



14029 - IR internal flats

Cycle: 22, 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 Gunning (CoI)	Space Telescope Science Institute	gunning@stsci.edu
Dr. Elena Sabbi (CoI)	Space Telescope Science Institute	sabbi@stsci.edu
Dr. Sylvia M. Baggett (CoI)	Space Telescope Science Institute	sbaggett@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>
02	TUNGSTEN	WFC3/IR	1	02-Oct-2014 21:36:23.0	yes
03	TUNGSTEN	WFC3/IR	1	02-Oct-2014 21:36:24.0	yes
04	TUNGSTEN	WFC3/IR	1	02-Oct-2014 21:36:25.0	yes
05	TUNGSTEN	WFC3/IR	1	02-Oct-2014 21:36:26.0	yes
06	TUNGSTEN	WFC3/IR	1	02-Oct-2014 21:36:26.0	yes
07	TUNGSTEN	WFC3/IR	1	02-Oct-2014 21:36:27.0	yes
08	TUNGSTEN	WFC3/IR	1	02-Oct-2014 21:36:27.0	yes
09	TUNGSTEN	WFC3/IR	1	02-Oct-2014 21:36:28.0	yes
10	TUNGSTEN	WFC3/IR	1	02-Oct-2014 21:36:28.0	yes
11	TUNGSTEN	WFC3/IR	1	02-Oct-2014 21:36:29.0	yes
12	TUNGSTEN	WFC3/IR	1	02-Oct-2014 21:36:30.0	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/IR	1	02-Oct-2014 21:36:30.0	yes
14	TUNGSTEN	WFC3/IR	1	02-Oct-2014 21:36:31.0	yes
15	TUNGSTEN	WFC3/IR	1	02-Oct-2014 21:36:32.0	yes
16	TUNGSTEN	WFC3/IR	1	02-Oct-2014 21:36:34.0	yes
17	TUNGSTEN	WFC3/IR	1	02-Oct-2014 21:36:35.0	yes
18	TUNGSTEN	WFC3/IR	1	02-Oct-2014 21:36:36.0	yes
19	TUNGSTEN	WFC3/IR	1	02-Oct-2014 21:36:37.0	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), and 13587 (Cy 21). In this program, we will study the stability and structure of the IR channel flat field images through all filter elements in the WFC3-IR channel. Flats will be monitored, i.e. 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.

We will acquire 2 exposures for the full set of IR filters once in the middle of the cycle. This requires 12 orbits (6x2). In addition we will acquire 3 exposures in each of the broad band filters F105W, F110W, F125W, F140W, and F160W to monitor those flats 2 times during the cycle (early and near the end). This requires another 6 orbits (2x3) for a total of 18 internal orbits.

OBSERVING DESCRIPTION

This is a continuation of programs 11433 (SMOV), 11915 (Cy 17), 12338 (Cy 18), 12712 (Cy 19), 13098 (Cy 20), and 13587 (Cy 21). In this program, we will study the stability and structure of the IR channel flat field images through all filter elements in the WFC3-IR channel. Flats will be monitored, i.e. 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.

----- 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 $\sim 1.4x$ 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.

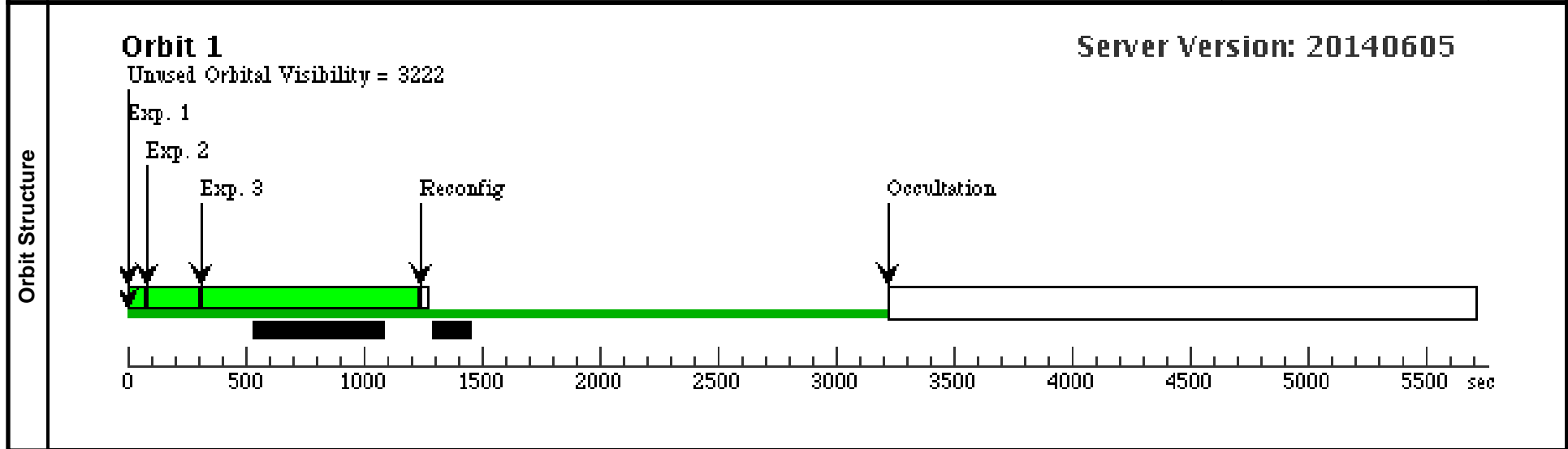
Proposal 14029 - Visit 02 - IR internal flats

Fri Oct 03 01:36:39 GMT 2014

Visit	Proposal 14029, Visit 02									
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: WFC3/IR									
	Special Requirements: BETWEEN 01-MAR-2015:00:00:00 AND 01-MAY-2015:00:00:00									

