



14704 - A Year in the Whirlpool

Cycle: 24, Proposal Category: GO

(Availability Mode: SUPPORTED)

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	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:03:20.0	yes
02	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:03:23.0	yes
03	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:03:25.0	yes

Proposal 14704 (STScI Edit Number: 10, Created: Tuesday, January 17, 2017 9:04:28 PM EST) - Overview

<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>
04	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:03:27.0	yes
05	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:03:29.0	yes
06	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:03:31.0	yes
07	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:03:33.0	yes
08	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:03:35.0	yes
09	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:03:37.0	yes
10	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:03:39.0	yes
11	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:03:41.0	yes
12	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:03:42.0	yes

Proposal 14704 (STScI Edit Number: 10, Created: Tuesday, January 17, 2017 9:04:28 PM EST) - Overview

<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	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:03:45.0	yes
14	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:03:47.0	yes
15	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:03:49.0	yes
16	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:03:50.0	yes
17	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:03:52.0	yes
18	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:03:54.0	yes
19	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:03:56.0	yes
20	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:03:58.0	yes
21	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:04:00.0	yes

Proposal 14704 (STScI Edit Number: 10, Created: Tuesday, January 17, 2017 9:04:28 PM EST) - Overview

<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>
22	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:04:02.0	yes
23	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:04:04.0	yes
24	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:04:06.0	yes
25	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:04:08.0	yes
26	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:04:09.0	yes
27	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:04:11.0	yes
28	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:04:13.0	yes
29	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:04:15.0	yes
30	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:04:17.0	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>
31	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:04:19.0	yes
32	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:04:21.0	yes
33	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:04:23.0	yes
34	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:04:24.0	yes
35	(1) M-51 ANY	ACS/WFC WFC3/IR WFC3/UVIS	2	17-Jan-2017 21:04:27.0	yes

70 Total Orbits Used

ABSTRACT

The goal of this proposal is to derive the spatially-resolved star formation history (SFH) of the Whirlpool Galaxy (M51), a nearby face-on grand design spiral. Ages will be estimated from the periods and luminosities of long period variable stars (LPVs), which are very luminous, cool evolved stars. We propose to measure these periods and luminosities by monitoring M51 over 365 d with 34 discrete visits. Simulated observations including the effects of variable stars imply that 50% of pixels will show >2% flux variation over the 365 d baseline. The derived SFH map will be used to address a number of key questions including the morphology and mass of the ancient stellar component, the radial extent of the galaxy as a function of age, the SFH within, along, and in between the spiral arms, and the SFH of the central mass concentration. The visits will be randomly spaced in time in order to maintain sensitivity to a wide range of variable star periods and transients besides LPVs (including Cepheids, LBVs, and novae). Coordinated parallel observations will provide images outside of M51's disk, enabling the characterization of the stellar population of its halo.

OBSERVING DESCRIPTION

We require one orbit depth in each of F606W and F814W for each of 34 separate visits in order to measure pixel light curves at the required precision. The data will be obtained at a number of orientation angles and we will employ a standard 4-pt dither pattern with sub-pixel offsets to provide optimal sampling and enable the identification of cosmic rays and hot pixels. The cadence was chosen to be pseudo-random in time in order to properly sample the underlying light curves.

We require two orbit depth in each parallel field in the stellar halo in WFC3 F110W and F606W in order to isolate halo stars from the background, determine an RGB stellar density map, and estimate photometric metallicities. The WFC3 ETC reports that a S/N=10 detection of a 27 mag (AB) RGB star requires 4000s (2 orbits) in both F110W and F606W. In order to achieve the requested depth in the halo, each orientation ideally will receive two visits, since each visit is only of single orbit depth in each filter. No orientation constraints have been specified in the current Phase II proposal. We will select orientations once the visits have plan windows assigned in an attempt to ensure that halo fields receive at least two orbit depth.

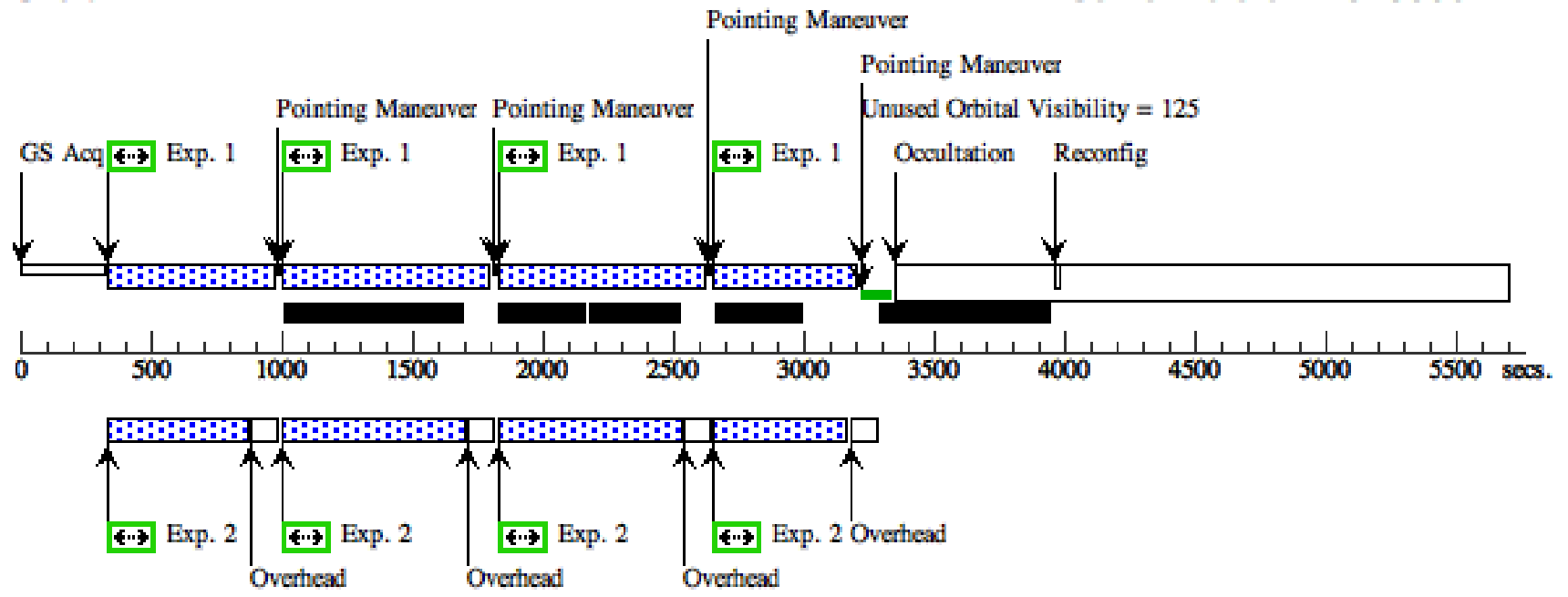
Proposal 14704 - Visit 01 - A Year in the Whirlpool

Wed Jan 18 02:04:28 GMT 2017

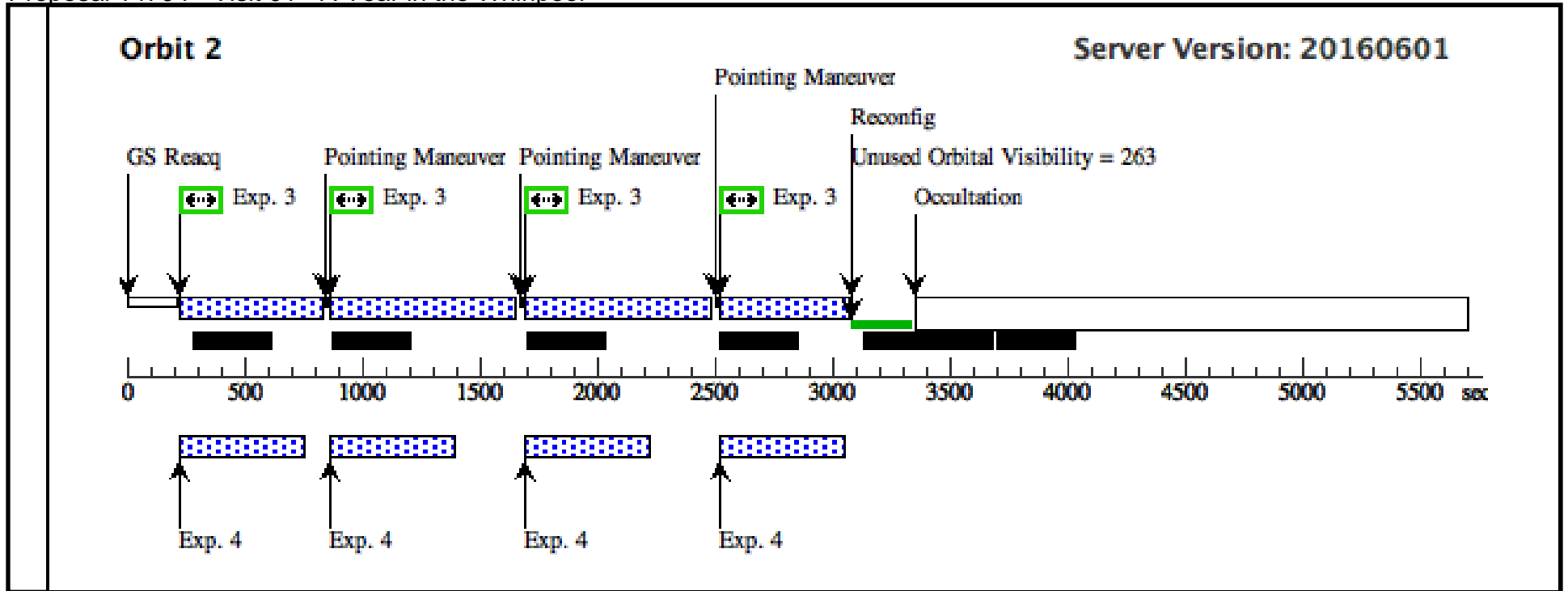
Visit	Proposal 14704, Visit 01, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: ORIENT 8D TO 10 D; BETWEEN 04-OCT-2016:00:00:00 AND 06-OCT-2016:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-2 in Visit 01 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 01	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670.0 Secs (Pattern 3)] [==>430.0 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 01 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 01	500 Secs (2420 Secs) [==>510.0 Secs (Pattern 1)] [==>700.0 Secs (Pattern 2)] [==>700.0 Secs (Pattern 3)] [==>510.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 01 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 01	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670.0 Secs (Pattern 3)] [==>430.0 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPAR S100		Pattern 1, Exps 3-4 in Visit 01 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 01	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



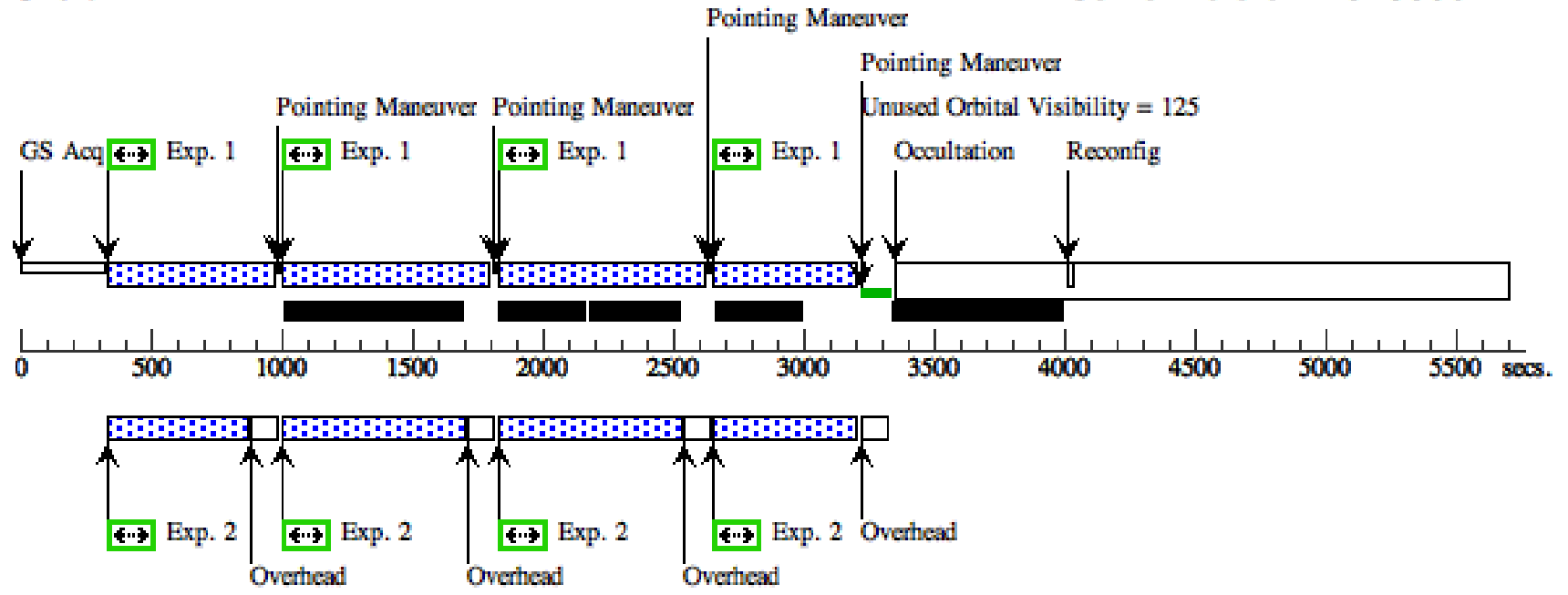
Proposal 14704 - Visit 02 - A Year in the Whirlpool

Wed Jan 18 02:04:29 GMT 2017

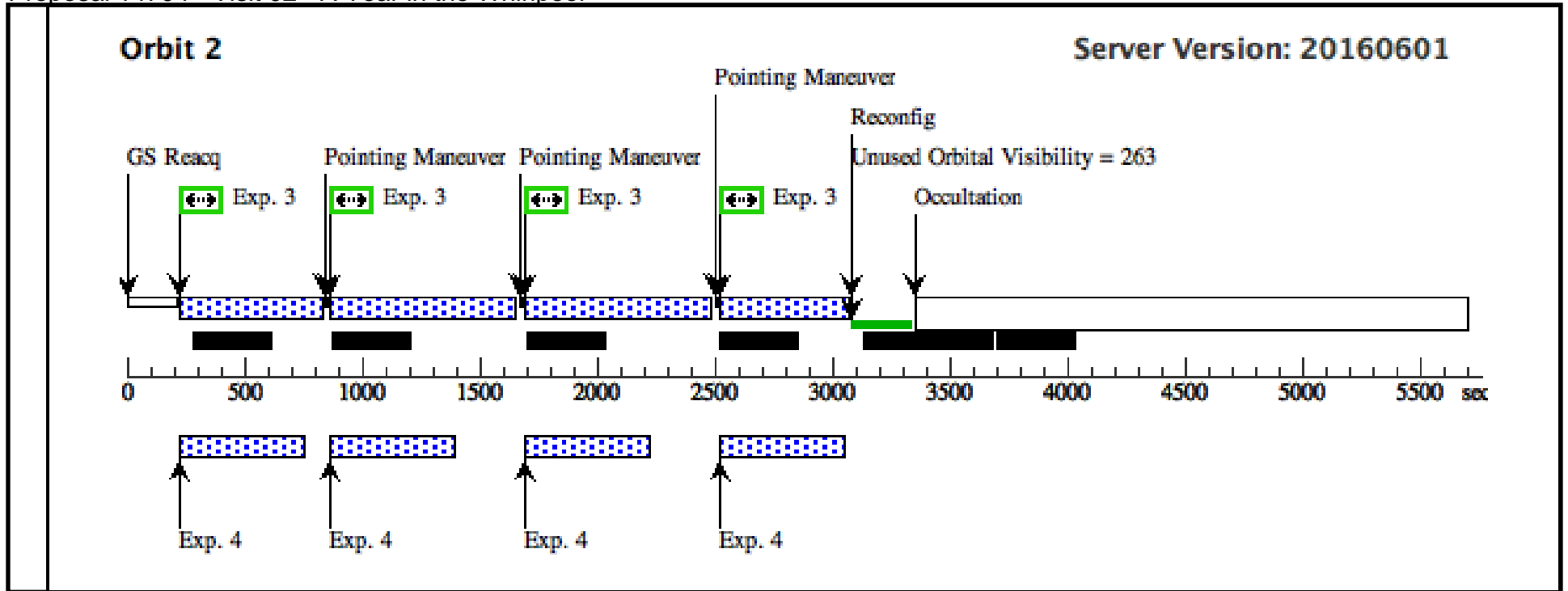
Visit	Proposal 14704, Visit 02, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: ORIENT 5D TO 7 D: BETWEEN 14-OCT-2016:00:00:00 AND 16-OCT-2016:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-2 in Visit 02 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 02	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 02 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 02	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 02 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 02	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPAR S100		Pattern 1, Exps 3-4 in Visit 02 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 02	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



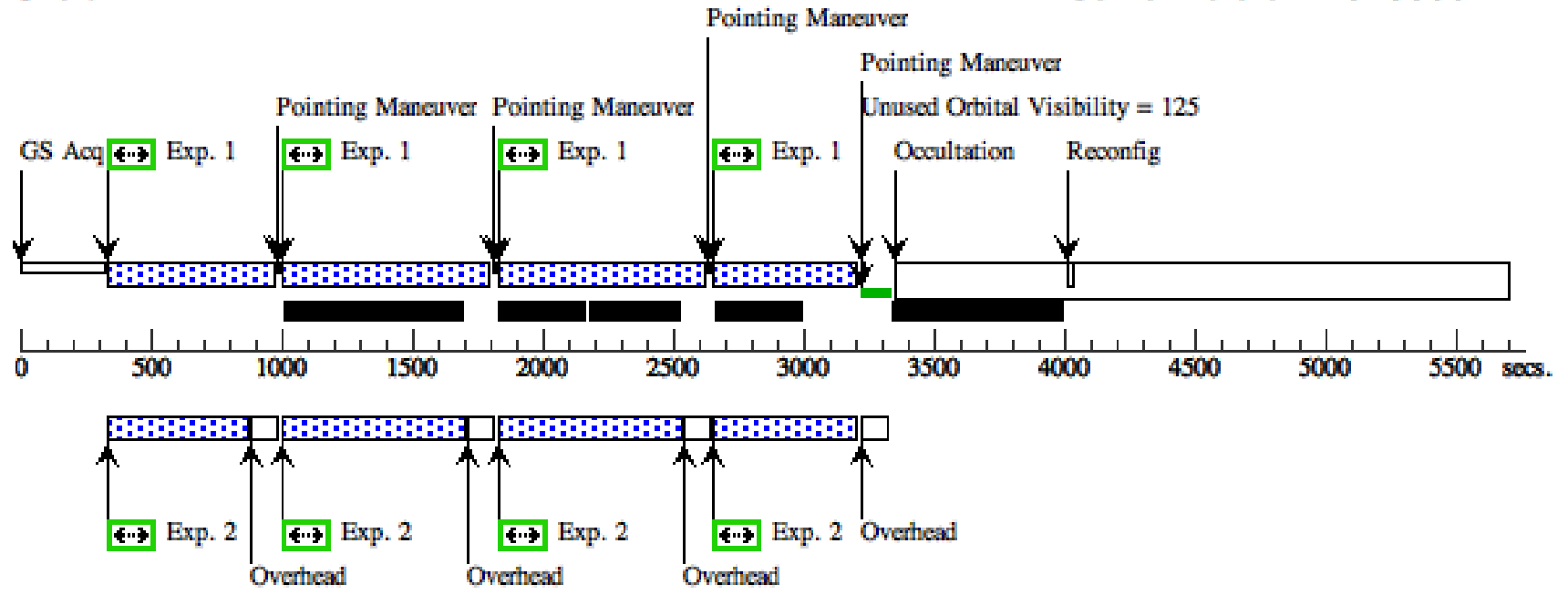
Proposal 14704 - Visit 03 - A Year in the Whirlpool

Wed Jan 18 02:04:29 GMT 2017

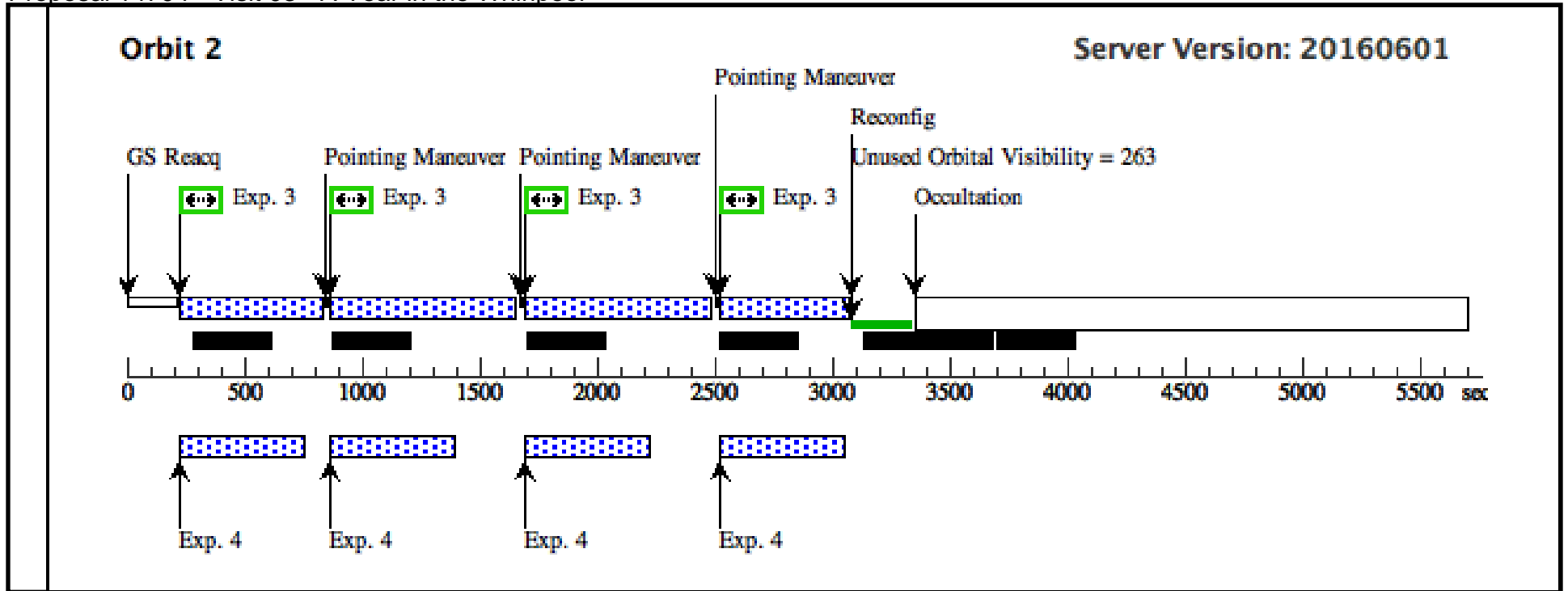
Visit	Proposal 14704, Visit 03, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: BETWEEN 07-NOV-2016:00:00:00 AND 09-NOV-2016:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W		GS ACQ SCENARIO BASE1B3	Pattern 1, Exps 1-2 in Visit 03 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 03	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 03 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 03	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 03 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 03	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPARS100		Pattern 1, Exps 3-4 in Visit 03 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 03	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



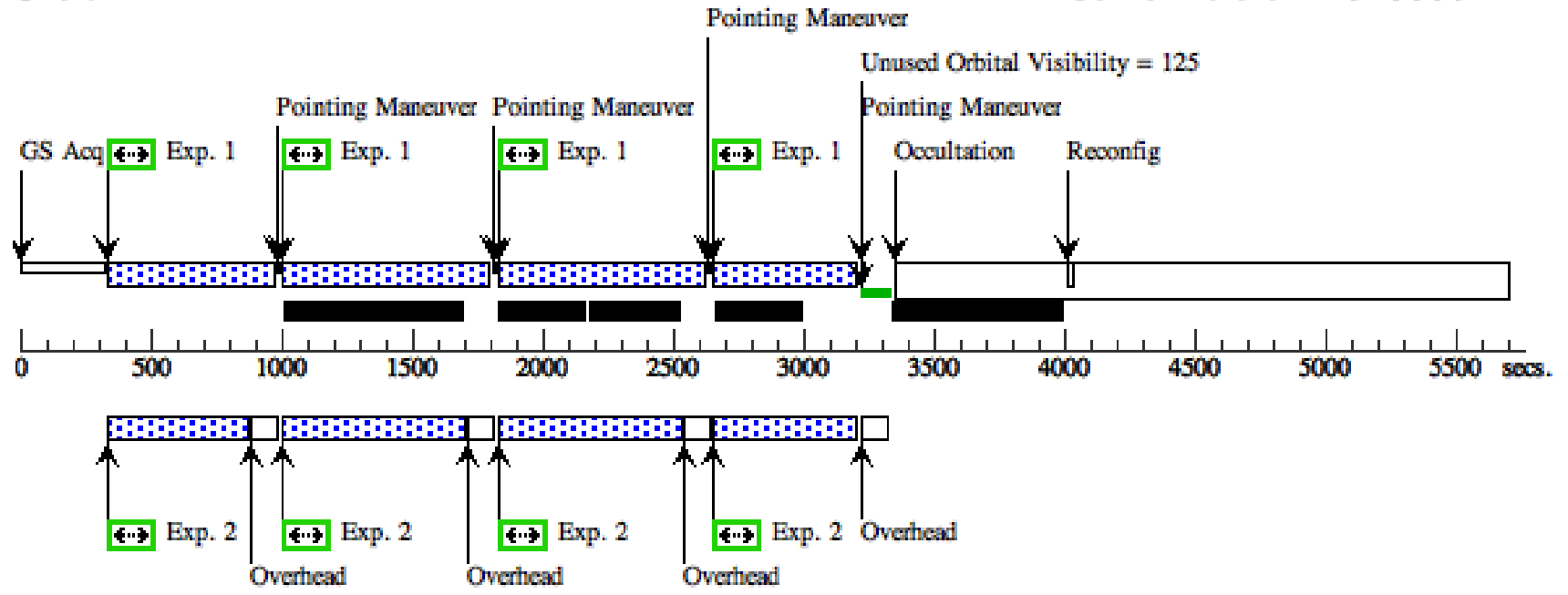
Proposal 14704 - Visit 04 - A Year in the Whirlpool

Wed Jan 18 02:04:29 GMT 2017

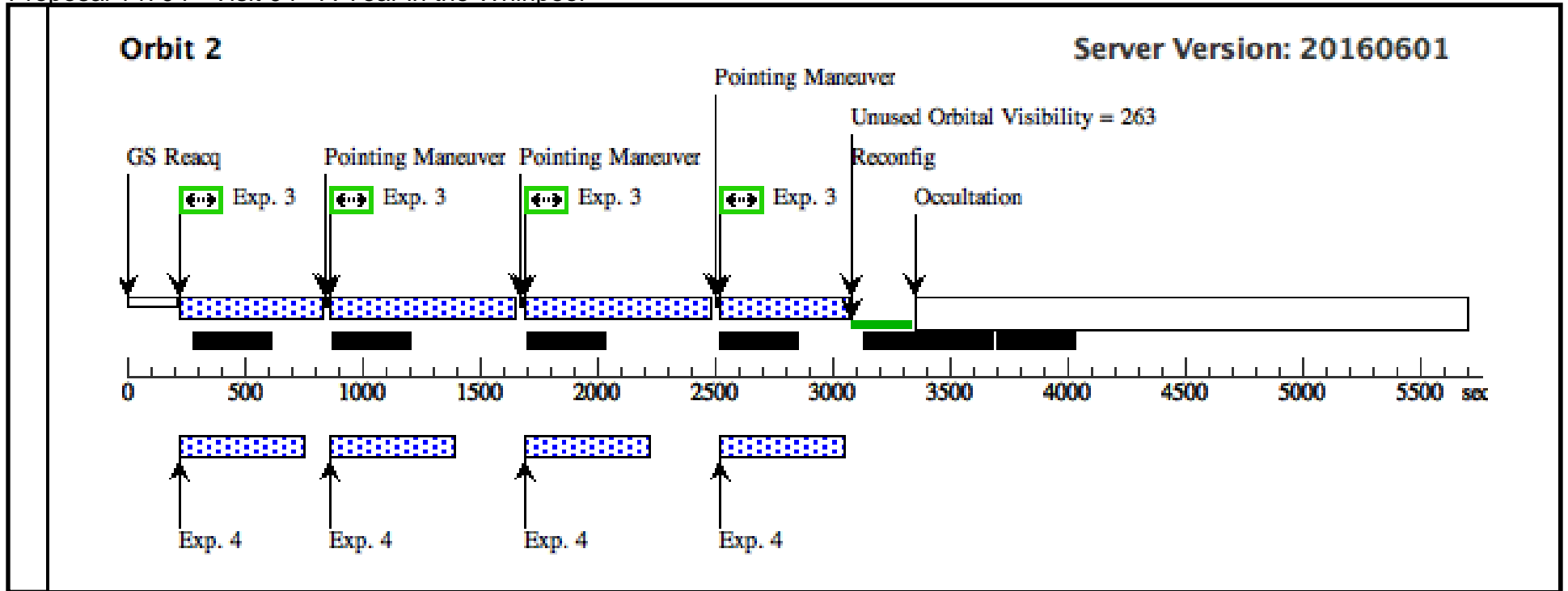
Visit	Proposal 14704, Visit 04, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 03; BETWEEN 11-NOV-2016:00:00:00 AND 13-NOV-2016:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W		GS ACQ SCENARIO BASE1B3	Pattern 1, Exps 1-2 in Visit 04 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 04	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 04 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 04	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 04 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 04	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPAR S100		Pattern 1, Exps 3-4 in Visit 04 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 04	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



