



13581 - IR Earth Flats: Grisms

Cycle: 21, Proposal Category: CAL/WFC3

(Availability Mode: RESTRICTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
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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	DARK-EARTH-CALIB	WFC3/IR	1	30-Oct-2013 21:36:49.0	yes
02	DARK-EARTH-CALIB	WFC3/IR	1	30-Oct-2013 21:36:54.0	yes
03	DARK-EARTH-CALIB	WFC3/IR	1	30-Oct-2013 21:36:57.0	yes
04	DARK-EARTH-CALIB	WFC3/IR	1	30-Oct-2013 21:36:59.0	yes
05	DARK-EARTH-CALIB	WFC3/IR	1	30-Oct-2013 21:37:01.0	yes
06	DARK-EARTH-CALIB	WFC3/IR	1	30-Oct-2013 21:37:04.0	yes
07	DARK-EARTH-CALIB	WFC3/IR	1	30-Oct-2013 21:37:06.0	yes
08	DARK-EARTH-CALIB	WFC3/IR	1	30-Oct-2013 21:37:09.0	yes
09	DARK-EARTH-CALIB	WFC3/IR	1	30-Oct-2013 21:37:11.0	yes
10	DARK-EARTH-CALIB	WFC3/IR	1	30-Oct-2013 21:37:14.0	yes
11	DARK-EARTH-CALIB	WFC3/IR	1	30-Oct-2013 21:37:17.0	yes
12	DARK-EARTH-CALIB	WFC3/IR	1	30-Oct-2013 21:37:19.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
13	DARK-EARTH-CALIB	WFC3/IR	1	30-Oct-2013 21:37:22.0	yes
14	DARK-EARTH-CALIB	WFC3/IR	1	30-Oct-2013 21:37:25.0	yes
15	DARK-EARTH-CALIB	WFC3/IR	1	30-Oct-2013 21:37:27.0	yes
16	DARK-EARTH-CALIB	WFC3/IR	1	30-Oct-2013 21:37:30.0	yes
17	DARK-EARTH-CALIB	WFC3/IR	1	30-Oct-2013 21:37:33.0	yes
18	DARK-EARTH-CALIB	WFC3/IR	1	30-Oct-2013 21:37:35.0	yes
19	DARK-EARTH-CALIB	WFC3/IR	1	30-Oct-2013 21:37:38.0	yes
20	DARK-EARTH-CALIB	WFC3/IR	1	30-Oct-2013 21:37:41.0	yes

20 Total Orbits Used

ABSTRACT

Observe the dark earth with the IR grisms to build up a high S/N model of the two-dimensional background structure. See also 12079 and 13099 for a similar exercise generating flat-field images for the imaging filters.

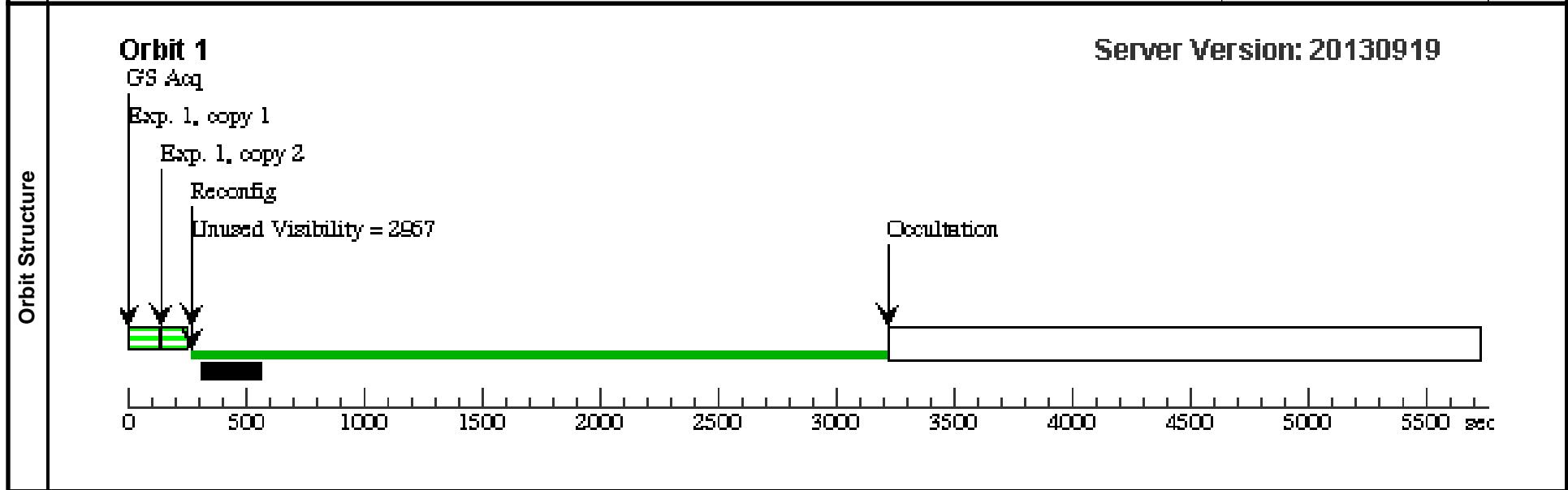
OBSERVING DESCRIPTION

This program follows the imaging filter programs 12709 and 13099 to take short exposures of the dark Earth during occultation to build up high S/N flat-field images with the IR grisms (G102 and G141). The exposures for the grisms sample less the flat-field and more the two-dimensional structure in the background, which will be compared to stacked images of the much fainter zodiacal sky background in GO science exposures. Experience with the broad and medium band filters suggests that each dark Earth image will typically produce Poisson noise per pixel of 1% rms.

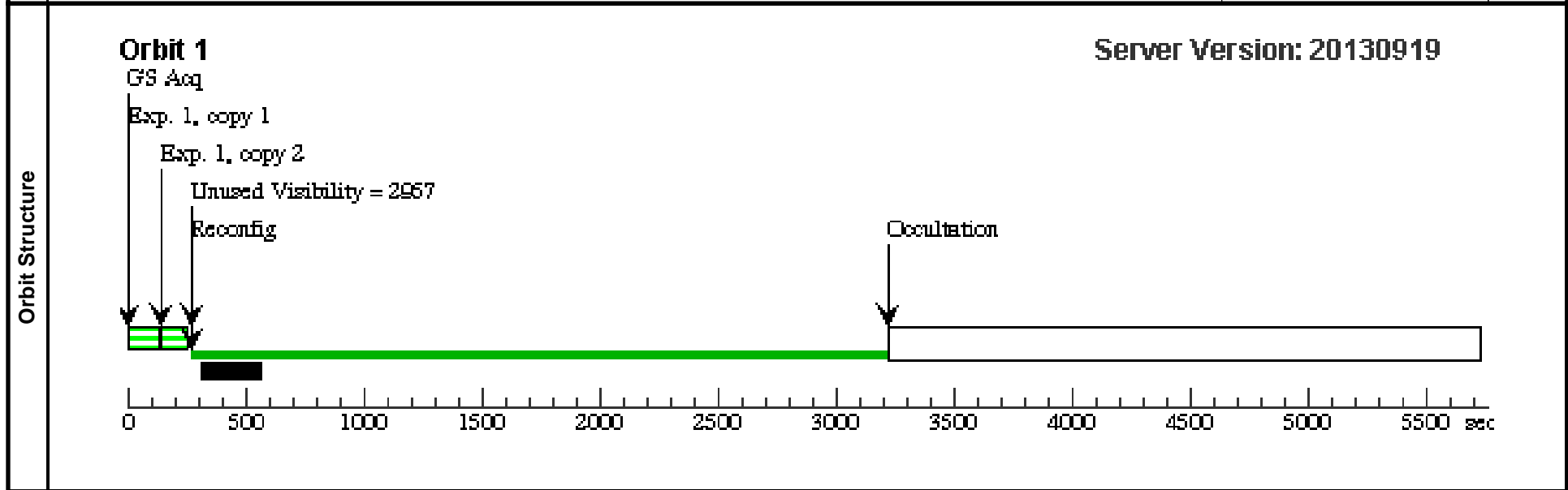
ADDITIONAL COMMENTS

We refer to these as internal orbits because they are external targets observed for only ~10 minutes per visit, during Earth occultation of science targets.