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]	



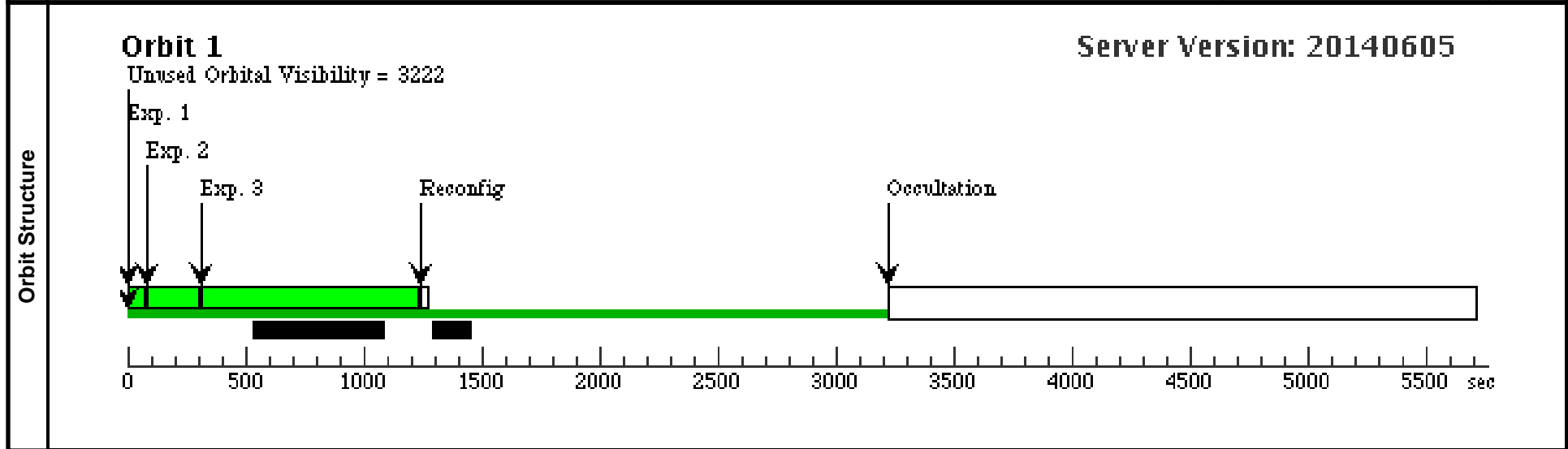
Proposal 14029 - Visit 03 - IR internal flats

Fri Oct 03 01:36:39 GMT 2014

Visit	Proposal 14029, Visit 03									
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: WFC3/IR									
	Special Requirements: GROUP 03,02,04,05,06,07,08,09,10,11,12,13 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)	[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]

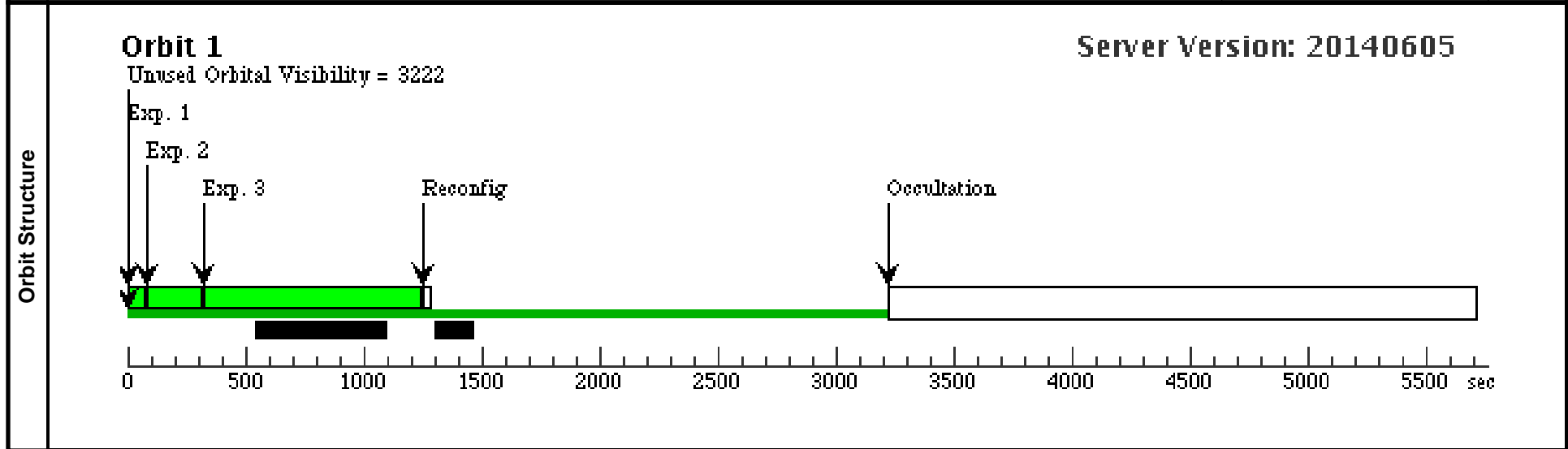


Proposal 14029 - Visit 04 - IR internal flats

Fri Oct 03 01:36:39 GMT 2014

Visit	Proposal 14029, Visit 04 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: GROUP 04,02,03,05,06,07,08,09,10,11,12,13 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	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]