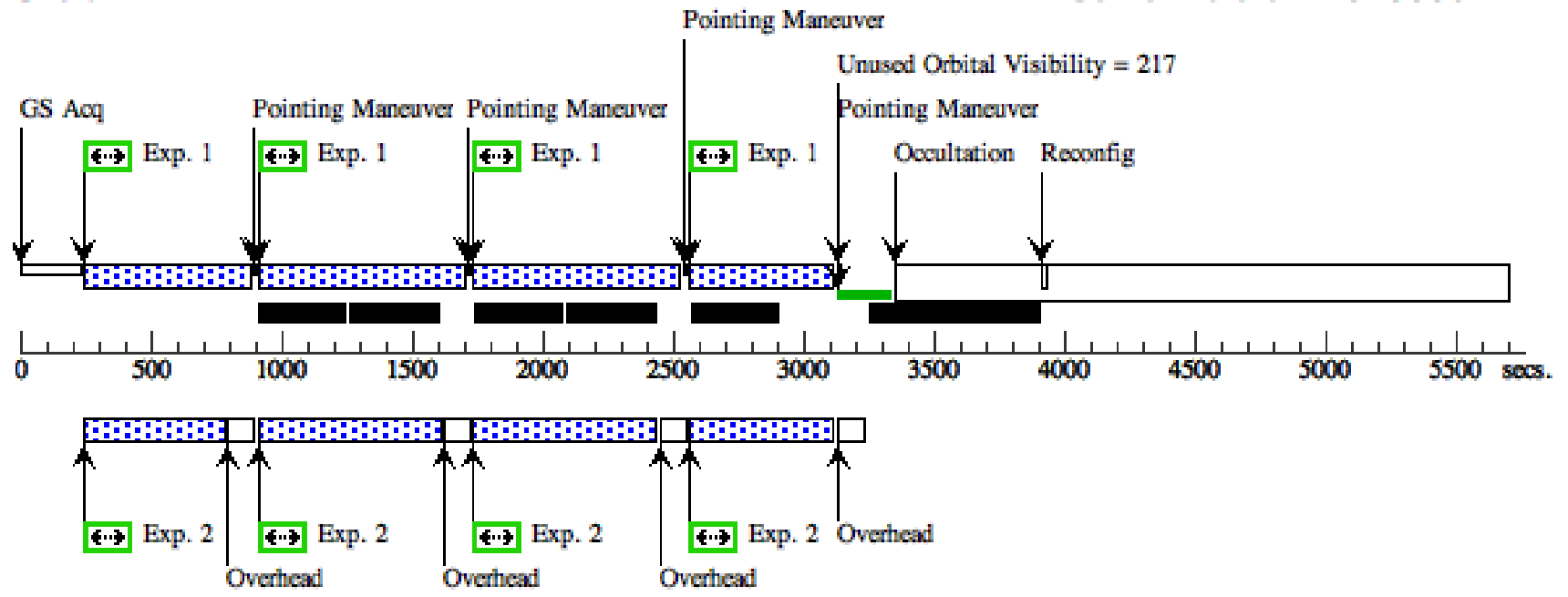
Proposal 14704 - Visit 05 - A Year in the Whirlpool

Wed Jan 18 02:04:29 GMT 2017

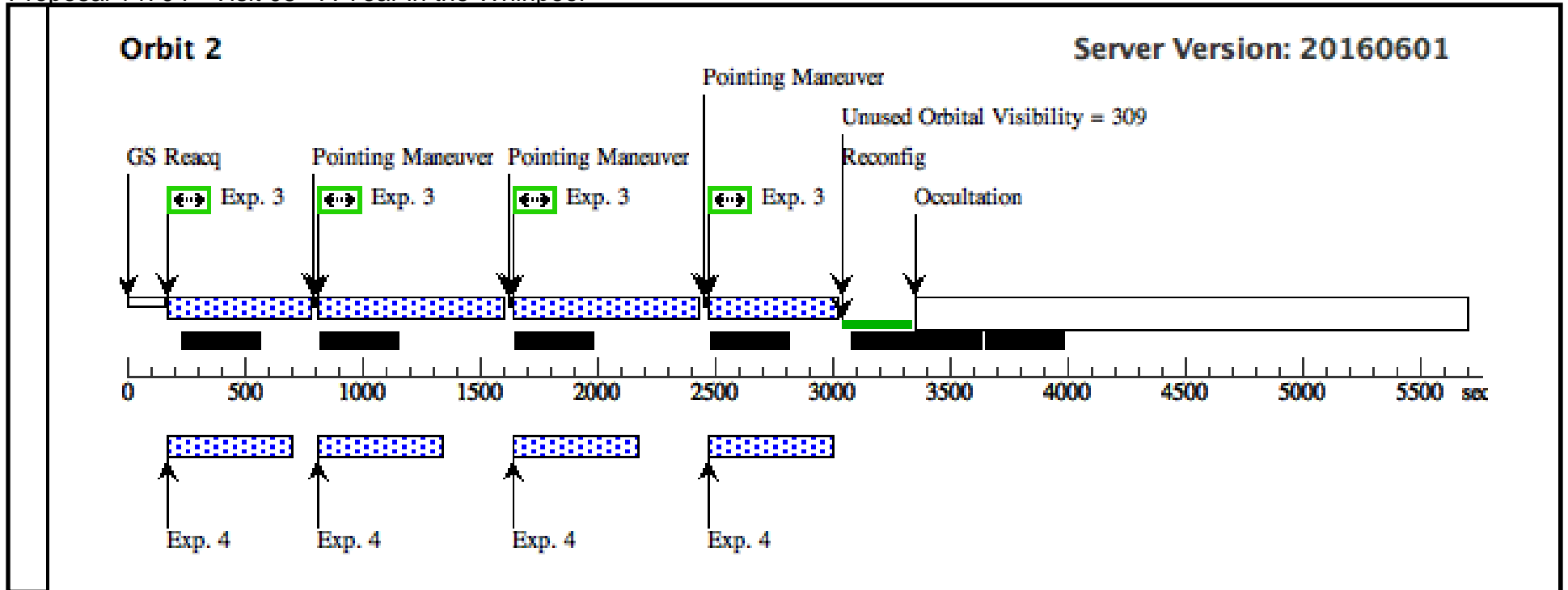
Visit	Proposal 14704, Visit 05, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: BETWEEN 27-NOV-2016:00:00:00 AND 29-NOV-2016:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W		GS ACQ SCENARIO ONEB1B3	Pattern 1, Exps 1-2 in Visit 05 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 05	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 05 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 05	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 05 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 05	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W		NSAMP=6; SAMP-SEQ=SPARS100	Pattern 1, Exps 3-4 in Visit 05 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 05	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



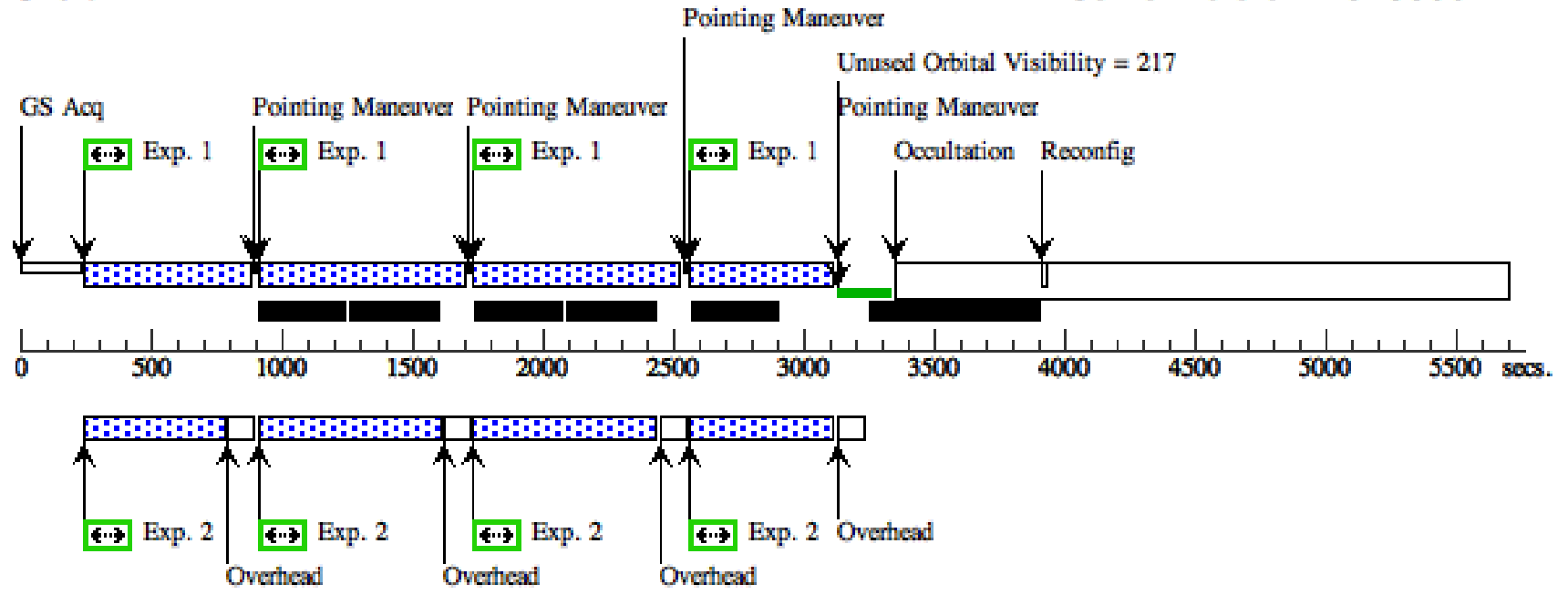
Proposal 14704 - Visit 06 - A Year in the Whirlpool

Wed Jan 18 02:04:29 GMT 2017

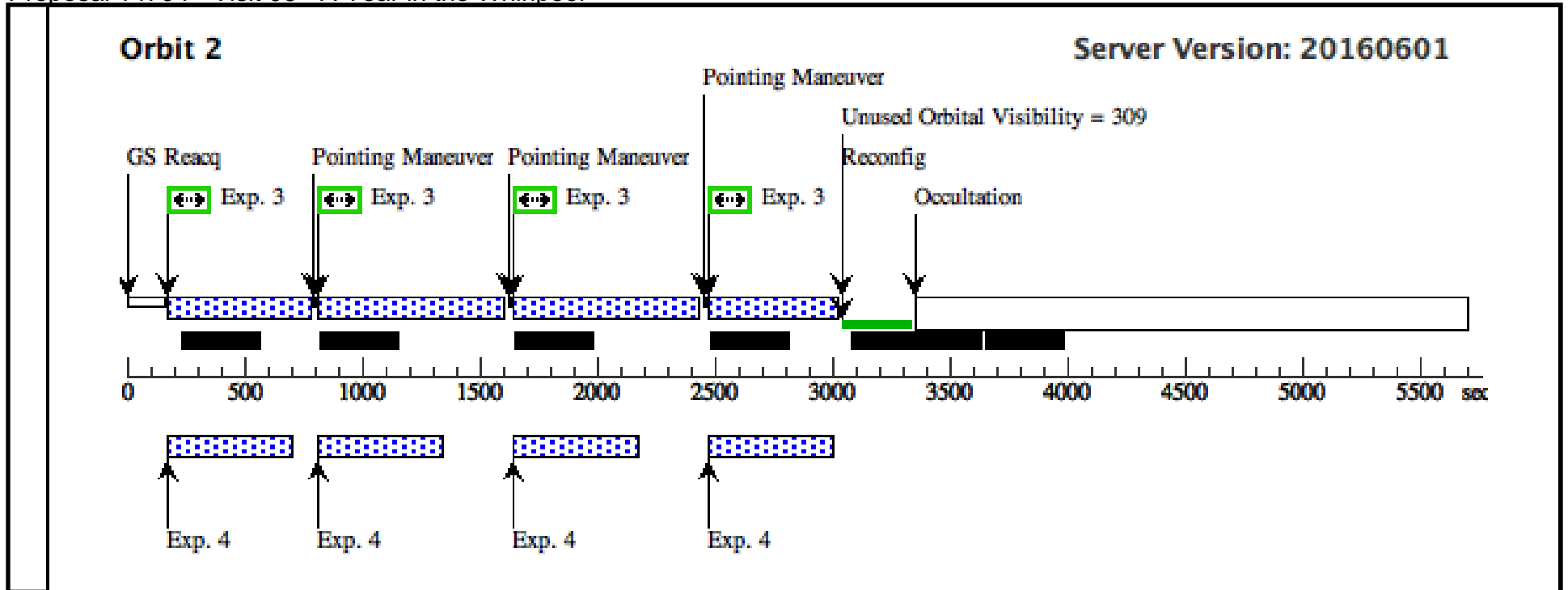
Visit	Proposal 14704, Visit 06, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 05; BETWEEN 07-DEC-2016:00:00:00 AND 08-DEC-2016:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W		GS ACQ SCENARIO ONEB1B3	Pattern 1, Exps 1-2 in Visit 06 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 06	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 06 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 06	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 06 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 06	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W		NSAMP=6; SAMP-SEQ=SPAR S100	Pattern 1, Exps 3-4 in Visit 06 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 06	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



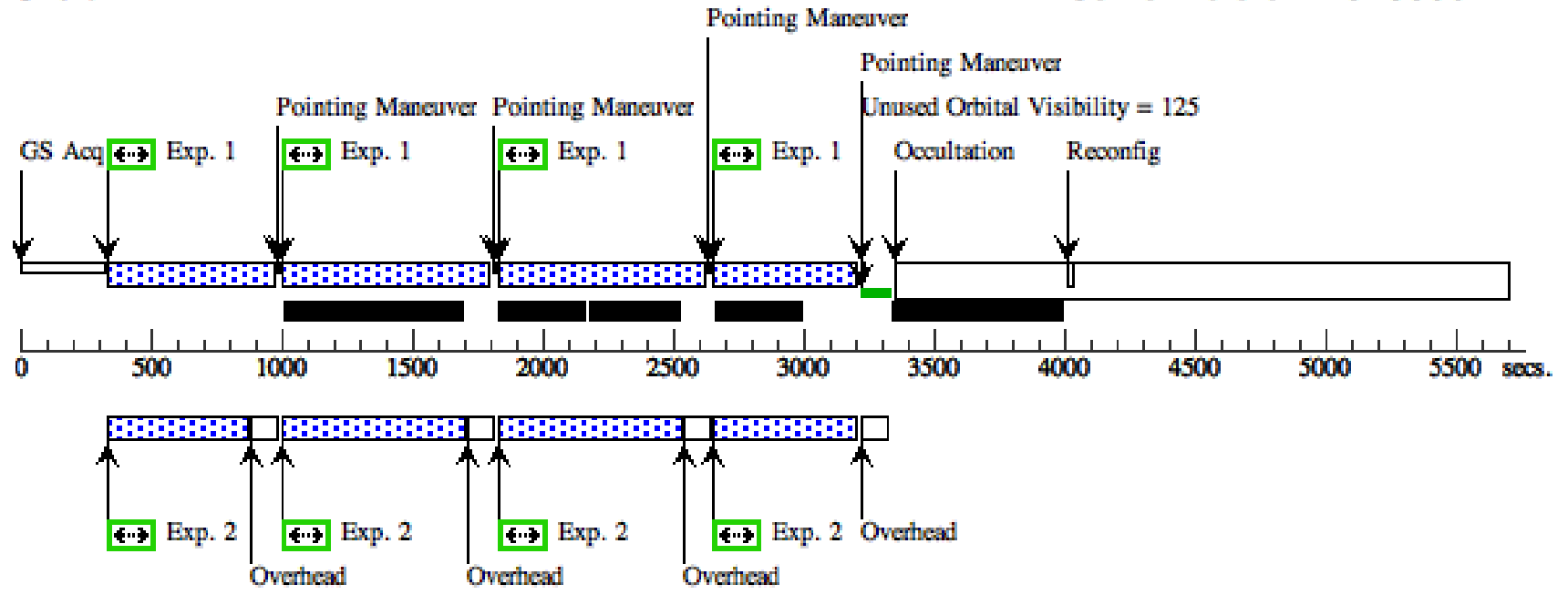
Proposal 14704 - Visit 07 - A Year in the Whirlpool

Wed Jan 18 02:04:29 GMT 2017

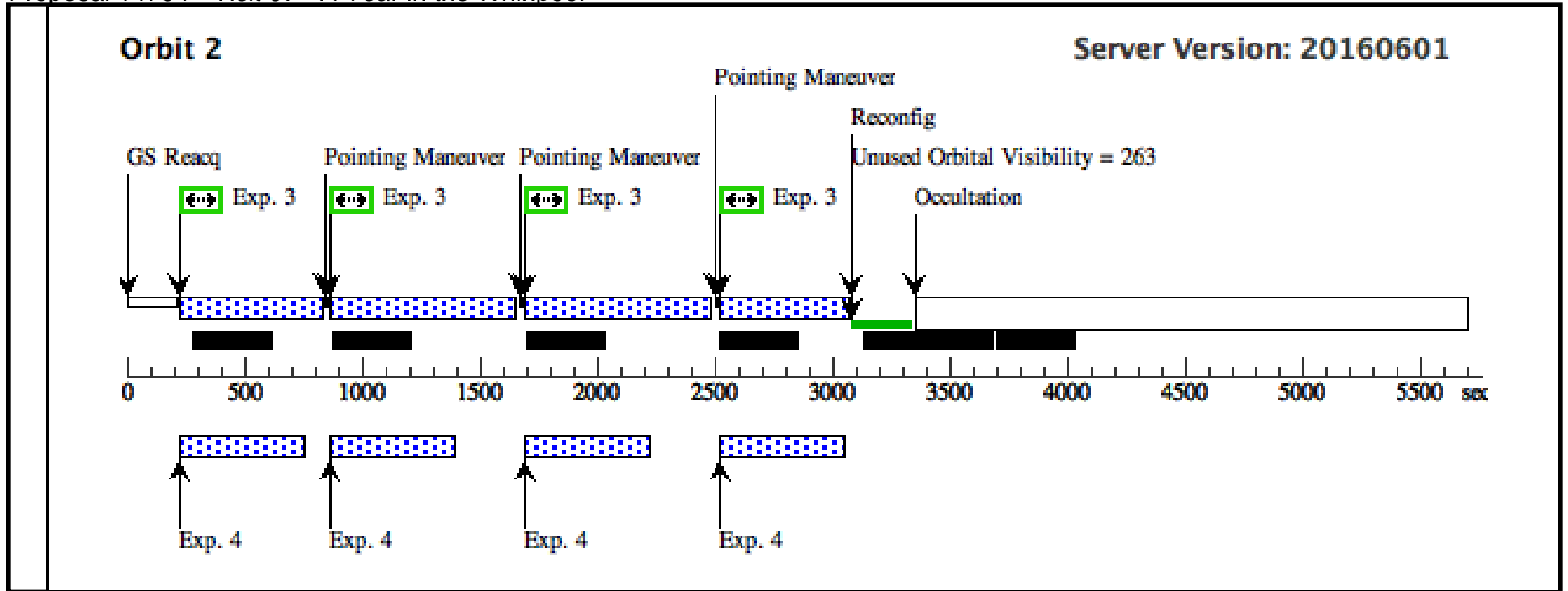
Visit	Proposal 14704, Visit 07, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: BETWEEN 31-DEC-2016:00:00:00 AND 02-JAN-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-2 in Visit 07 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 07	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 07 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 07	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 07 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 07	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPAR S100		Pattern 1, Exps 3-4 in Visit 07 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 07	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



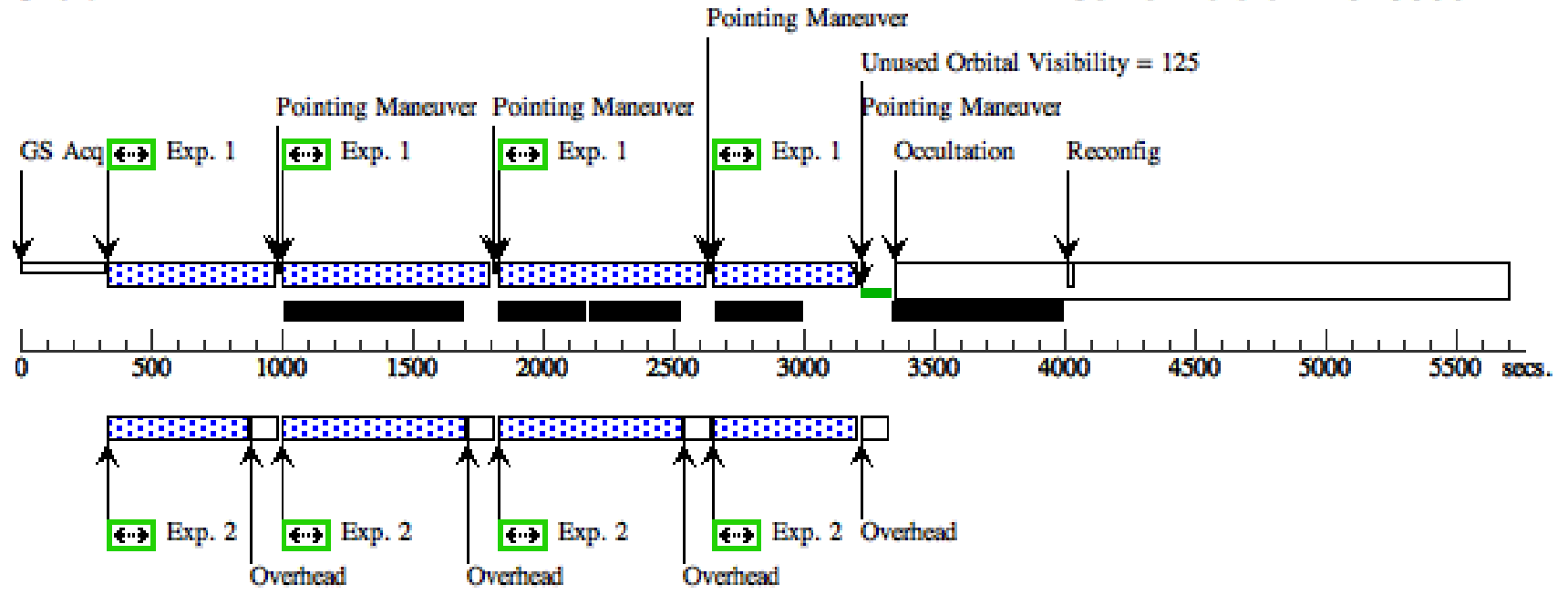
Proposal 14704 - Visit 08 - A Year in the Whirlpool

Wed Jan 18 02:04:29 GMT 2017

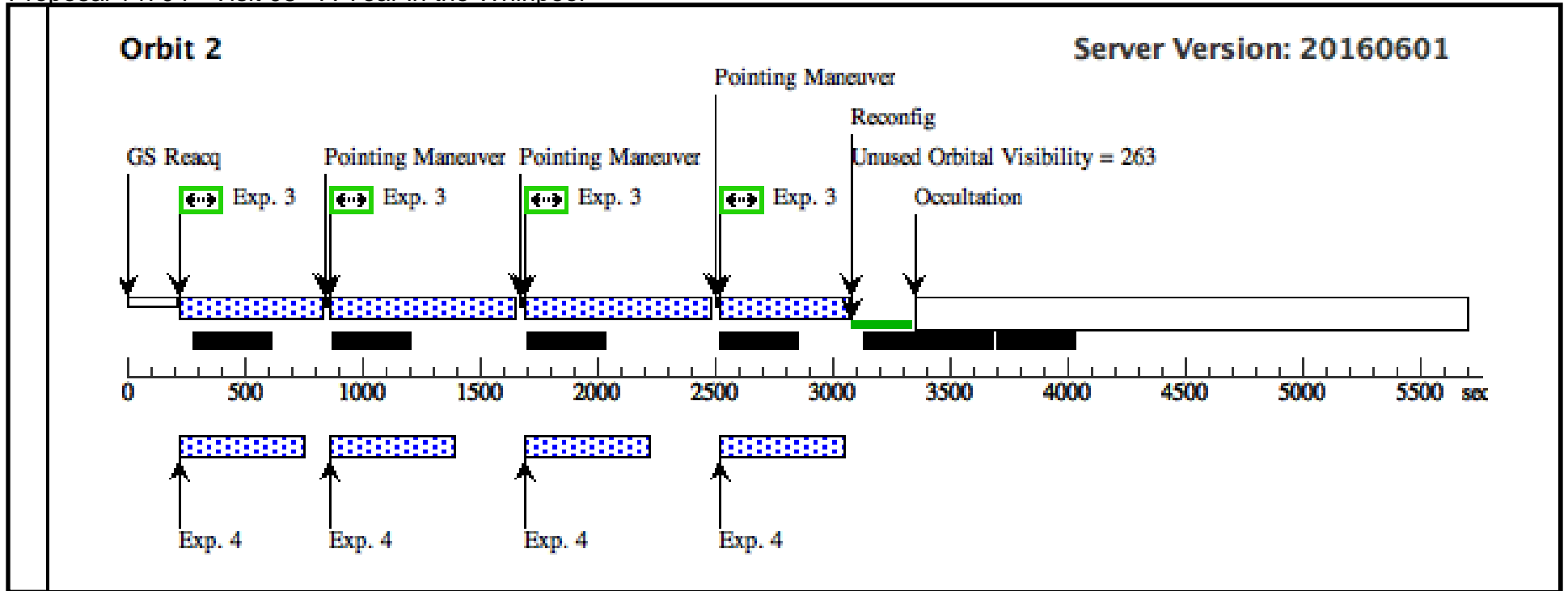
Visit	Proposal 14704, Visit 08, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 07; BETWEEN 06-JAN-2017:00:00:00 AND 08-JAN-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-2 in Visit 08 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 08	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 08 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 08	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 08 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 08	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPAR S100		Pattern 1, Exps 3-4 in Visit 08 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 08	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



