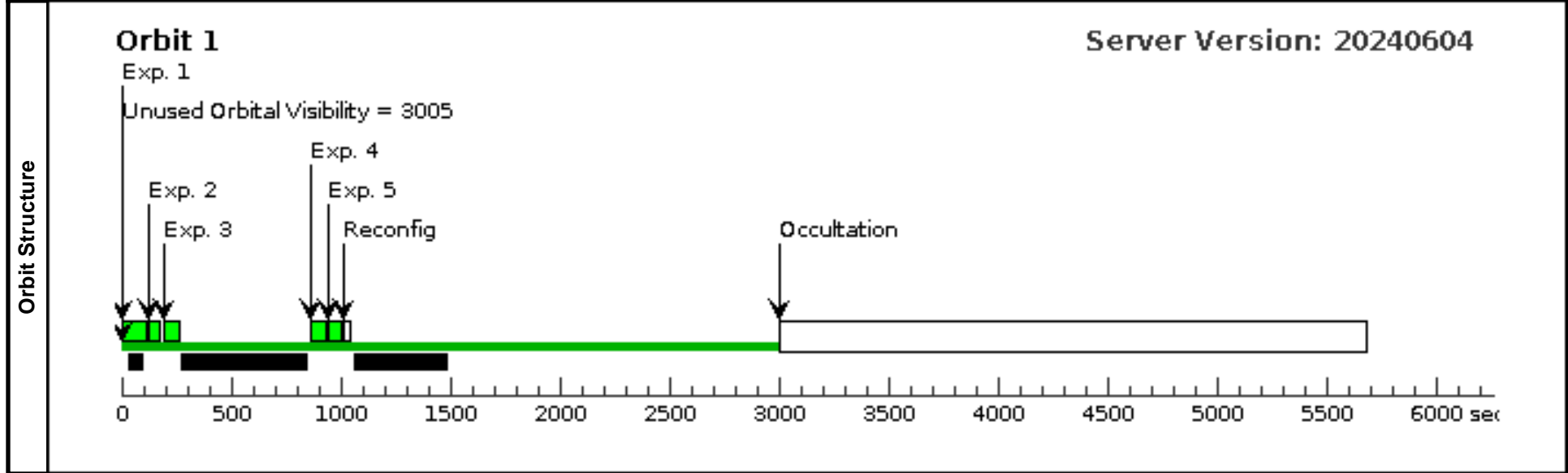


Proposal 17691 - Visit 17 - WFC3 IR Internal Flats

Mon Jul 15 19:01:00 GMT 2024

<b>Visit</b>	<b>Proposal 17691, Visit 17</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: GROUP 17,16,18 WITHIN 30D Comments: Bi-monthly wide filter visit.							
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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	F105W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=9; SAMP-SEQ=SPAR S10			82.939995 Secs (82.94 Secs) [==>]	[1]
	2	F110W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=13; SAMP-SEQ=RAPI D			38.119783 Secs (38.12 Secs) [==>]	[1]
	3	F160W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]
	4	F125W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]
	5	F140W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=13; SAMP-SEQ=RAPI D			38.119783 Secs (38.12 Secs) [==>]	[1]



Proposal 17691 - Visit 18 - WFC3 IR Internal Flats

Mon Jul 15 19:01:00 GMT 2024

<b>Visit</b>	<b>Proposal 17691, Visit 18</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: WFC3/IR Special Requirements: GROUP 18,16,17 WITHIN 30D <i>Comments: Bi-monthly wide filter visit.</i>									
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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	F105W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=9; SAMP-SEQ=SPAR S10			82.939995 Secs (82.94 Secs) [==>]	[1]
	2	F110W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=13; SAMP-SEQ=RAPI D			38.119783 Secs (38.12 Secs) [==>]	[1]
	3	F160W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]
	4	F125W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=6; SAMP-SEQ=SPAR S10			52.937106 Secs (52.937 Secs) [==>]	[1]
	5	F140W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=13; SAMP-SEQ=RAPI D			38.119783 Secs (38.12 Secs) [==>]	[1]