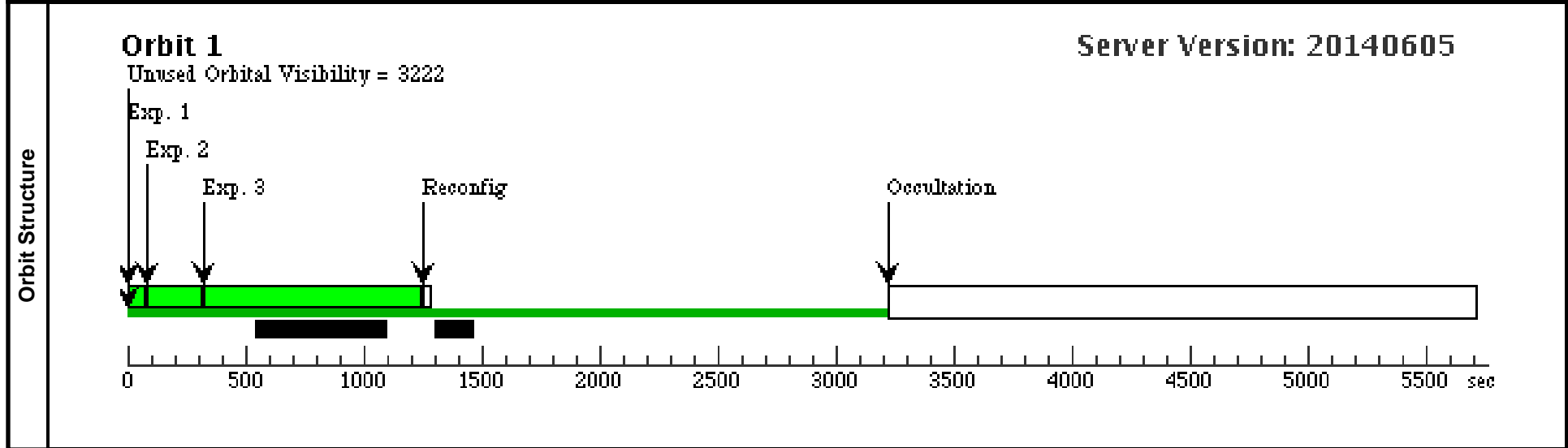


Proposal 14029 - Visit 05 - IR internal flats

Fri Oct 03 01:36:39 GMT 2014

Visit	Proposal 14029, Visit 05 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: GROUP 05,02,03,04,06,07,08,09,10,11,12,13 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]

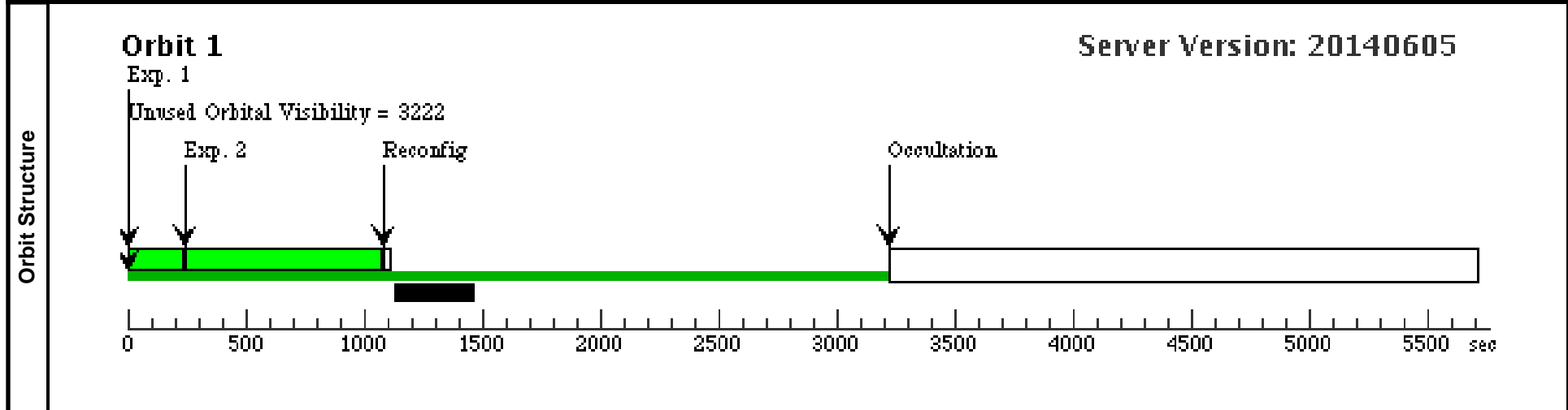


Proposal 14029 - Visit 06 - IR internal flats

Fri Oct 03 01:36:39 GMT 2014

Visit	Proposal 14029, Visit 06 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: GROUP 06,02,03,04,05,07,08,09,10,11,12,13 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	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]