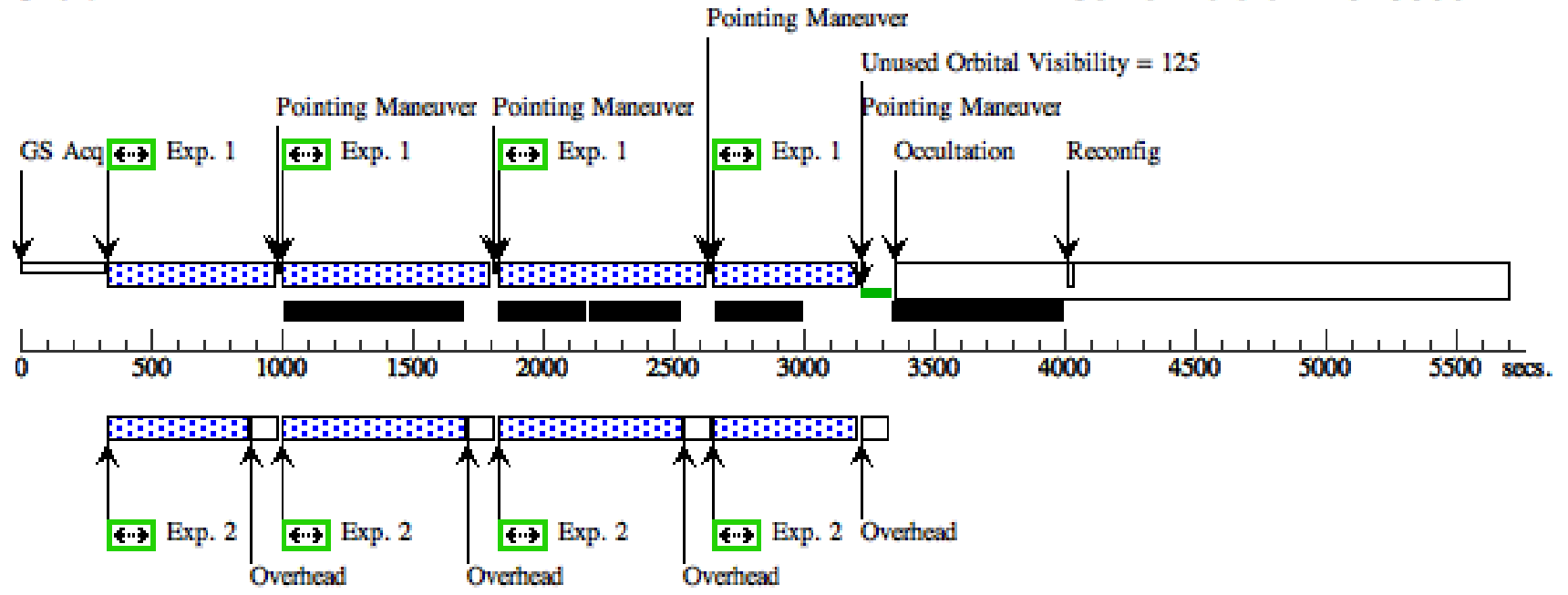
Proposal 14704 - Visit 09 - A Year in the Whirlpool

Wed Jan 18 02:04:29 GMT 2017

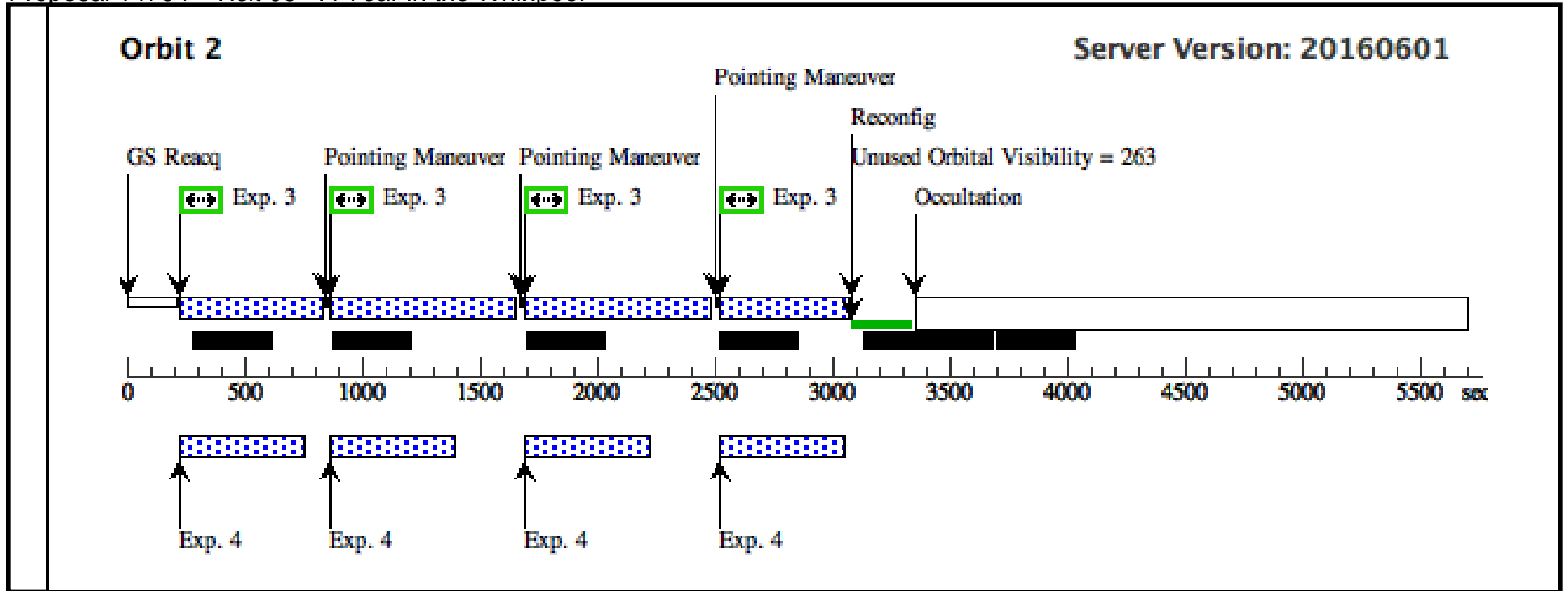
Visit	Proposal 14704, Visit 09, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: BETWEEN 14-JAN-2017:00:00:00 AND 16-JAN-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-2 in Visit 09 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 09	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 09 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 09	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 09 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 09	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPAR S100		Pattern 1, Exps 3-4 in Visit 09 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 09	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



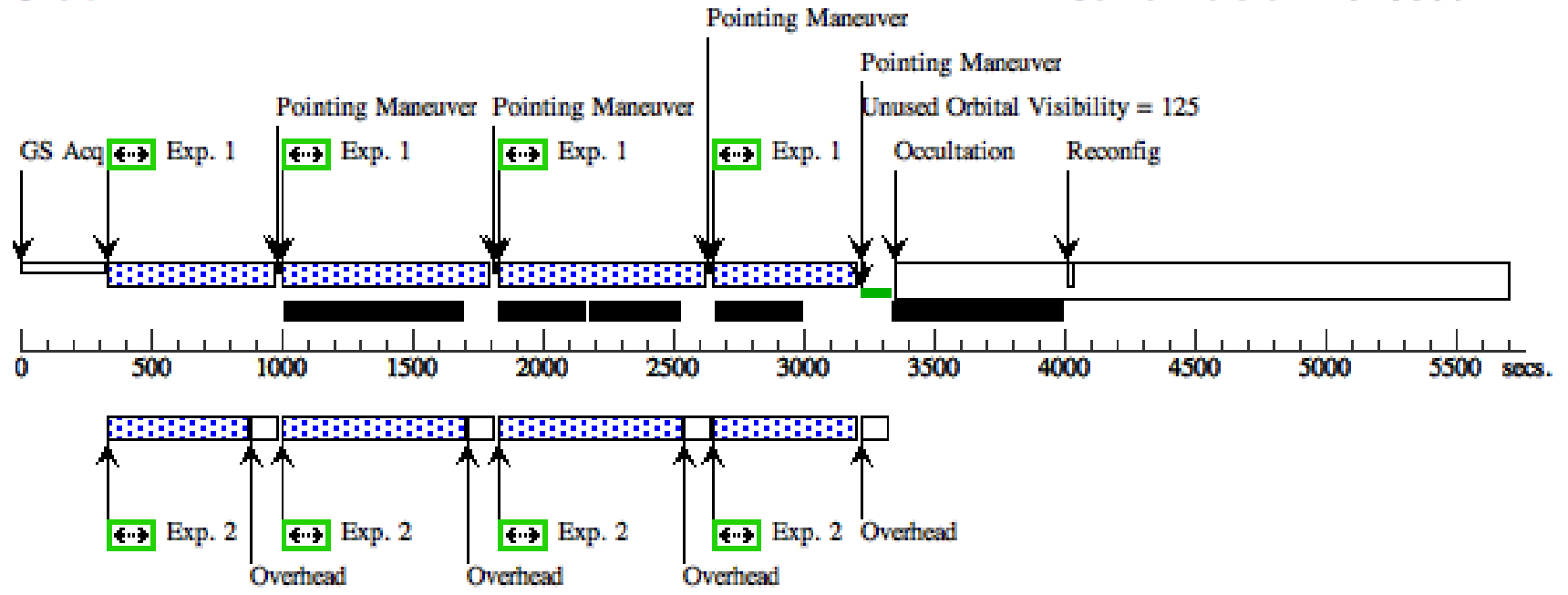
Proposal 14704 - Visit 10 - A Year in the Whirlpool

Wed Jan 18 02:04:29 GMT 2017

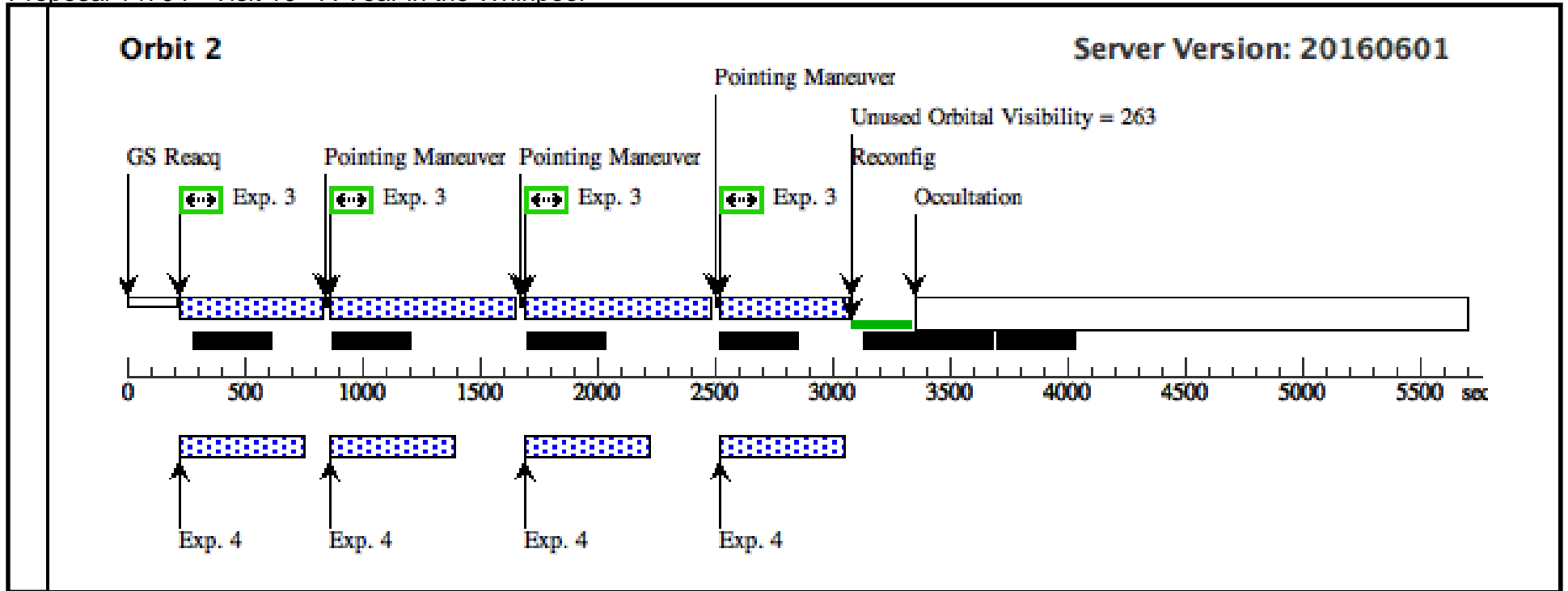
Visit	Proposal 14704, Visit 10, scheduled Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 09; BETWEEN 20-JAN-2017:00:00:00 AND 23-JAN-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-2 in Visit 10 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 10	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 10 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 10	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 10 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 10	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPAR S100		Pattern 1, Exps 3-4 in Visit 10 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 10	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



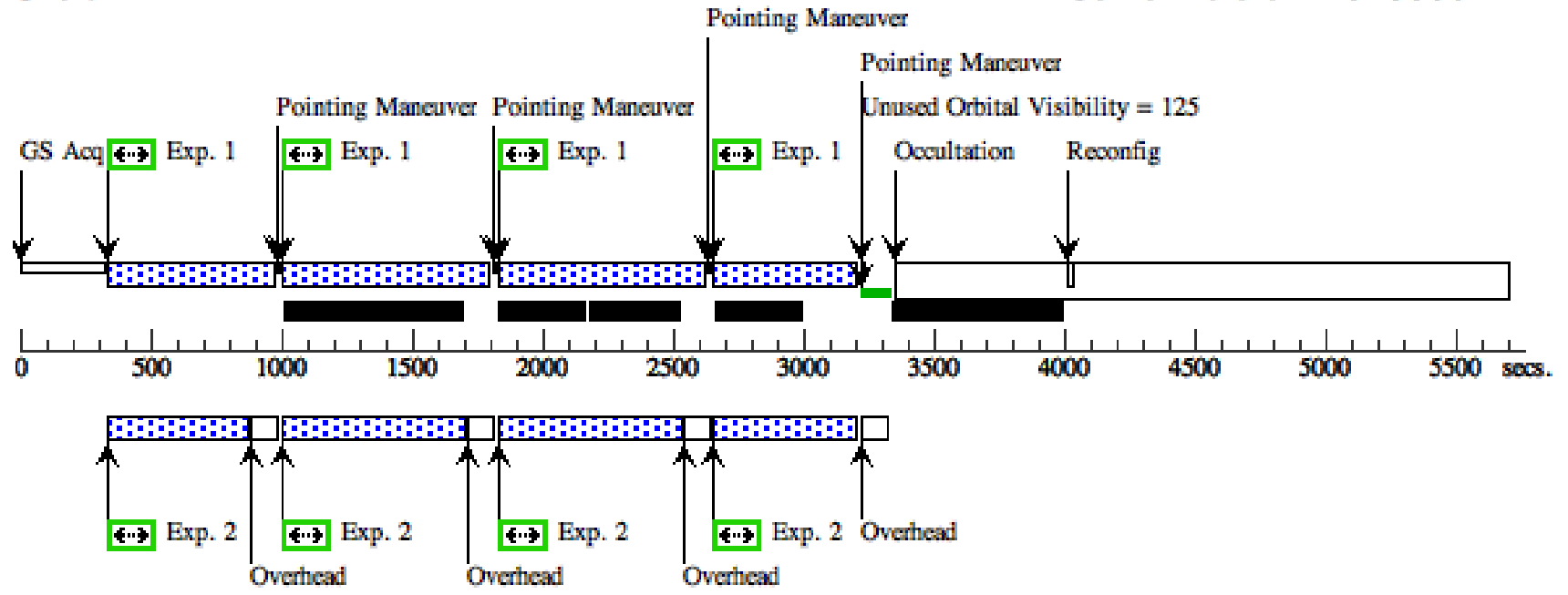
Proposal 14704 - Visit 11 - A Year in the Whirlpool

Wed Jan 18 02:04:29 GMT 2017

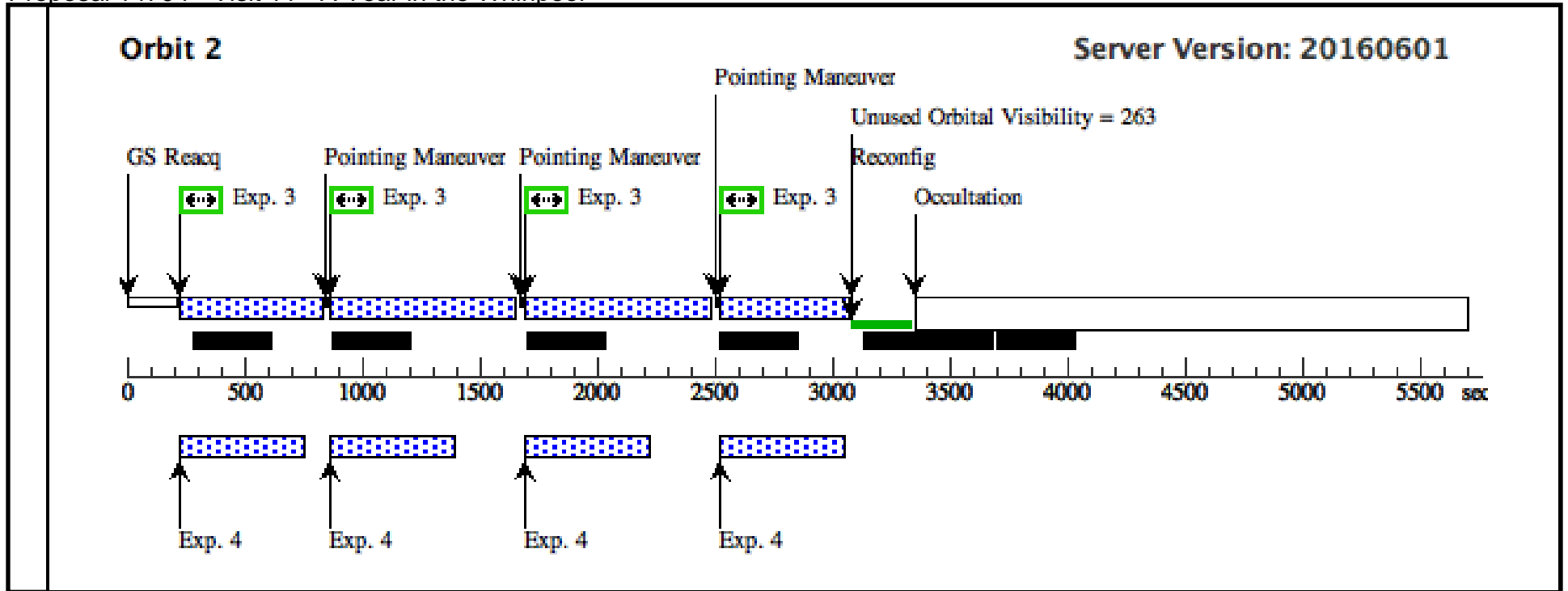
Visit	Proposal 14704, Visit 11, scheduled Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 09; BETWEEN 29-JAN-2017:00:00:00 AND 31-JAN-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-2 in Visit 11 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 11	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 11 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 11	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 11 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 11	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPAR S100		Pattern 1, Exps 3-4 in Visit 11 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 11	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



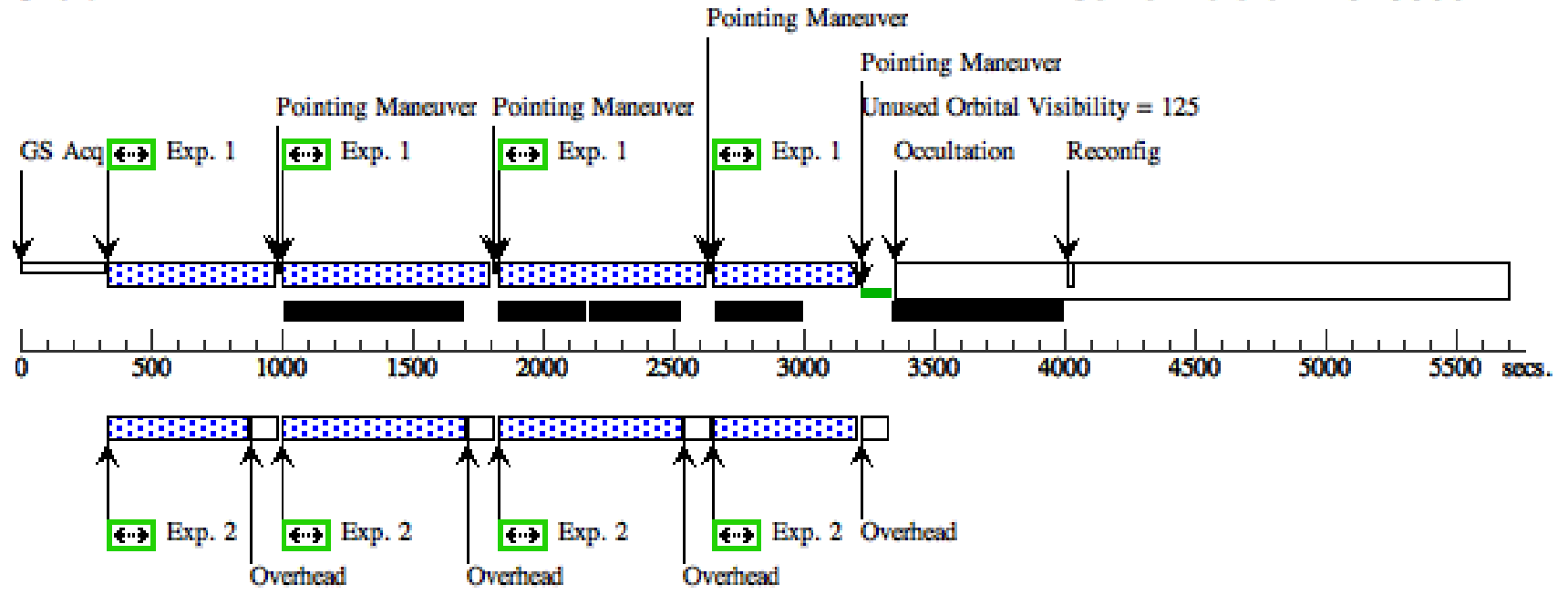
Proposal 14704 - Visit 12 - A Year in the Whirlpool

Wed Jan 18 02:04:29 GMT 2017

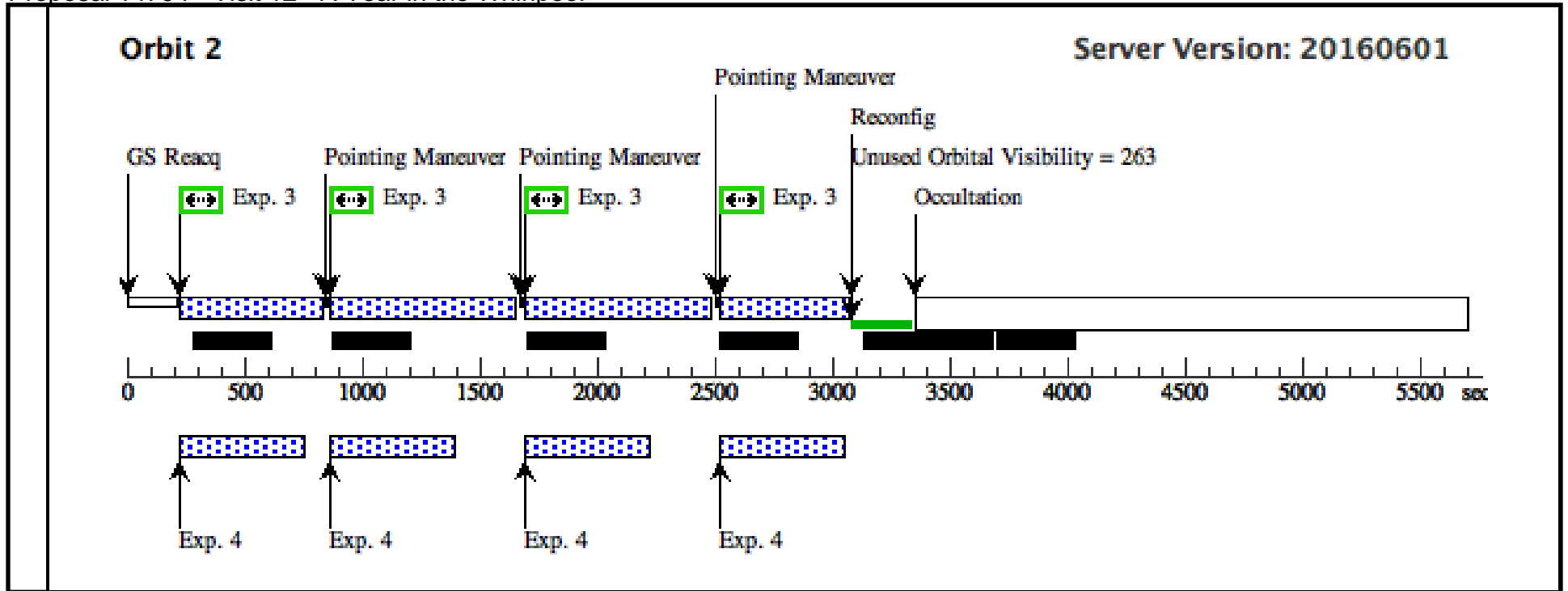
Visit	Proposal 14704, Visit 12, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: BETWEEN 04-MAR-2017:00:00:00 AND 06-MAR-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-2 in Visit 12 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 12	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 12 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 12	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 12 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 12	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPAR S100		Pattern 1, Exps 3-4 in Visit 12 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 12	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



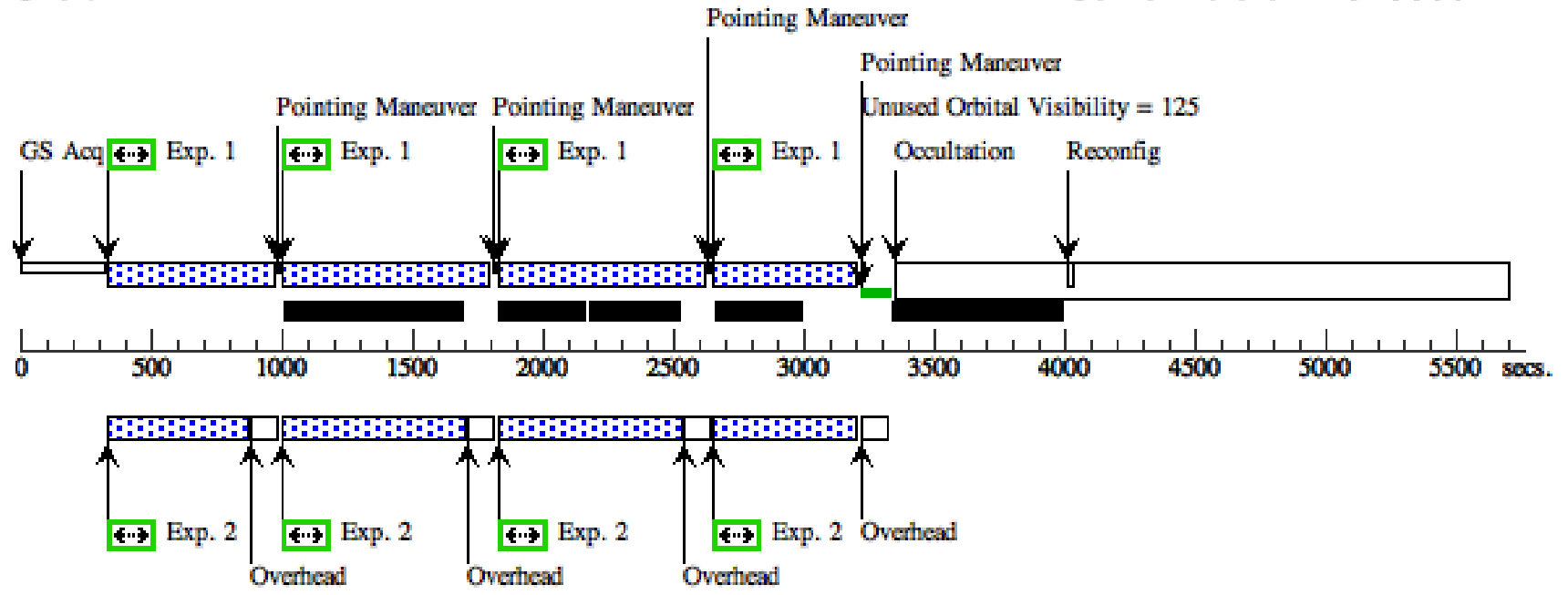
Proposal 14704 - Visit 13 - A Year in the Whirlpool