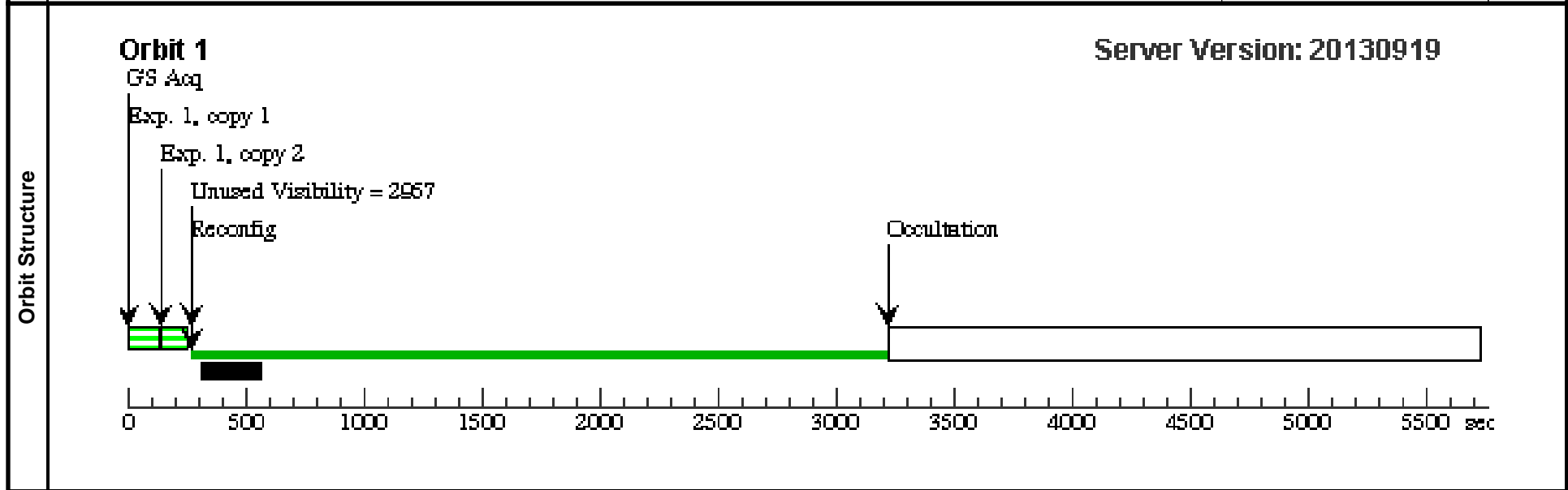
Visit	Proposal 13581, G102 (01)									
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Exposures	Scientific Instruments: WFC3/IR									
	Special Requirements: (none)									
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1		DARK-EARTH-CA LIB	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=5; SAMP-SEQ=SPAR S25			102.934351 Secs X 2 (205.869 Secs)		
								[==>(Copy 1)]		
								[==>(Copy 2)]		[1]



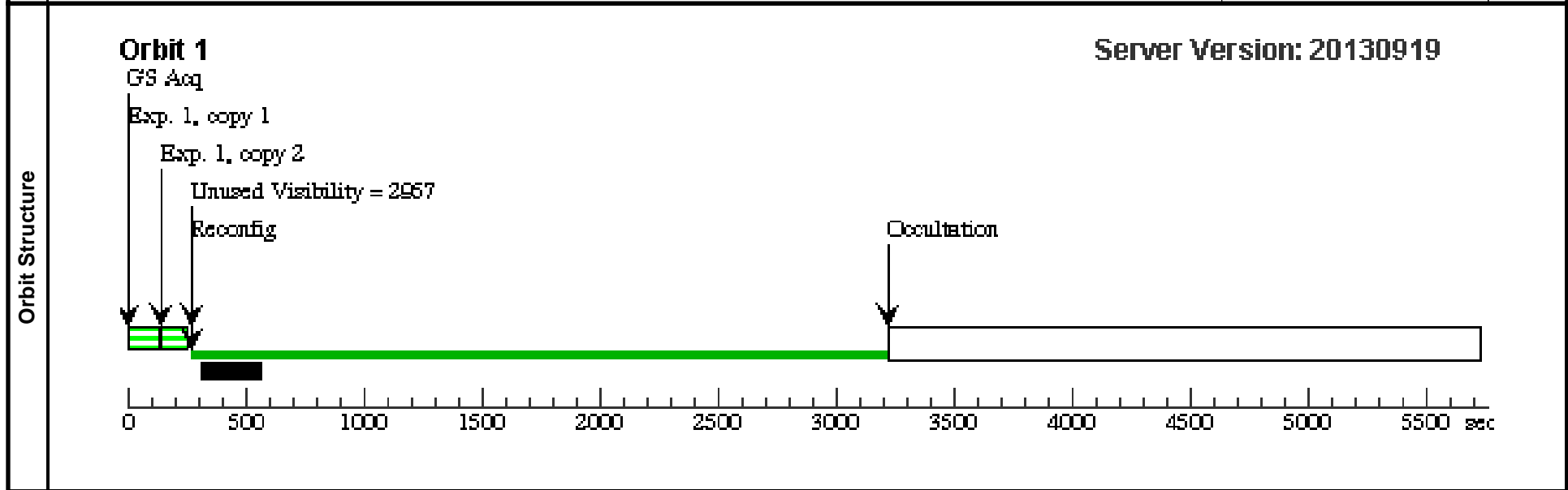
Visit	Proposal 13581, G102 (02) Thu Oct 31 01:37:49 GMT 2013 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
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1			DARK-EARTH-CA LIB	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=5; SAMP-SEQ=SPAR S25			102.934351 Secs X 2 (205.869 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]



