



15731 - WFC3 IR Internal Flats

Cycle: 27, Proposal Category: CAL/WFC3

(Availability Mode: RESTRICTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. Russell E. Ryan Jr. (PI) (Contact)	Space Telescope Science Institute	rryan@stsci.edu
Heather Kurtz (CoI) (Contact)	Space Telescope Science Institute	hkurtz@stsci.edu
Benjamin Kuhn (CoI) (Contact)	Space Telescope Science Institute	bkuhn@stsci.edu
Mr. Harish Khandrika (CoI) (Contact)	Space Telescope Science Institute	hkhandrika@stsci.edu

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	06-Aug-2019 18:01:31.0	yes
02	TUNGSTEN	WFC3/IR	1	06-Aug-2019 18:01:32.0	yes
03	TUNGSTEN	WFC3/IR	1	06-Aug-2019 18:01:33.0	yes
04	TUNGSTEN	WFC3/IR	1	06-Aug-2019 18:01:34.0	yes
05	TUNGSTEN	WFC3/IR	1	06-Aug-2019 18:01:34.0	yes
06	TUNGSTEN	WFC3/IR	1	06-Aug-2019 18:01:35.0	yes
07	TUNGSTEN	WFC3/IR	1	06-Aug-2019 18:01:35.0	yes
08	TUNGSTEN	WFC3/IR	1	06-Aug-2019 18:01:36.0	yes
09	TUNGSTEN	WFC3/IR	1	06-Aug-2019 18:01:36.0	yes
10	TUNGSTEN	WFC3/IR	1	06-Aug-2019 18:01:37.0	yes
11	TUNGSTEN	WFC3/IR	1	06-Aug-2019 18:01:38.0	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>
12	TUNGSTEN	WFC3/IR	1	06-Aug-2019 18:01:38.0	yes
13	TUNGSTEN	WFC3/IR	1	06-Aug-2019 18:01:39.0	yes
14	TUNGSTEN	WFC3/IR	1	06-Aug-2019 18:01:40.0	yes
15	TUNGSTEN	WFC3/IR	1	06-Aug-2019 18:01:41.0	yes
16	TUNGSTEN	WFC3/IR	1	06-Aug-2019 18:01:42.0	yes
17	TUNGSTEN	WFC3/IR	1	06-Aug-2019 18:01:43.0	yes
18	TUNGSTEN	WFC3/IR	1	06-Aug-2019 18:01:43.0	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), and 15591 (Cy26). 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 temporal trends 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 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) and Ryan (2019-06).

----- 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.

OBSERVING DESCRIPTION

Calibration

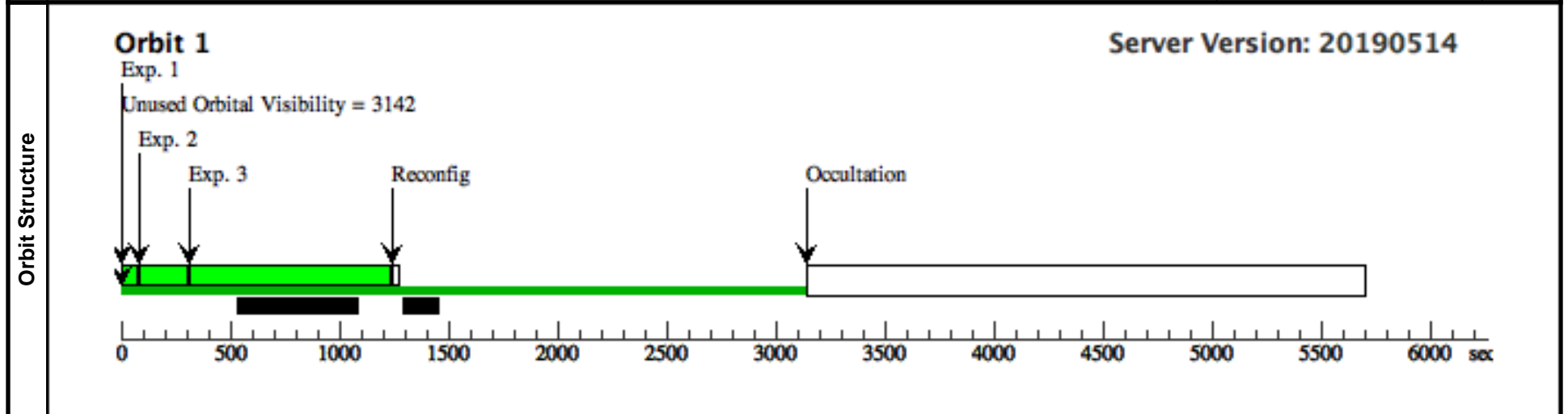
Proposal 15731 - Visit 01 - WFC3 IR Internal Flats

Tue Aug 06 22:01:44 GMT 2019

Visit	Proposal 15731, Visit 01, implementation									
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: WFC3/IR									
	Special Requirements: BETWEEN 01-APR-2020:00:00:00 AND 01-MAY-2020:00:00:00									

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

Exposures	#	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]