Wed Jan 18 02:04:29 GMT 2017

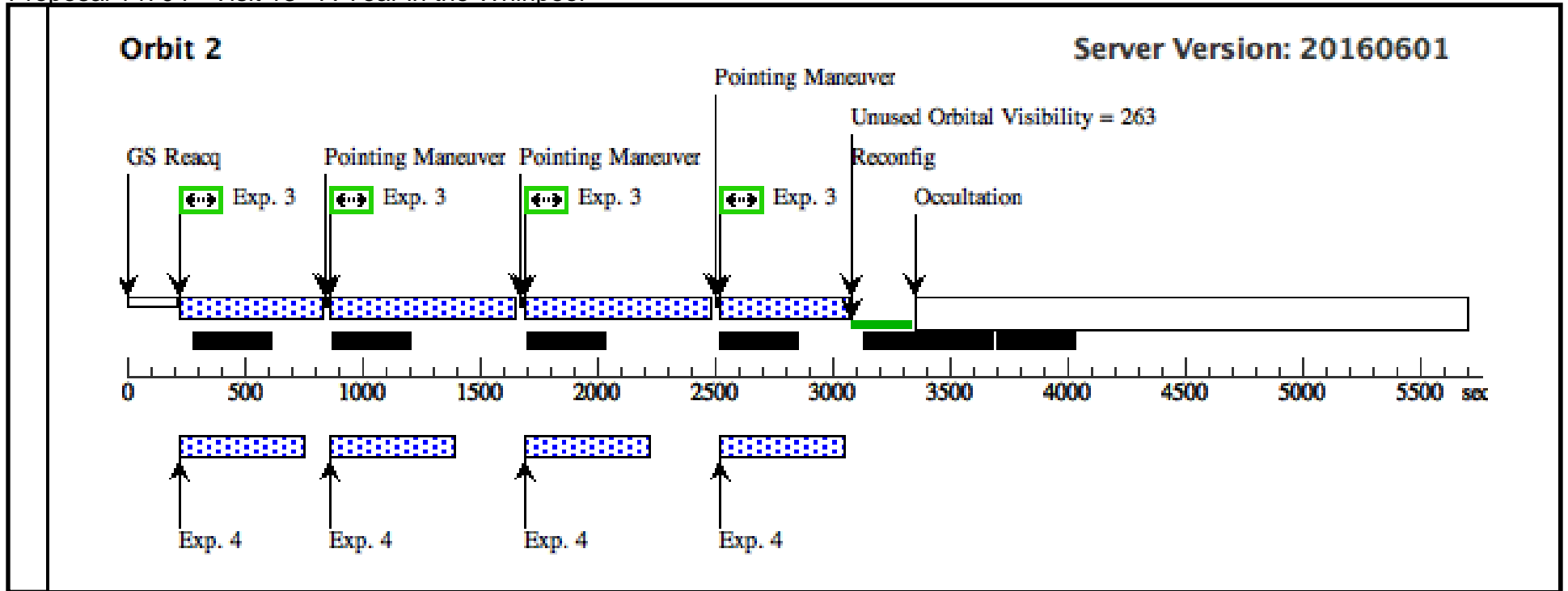
Visit	Proposal 14704, Visit 13, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 12; BETWEEN 11-MAR-2017:00:00:00 AND 13-MAR-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-2 in Visit 13 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 13	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 13 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 13	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 13 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 13	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPAR S100		Pattern 1, Exps 3-4 in Visit 13 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 13	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



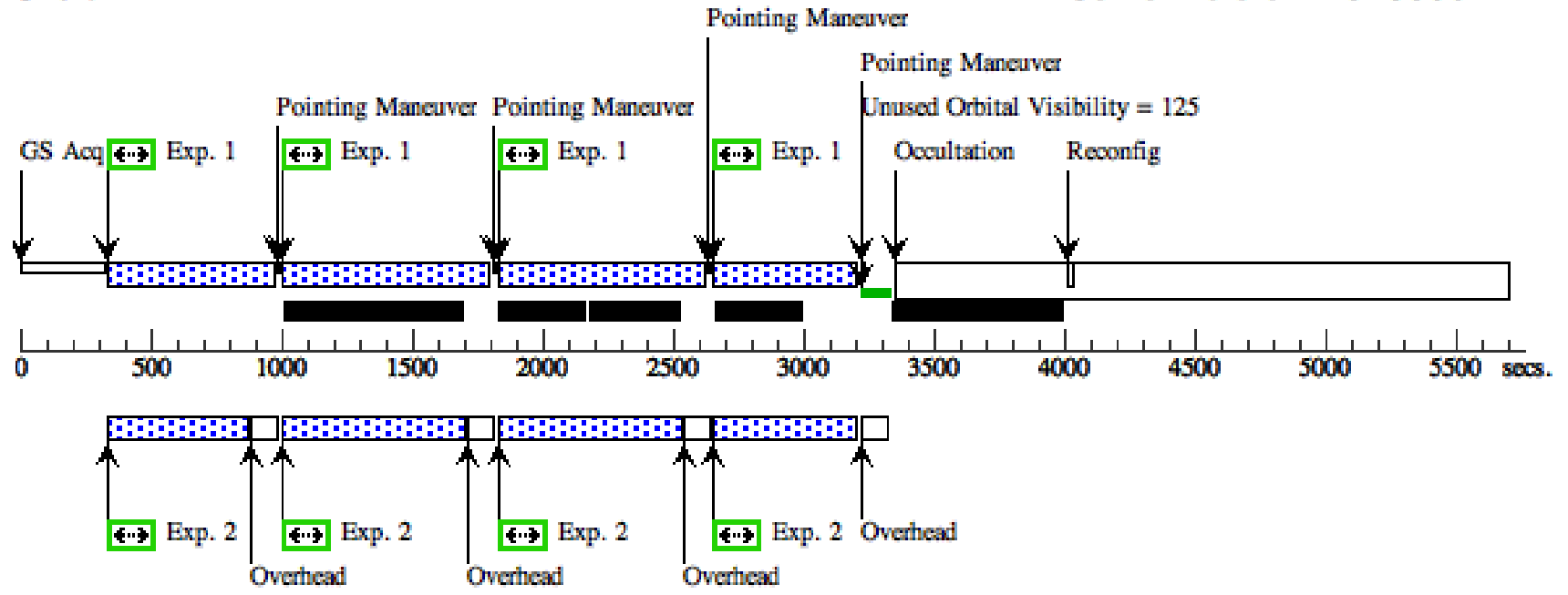
Proposal 14704 - Visit 14 - A Year in the Whirlpool

Wed Jan 18 02:04:29 GMT 2017

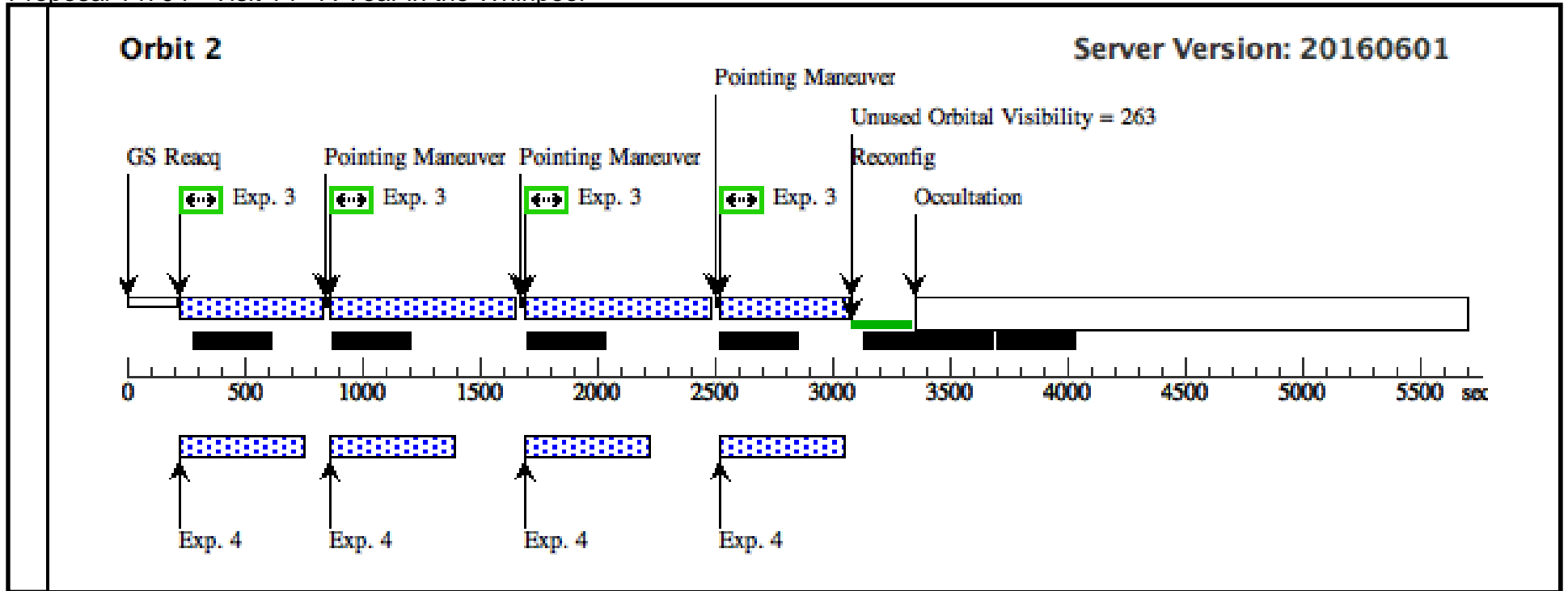
Visit	Proposal 14704, Visit 14, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: BETWEEN 20-MAR-2017:00:00:00 AND 22-MAR-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-2 in Visit 14 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 14	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 14 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 14	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 14 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 14	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPAR S100		Pattern 1, Exps 3-4 in Visit 14 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 14	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



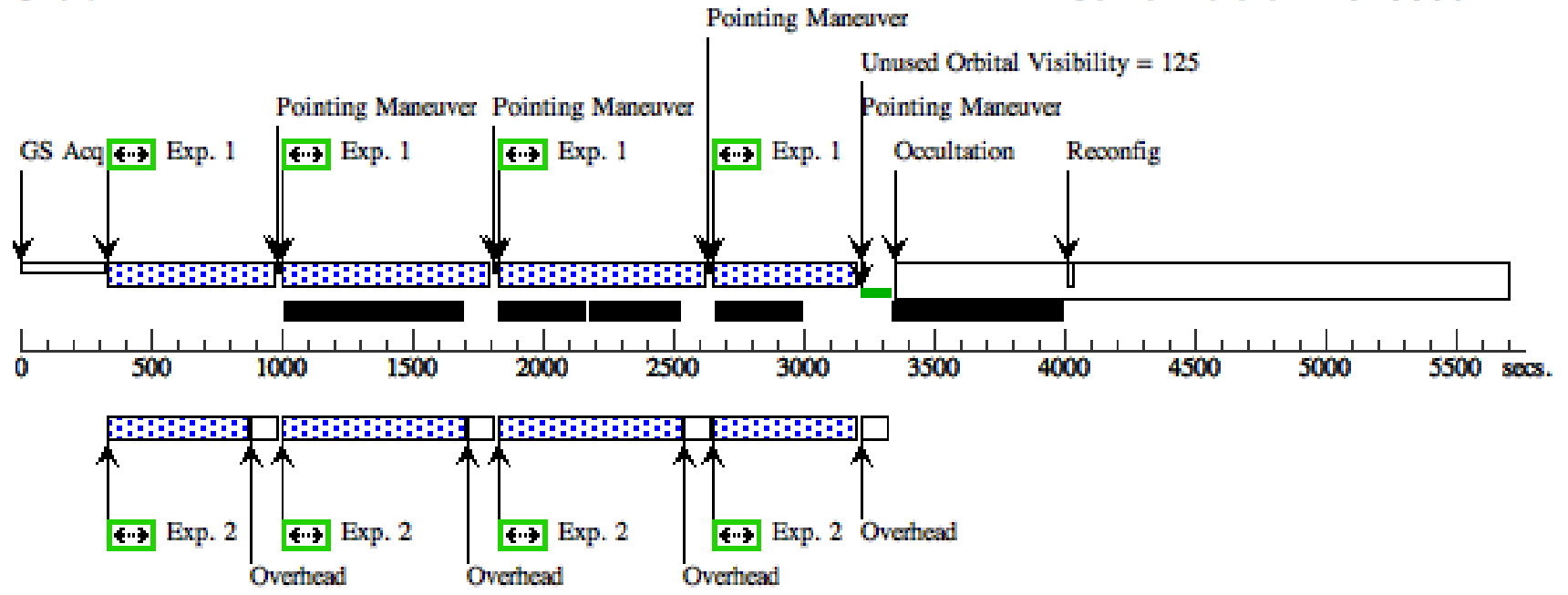
Proposal 14704 - Visit 15 - A Year in the Whirlpool

Wed Jan 18 02:04:30 GMT 2017

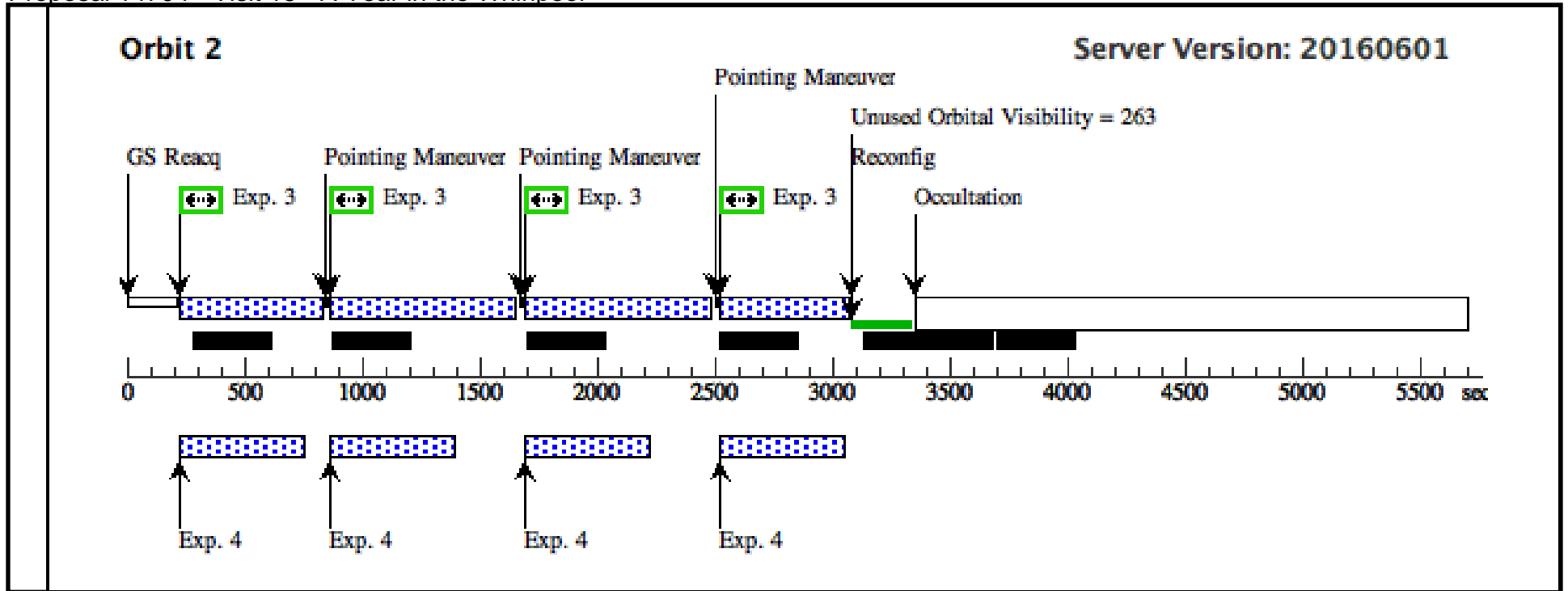
Visit	Proposal 14704, Visit 15, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 14; BETWEEN 25-MAR-2017:00:00:00 AND 27-MAR-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-2 in Visit 15 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 15	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 15 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 15	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 15 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 15	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPAR S100		Pattern 1, Exps 3-4 in Visit 15 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 15	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



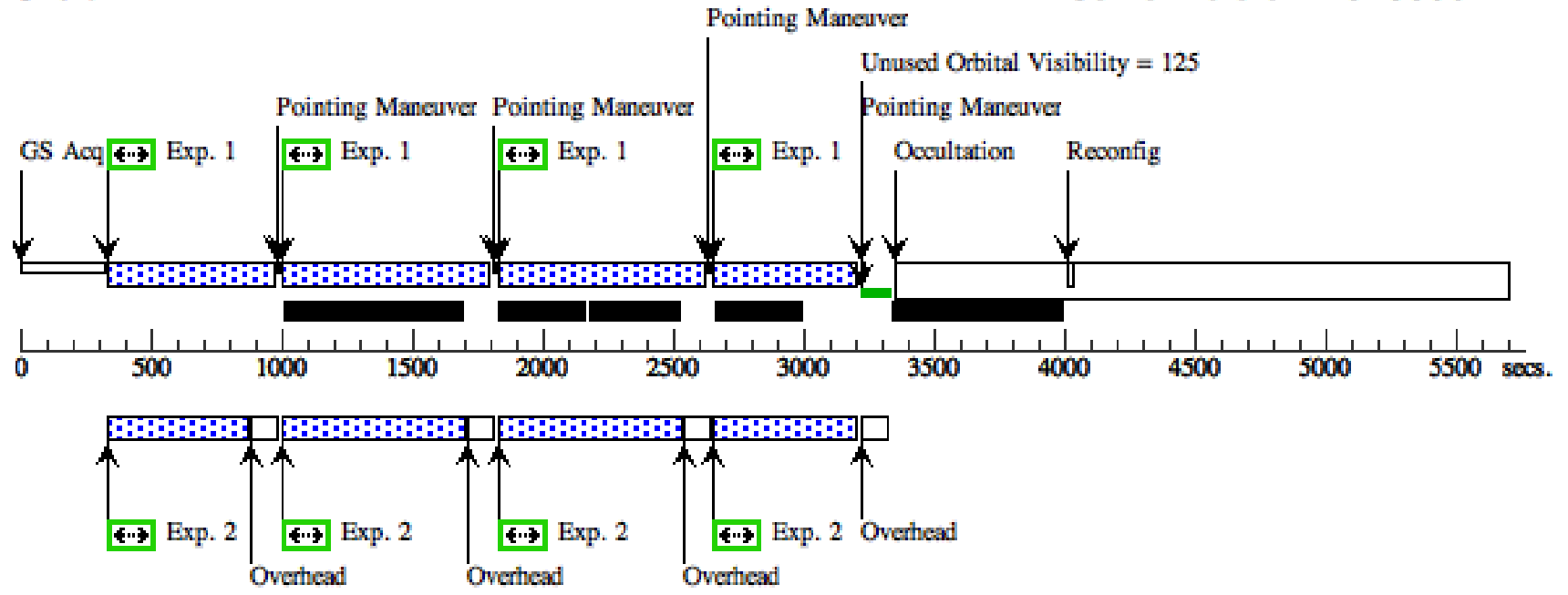
Proposal 14704 - Visit 16 - A Year in the Whirlpool

Wed Jan 18 02:04:30 GMT 2017

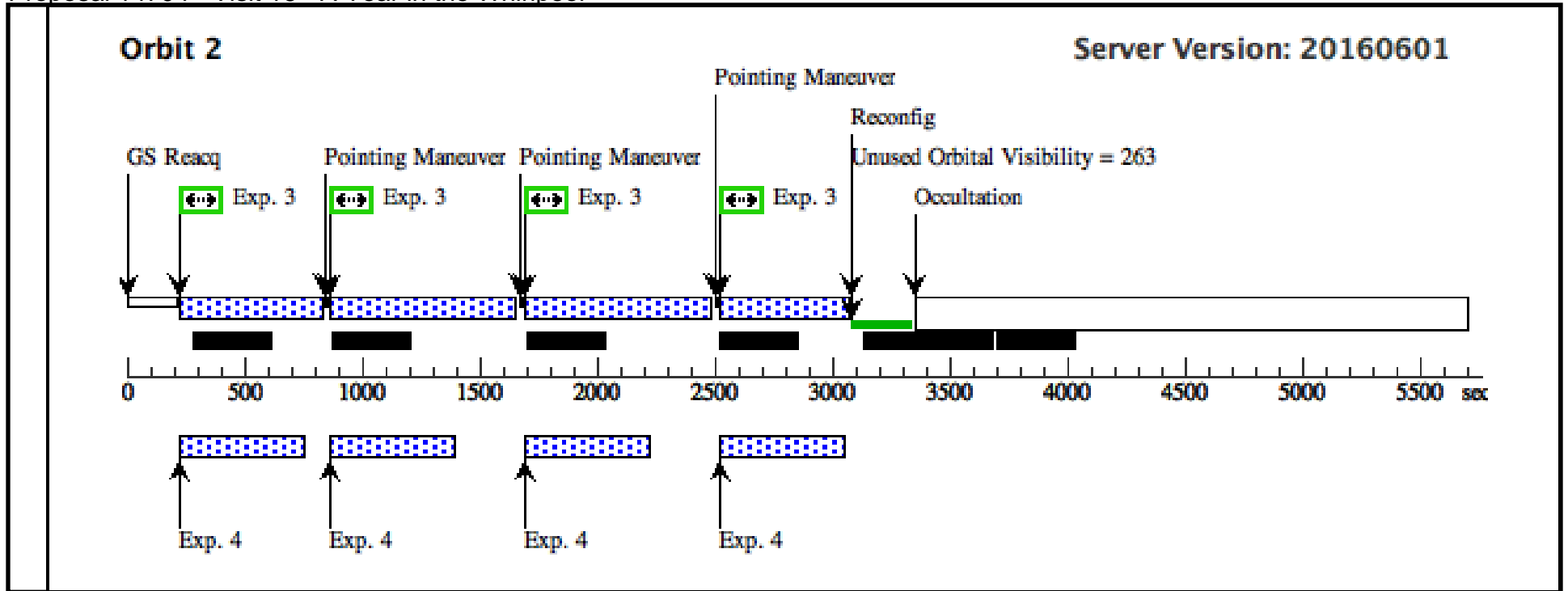
Visit	Proposal 14704, Visit 16, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: BETWEEN 15-APR-2017:00:00:00 AND 17-APR-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-2 in Visit 16 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 16	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 16 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 16	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 16 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 16	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPAR S100		Pattern 1, Exps 3-4 in Visit 16 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 16	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



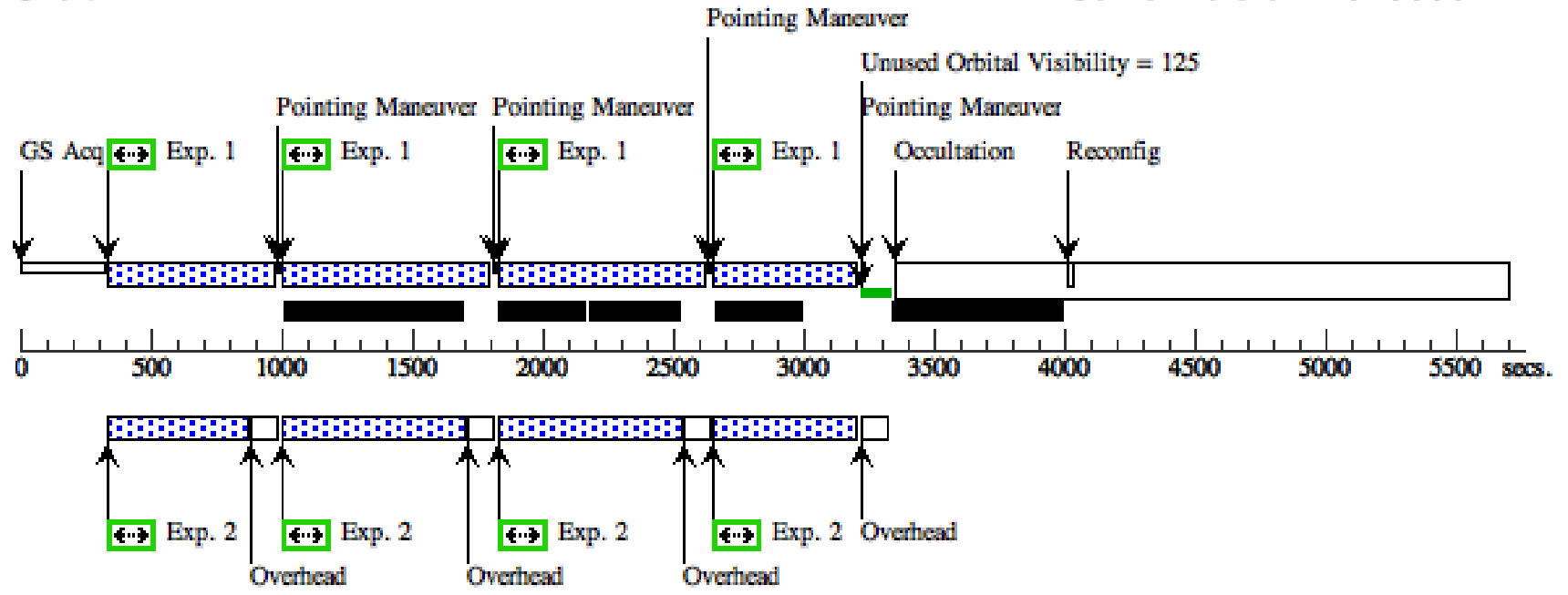
Proposal 14704 - Visit 17 - A Year in the Whirlpool

Wed Jan 18 02:04:30 GMT 2017

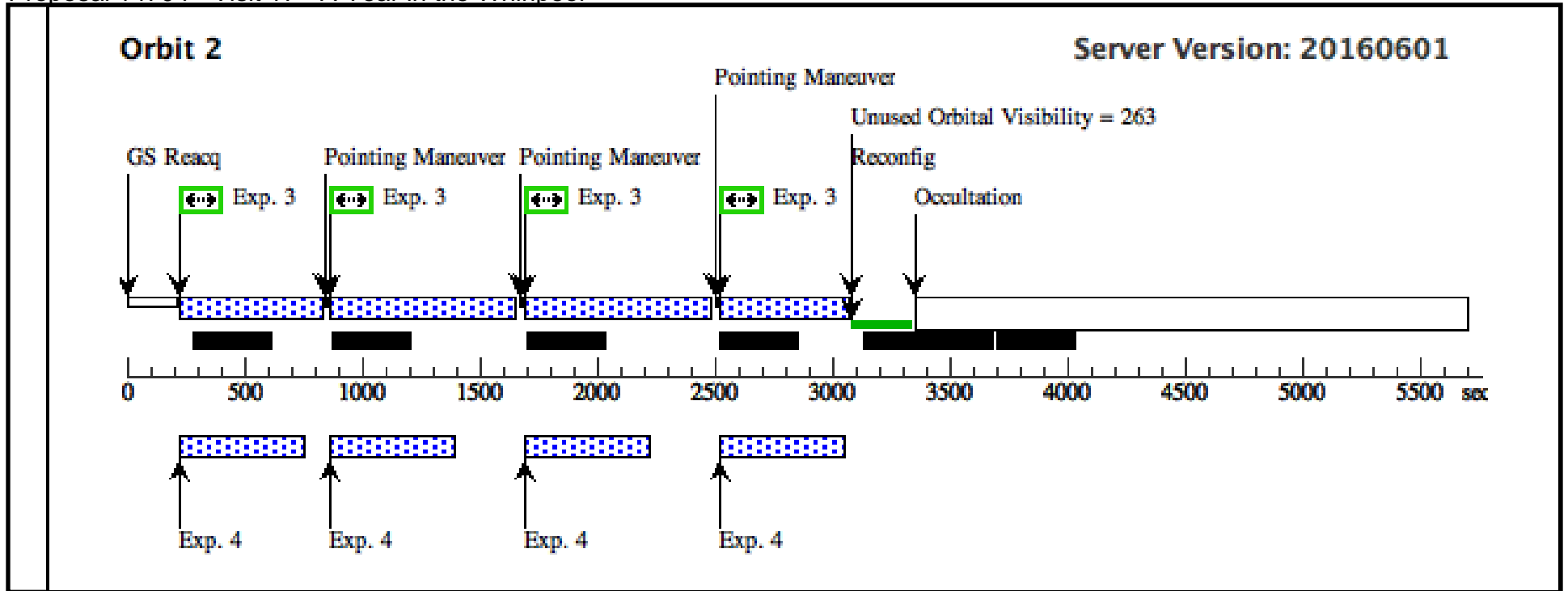
Visit	Proposal 14704, Visit 17, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 16; BETWEEN 20-APR-2017:00:00:00 AND 22-APR-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-2 in Visit 17 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 17	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 17 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 17	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 17 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 17	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPAR S100		Pattern 1, Exps 3-4 in Visit 17 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 17	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