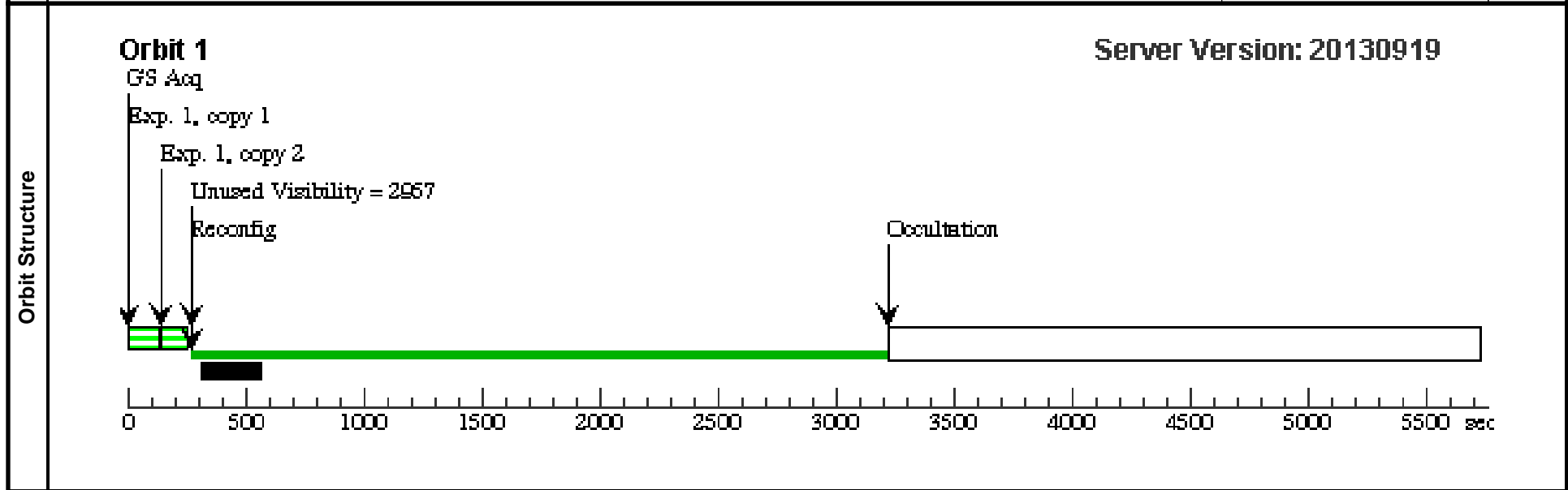
Visit	Proposal 13581, G102 (03)									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
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	1		DARK-EARTH-CA LIB	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=5; SAMP-SEQ=SPAR S25			102.934351 Secs X 2 (205.869 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]



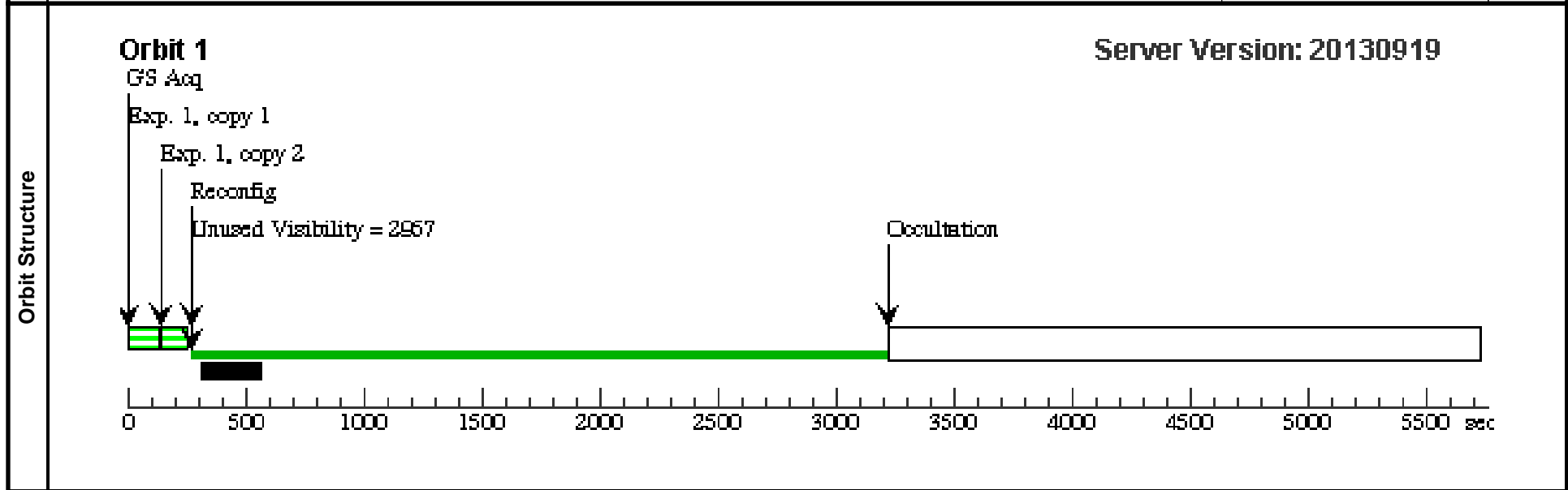
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	1		DARK-EARTH-CA LIB	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=5; SAMP-SEQ=SPAR S25				102.934351 Secs X 2 (205.869 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]