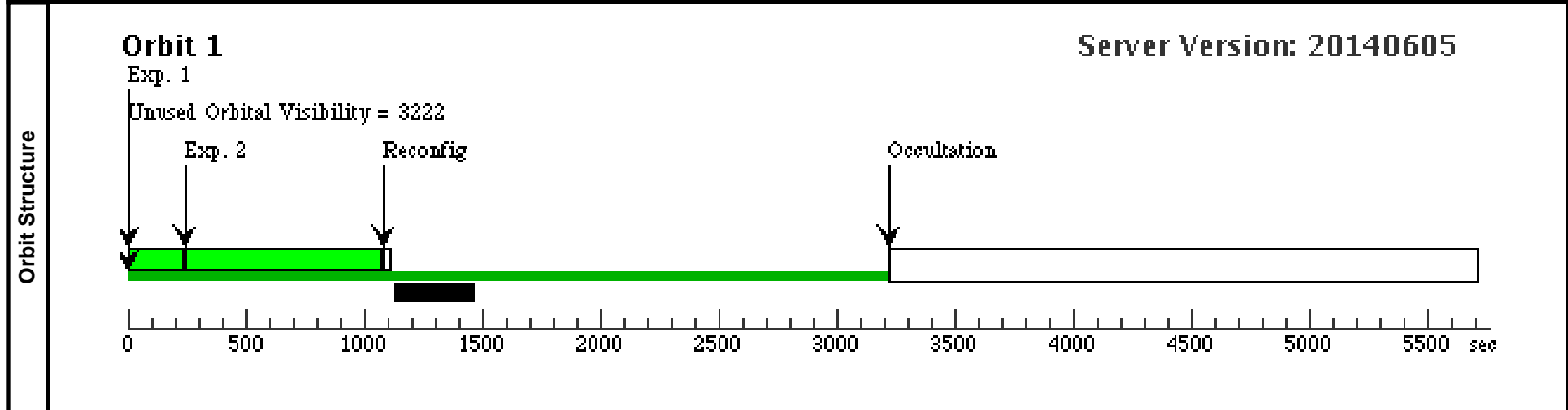


Proposal 14029 - Visit 07 - IR internal flats

Fri Oct 03 01:36:39 GMT 2014

Visit	Proposal 14029, Visit 07 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: GROUP 07,02,03,04,05,06,08,09,10,11,12,13 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]

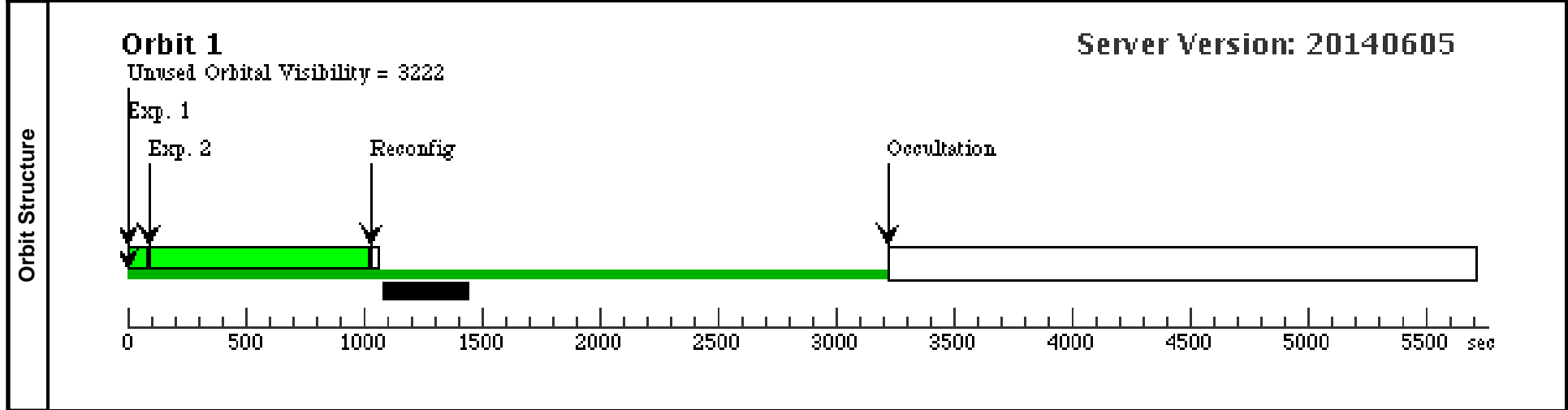


Proposal 14029 - Visit 08 - IR internal flats

Fri Oct 03 01:36:40 GMT 2014

Visit	Proposal 14029, Visit 08 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: GROUP 08,02,03,04,05,06,07,09,10,11,12,13 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	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]

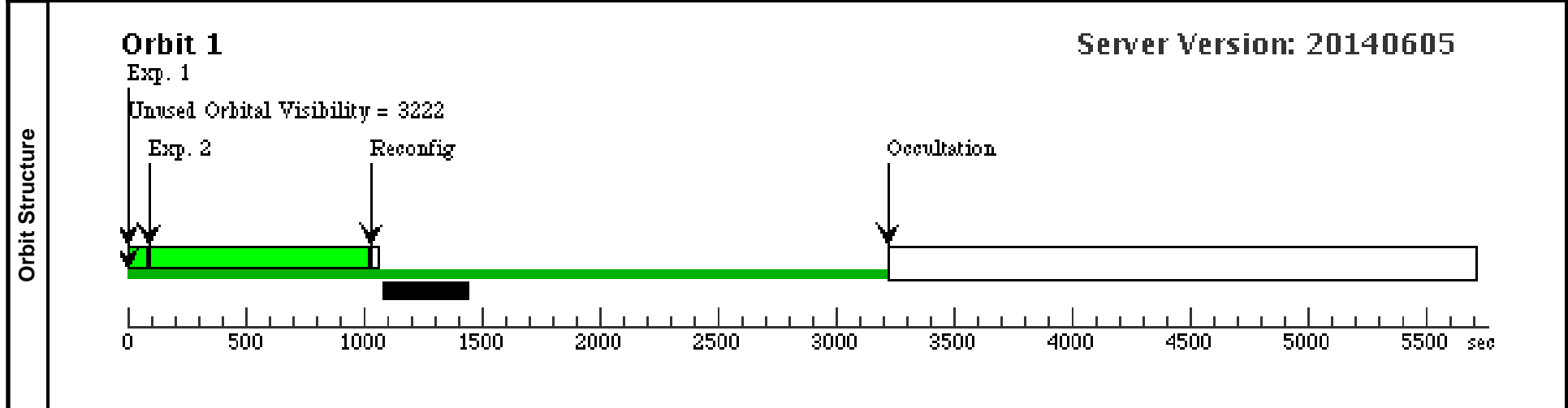


Proposal 14029 - Visit 09 - IR internal flats

Fri Oct 03 01:36:40 GMT 2014

Visit	Proposal 14029, Visit 09 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: GROUP 09,02,03,04,05,06,07,08,10,11,12,13 WITHIN 45D; SEQ 08,09 WITHIN 7 D <i>Comments: Part of a mid cycle group of visits in all filters.</i>							
--------------	--	--	--	--	--	--	--	--