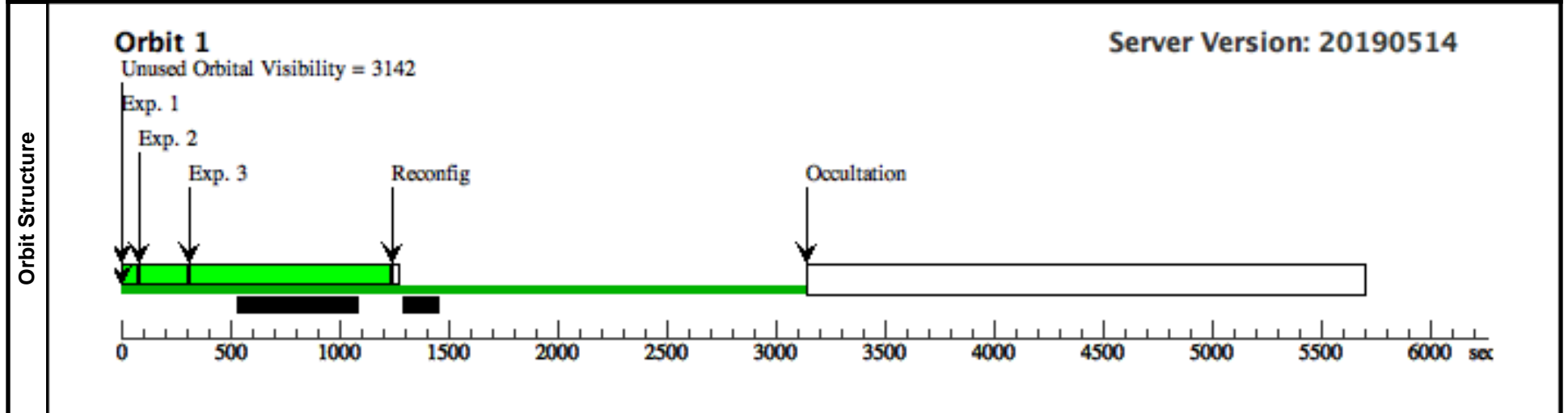


Proposal 15731 - Visit 02 - WFC3 IR Internal Flats

Tue Aug 06 22:01:44 GMT 2019

Visit	Proposal 15731, Visit 02, implementation Diagnostic Status: No Diagnostics 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.									

Exposures	#	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) [==>]
	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]



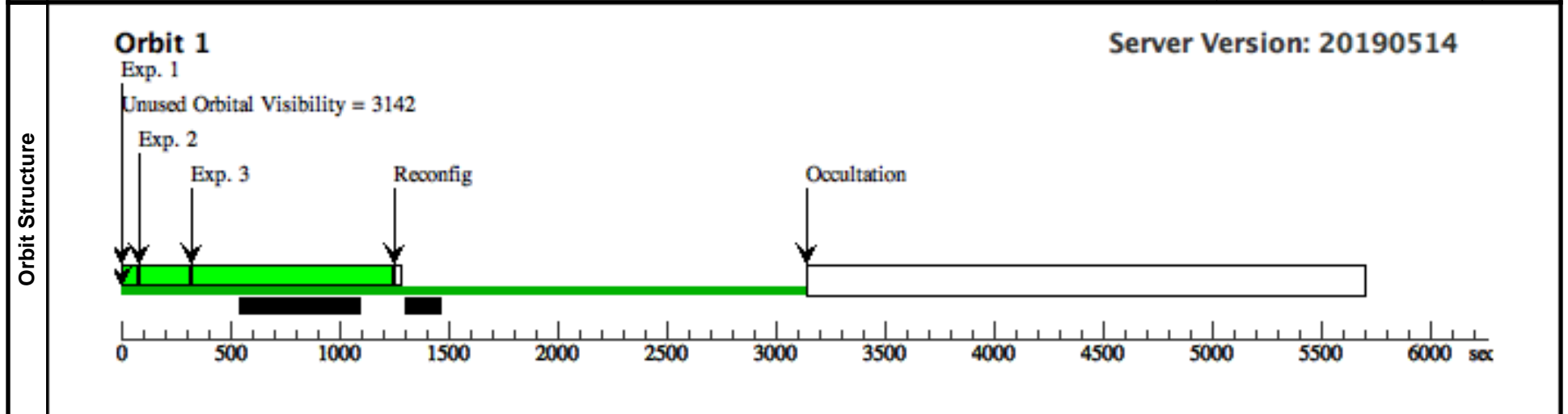
Proposal 15731 - Visit 03 - WFC3 IR Internal Flats

Tue Aug 06 22:01:44 GMT 2019

Visit	Proposal 15731, Visit 03, implementation									
	Diagnostic Status: No Diagnostics									
	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.

Exposures	#	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]