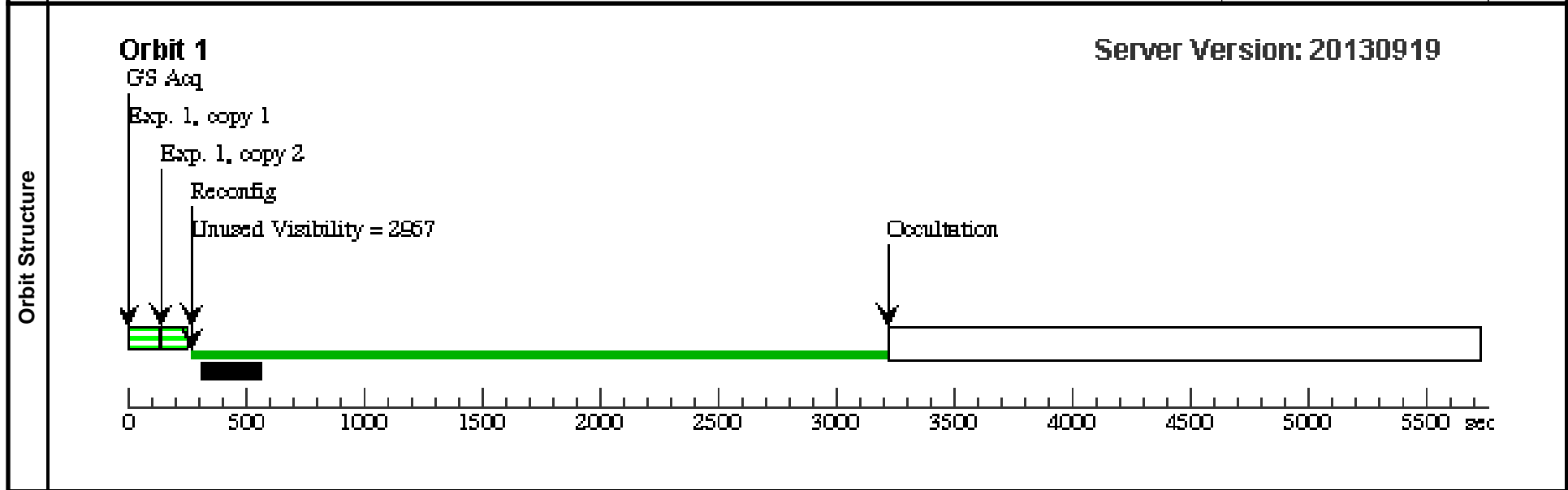
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Exposures	Scientific Instruments: WFC3/IR									
	Special Requirements: (none)									
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1		DARK-EARTH-CA LIB	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=5; SAMP-SEQ=SPAR S25			102.934351 Secs X 2 (205.869 Secs)		
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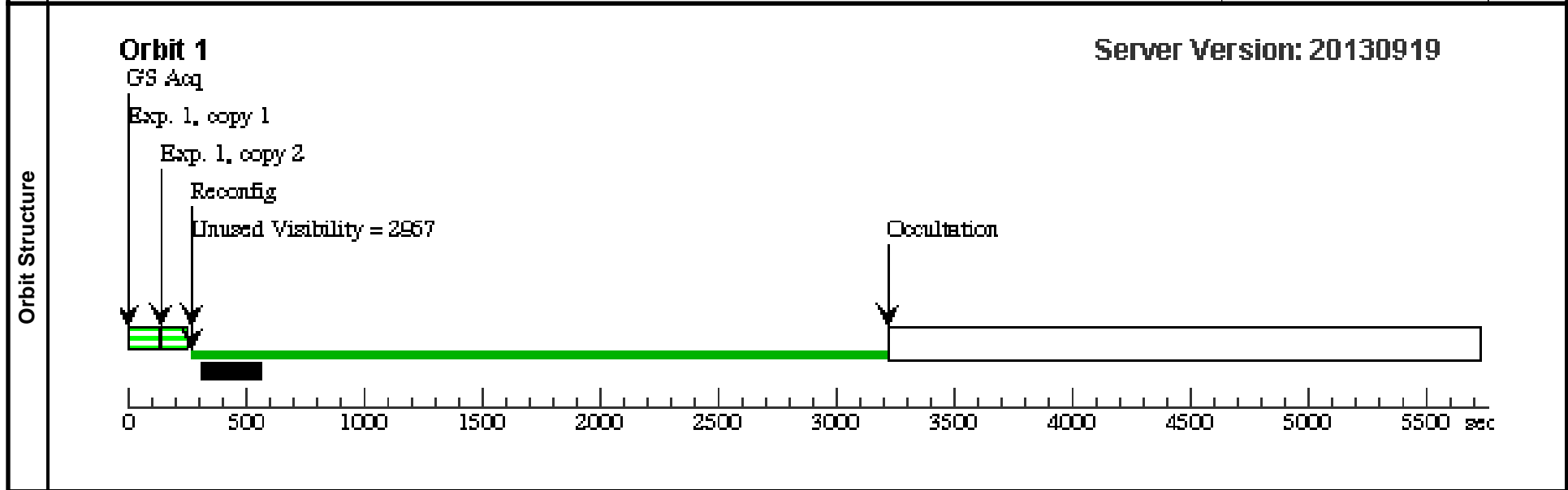
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Exposures	Scientific Instruments: WFC3/IR									
	Special Requirements: (none)									
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1		DARK-EARTH-CA LIB	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=5; SAMP-SEQ=SPAR S25			102.934351 Secs X 2 (205.869 Secs)		
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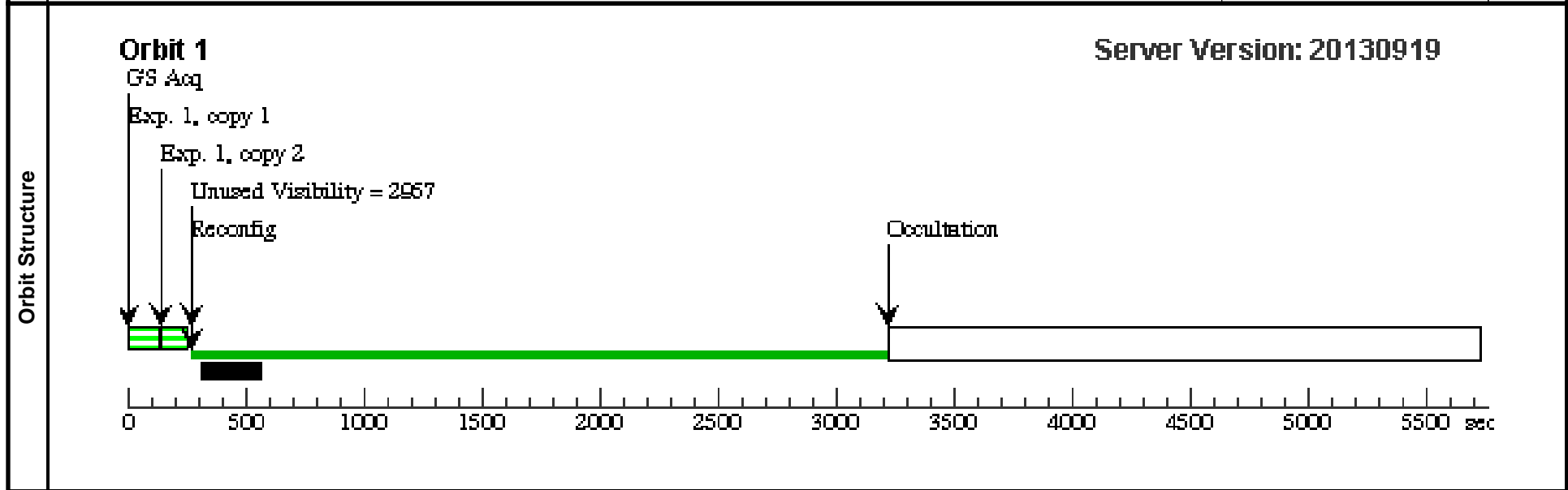
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Exposures	Scientific Instruments: WFC3/IR									
	Special Requirements: (none)									
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1		DARK-EARTH-CA LIB	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=5; SAMP-SEQ=SPAR S25			102.934351 Secs X 2 (205.869 Secs)		
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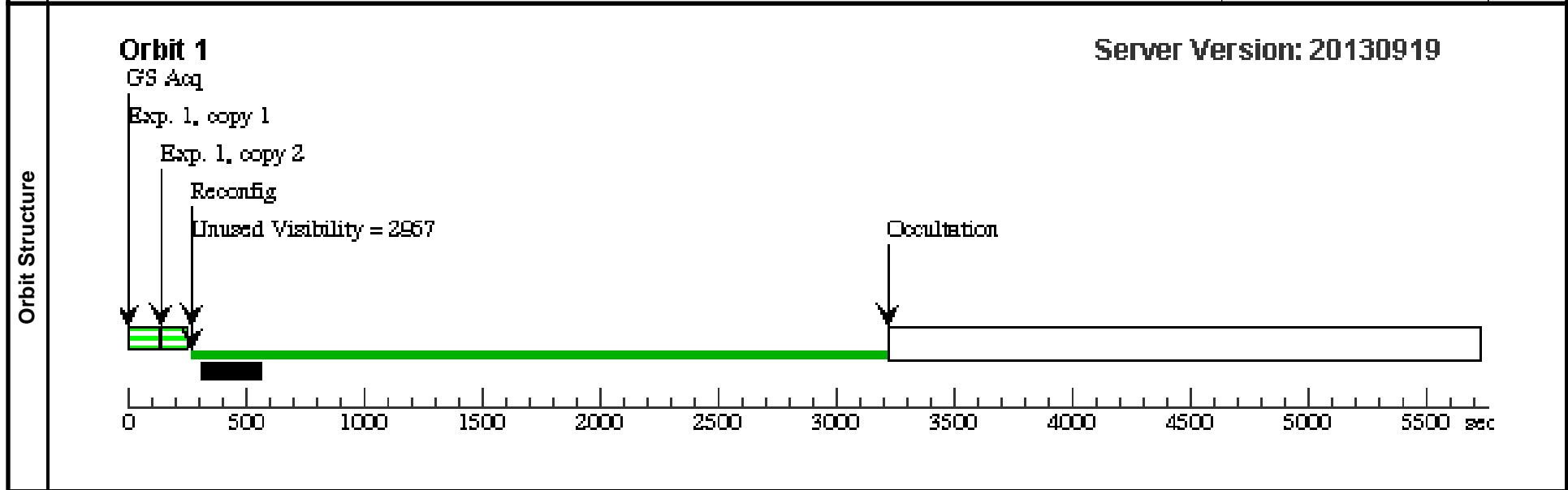
Visit	Proposal 13581, G102 (08)									
	Diagnostic Status: No Diagnostics									
Exposures	Scientific Instruments: WFC3/IR									
	Special Requirements: (none)									
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	
1		DARK-EARTH-CA LIB	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=5; SAMP-SEQ=SPAR S25			102.934351 Secs X 2 (205.869 Secs)		
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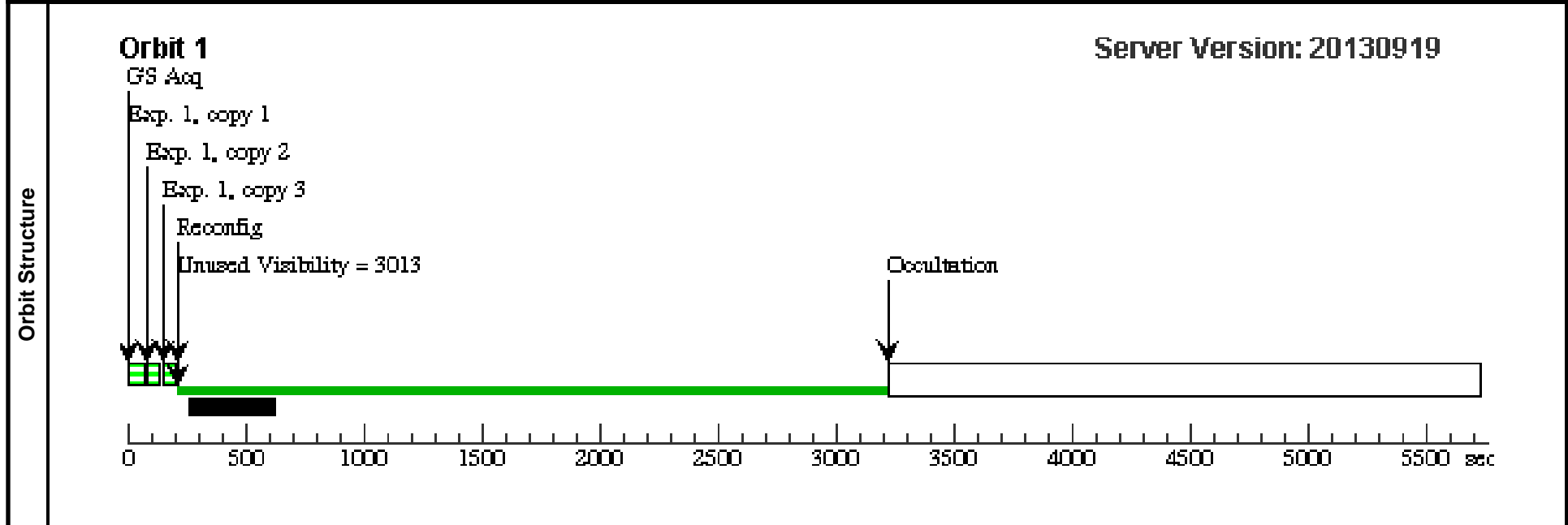
Visit	Proposal 13581, G102 (09)										
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		DARK-EARTH-CA LIB	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=5; SAMP-SEQ=SPAR S25				102.934351 Secs X 2 (205.869 Secs) [==>(Copy 1)] [==>(Copy 2)]	[1]