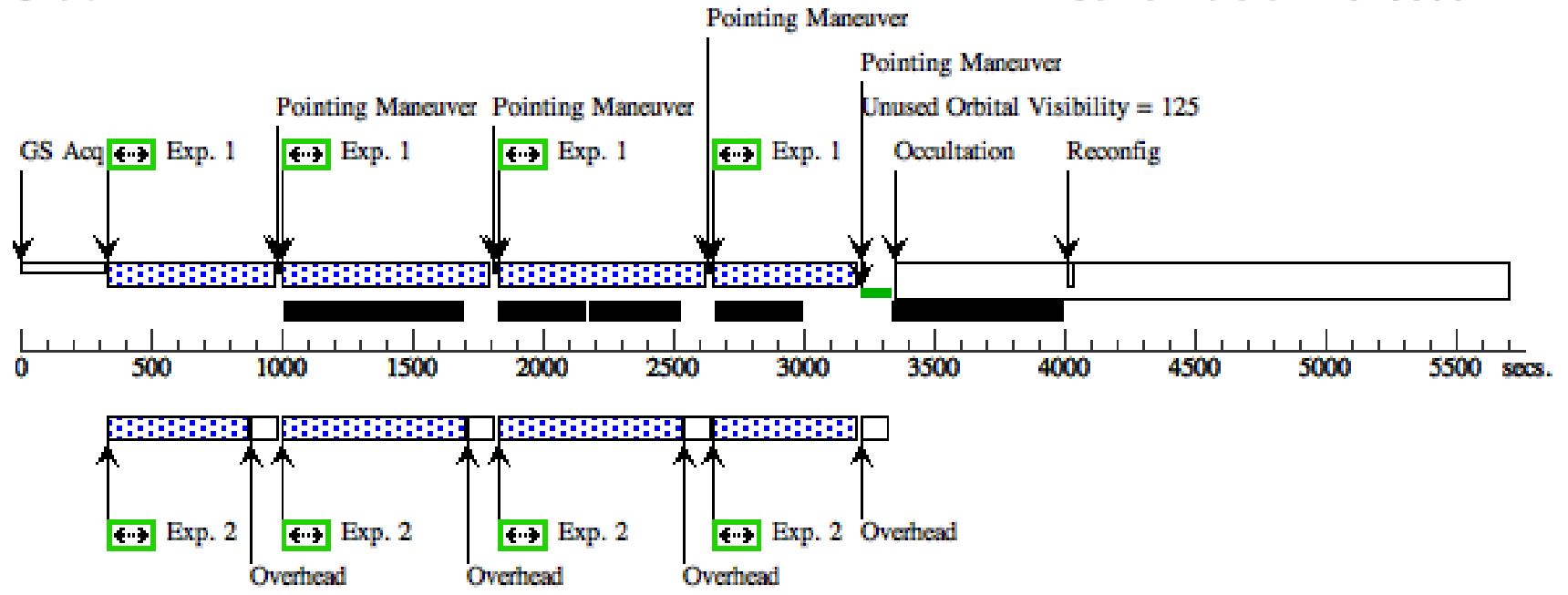
Proposal 14704 - Visit 18 - A Year in the Whirlpool

Wed Jan 18 02:04:30 GMT 2017

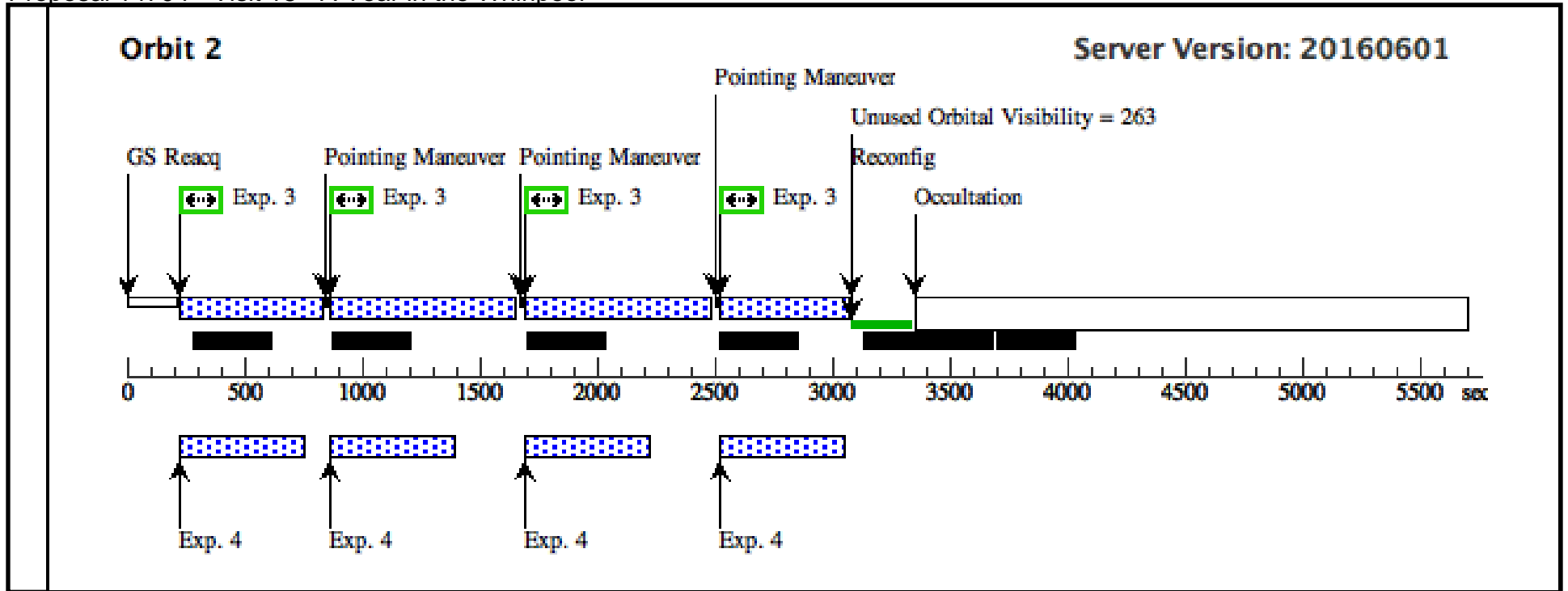
Visit	Proposal 14704, Visit 18, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: BETWEEN 28-APR-2017:00:00:00 AND 30-APR-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-2 in Visit 18 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 18	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 18 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 18	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 18 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 18	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPAR S100		Pattern 1, Exps 3-4 in Visit 18 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 18	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



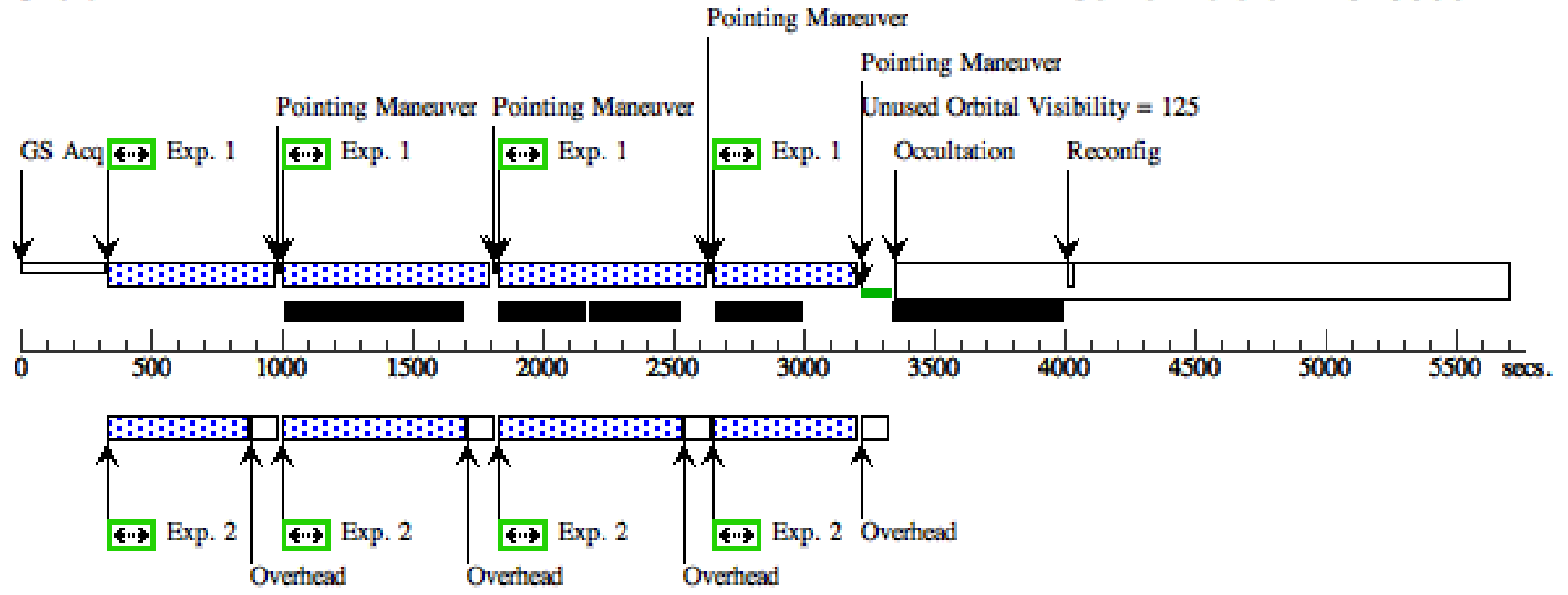
Proposal 14704 - Visit 19 - A Year in the Whirlpool

Wed Jan 18 02:04:30 GMT 2017

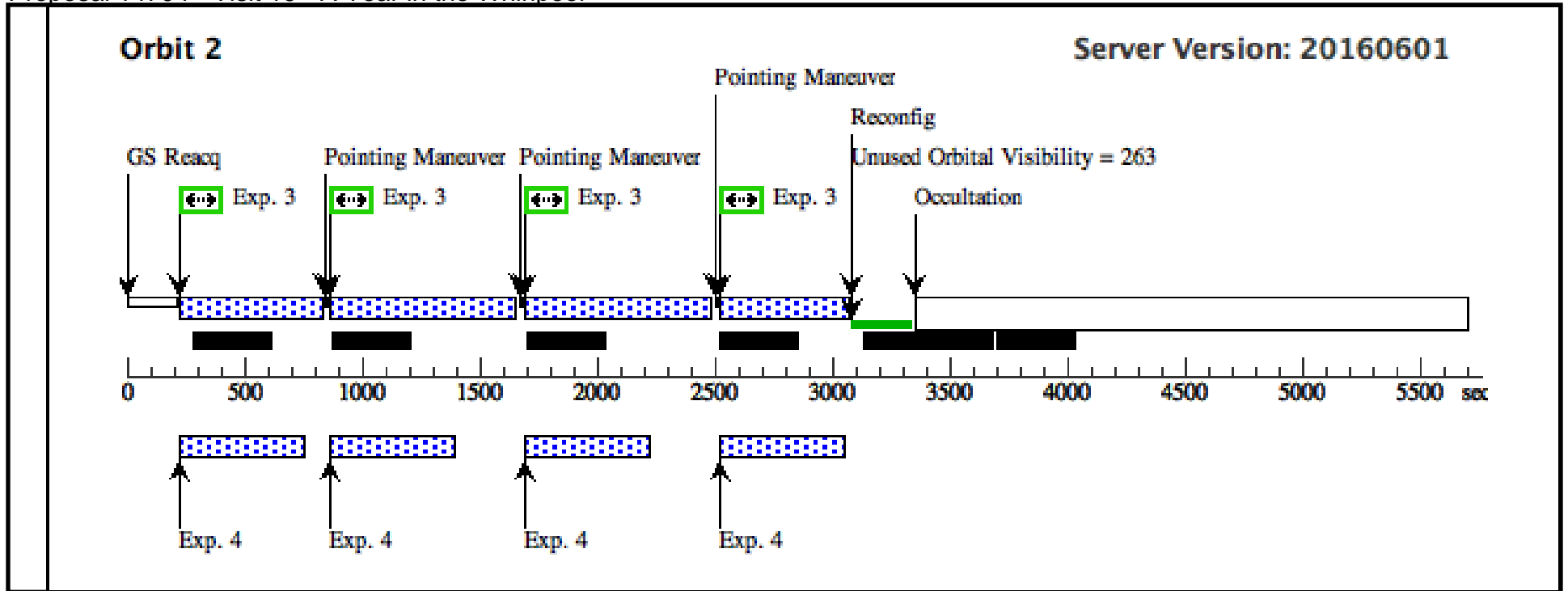
Visit	Proposal 14704, Visit 19, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 18; BETWEEN 09-MAY-2017:00:00:00 AND 11-MAY-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-2 in Visit 19 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 19	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 19 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 19	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 19 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 19	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPAR S100		Pattern 1, Exps 3-4 in Visit 19 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 19	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



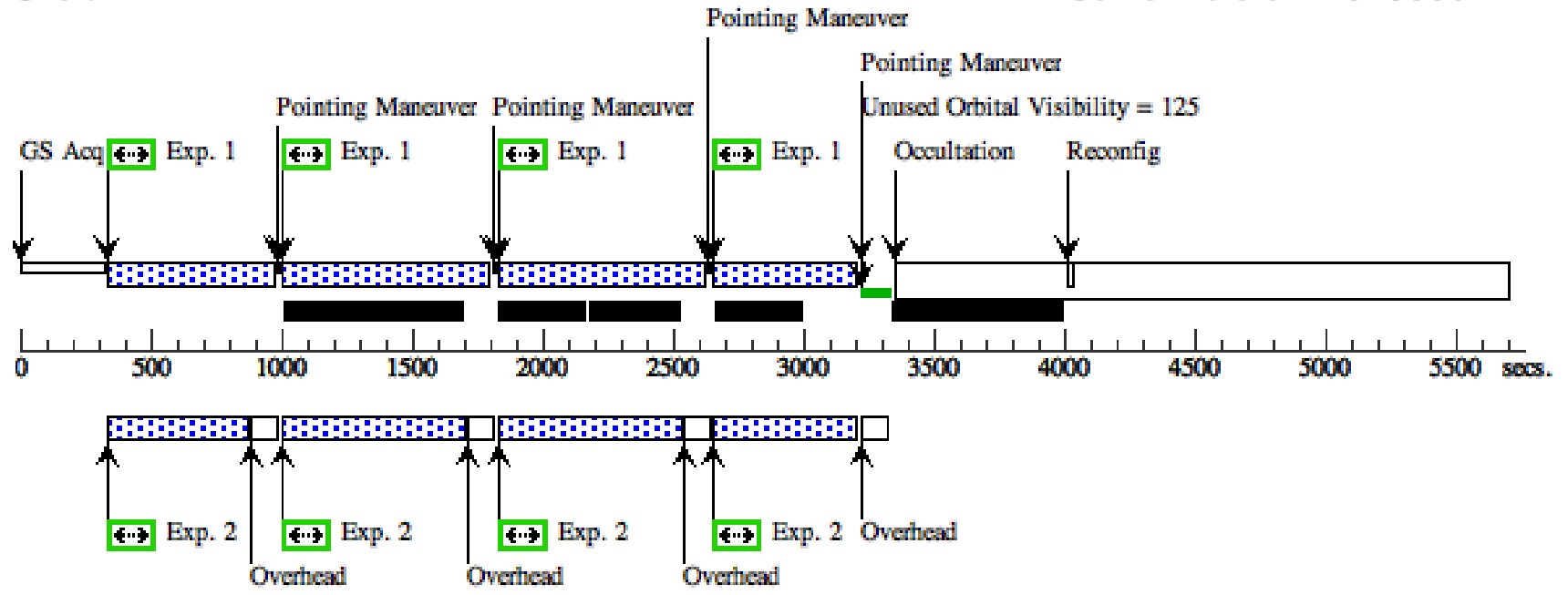
Proposal 14704 - Visit 20 - A Year in the Whirlpool

Wed Jan 18 02:04:30 GMT 2017

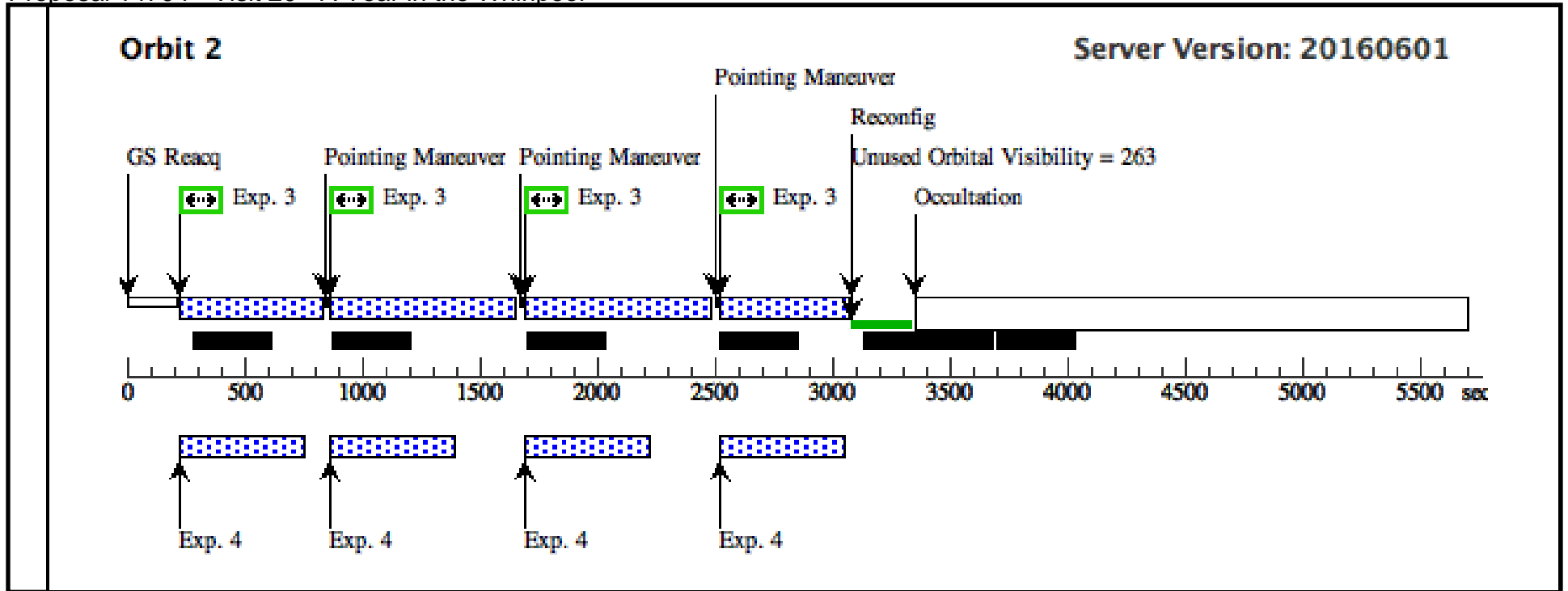
Visit	Proposal 14704, Visit 20, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: BETWEEN 28-MAY-2017:00:00:00 AND 30-MAY-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-2 in Visit 20 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 20	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 20 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 20	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 20 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 20	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPAR S100		Pattern 1, Exps 3-4 in Visit 20 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 20	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



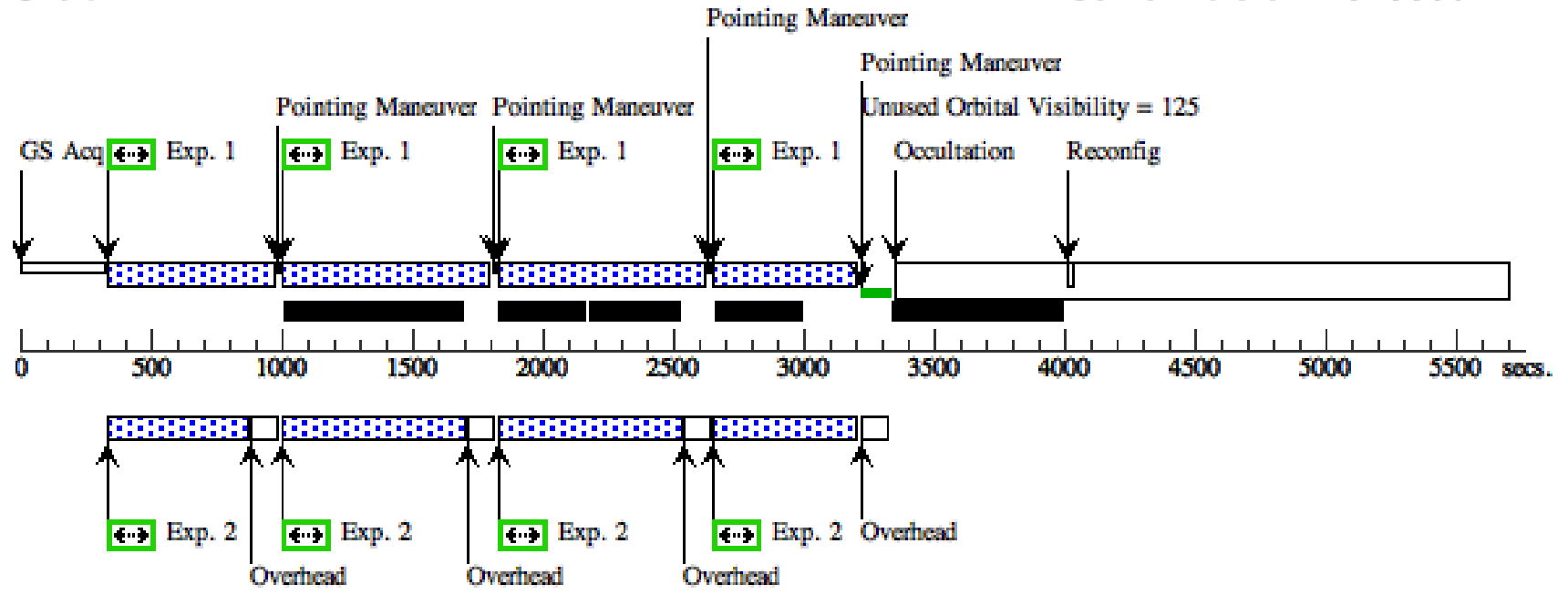
Proposal 14704 - Visit 21 - A Year in the Whirlpool

Wed Jan 18 02:04:30 GMT 2017

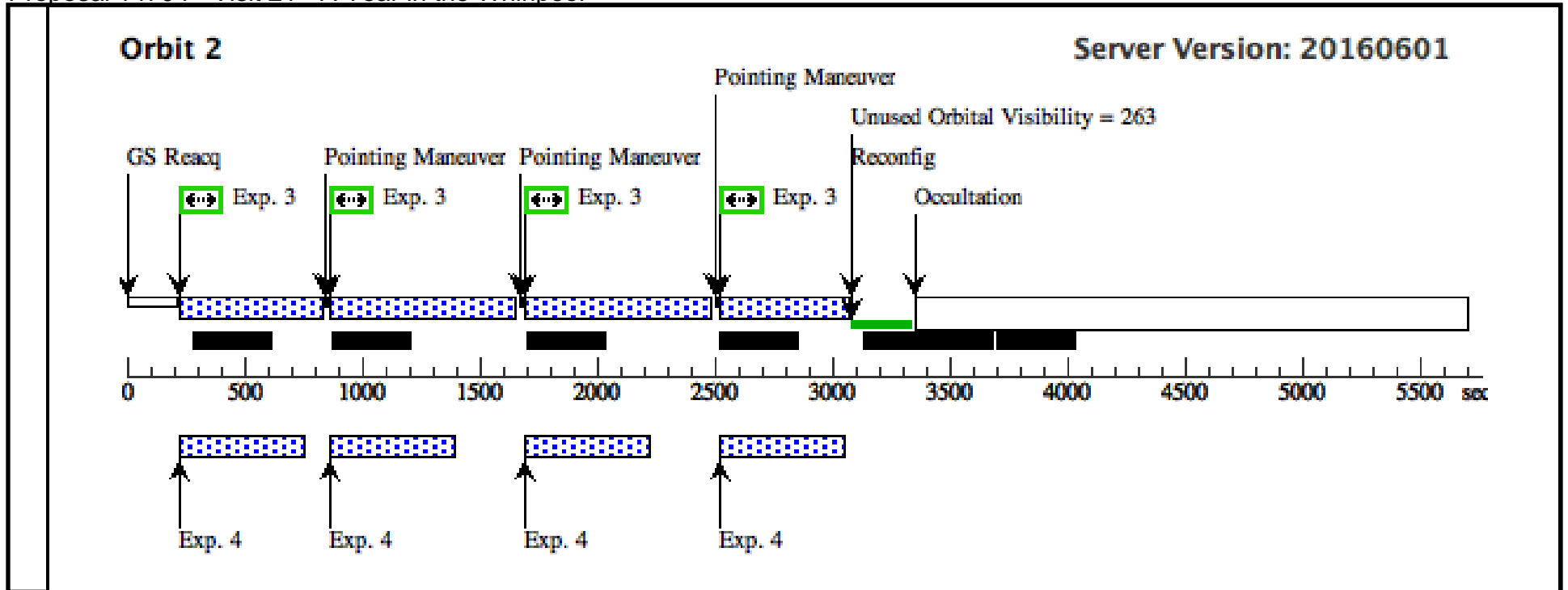
Visit	Proposal 14704, Visit 21, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 20; BETWEEN 06-JUN-2017:00:00:00 AND 08-JUN-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-2 in Visit 21 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 21	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 21 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 21	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 21 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 21	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPAR S100		Pattern 1, Exps 3-4 in Visit 21 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 21	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



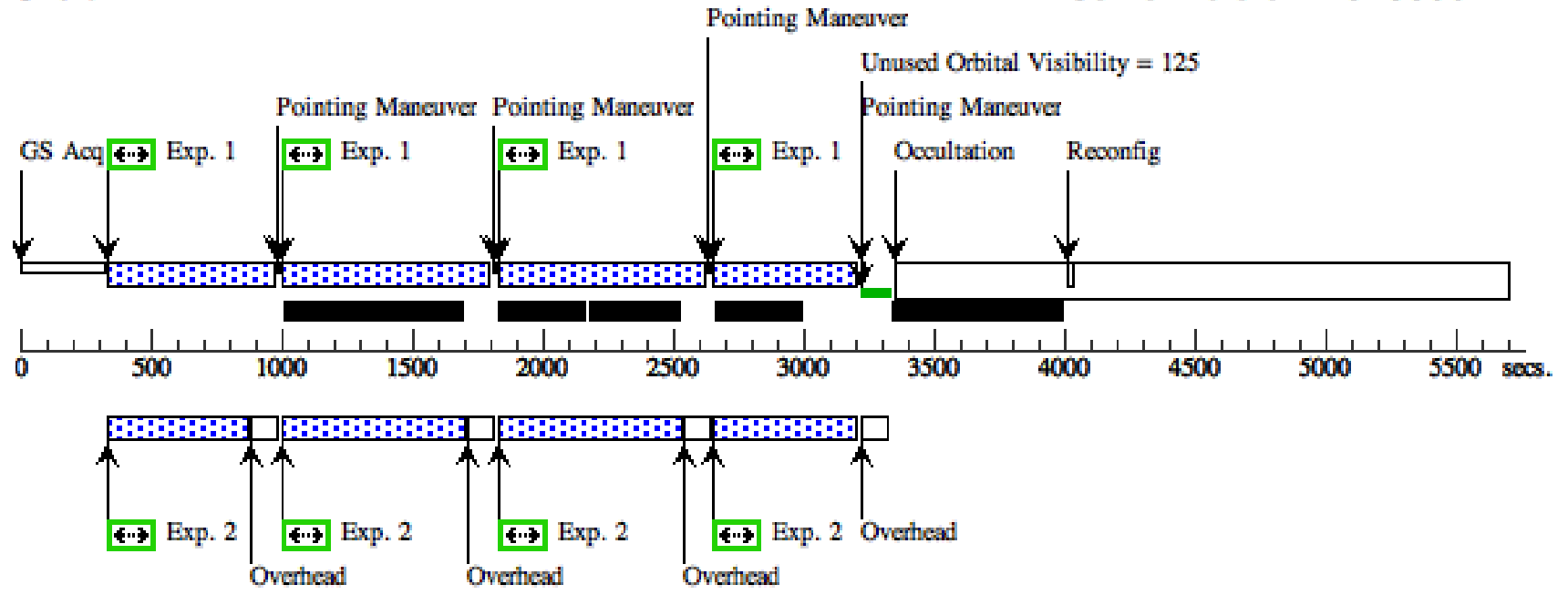
Proposal 14704 - Visit 22 - A Year in the Whirlpool