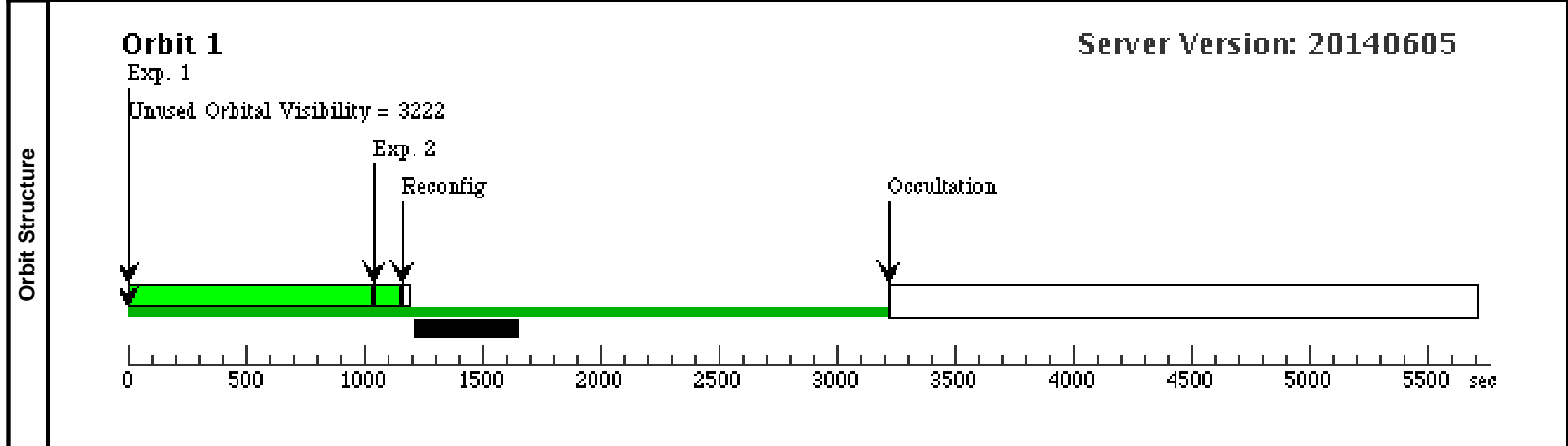
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F125W	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=6; SAMP-SEQ=SPAR S10				52.937106 Secs (52.937 Secs) [==>]
2	F128N	TUNGSTEN	WFC3/IR, MULTIACCUM, IR	F128N	NSAMP=10;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



Proposal 14029 - Visit 10 - IR internal flats

Visit	Proposal 14029, Visit 10 Fri Oct 03 01:36:40 GMT 2014 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: GROUP 10,02,03,04,05,06,07,08,09,11,12,13 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	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 14029 - Visit 11 - IR internal flats

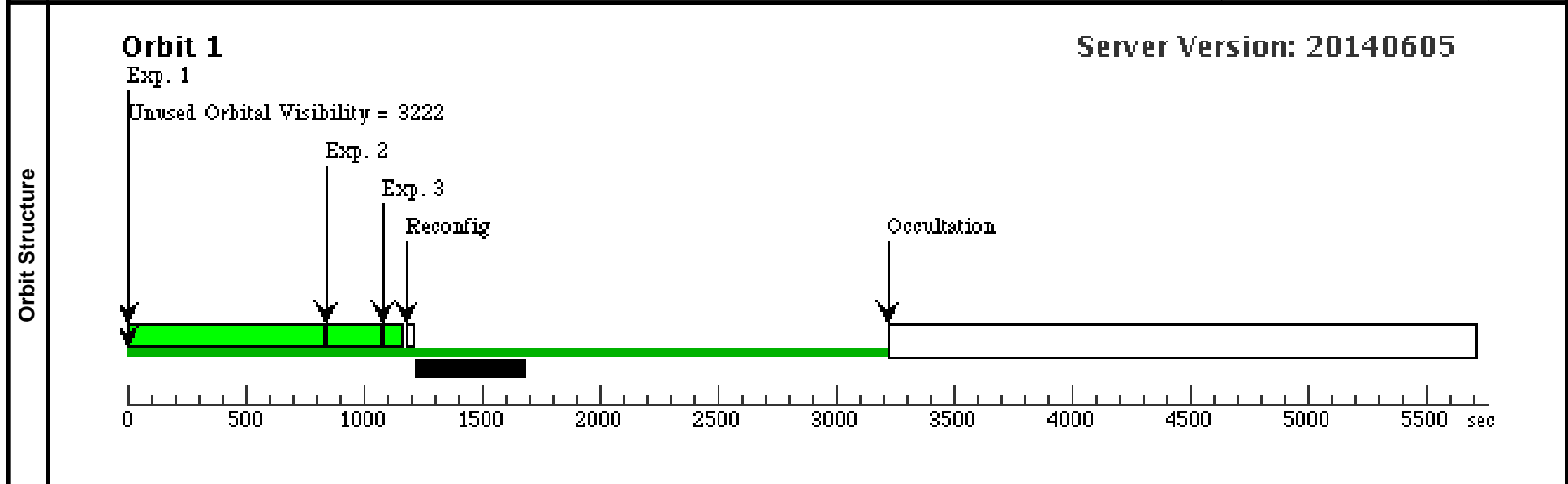
Visit	Proposal 14029, Visit 11 Fri Oct 03 01:36:40 GMT 2014 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: GROUP 11,02,03,04,05,06,07,08,09,10,12,13 WITHIN 45D; SEQ 10,11 WITHIN 7 D <i>Comments: Part of a mid cycle group of visits in all filters.</i>									
	Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]
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]
Orbit Structure Server Version: 20140605 Orbit 1 Exp. 1 Unused Orbital Visibility = 3222 Exp. 2 Reconfig Occultation <p>The diagram shows a horizontal timeline from 0 to 5500 seconds. A green bar represents the total orbital visibility. Within this bar, a smaller green segment represents the duration of the two exposures (Exp. 1 and Exp. 2). A black bar below the green bar indicates a reconfiguration period. A vertical line marks the start of an occultation period, which occurs after the reconfiguration and before the end of the orbital visibility period.</p>										