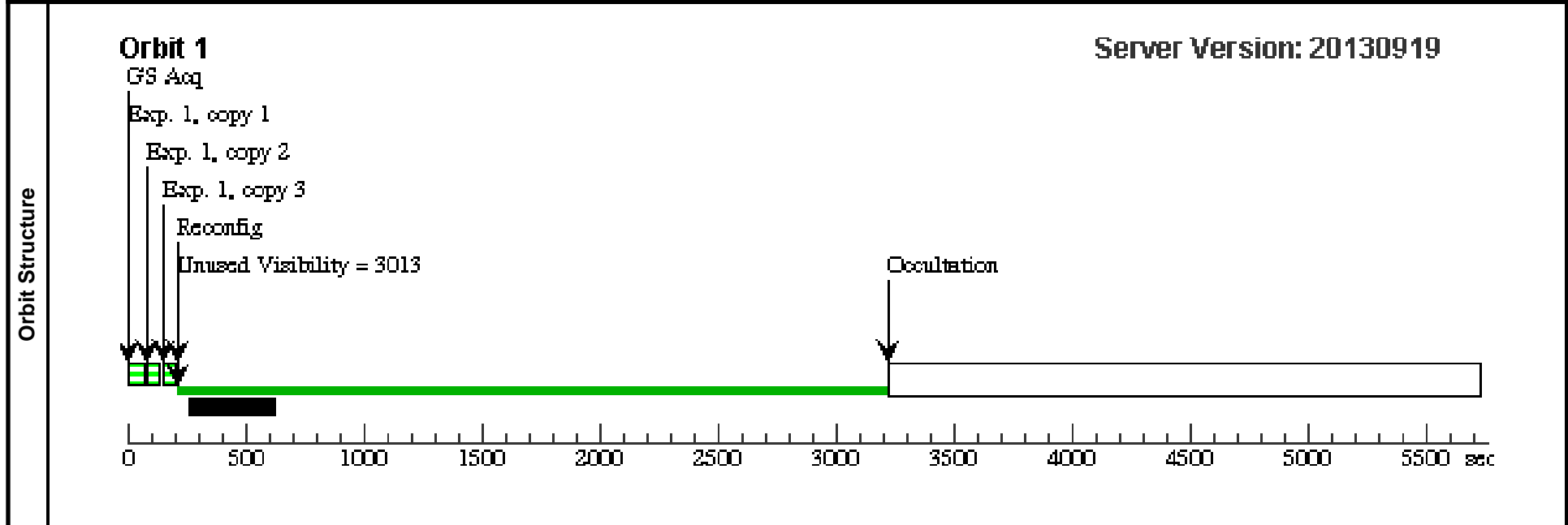
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Exposures	Scientific Instruments: WFC3/IR									
	Special Requirements: (none)									
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1		DARK-EARTH-CA LIB	WFC3/IR, MULTIACCUM, IR	G102	NSAMP=5; SAMP-SEQ=SPAR S25			102.934351 Secs X 2 (205.869 Secs)		
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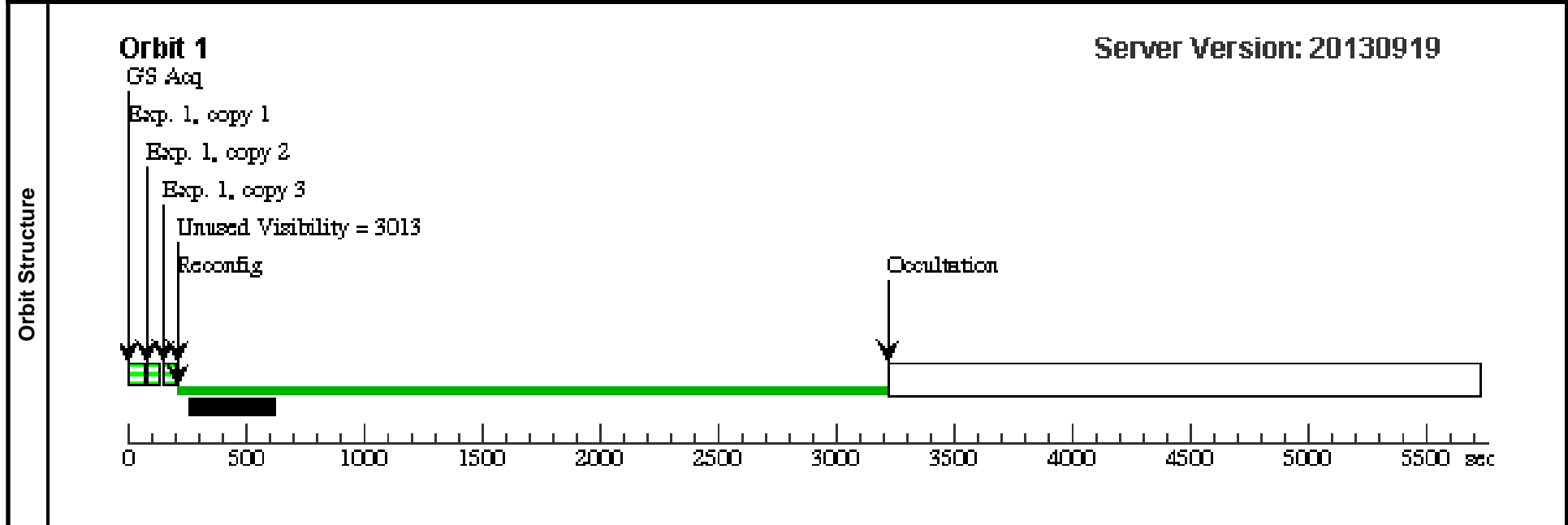
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		DARK-EARTH-CA LIB	WFC3/IR, MULTIACCUM, IR	G141	NSAMP=5; SAMP-SEQ=SPAR S10				42.936143 Secs X 3 (128.808 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]