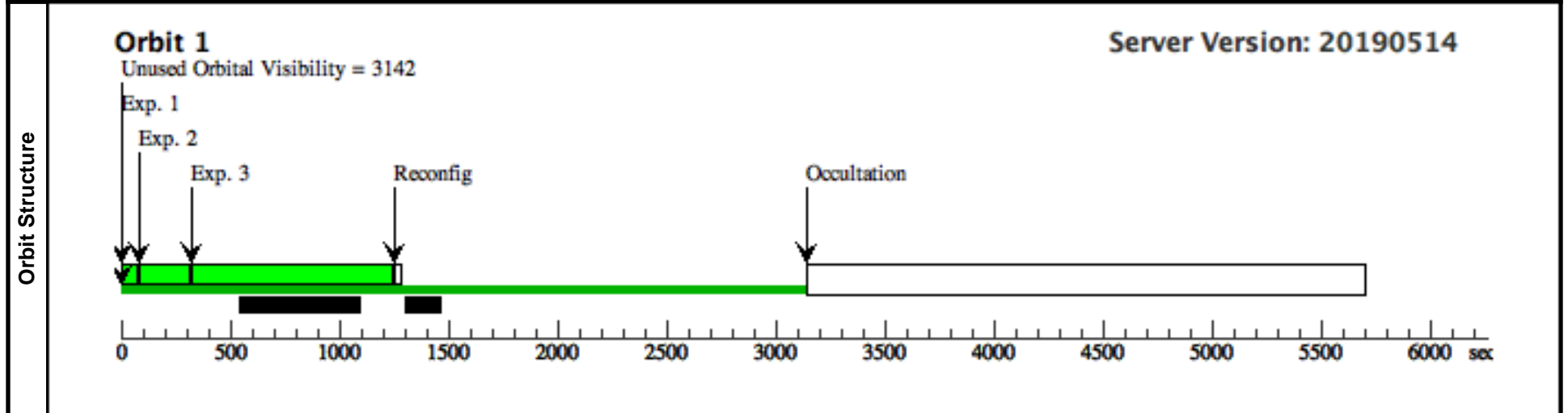


Proposal 15731 - Visit 04 - WFC3 IR Internal Flats

Tue Aug 06 22:01:44 GMT 2019

Visit	Proposal 15731, Visit 04, implementation Diagnostic Status: No Diagnostics 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>									

Exposures	#	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]

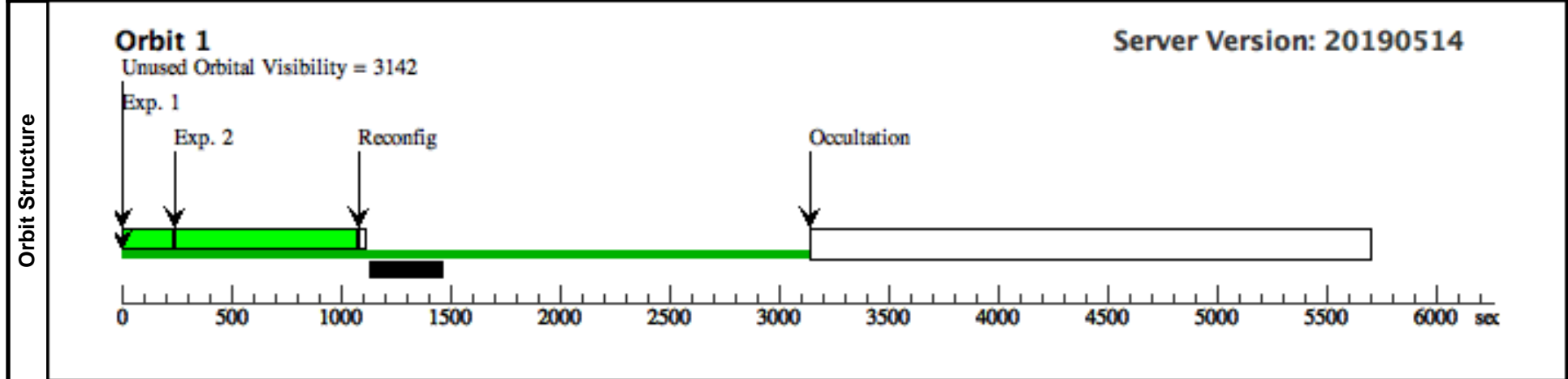


Proposal 15731 - Visit 05 - WFC3 IR Internal Flats

Tue Aug 06 22:01:45 GMT 2019

Visit	Proposal 15731, Visit 05, implementation Diagnostic Status: No Diagnostics 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>							
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Exposures	#	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) [==>]	[1]
2	F167N	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F167N	NSAMP=9; SAMP-SEQ=SPAR S100				802.934875 Secs (802.935 Secs) [==>]	[1]

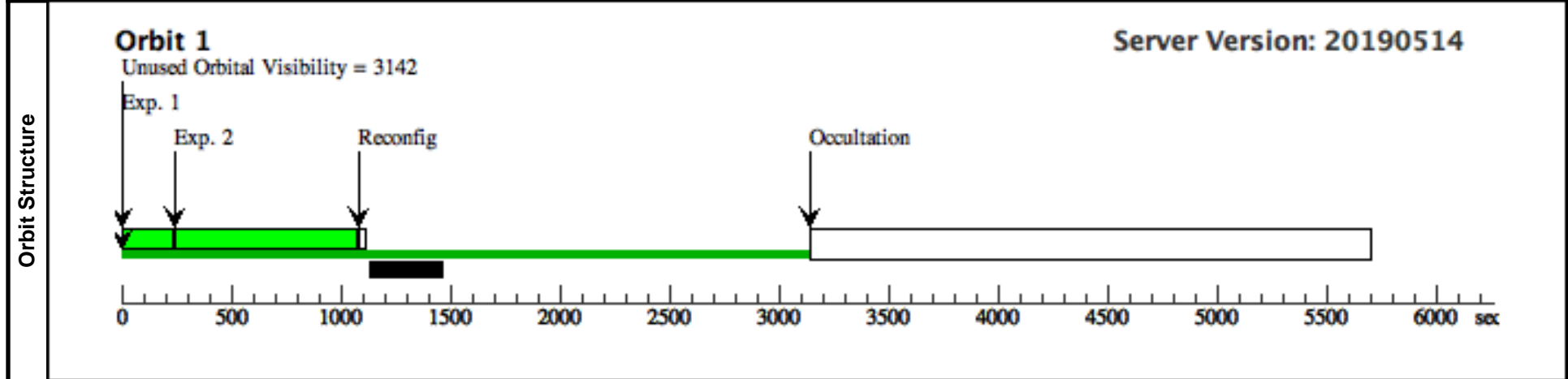


Proposal 15731 - Visit 06 - WFC3 IR Internal Flats

Tue Aug 06 22:01:45 GMT 2019

Visit	Proposal 15731, Visit 06, implementation Diagnostic Status: No Diagnostics 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>									

Exposures	#	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]