Wed Jan 18 02:04:30 GMT 2017

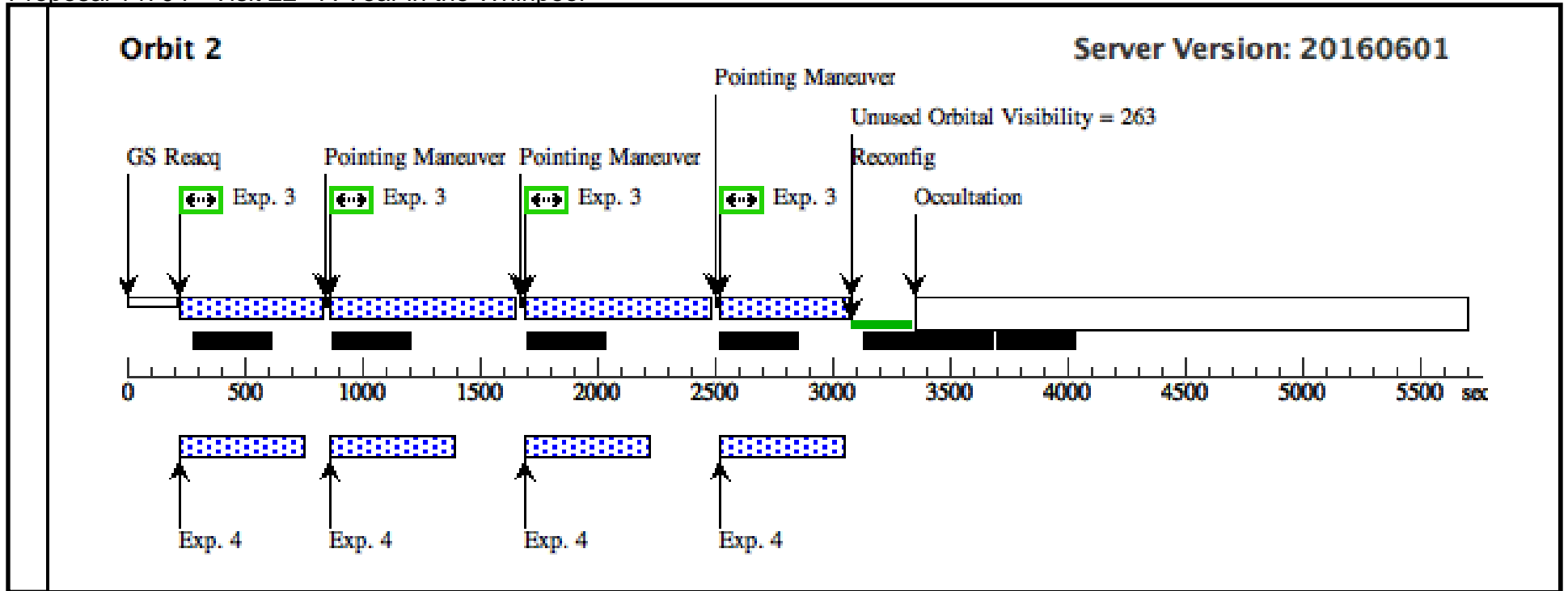
Visit	Proposal 14704, Visit 22, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: BETWEEN 11-JUN-2017:00:00:00 AND 13-JUN-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-2 in Visit 22 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 22	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 22 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 22	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 22 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 22	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPAR S100		Pattern 1, Exps 3-4 in Visit 22 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 22	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



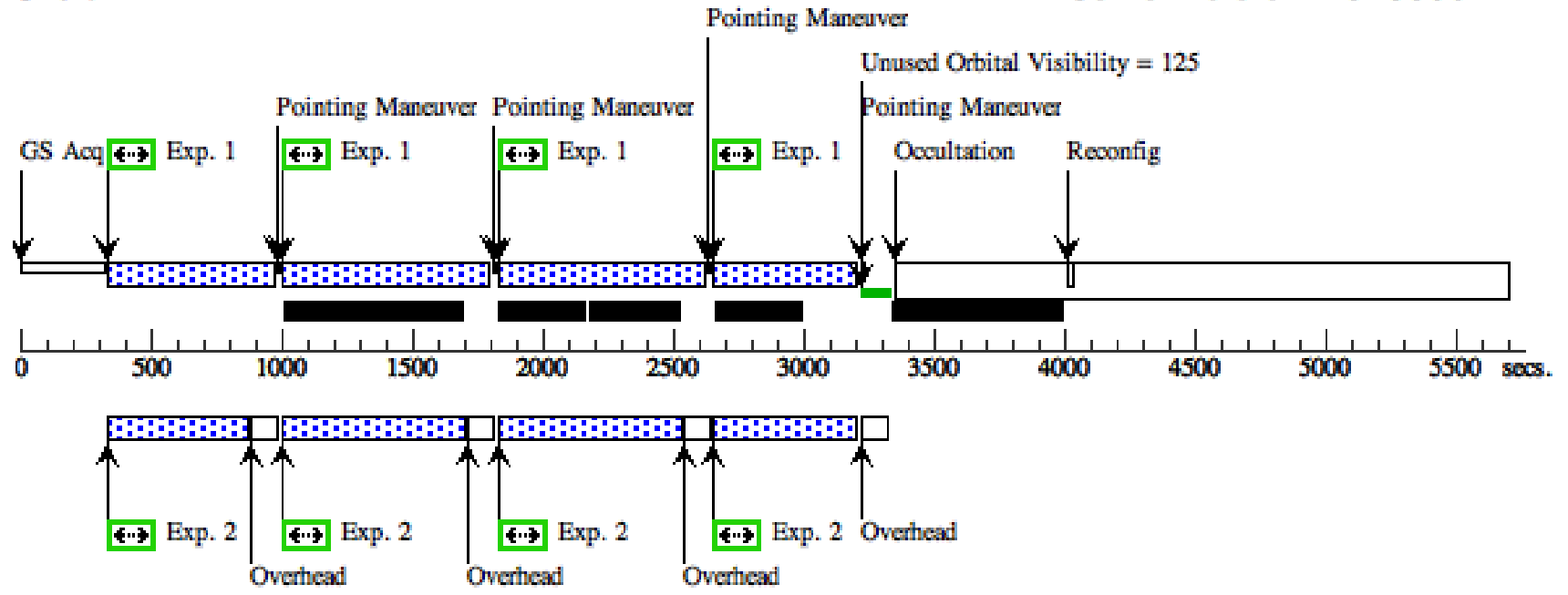
Proposal 14704 - Visit 23 - A Year in the Whirlpool

Wed Jan 18 02:04:30 GMT 2017

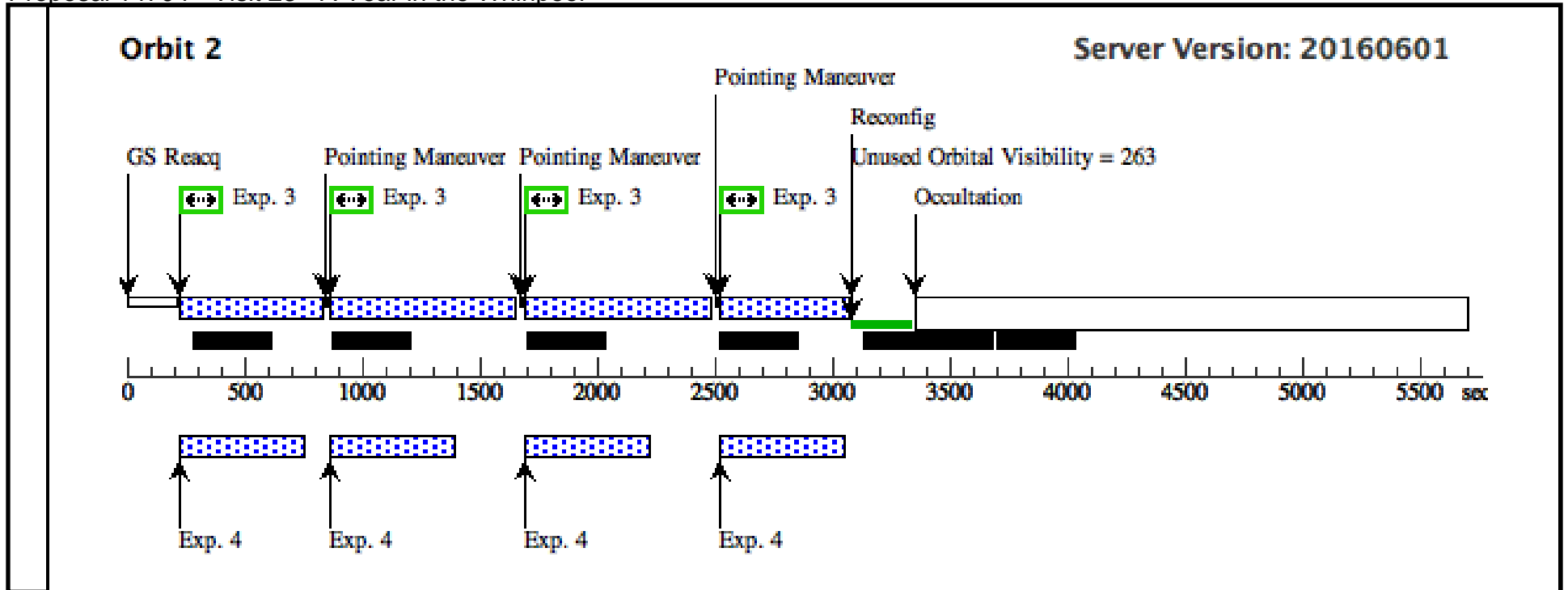
Visit	Proposal 14704, Visit 23, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 22; BETWEEN 21-JUN-2017:00:00:00 AND 23-JUN-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-2 in Visit 23 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 23	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 23 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 23	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 23 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 23	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPAR S100		Pattern 1, Exps 3-4 in Visit 23 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 23	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



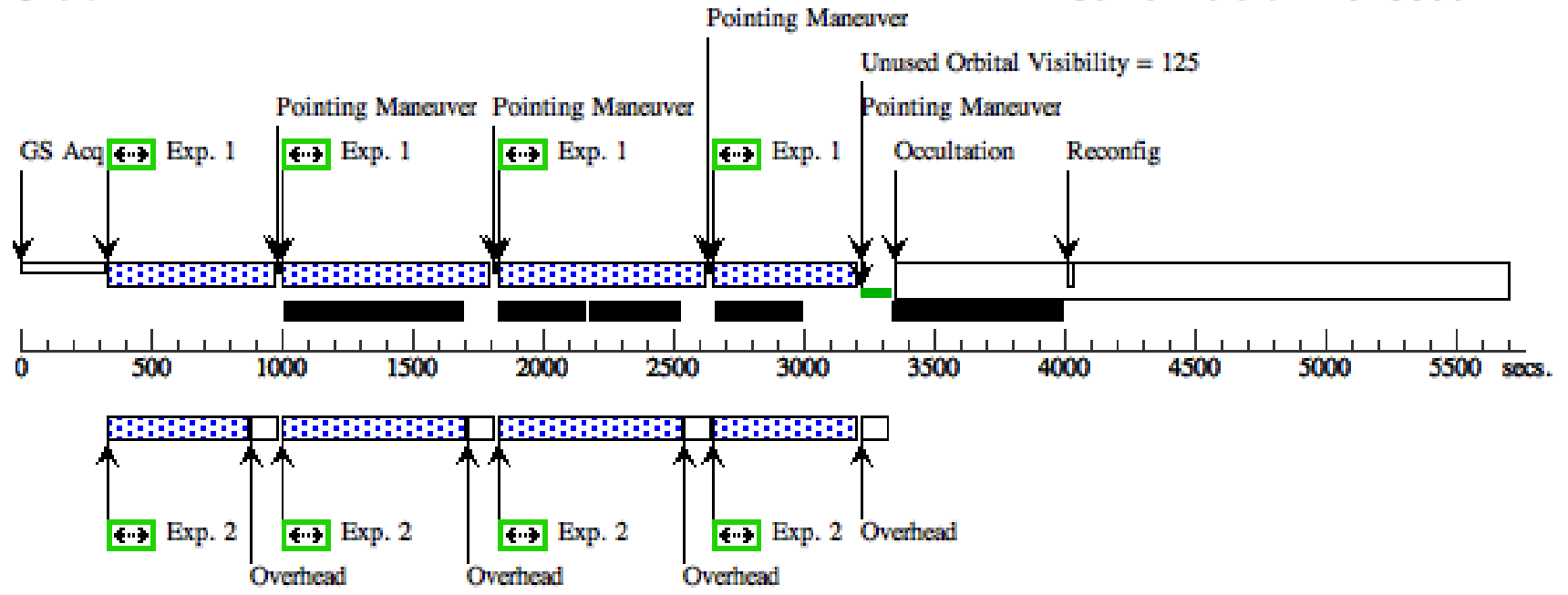
Proposal 14704 - Visit 24 - A Year in the Whirlpool

Wed Jan 18 02:04:30 GMT 2017

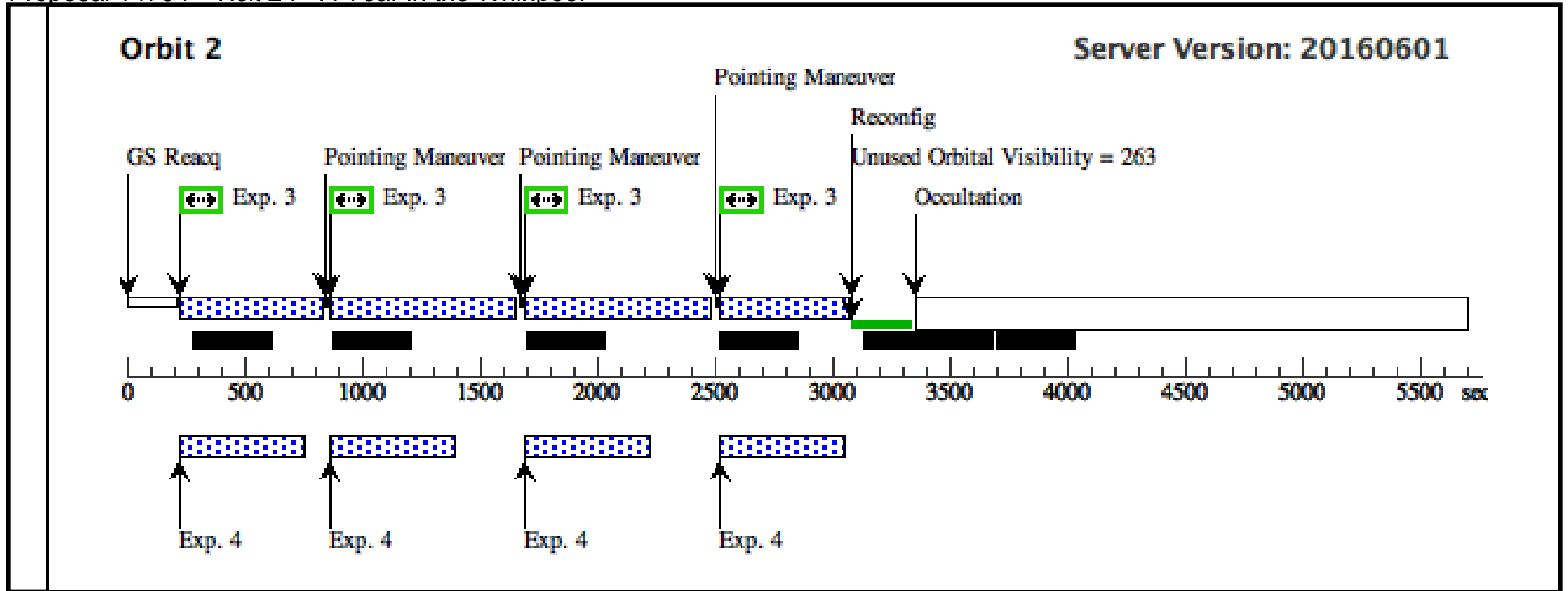
Visit	Proposal 14704, Visit 24, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: BETWEEN 27-JUN-2017:00:00:00 AND 29-JUN-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-2 in Visit 24 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 24	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 24 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 24	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 24 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 24	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPAR S100		Pattern 1, Exps 3-4 in Visit 24 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 24	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



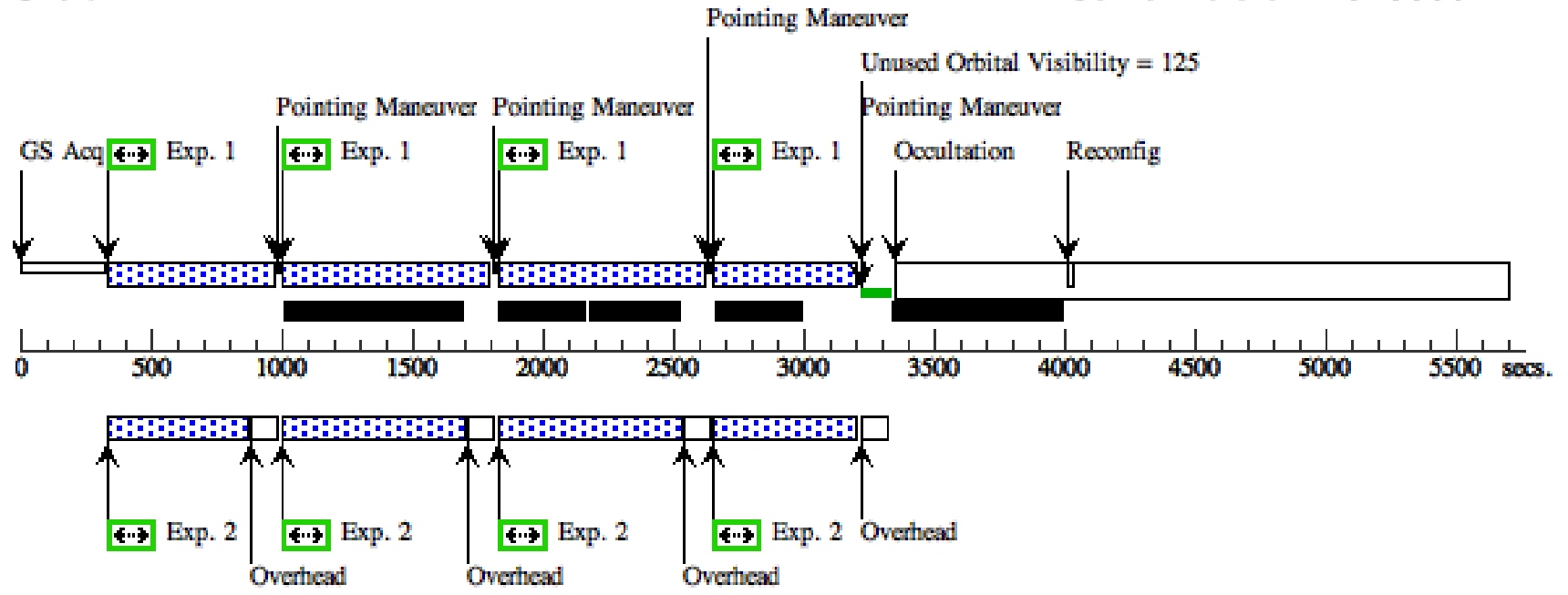
Proposal 14704 - Visit 25 - A Year in the Whirlpool

Wed Jan 18 02:04:30 GMT 2017

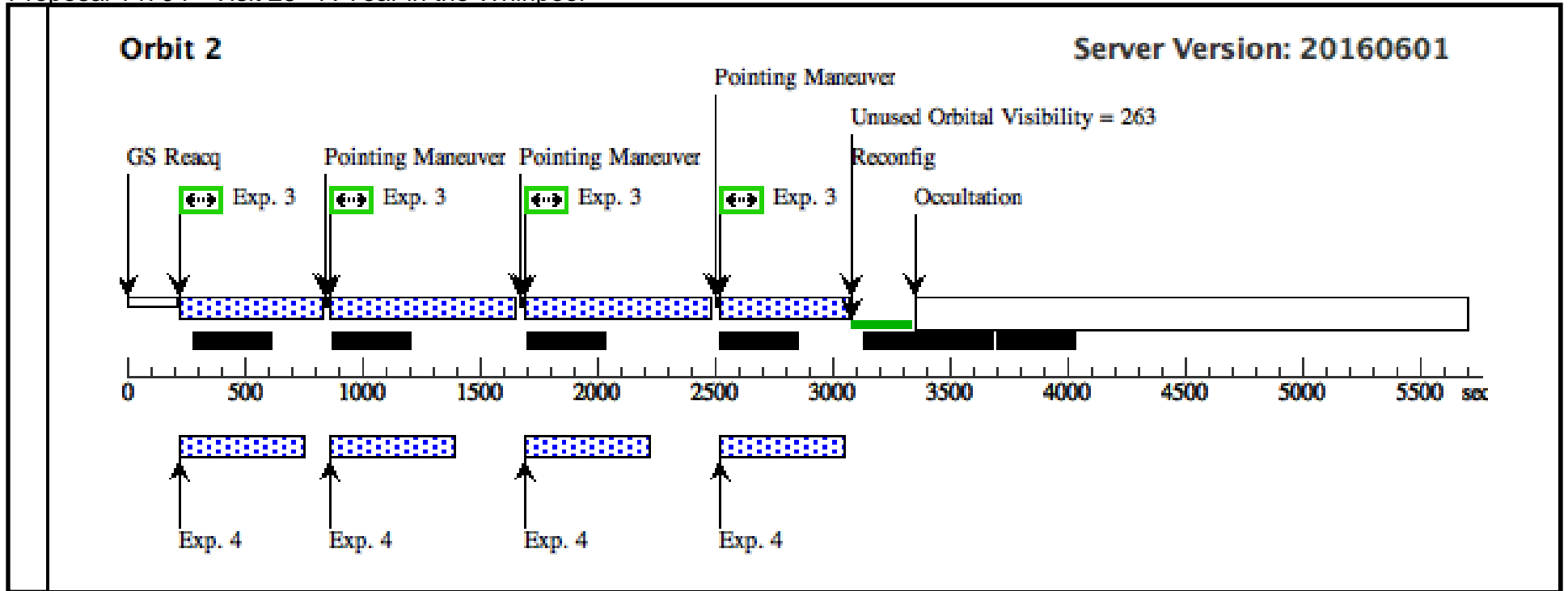
Visit	Proposal 14704, Visit 25, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 24; BETWEEN 02-JUL-2017:00:00:00 AND 05-JUL-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-2 in Visit 25 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 25	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 25 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 25	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 25 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 25	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPAR S100		Pattern 1, Exps 3-4 in Visit 25 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 25	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



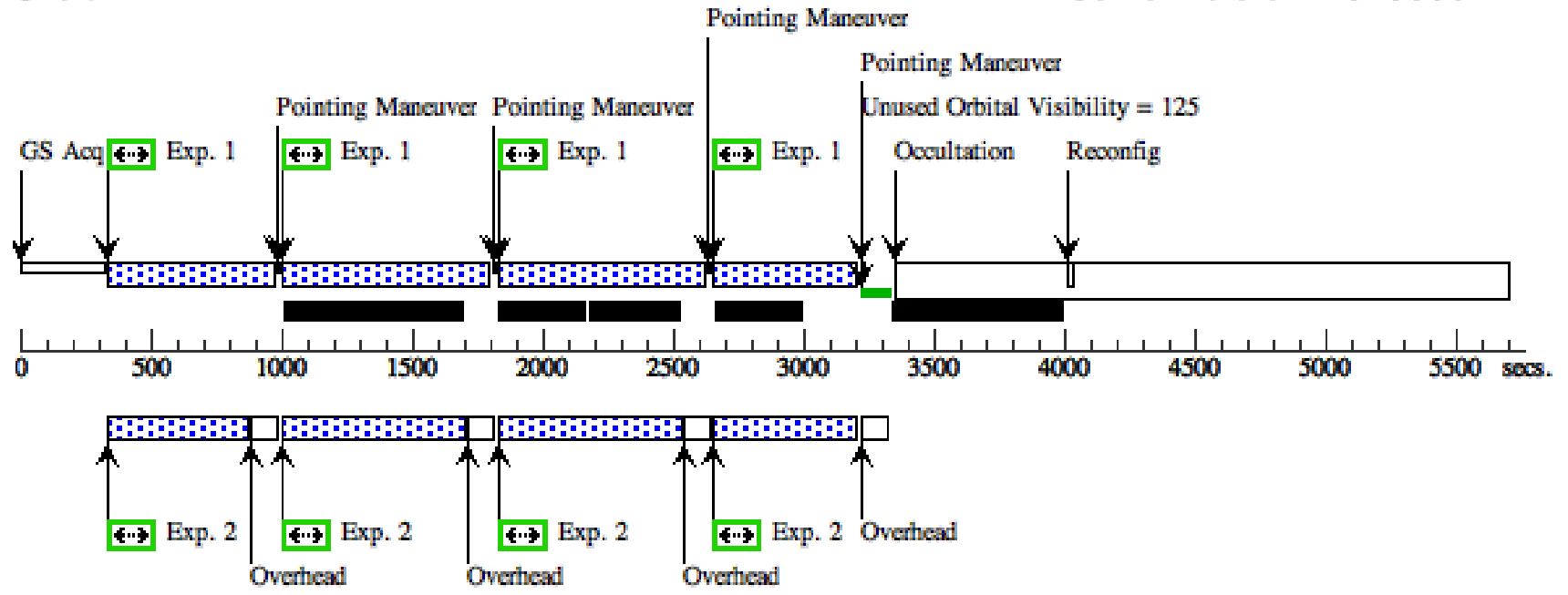
Proposal 14704 - Visit 26 - A Year in the Whirlpool

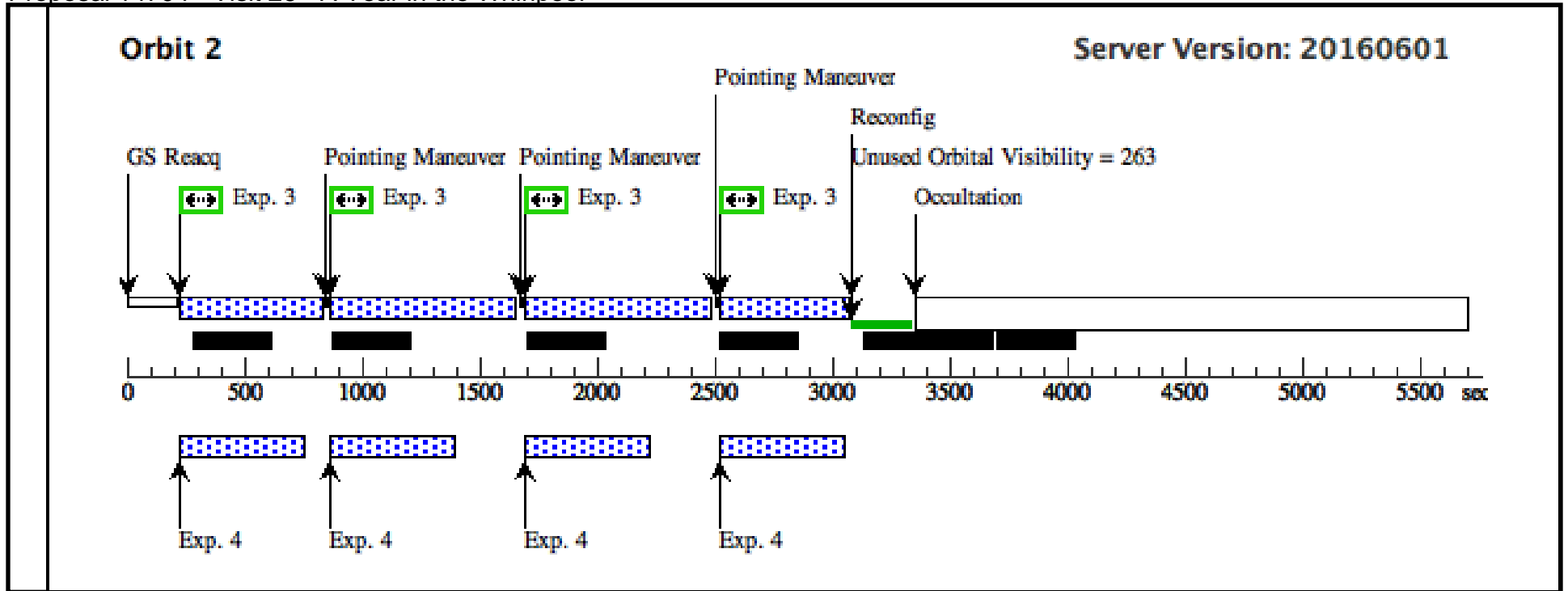
Wed Jan 18 02:04:30 GMT 2017

Visit	Proposal 14704, Visit 26, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: BETWEEN 12-JUL-2017:00:00:00 AND 14-JUL-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-2 in Visit 26 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 26	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 26 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 26	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 26 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 26	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPAR S100		Pattern 1, Exps 3-4 in Visit 26 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 26	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601