Visit	Proposal 13581, G141 (12) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		DARK-EARTH-CA LIB	WFC3/IR, MULTIACCUM, IR	G141	NSAMP=5; SAMP-SEQ=SPAR S10			42.936143 Secs X 3 (128.808 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]

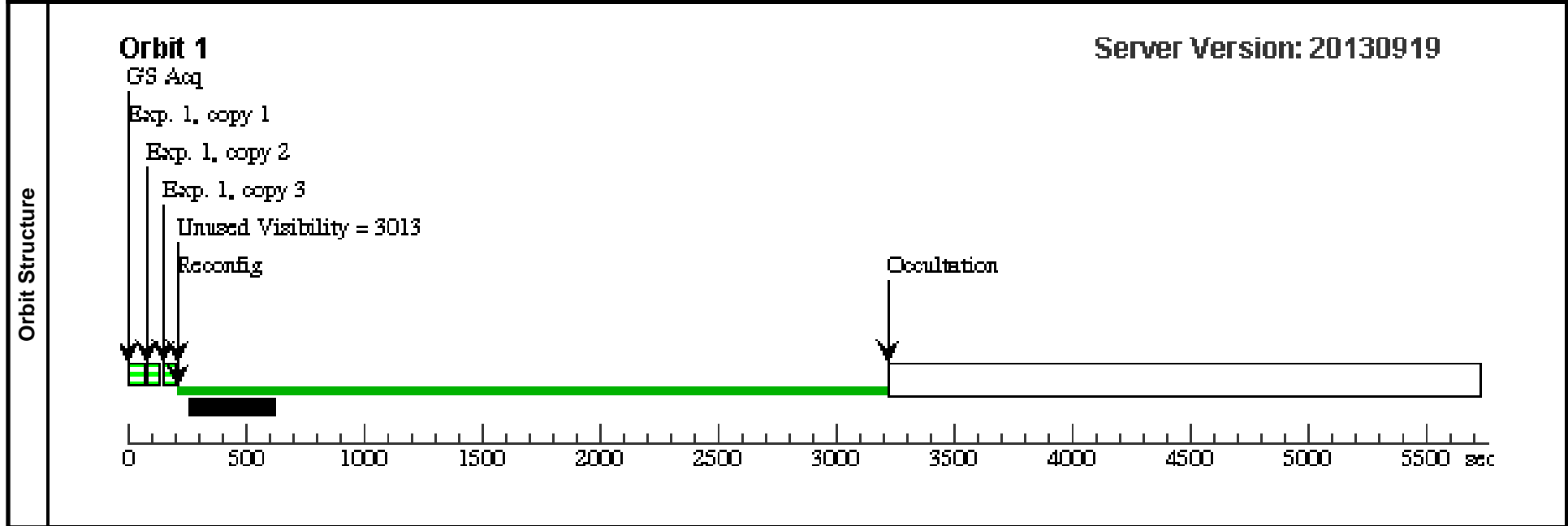


Visit	Proposal 13581, G141 (13)										
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		DARK-EARTH-CA LIB	WFC3/IR, MULTIACCUM, IR	G141	NSAMP=5; SAMP-SEQ=SPAR S10				42.936143 Secs X 3 (128.808 Secs)	[1]
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									[==>(Copy 2)]		
									[==>(Copy 3)]		