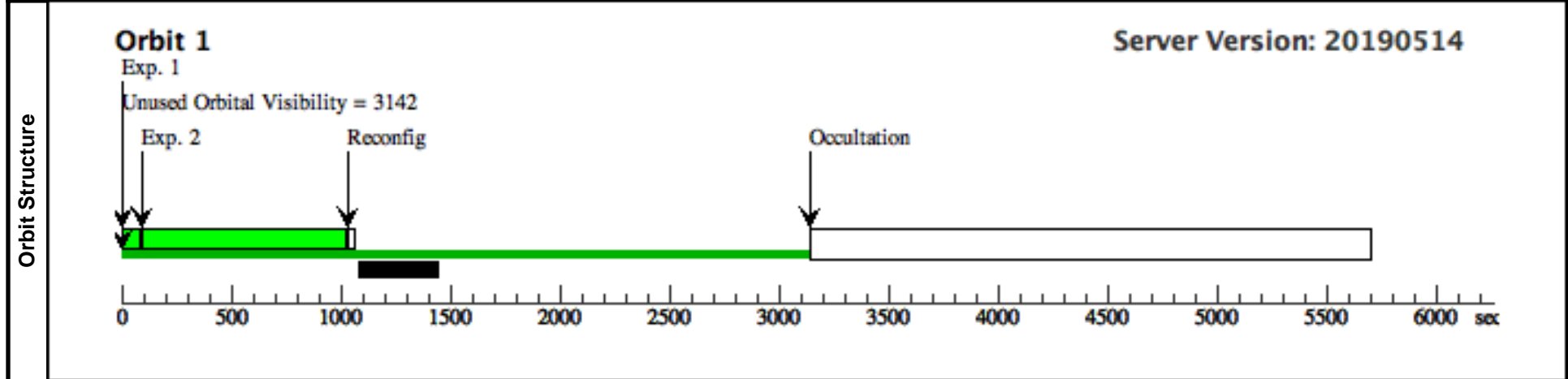


Proposal 15731 - Visit 07 - WFC3 IR Internal Flats

Tue Aug 06 22:01:45 GMT 2019

Visit	Proposal 15731, Visit 07, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: GROUP 07,01,02,03,04,05,06,08,09,10,11,12 WITHIN 45D <i>Comments: Part of a mid cycle group of visits in all filters.</i>							
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Exposures	#	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]

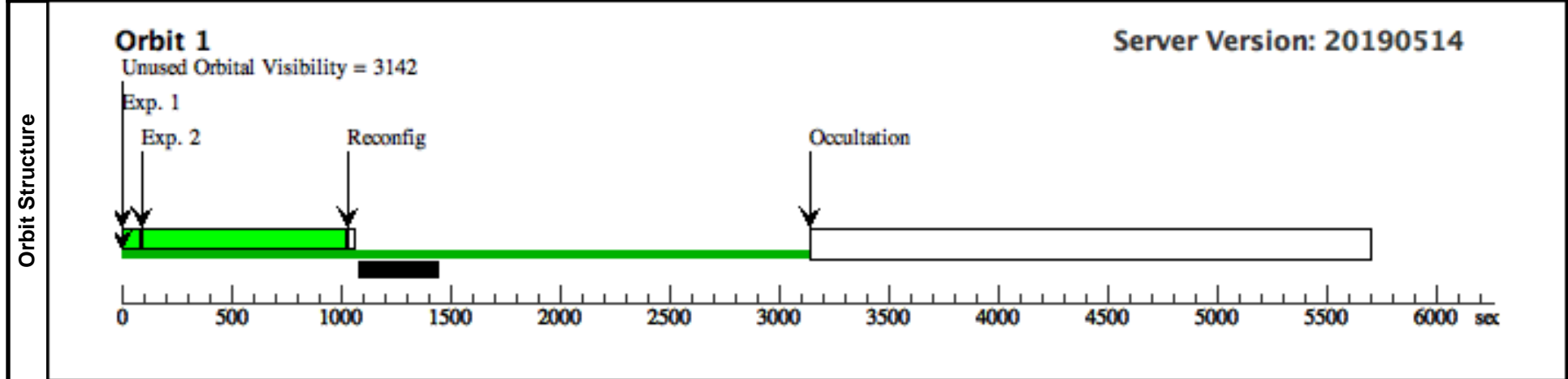


Proposal 15731 - Visit 08 - WFC3 IR Internal Flats

Tue Aug 06 22:01:45 GMT 2019

Visit	Proposal 15731, Visit 08, implementation Diagnostic Status: No Diagnostics 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>									

Exposures	#	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]