Proposal 14029 - Visit 12 - IR internal flats

Fri Oct 03 01:36:40 GMT 2014

Visit	Proposal 14029, Visit 12 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: GROUP 12,02,03,04,05,06,07,08,09,10,11,13 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]

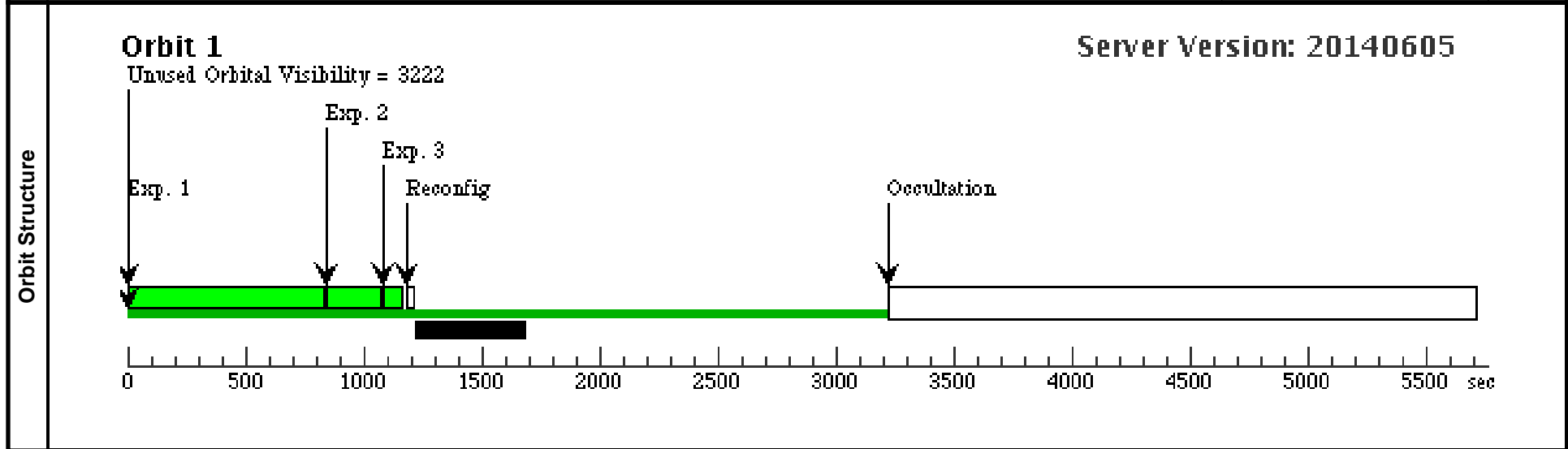


Proposal 14029 - Visit 13 - IR internal flats

Fri Oct 03 01:36:40 GMT 2014

Visit	Proposal 14029, Visit 13									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: GROUP 13,02,03,04,05,06,07,08,09,10,11,12 WITHIN 45D; SEQ 12,13 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	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]

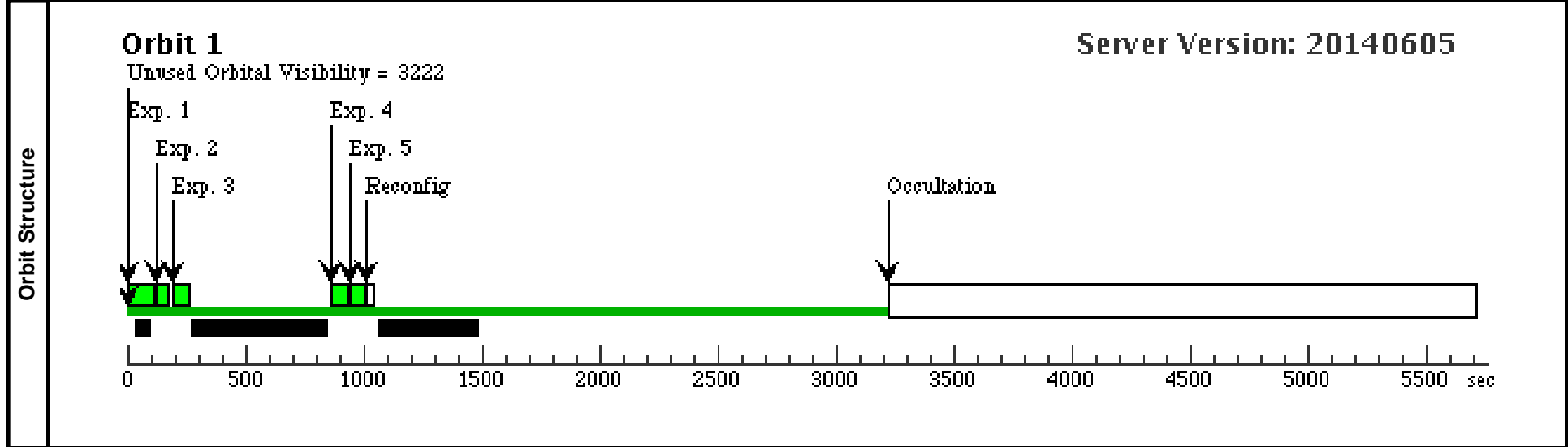


Proposal 14029 - Visit 14 - IR internal flats

Fri Oct 03 01:36:40 GMT 2014

Visit	Proposal 14029, Visit 14									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: BETWEEN 01-DEC-2014:00:00:00 AND 31-DEC-2014:00:00:00 <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]