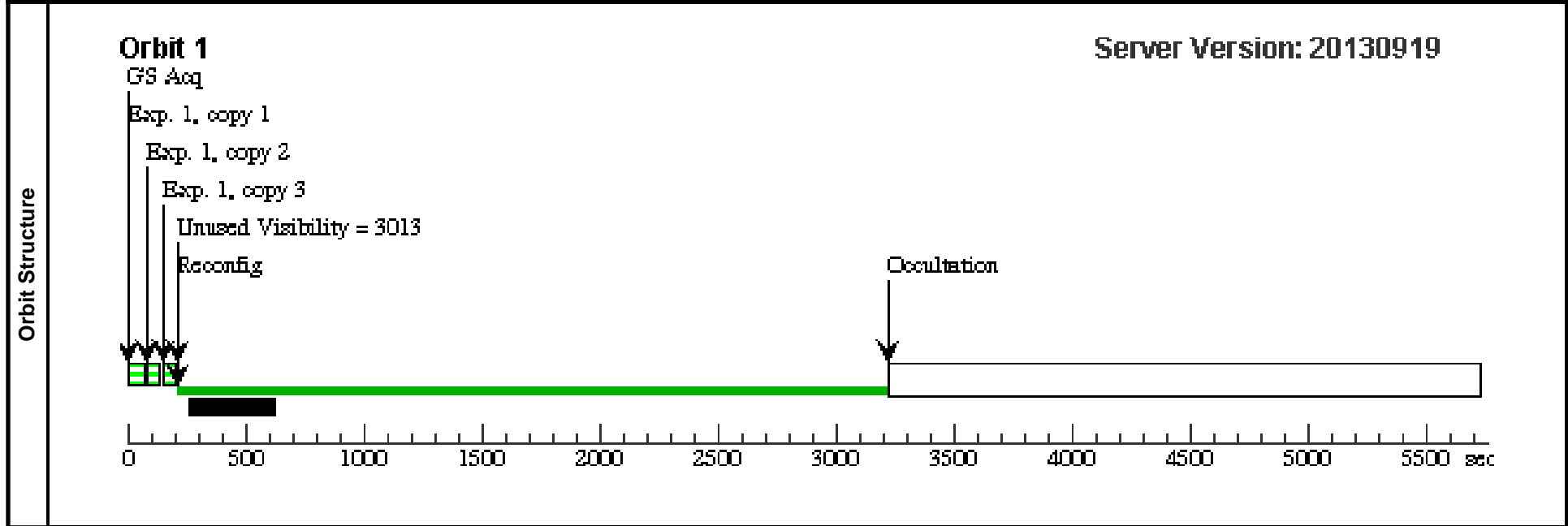
Visit	Proposal 13581, G141 (14)									
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	Scientific Instruments: WFC3/IR									
	Special Requirements: (none)									

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		DARK-EARTH-CA LIB		WFC3/IR, MULTIACCUM, IR	G141	NSAMP=5; SAMP-SEQ=SPAR S10			42.936143 Secs X 3 (128.808 Secs)
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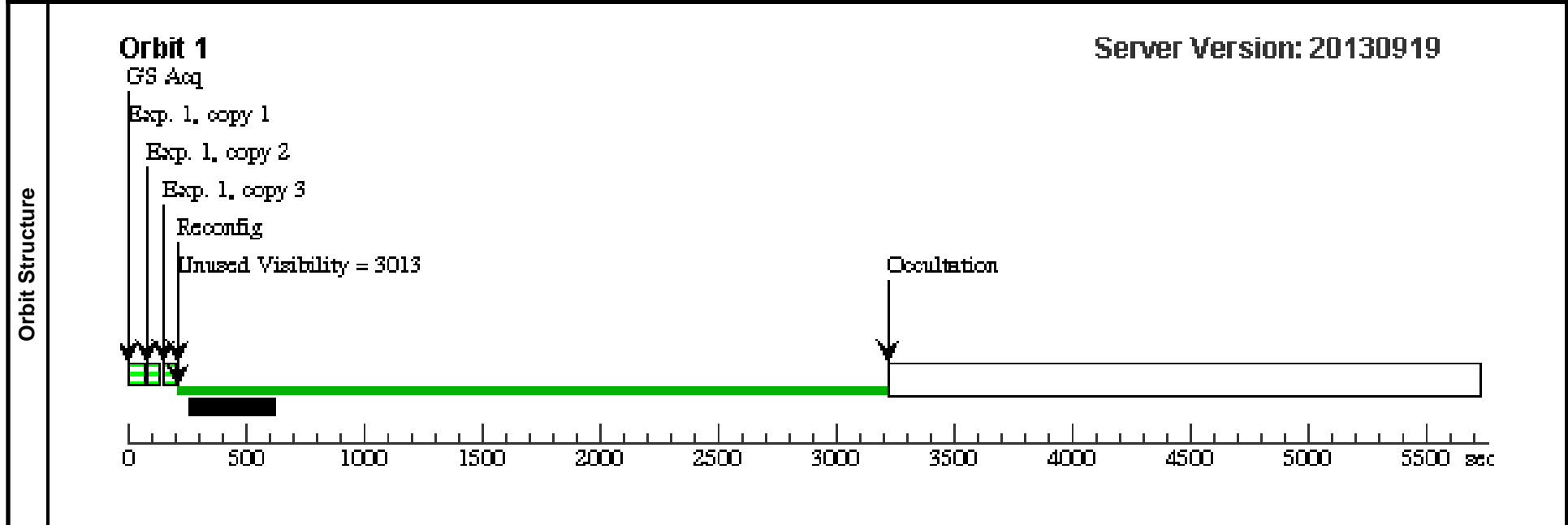


Visit	Proposal 13581, G141 (15)									
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	Scientific Instruments: WFC3/IR									
	Special Requirements: (none)									

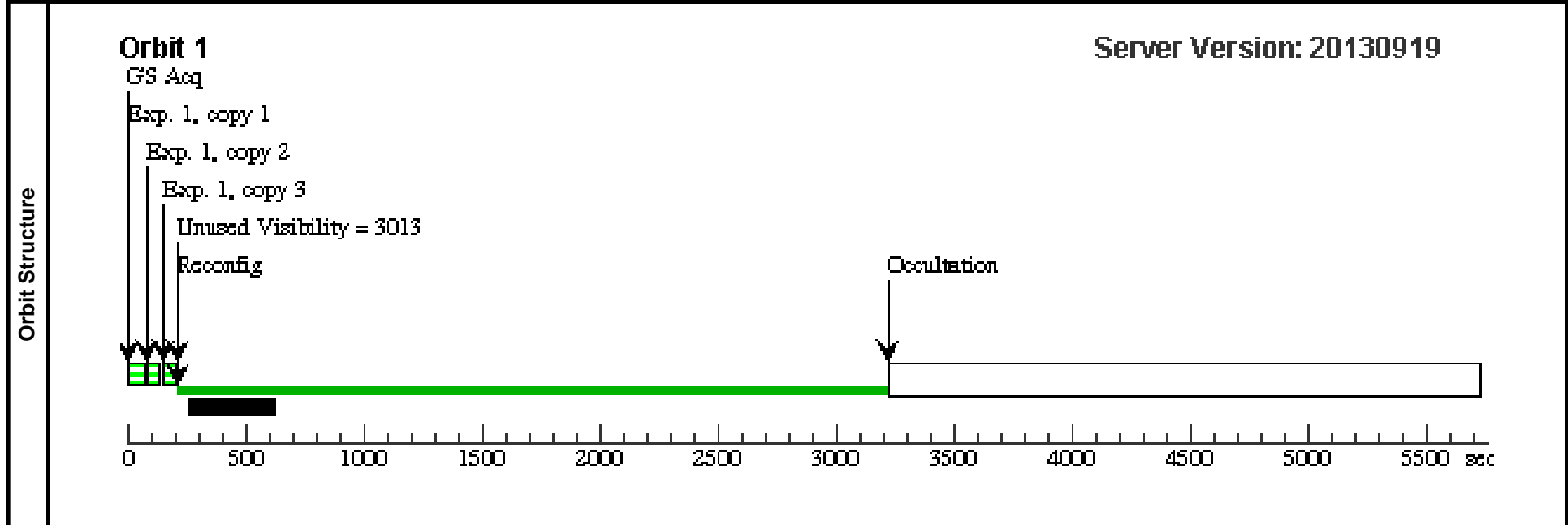
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		DARK-EARTH-CA LIB		WFC3/IR, MULTIACCUM, IR	G141	NSAMP=5; SAMP-SEQ=SPAR S10			42.936143 Secs X 3 (128.808 Secs)
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									[==>(Copy 3)]	