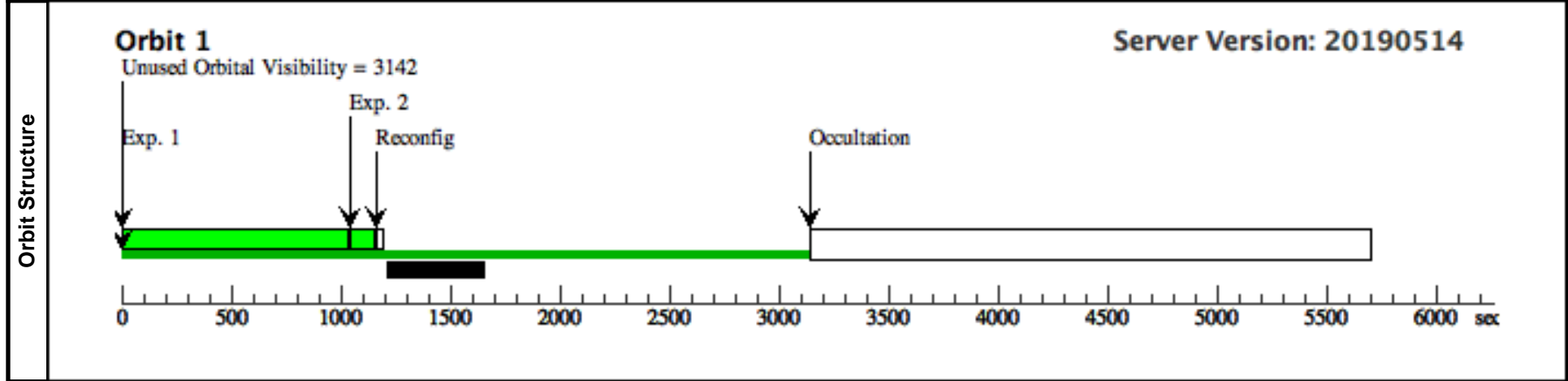


Proposal 15731 - Visit 09 - WFC3 IR Internal Flats

Tue Aug 06 22:01:45 GMT 2019

Visit	Proposal 15731, Visit 09, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: GROUP 09,01,02,03,04,05,06,07,08,10,11,12 WITHIN 45D <i>Comments: Part of a mid cycle group of visits in all filters.</i>							
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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) [==>]	[1]
2	F105W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=9; SAMP-SEQ=SPAR S10				82.939995 Secs (82.94 Secs) [==>]	[1]

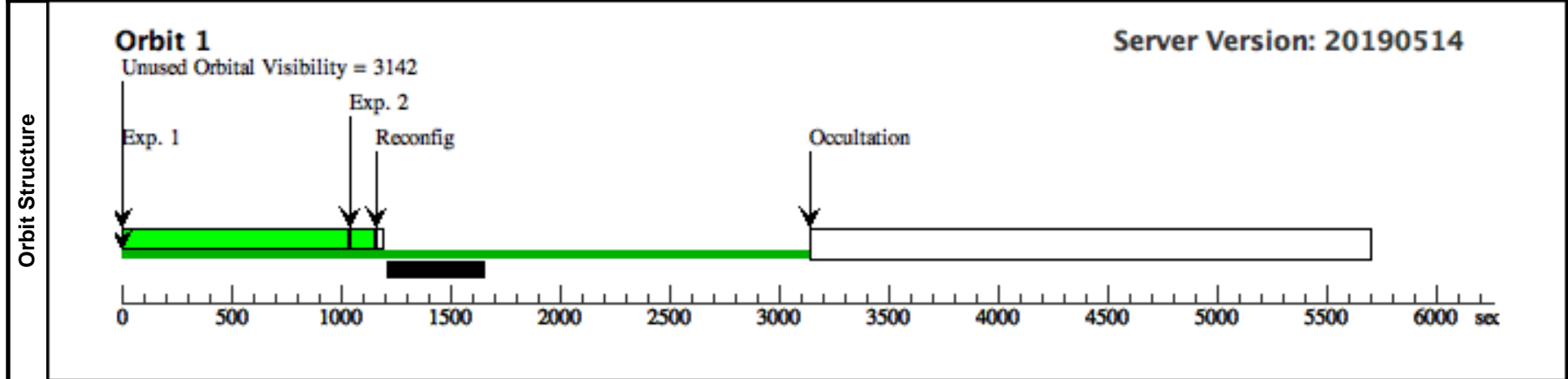


Proposal 15731 - Visit 10 - WFC3 IR Internal Flats

Tue Aug 06 22:01:45 GMT 2019

Visit	Proposal 15731, Visit 10, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: GROUP 10,01,02,03,04,05,06,07,08,09,11,12 WITHIN 45D; SEQ 10,11 WITHIN 7 D <i>Comments: Part of a mid cycle group of visits in all filters.</i>									

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]

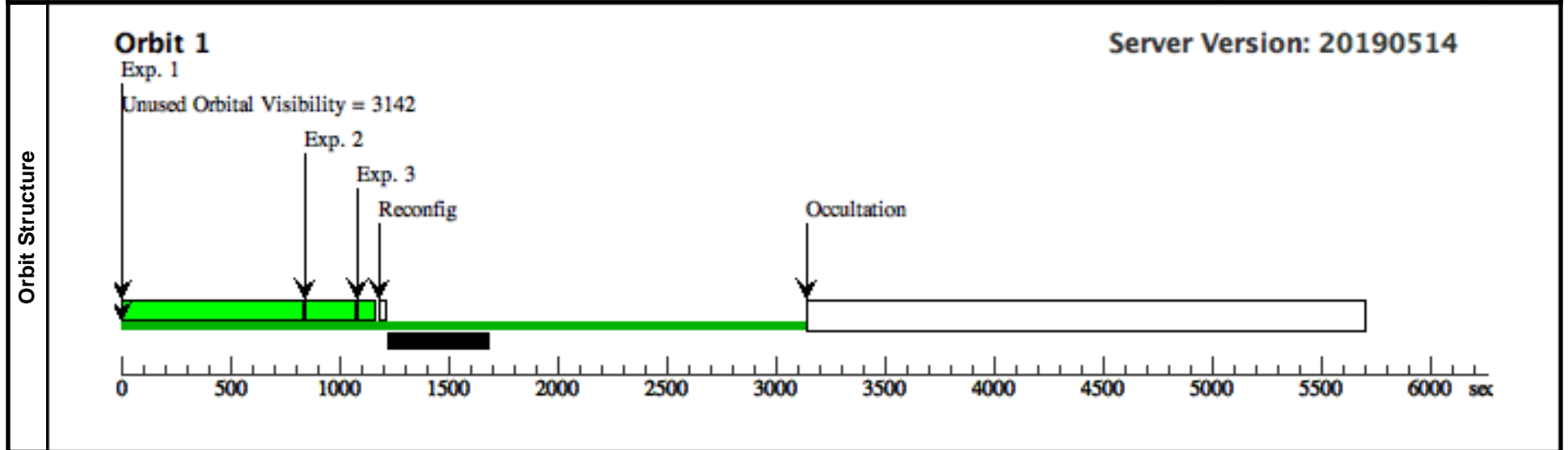


Proposal 15731 - Visit 11 - WFC3 IR Internal Flats

Tue Aug 06 22:01:45 GMT 2019

Visit	Proposal 15731, Visit 11, implementation Diagnostic Status: No Diagnostics 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>								
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Exposures	#	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) [==>]	[1]
	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]