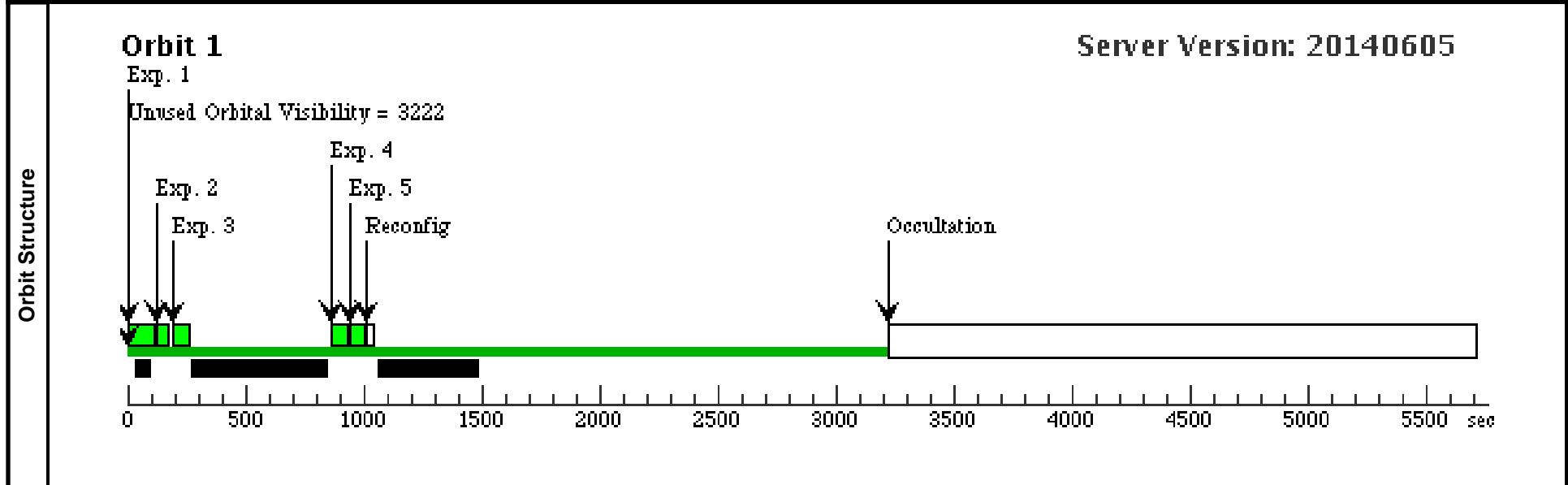


Proposal 14029 - Visit 15 - IR internal flats

Fri Oct 03 01:36:40 GMT 2014

Visit	Proposal 14029, Visit 15 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: GROUP 15,14,16 WITHIN 30D 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]

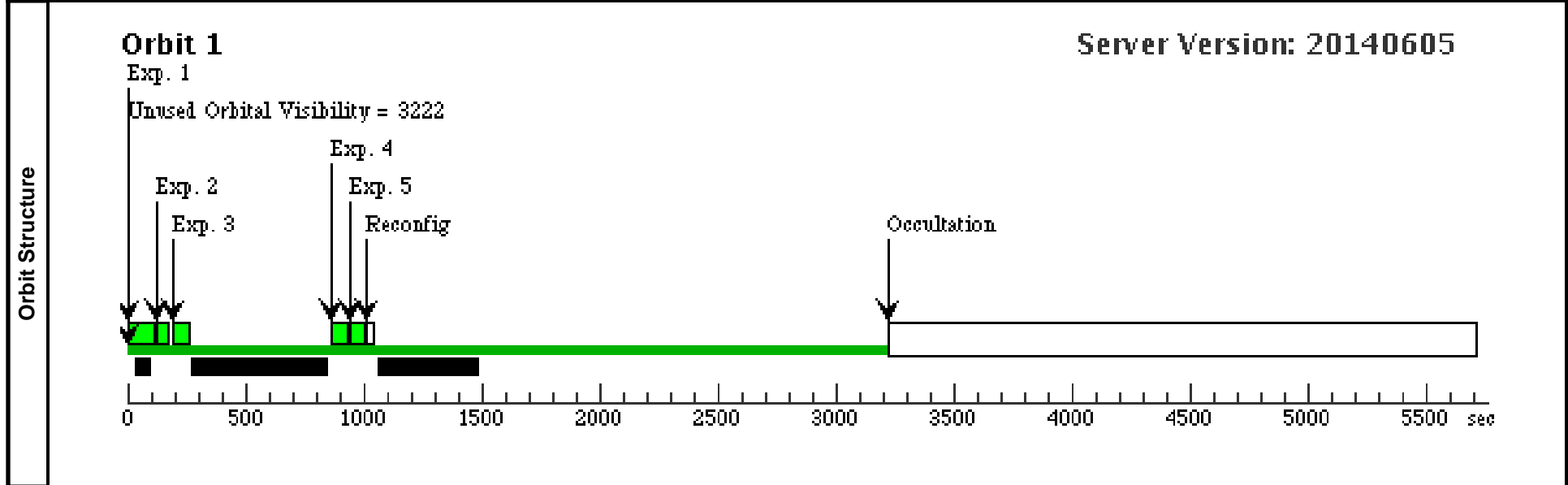


Proposal 14029 - Visit 16 - IR internal flats

Fri Oct 03 01:36:40 GMT 2014

Visit	Proposal 14029, Visit 16 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: GROUP 16,14,15 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]