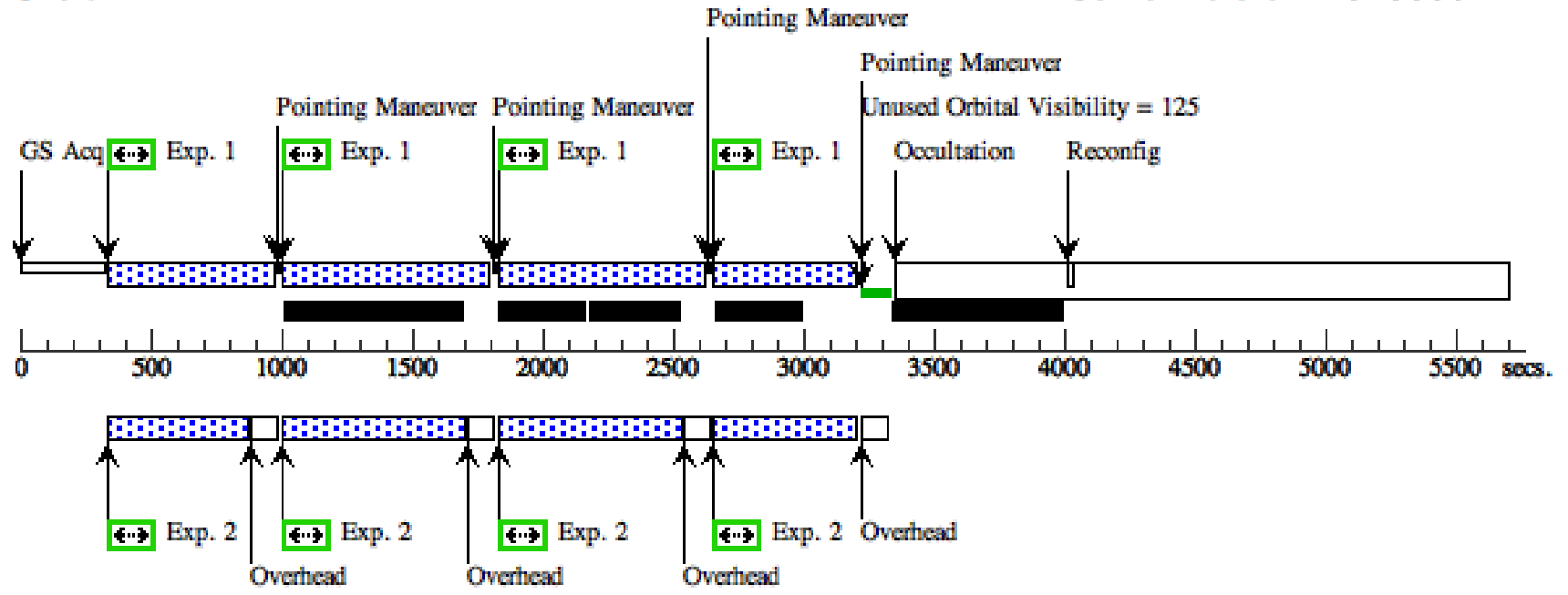
Proposal 14704 - Visit 27 - A Year in the Whirlpool

Wed Jan 18 02:04:30 GMT 2017

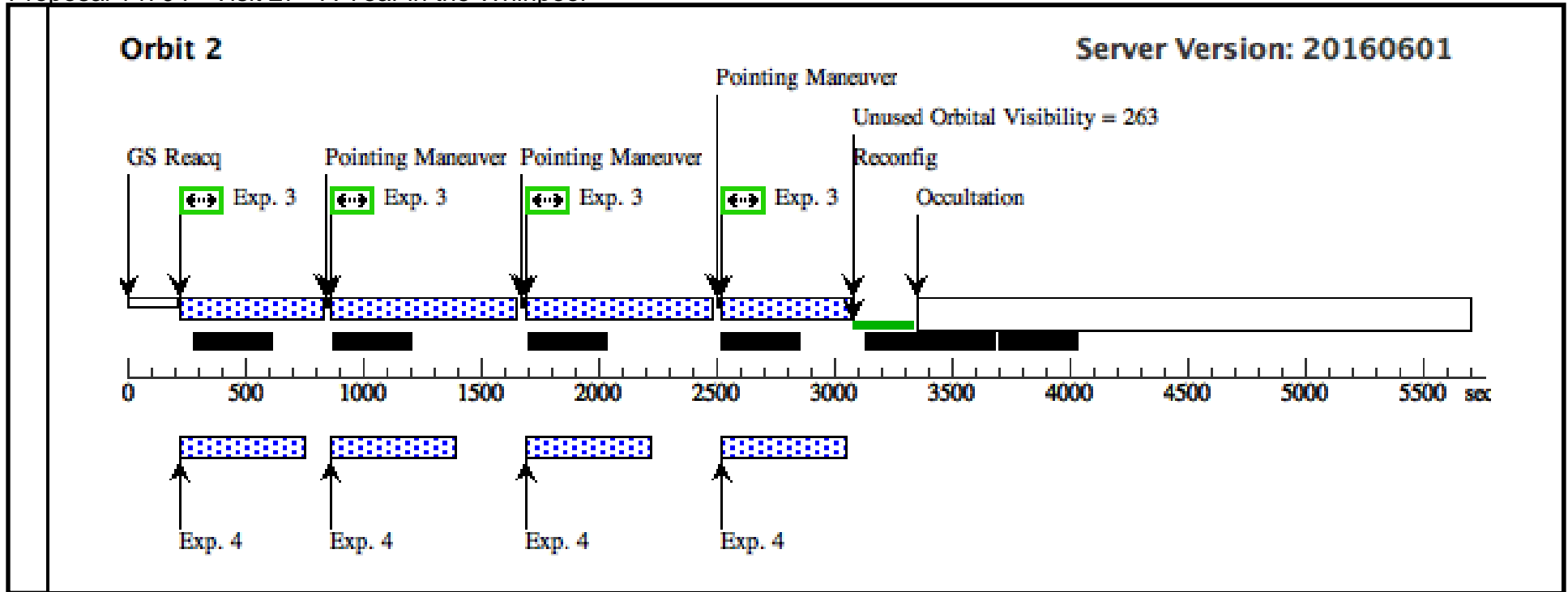
Visit	Proposal 14704, Visit 27, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 26; BETWEEN 19-JUL-2017:00:00:00 AND 21-JUL-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-2 in Visit 27 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 27	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 27 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 27	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 27 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 27	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPAR S100		Pattern 1, Exps 3-4 in Visit 27 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 27	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



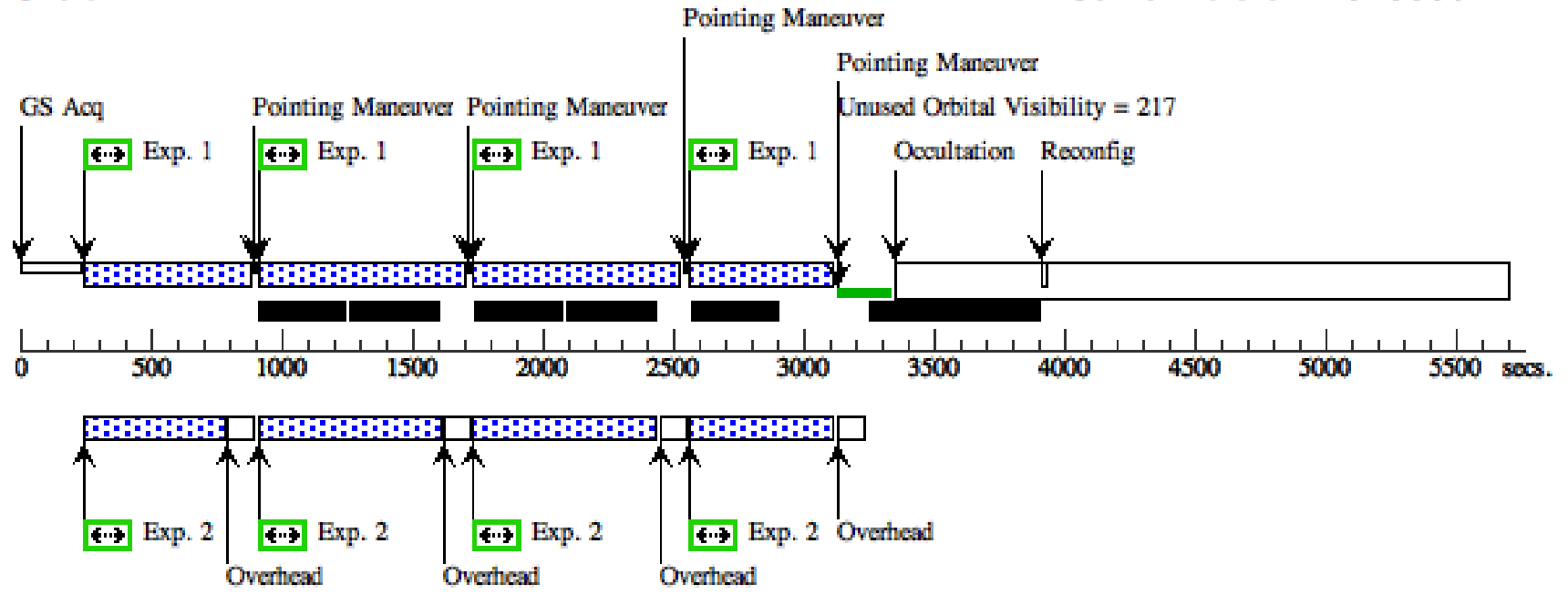
Proposal 14704 - Visit 28 - A Year in the Whirlpool

Wed Jan 18 02:04:30 GMT 2017

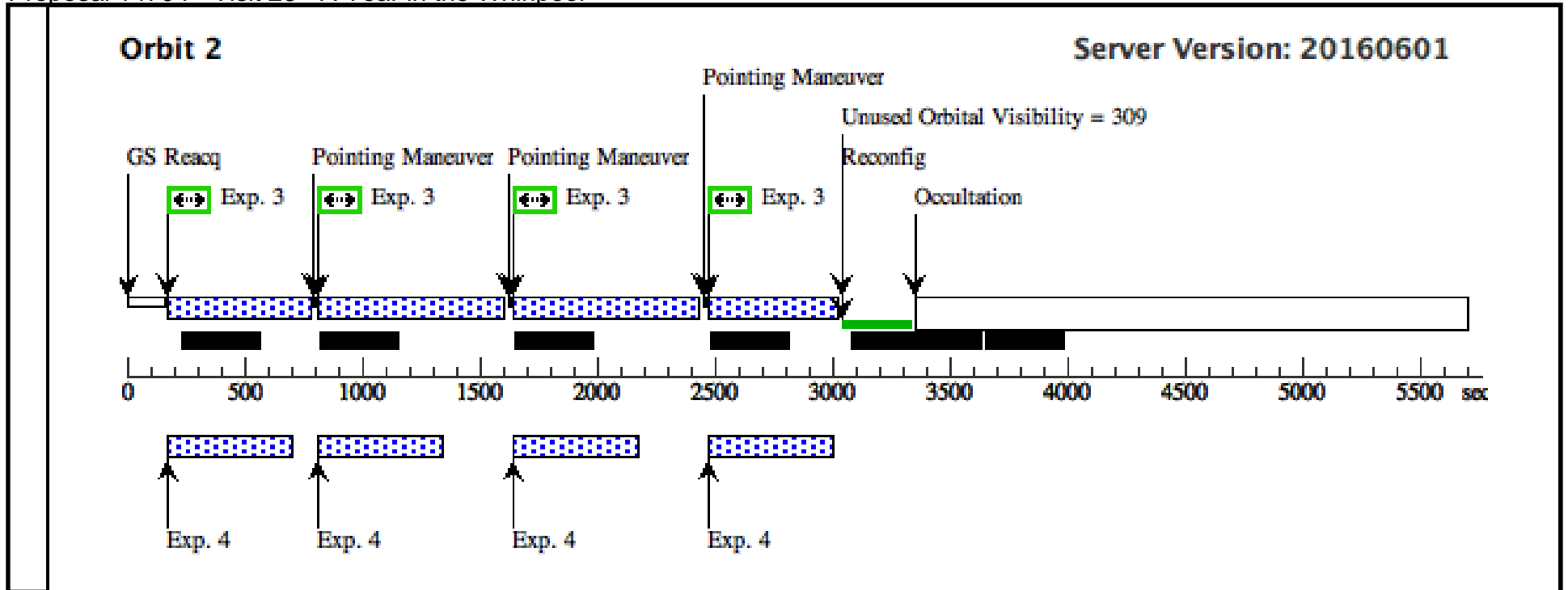
Visit	Proposal 14704, Visit 28, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: BETWEEN 30-JUL-2017:00:00:00 AND 02-AUG-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W		GS ACQ SCENARIO ONEB1B3	Pattern 1, Exps 1-2 in Visit 28 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 28	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 28 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 28	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 28 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 28	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPARS100		Pattern 1, Exps 3-4 in Visit 28 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 28	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



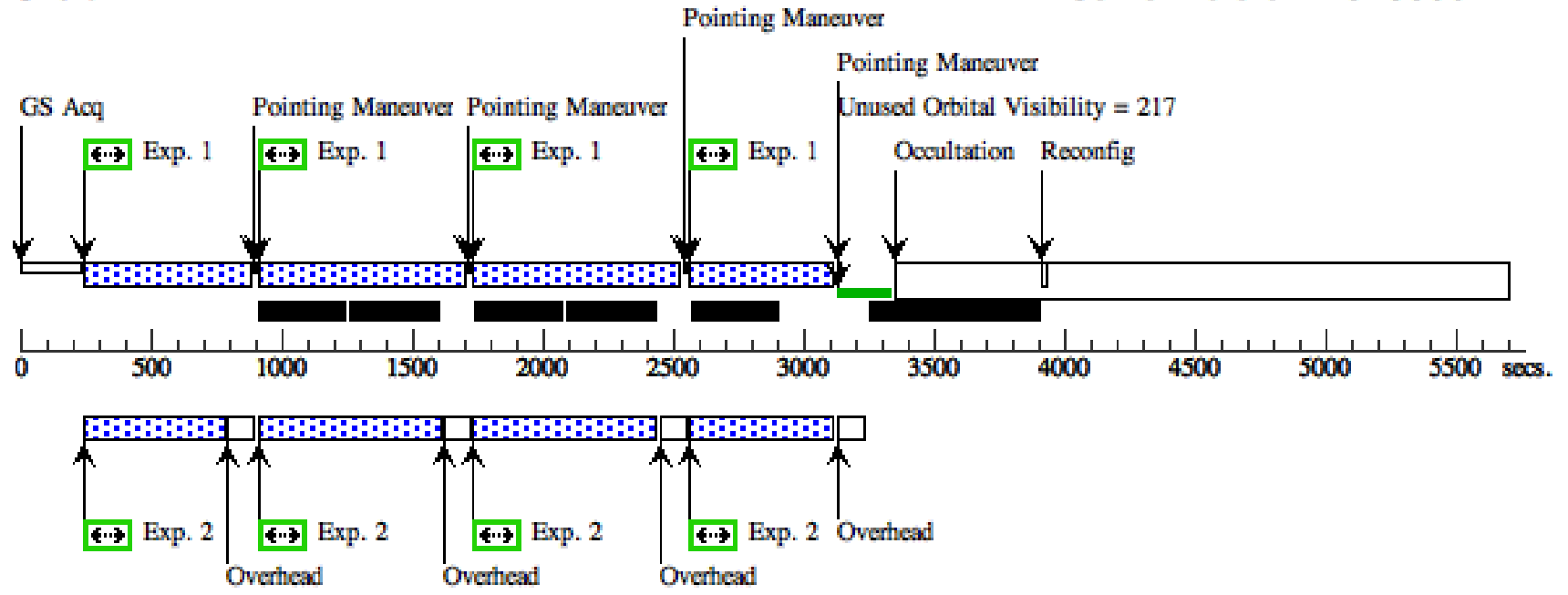
Proposal 14704 - Visit 29 - A Year in the Whirlpool

Wed Jan 18 02:04:30 GMT 2017

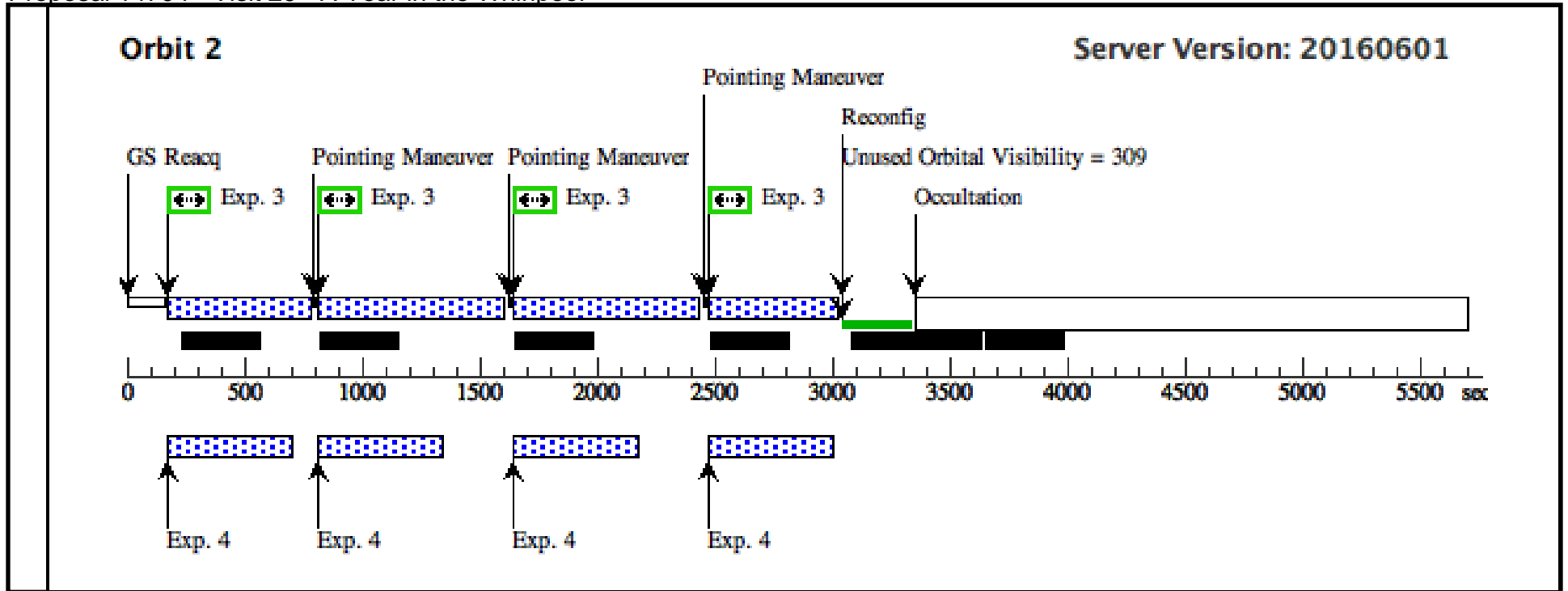
Visit	Proposal 14704, Visit 29, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 28; BETWEEN 05-AUG-2017:00:00:00 AND 07-AUG-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W		GS ACQ SCENARIO ONEB1B3	Pattern 1, Exps 1-2 in Visit 29 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 29	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 29 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 29	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 29 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 29	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W		NSAMP=6; SAMP-SEQ=SPAR S100	Pattern 1, Exps 3-4 in Visit 29 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 29	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



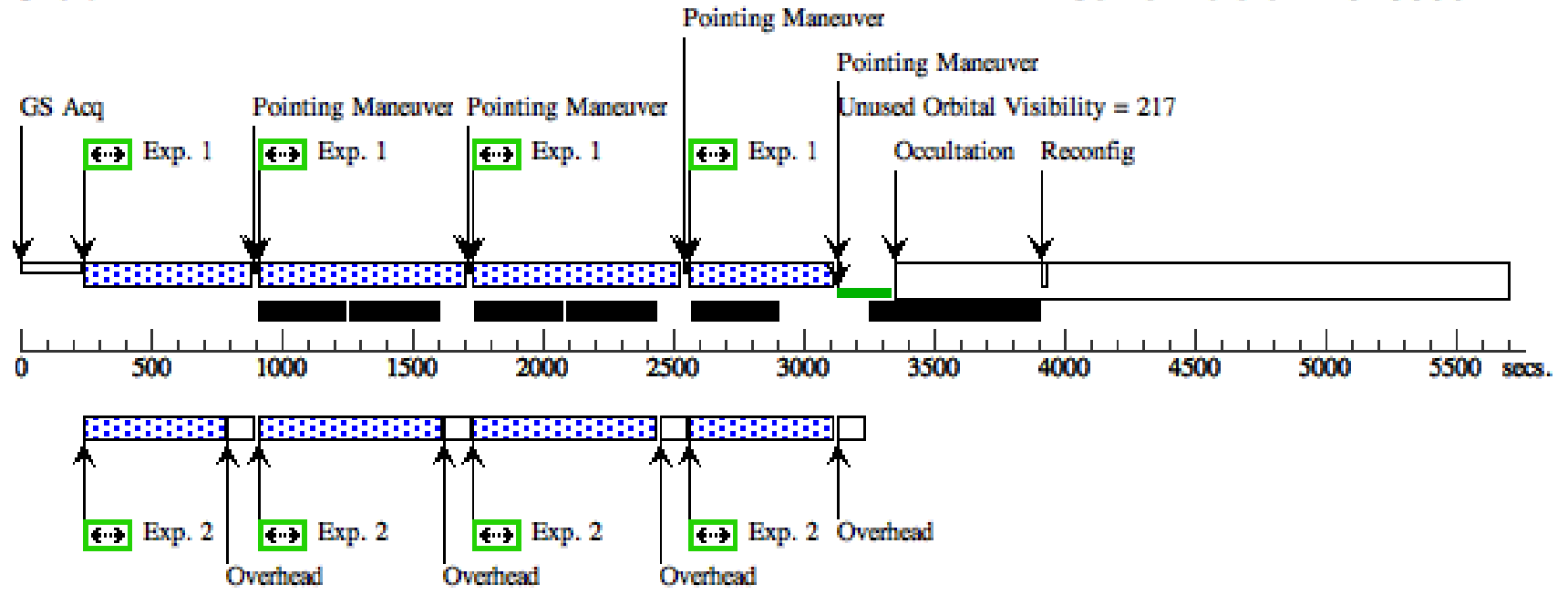
Proposal 14704 - Visit 30 - A Year in the Whirlpool

Wed Jan 18 02:04:30 GMT 2017

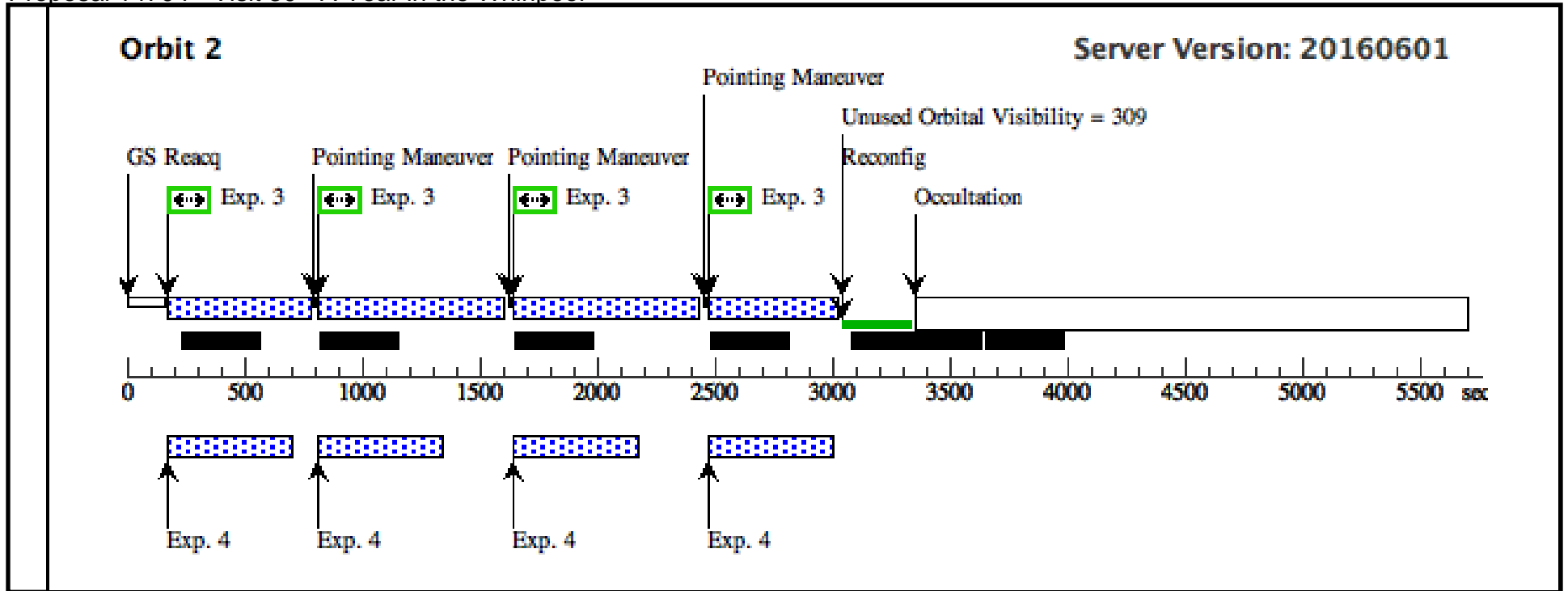
Visit	Proposal 14704, Visit 30, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: BETWEEN 13-AUG-2017:00:00:00 AND 15-AUG-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W		GS ACQ SCENARIO ONEB1B3	Pattern 1, Exps 1-2 in Visit 30 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 30	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 30 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 30	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 30 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 30	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPARS100		Pattern 1, Exps 3-4 in Visit 30 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 30	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



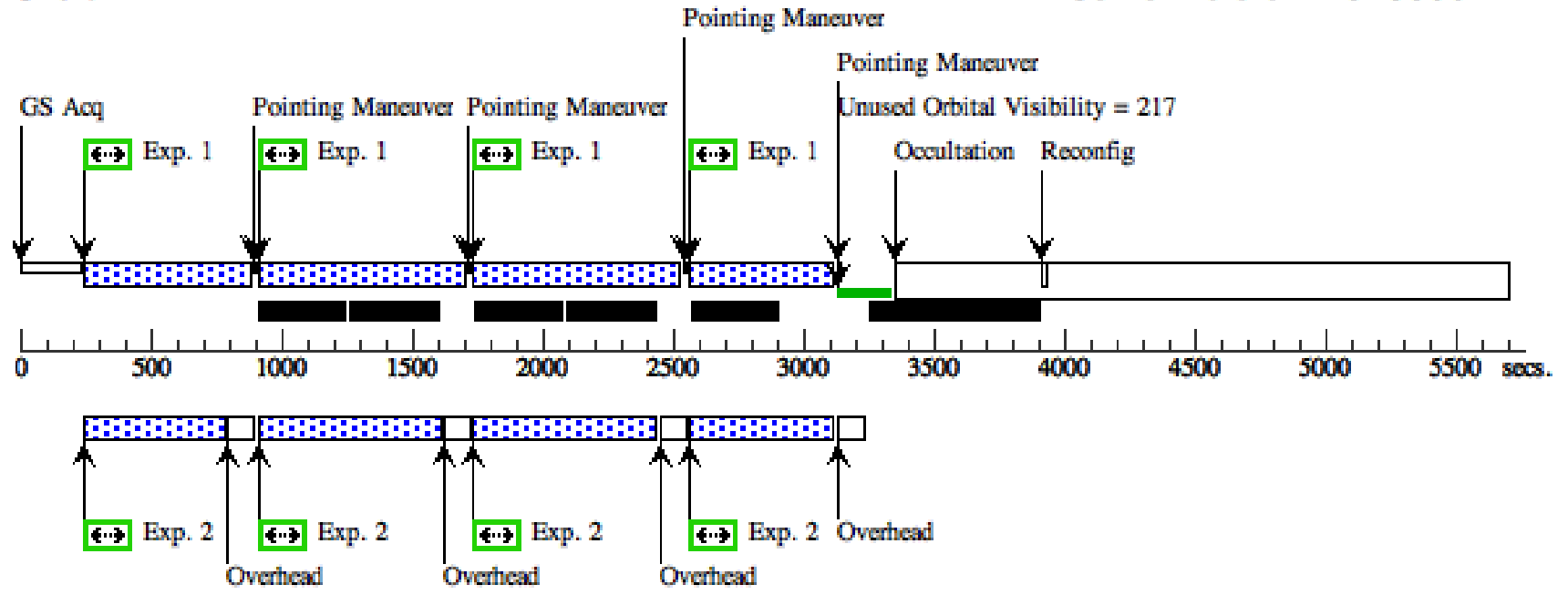
Proposal 14704 - Visit 31 - A Year in the Whirlpool