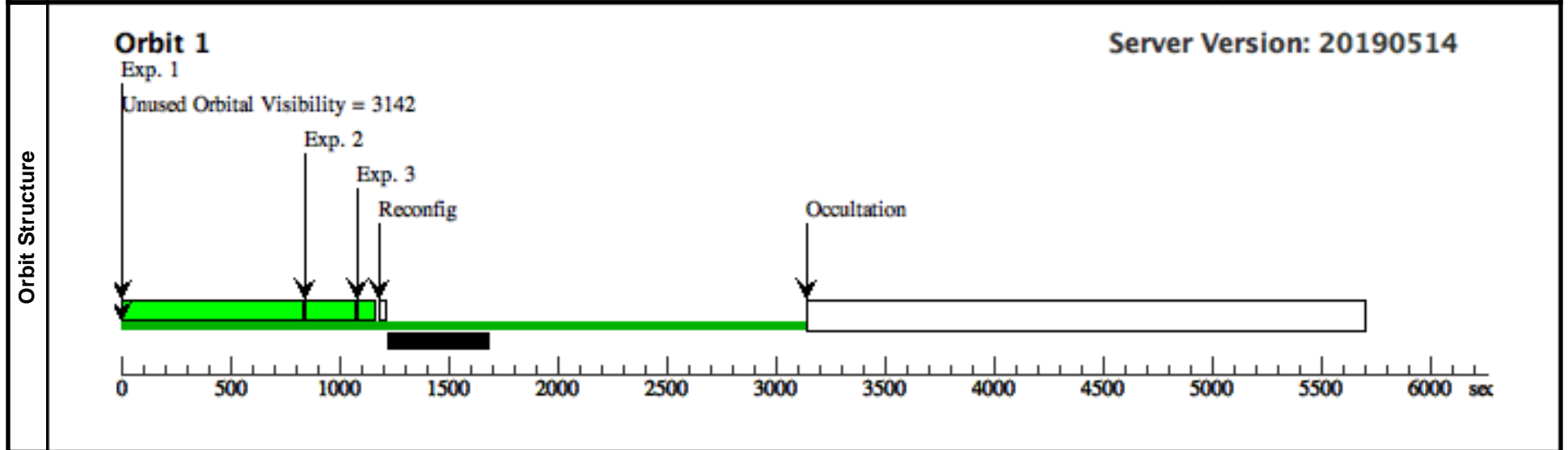


Proposal 15731 - Visit 12 - WFC3 IR Internal Flats

Tue Aug 06 22:01:45 GMT 2019

Visit	Proposal 15731, Visit 12, implementation Diagnostic Status: No Diagnostics 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>									

Exposures	#	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]

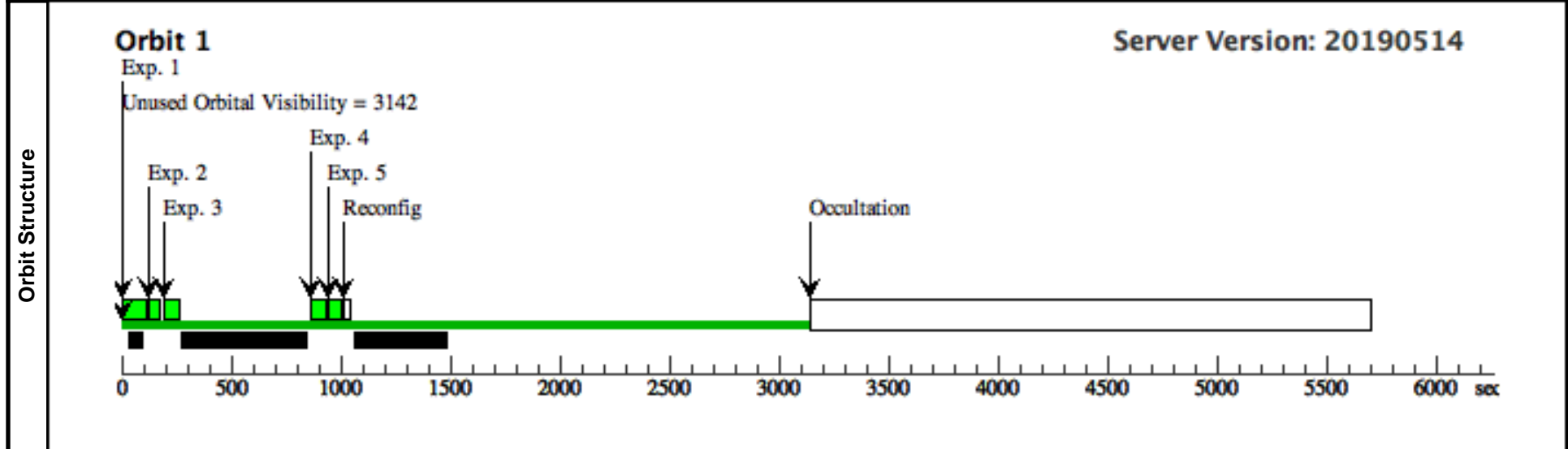


Proposal 15731 - Visit 13 - WFC3 IR Internal Flats

Tue Aug 06 22:01:45 GMT 2019

Visit	Proposal 15731, Visit 13, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: BETWEEN 01-DEC-2019:00:00:00 AND 31-DEC-2019:00:00:00 Comments: Bi-monthly wide filter visit.							