Visit	Proposal 13581, G141 (16) Thu Oct 31 01:37:57 GMT 2013 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
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1			DARK-EARTH-CA LIB	WFC3/IR, MULTIACCUM, IR	G141	NSAMP=5; SAMP-SEQ=SPAR S10			42.936143 Secs X 3 (128.808 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]

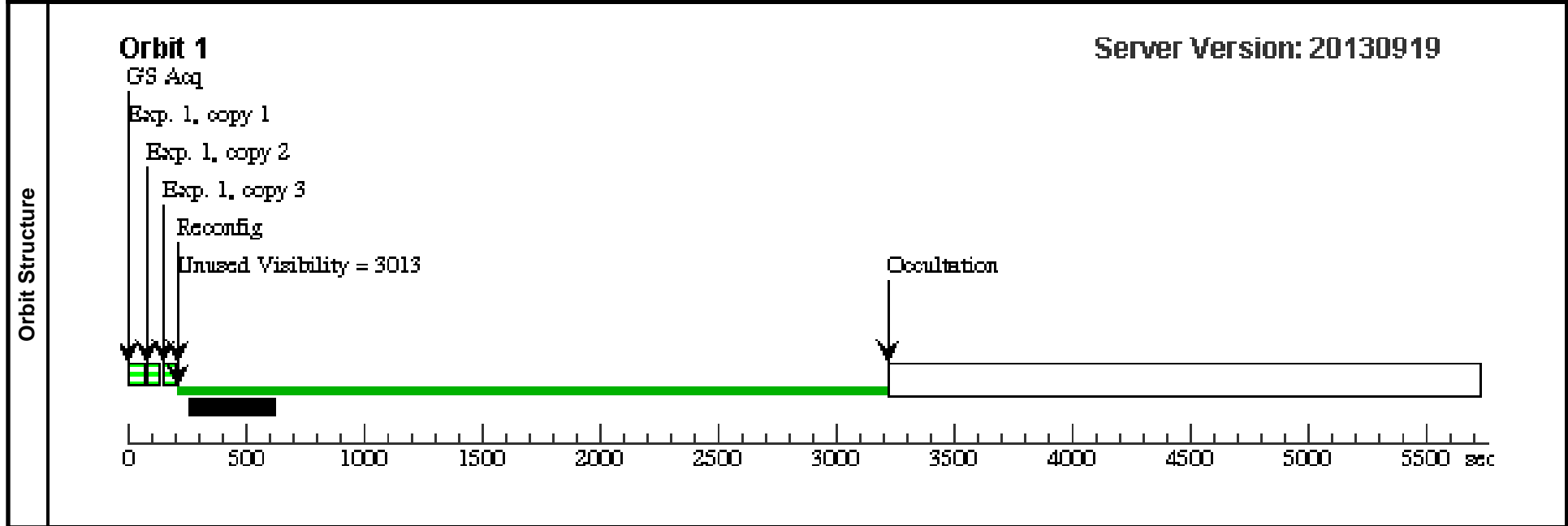


Visit	Proposal 13581, G141 (17)										
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		DARK-EARTH-CA LIB	WFC3/IR, MULTIACCUM, IR	G141	NSAMP=5; SAMP-SEQ=SPAR S10				42.936143 Secs X 3 (128.808 Secs)	[1]
									[==>(Copy 1)]		
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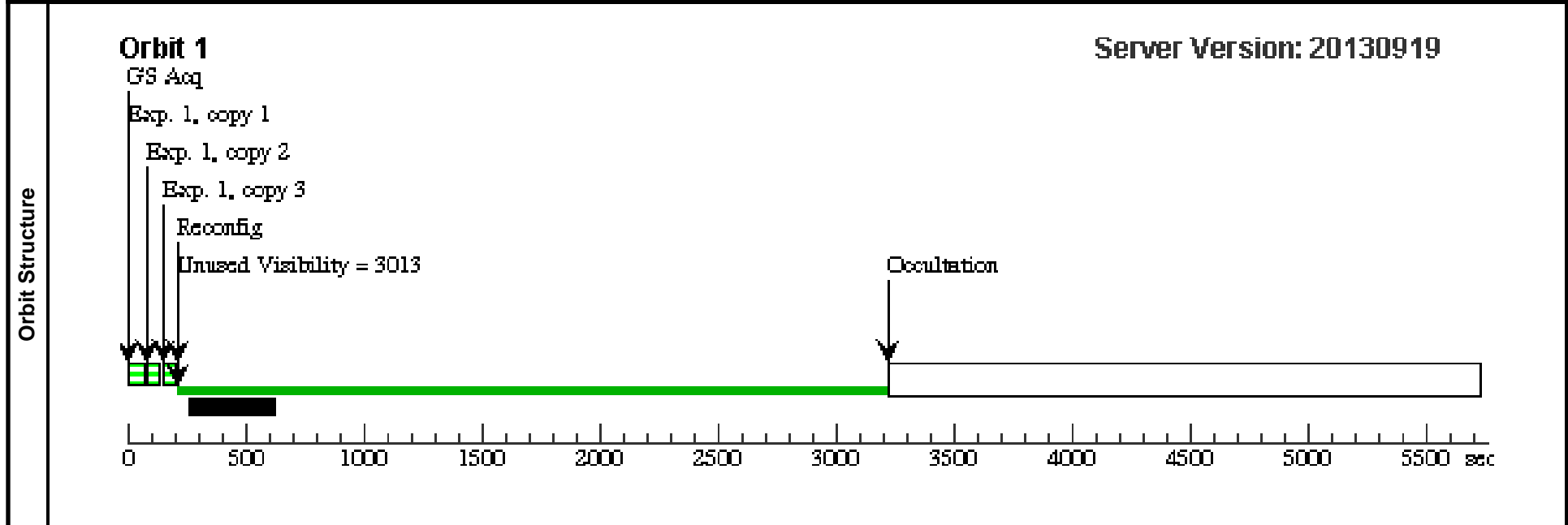


Visit	Proposal 13581, G141 (18)									
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: WFC3/IR									
	Special Requirements: (none)									

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		DARK-EARTH-CA LIB	WFC3/IR, MULTIACCUM, IR	G141	NSAMP=5; SAMP-SEQ=SPAR S10				42.936143 Secs X 3 (128.808 Secs)
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									[==>(Copy 2)]	
									[==>(Copy 3)]	



Visit	Proposal 13581, G141 (19) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		DARK-EARTH-CA LIB	WFC3/IR, MULTIACCUM, IR	G141	NSAMP=5; SAMP-SEQ=SPAR S10			42.936143 Secs X 3 (128.808 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]



Visit	Proposal 13581, G141 (20)									
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: WFC3/IR									
	Special Requirements: (none)									

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		DARK-EARTH-CA LIB		WFC3/IR, MULTIACCUM, IR	G141	NSAMP=5; SAMP-SEQ=SPAR S10			42.936143 Secs X 3 (128.808 Secs)
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									[==>(Copy 3)]	