Wed Jan 18 02:04:30 GMT 2017

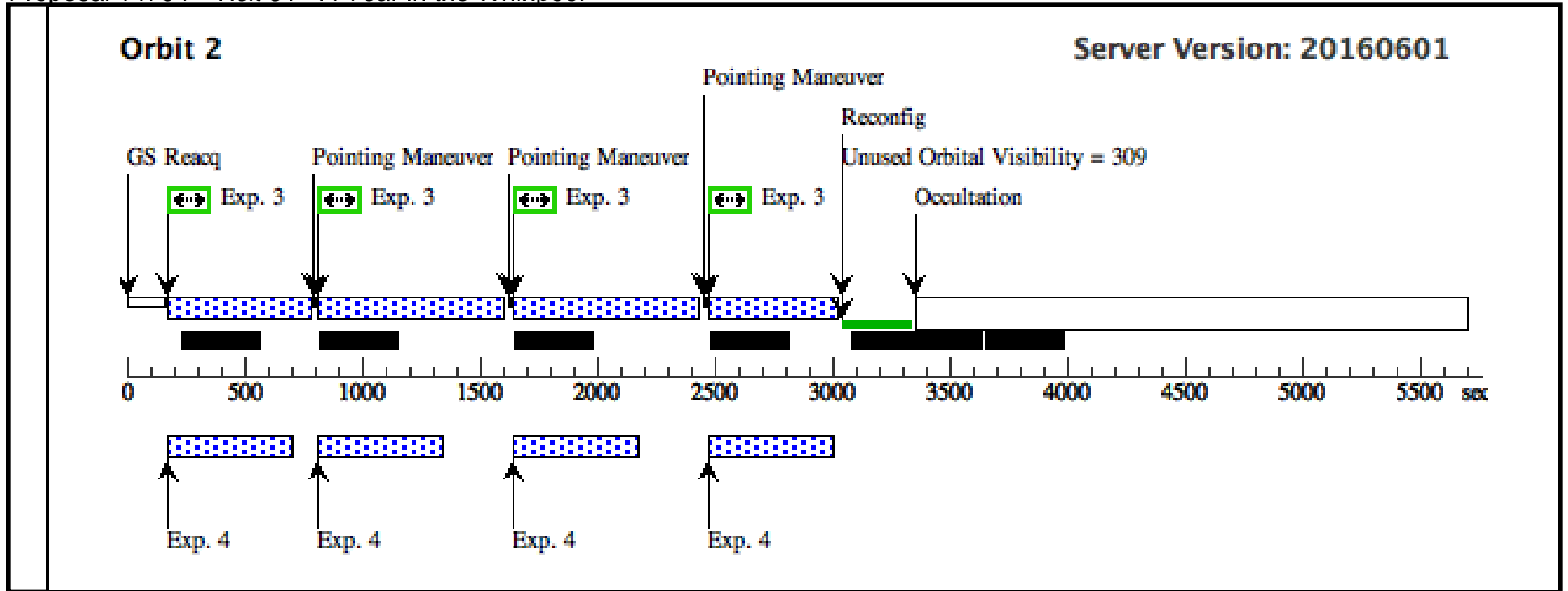
Visit	Proposal 14704, Visit 31, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 30; BETWEEN 20-AUG-2017:00:00:00 AND 22-AUG-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W		GS ACQ SCENARIO ONEB1B3	Pattern 1, Exps 1-2 in Visit 31 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 31	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 31 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 31	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 31 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 31	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPAR S100		Pattern 1, Exps 3-4 in Visit 31 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 31	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



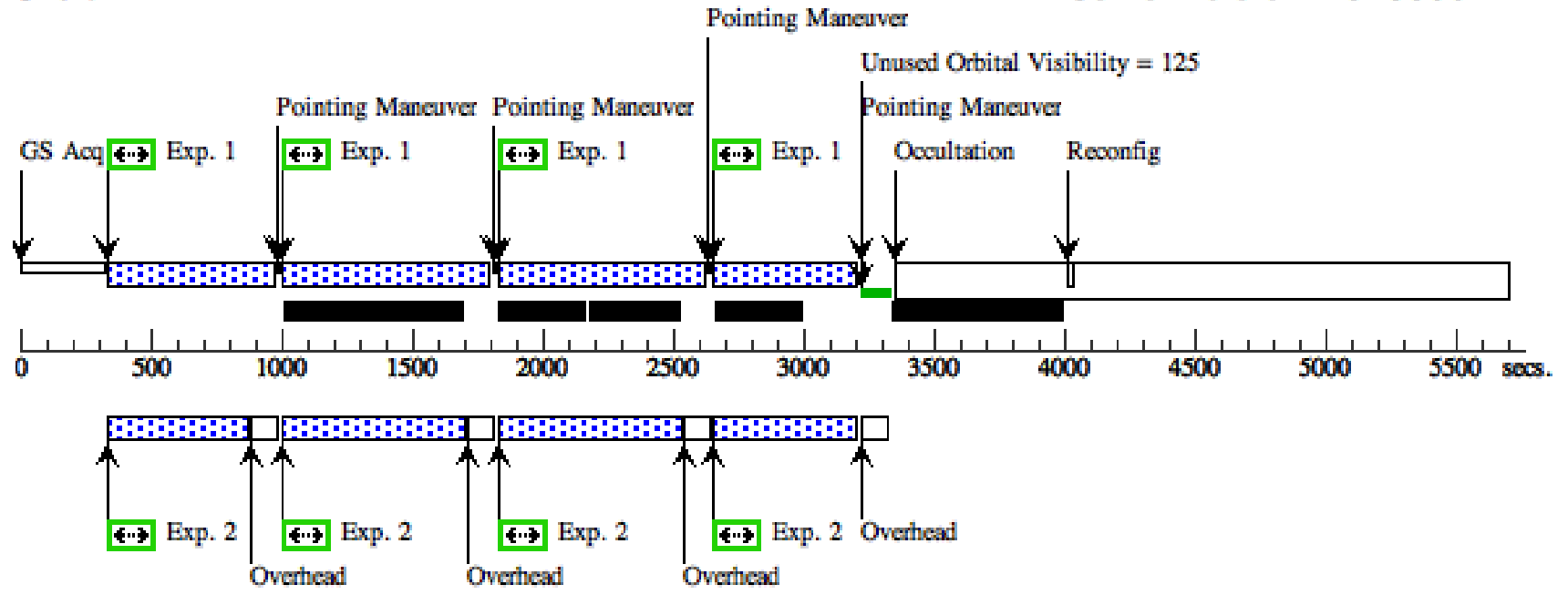
Proposal 14704 - Visit 32 - A Year in the Whirlpool

Wed Jan 18 02:04:30 GMT 2017

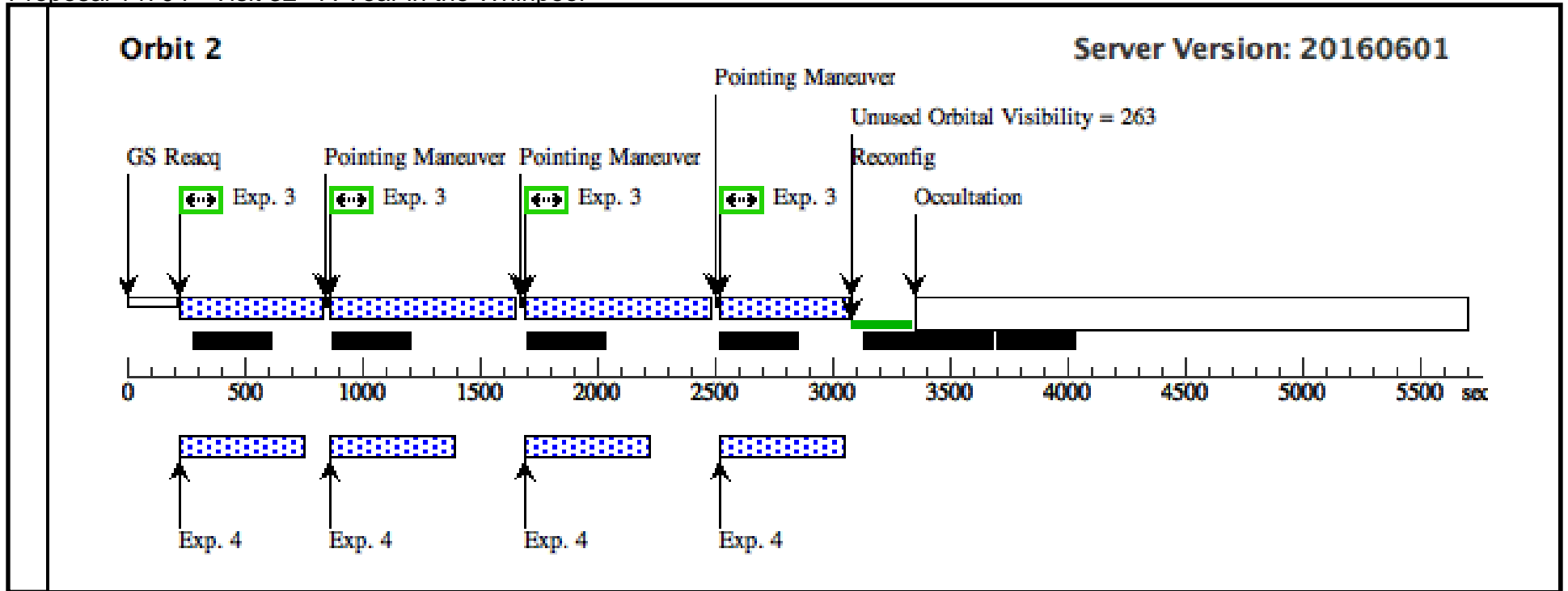
Visit	Proposal 14704, Visit 32, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: BETWEEN 28-AUG-2017:00:00:00 AND 30-AUG-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W		GS ACQ SCENARIO BASE1B3	Pattern 1, Exps 1-2 in Visit 32 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 32	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 32 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 32	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 32 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 32	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPARS100		Pattern 1, Exps 3-4 in Visit 32 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 32	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



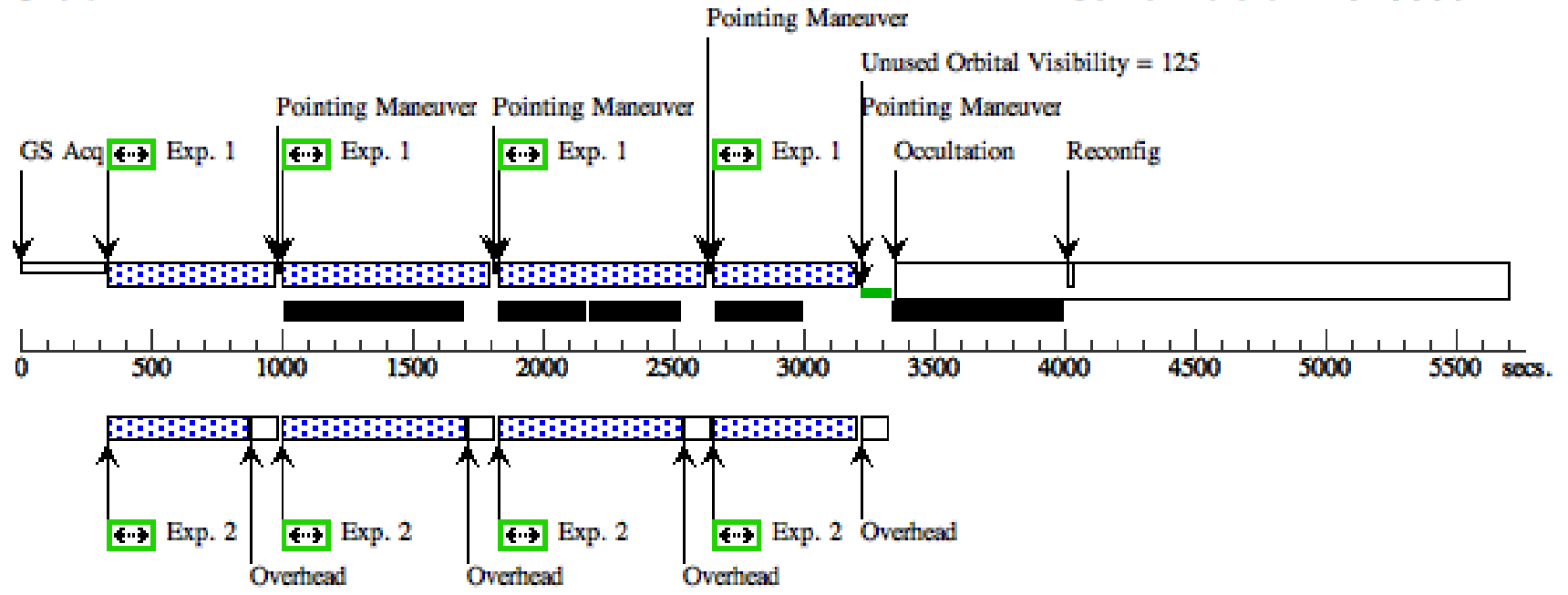
Proposal 14704 - Visit 33 - A Year in the Whirlpool

Wed Jan 18 02:04:30 GMT 2017

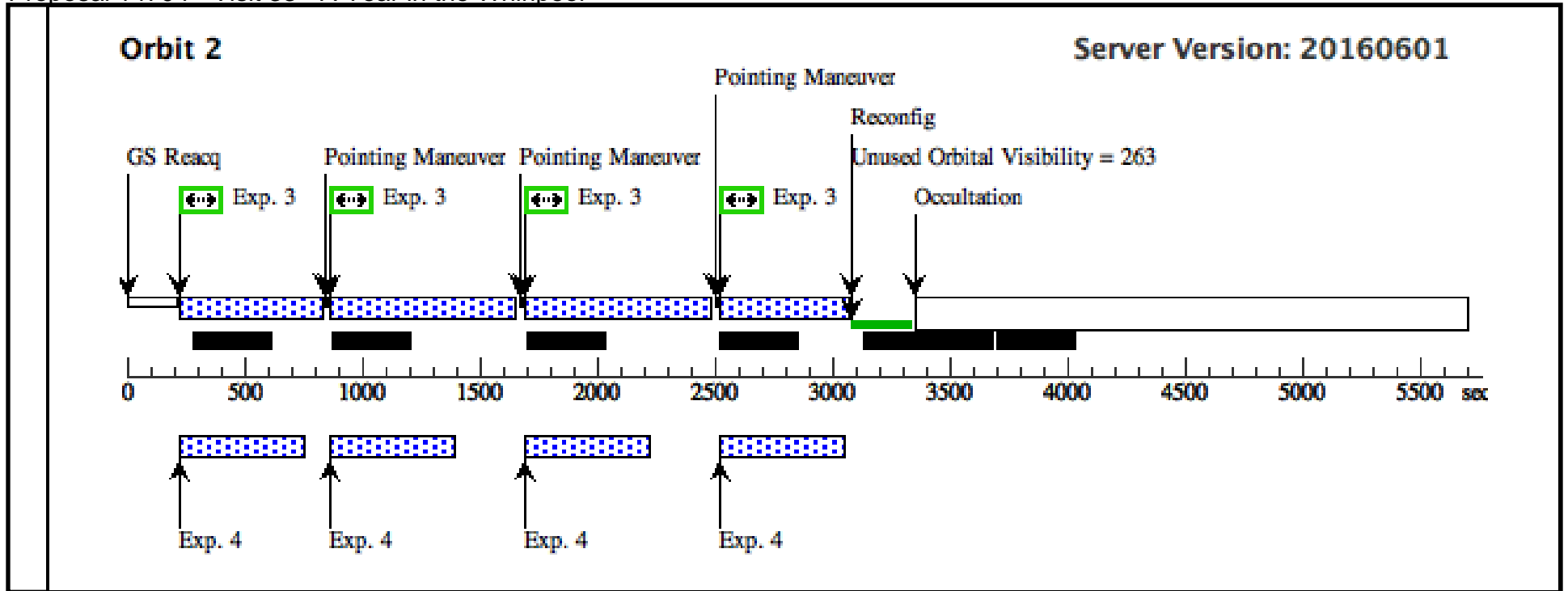
Visit	Proposal 14704, Visit 33, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: SAME ORIENT AS 32; BETWEEN 03-SEP-2017:00:00:00 AND 05-SEP-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W		GS ACQ SCENARIO BASE1B3	Pattern 1, Exps 1-2 in Visit 33 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 33	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 33 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 33	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 33 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 33	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPAR S100		Pattern 1, Exps 3-4 in Visit 33 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 33	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



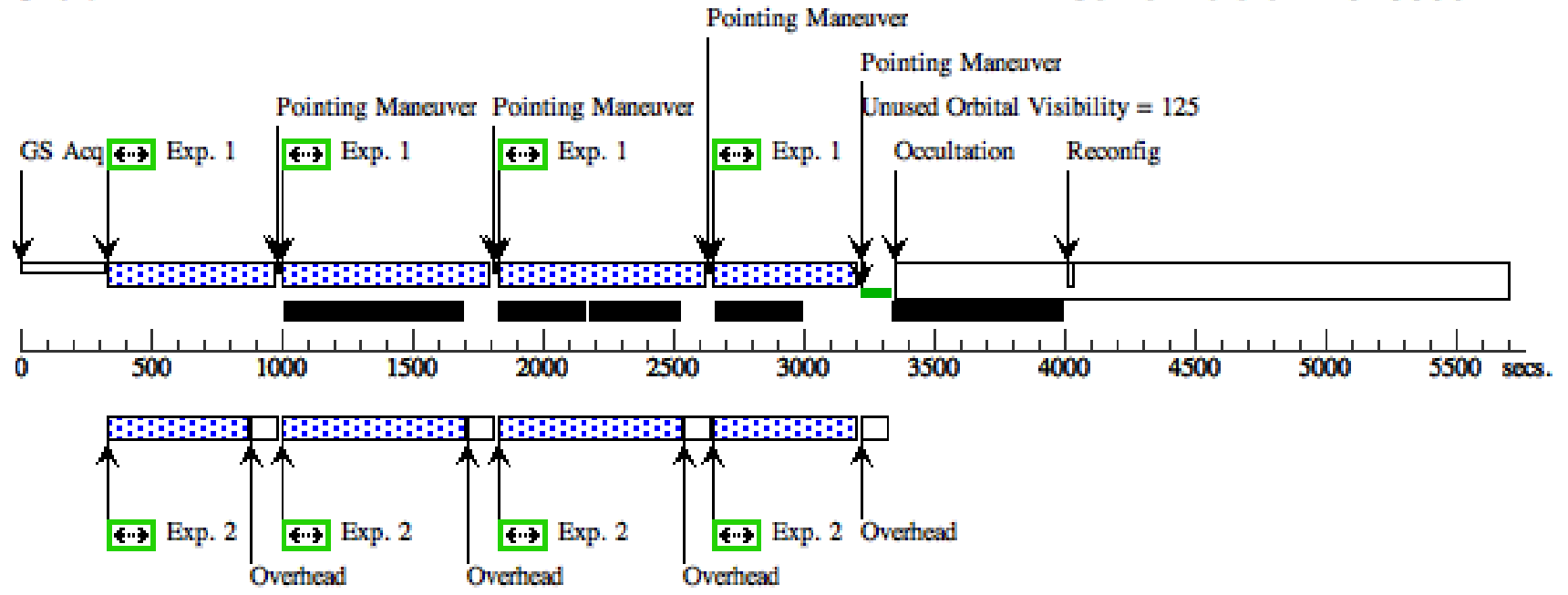
Proposal 14704 - Visit 34 - A Year in the Whirlpool

Wed Jan 18 02:04:30 GMT 2017

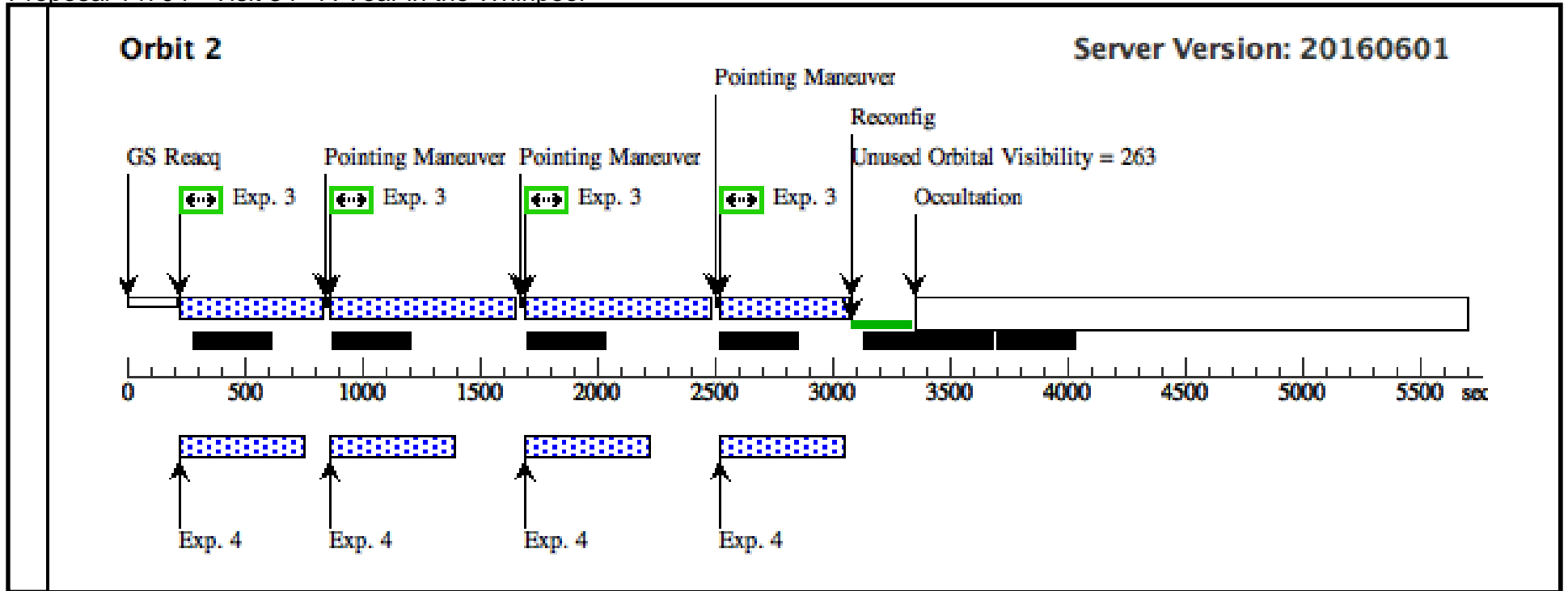
Visit	Proposal 14704, Visit 34, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC Special Requirements: BETWEEN 14-SEP-2017:00:00:00 AND 16-SEP-2017:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W		GS ACQ SCENARIO BASE1B3	Pattern 1, Exps 1-2 in Visit 34 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 34	500 Secs (2200 Secs) [==>430.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 34 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 34	500 Secs (2466 Secs) [==>510 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>556.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 34 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 34	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPARS100		Pattern 1, Exps 3-4 in Visit 34 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 34	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure



Proposal 14704 - Visit 35 - A Year in the Whirlpool

Wed Jan 18 02:04:30 GMT 2017

Visit	Proposal 14704, Visit 35, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC		
	Special Requirements: BETWEEN 17-FEB-2017:00:00:00 AND 19-FEB-2017:00:00:00		
<i>Comments: This is a repeat of visit 09 which failed due to a HST safing.</i>			

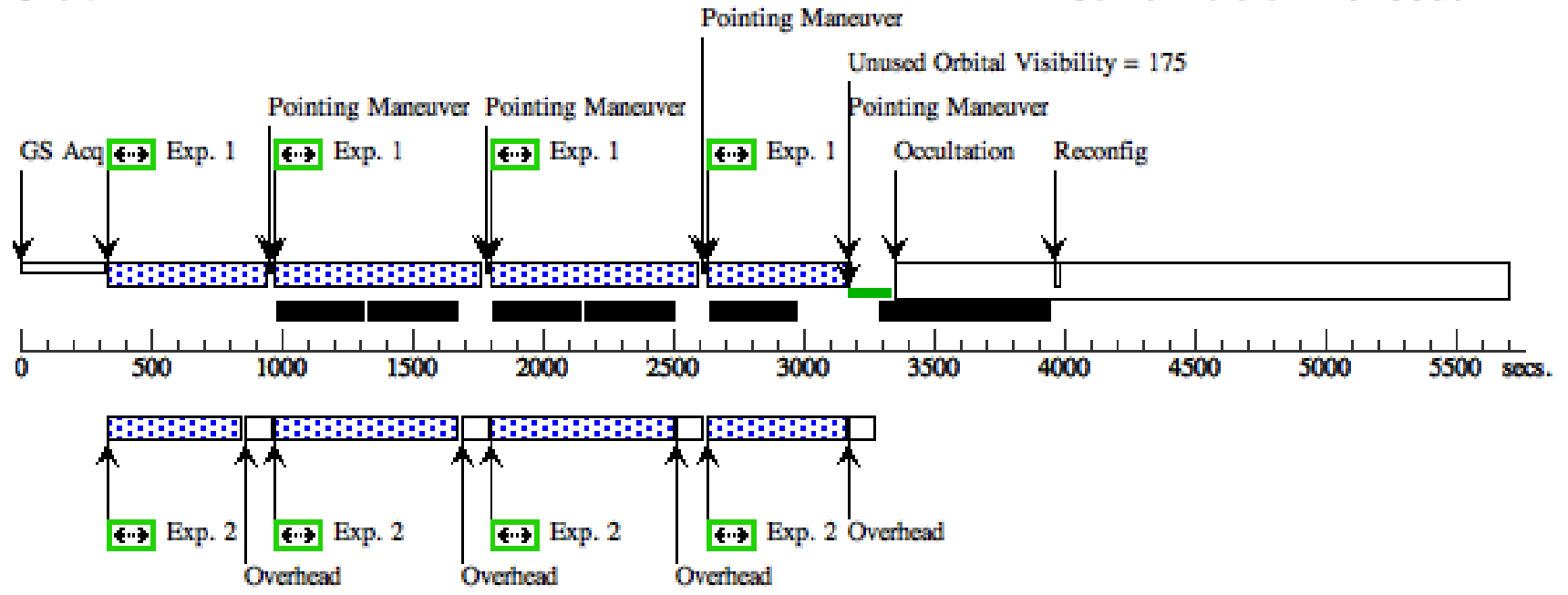
Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	M-51	RA: 13 29 59.0000 (202.4958333d) Dec: +47 11 12.69 (47.18686d) Equinox: J2000		V=8.36	Reference Frame: SIMBAD
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>						

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-2 in Visit 35 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 35	500 Secs (2150 Secs) [==>405.0 Secs (Pattern 1)] [==>670.0 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>405 Secs (Pattern 4)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS1	F606W			Pattern 1, Exps 1-2 in Visit 35 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 35	500 Secs (2416 Secs) [==>485 Secs (Pattern 1)] [==>700 Secs (Pattern 2)] [==>700 Secs (Pattern 3)] [==>531.0 Secs (Pattern 4)]	[1]
	3		(1) M-51	ACS/WFC, ACCUM, WFCENTER	F814W			Pattern 1, Exps 3-4 in Visit 35 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 35	500 Secs (2200 Secs) [==>430 Secs (Pattern 1)] [==>670 Secs (Pattern 2)] [==>670 Secs (Pattern 3)] [==>430 Secs (Pattern 4)]	[2]
	4		ANY	WFC3/IR, MULTIACCUM, IR	F110W	NSAMP=6; SAMP-SEQ=SPAR S100		Pattern 1, Exps 3-4 in Visit 35 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 35	502.933906 Secs (2011.736 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

Orbit 1

Server Version: 20160601



Orbit Structure