Exposures	#	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]

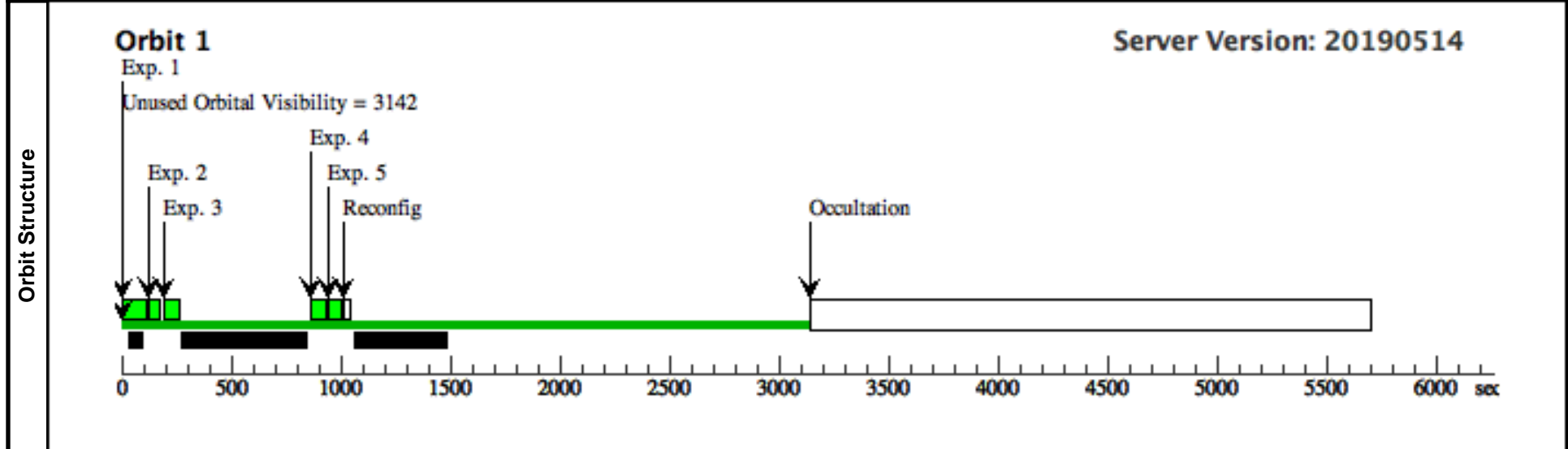


Proposal 15731 - Visit 14 - WFC3 IR Internal Flats

Tue Aug 06 22:01:45 GMT 2019

Visit	Proposal 15731, Visit 14, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: GROUP 14,13,15 WITHIN 30D <i>Comments: Bi-monthly wide filter visit.</i>								
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Exposures	#	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]

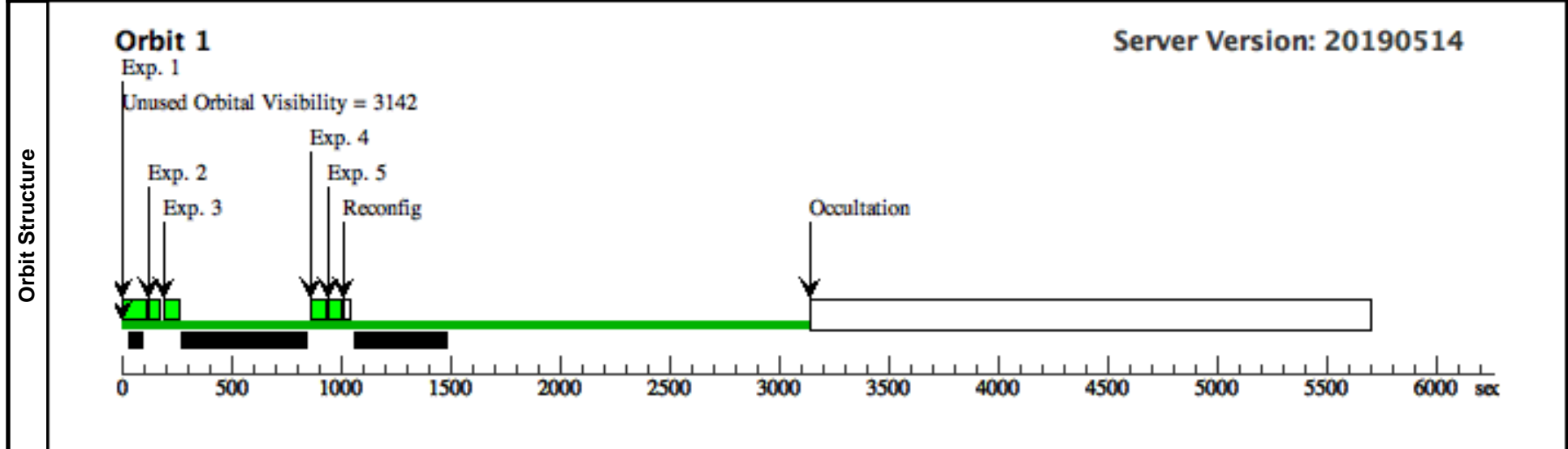


Proposal 15731 - Visit 15 - WFC3 IR Internal Flats

Tue Aug 06 22:01:45 GMT 2019

Visit	Proposal 15731, Visit 15, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: GROUP 15,13,14 WITHIN 30D <i>Comments: Bi-monthly wide filter visit.</i>									