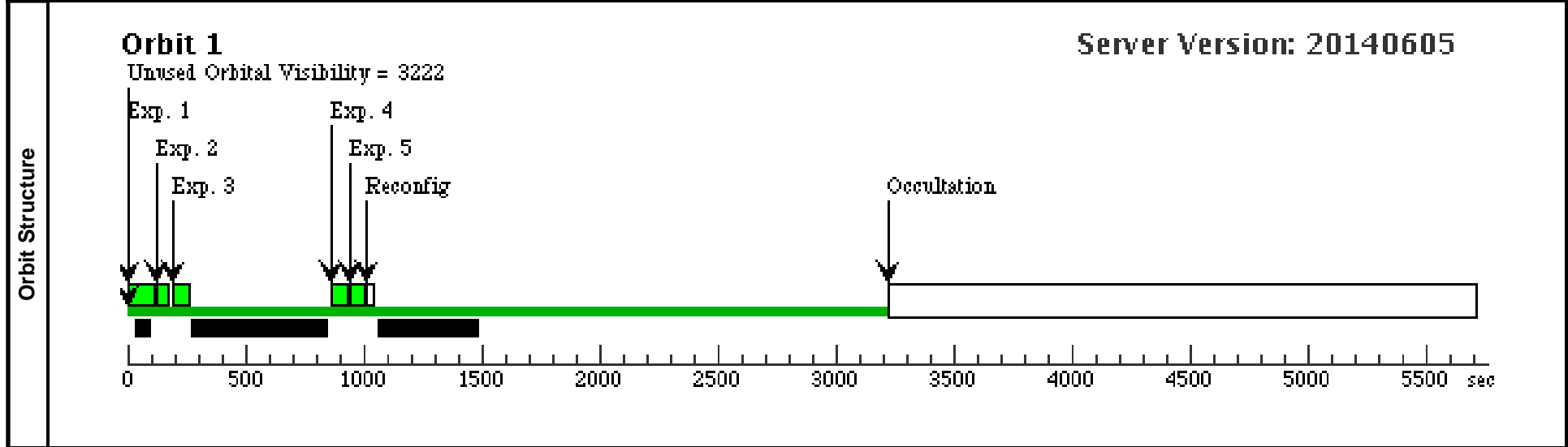


Proposal 14029 - Visit 17 - IR internal flats

Fri Oct 03 01:36:40 GMT 2014

Visit	Proposal 14029, Visit 17									
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: WFC3/IR									
	Special Requirements: BETWEEN 01-SEP-2015:00:00:00 AND 30-SEP-2015:00:00:00									
	<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)	[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]	

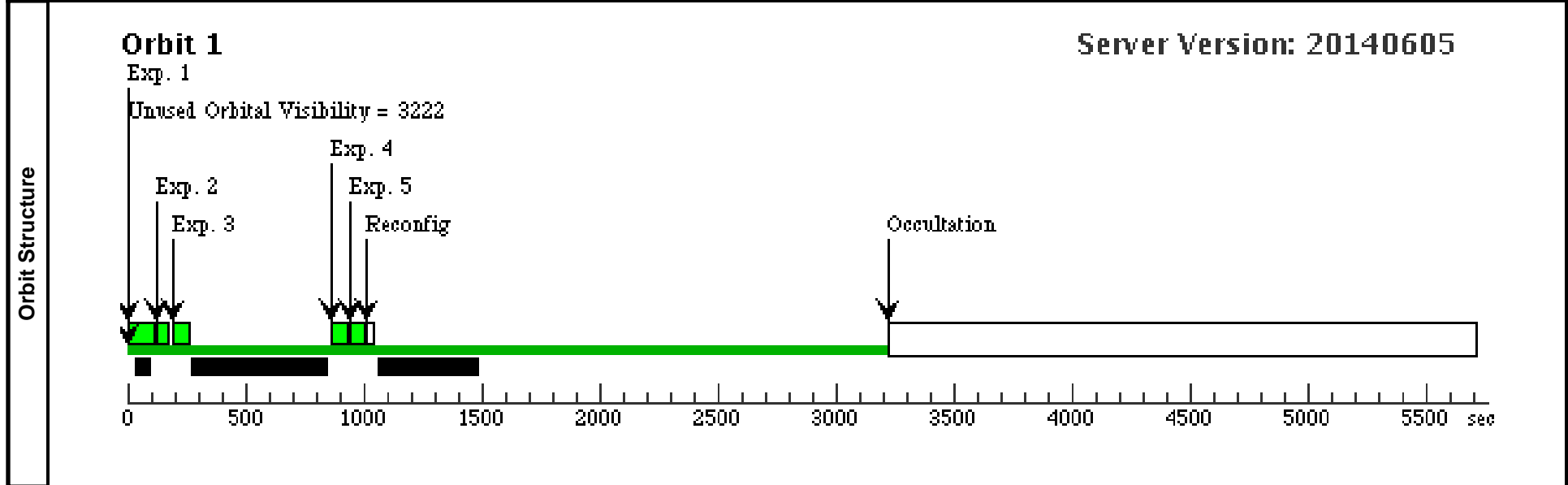


Proposal 14029 - Visit 18 - IR internal flats

Fri Oct 03 01:36:40 GMT 2014

Visit	Proposal 14029, Visit 18 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: GROUP 18,17,19 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 14029 - Visit 19 - IR internal flats

Fri Oct 03 01:36:40 GMT 2014

Visit	Proposal 14029, Visit 19 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: GROUP 19,17,18 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]