Exposures	#	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]

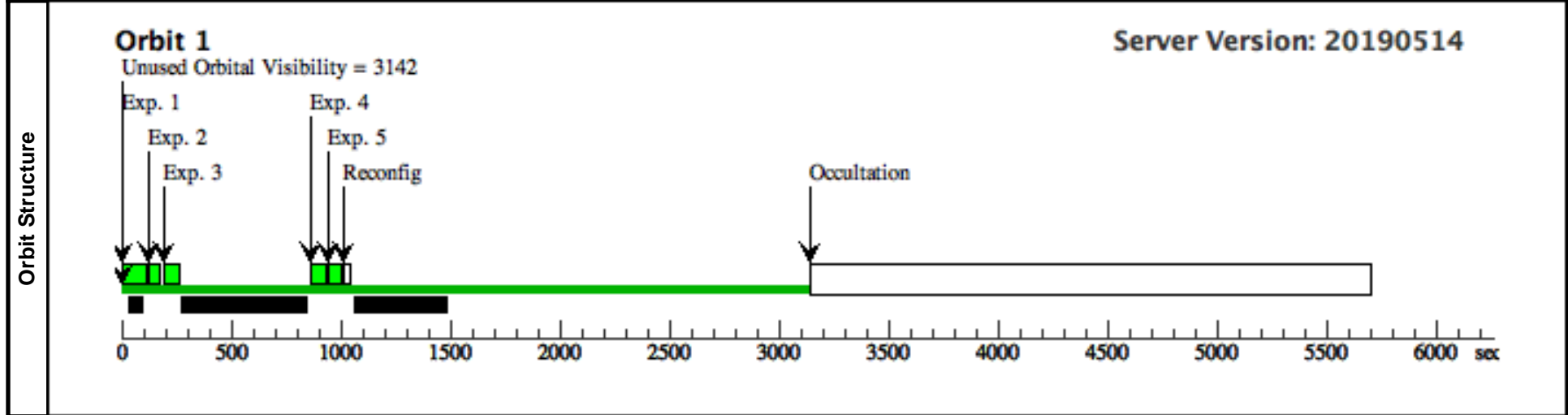


Proposal 15731 - Visit 16 - WFC3 IR Internal Flats

Tue Aug 06 22:01:45 GMT 2019

Visit	Proposal 15731, Visit 16, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: BETWEEN 01-SEP-2020:00:00:00 AND 30-SEP-2020:00:00:00 <i>Comments: Bi-monthly wide filter visit.</i>									

Exposures	#	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]

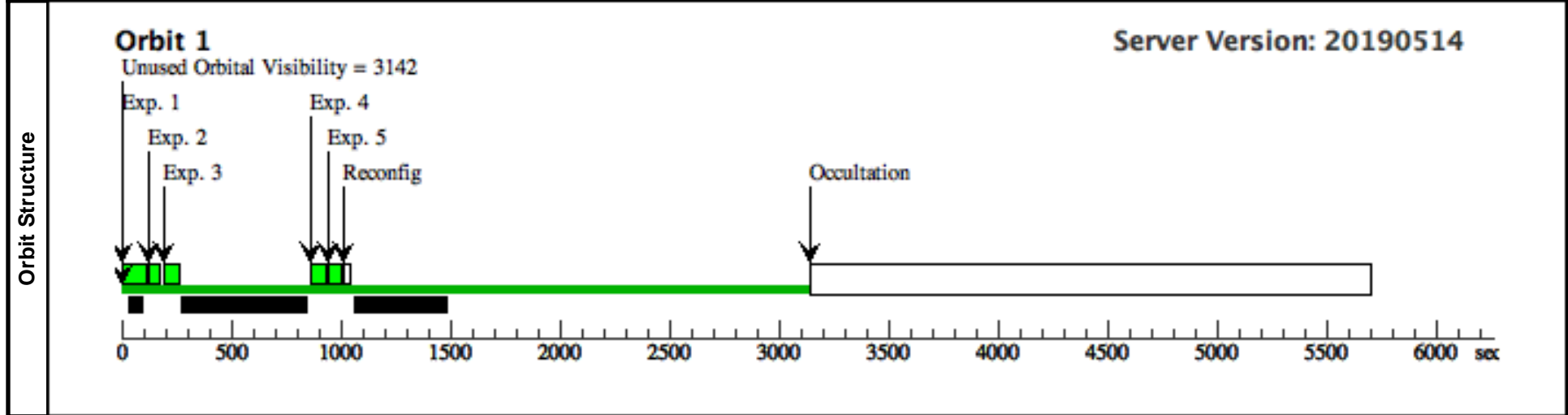


Proposal 15731 - Visit 17 - WFC3 IR Internal Flats

Tue Aug 06 22:01:45 GMT 2019

Visit	Proposal 15731, Visit 17, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: GROUP 17,16,18 WITHIN 30D <i>Comments: Bi-monthly wide filter visit.</i>							
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Exposures	#	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 15731 - Visit 18 - WFC3 IR Internal Flats

Tue Aug 06 22:01:45 GMT 2019

Visit	Proposal 15731, Visit 18, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: GROUP 18,16,17 WITHIN 30D <i>Comments: Bi-monthly wide filter visit.</i>								
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Exposures	#	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]

