



15115 - Emergence of the supermassive black hole - galaxy mass relations at $z > 1$

Cycle: 25, 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) COSMOS-CID50	WFC3/IR	1	12-Nov-2018 14:00:21.0	yes
02	(2) COSMOS-CID206	WFC3/IR	1	12-Nov-2018 14:00:22.0	yes
03	(3) COSMOS-CID216	WFC3/IR	1	12-Nov-2018 14:00:23.0	yes
04	(4) COSMOS-CID237	WFC3/IR	1	12-Nov-2018 14:00:24.0	yes
05	(5) COSMOS-CID255	WFC3/IR	1	12-Nov-2018 14:00:24.0	yes
06	(6) COSMOS-CID452	WFC3/IR	1	12-Nov-2018 14:00:25.0	yes
07	(7) COSMOS-CID597	WFC3/IR	1	12-Nov-2018 14:00:26.0	yes
08	(8) COSMOS-CID607	WFC3/IR	1	12-Nov-2018 14:00:27.0	yes
09	(9) COSMOS-CID1174	WFC3/IR	1	12-Nov-2018 14:00:28.0	yes
10	(10) COSMOS-CID1281	WFC3/IR	1	12-Nov-2018 14:00:29.0	yes
11	(11) COSMOS-CID3242	WFC3/IR	1	12-Nov-2018 14:00:29.0	yes
12	(12) COSMOS-CID3570	WFC3/IR	1	12-Nov-2018 14:00:30.0	yes
13	(13) COSMOS-XID2396	WFC3/IR	1	12-Nov-2018 14:00:32.0	yes
14	(14) COSMOS-CID70	WFC3/IR	1	12-Nov-2018 14:00:32.0	yes
15	(15) COSMOS-LID1273	WFC3/IR	1	12-Nov-2018 14:00:33.0	yes
16	(16) COSMOS-XID2202	WFC3/IR	1	12-Nov-2018 14:00:34.0	yes
17	(17) COSMOS-CID454	WFC3/IR	1	12-Nov-2018 14:00:35.0	yes
18	(18) SXDS-X50	WFC3/IR	1	12-Nov-2018 14:00:36.0	yes
19	(19) COSMOS-CID543	WFC3/IR	1	12-Nov-2018 14:00:36.0	yes
20	(20) COSMOS-XID2138	WFC3/IR	1	12-Nov-2018 14:00:37.0	yes
21	(21) COSMOS-LID1538	WFC3/IR	1	12-Nov-2018 14:00:38.0	yes
22	(22) SXDS-X717	WFC3/IR	1	12-Nov-2018 14:00:39.0	yes
23	(23) SXDS-X735	WFC3/IR	1	12-Nov-2018 14:00:39.0	yes
24	(24) SXDS-X763	WFC3/IR	1	12-Nov-2018 14:00:40.0	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>
25	(25) SXDS-X969	WFC3/IR	1	12-Nov-2018 14:00:41.0	yes
26	(26) SXDS-X1136	WFC3/IR	1	12-Nov-2018 14:00:42.0	yes
27	(27) CDFS-321	WFC3/IR	1	12-Nov-2018 14:00:43.0	yes
28	(28) CDFS-1	WFC3/IR	1	12-Nov-2018 14:00:43.0	yes
29	(29) CDFS-229	WFC3/IR	1	12-Nov-2018 14:00:44.0	yes
30	(30) COSMOS-LID360	WFC3/IR	1	12-Nov-2018 14:00:45.0	yes
31	(31) ECDFS-358	WFC3/IR	1	12-Nov-2018 14:00:46.0	yes
32	(32) CDFS-724	WFC3/IR	1	12-Nov-2018 14:00:47.0	yes

32 Total Orbits Used

ABSTRACT

Our aim is to establish, in an unbiased manner, whether local fundamental relations between the mass of supermassive black holes (SMBHs) and that of their host galaxies (M_{BH} vs. L_{host} , M_{BH} vs. M_{stellar}) evolve with cosmic time. We will answer one of the outstanding key questions in astrophysics, "Are galaxies built up around the massive potential wells of mature SMBHs or does the growth pathway of galaxies precede that of their central SMBH?" Current simulations predict a strong evolution in the M_{BH} vs. L_{host} relation with SMBHs more massive by 0.5 dex at $z \sim 1.4$ as compared to $z=0$. To test this, we have constructed a uniformly-selected sample of broad-line AGN in deep survey fields with black hole mass estimates ($7.5 < \log M_{\text{BH}} < 8.5$) falling below the knee of the black hole mass function (significantly reducing biases) and derived from Balmer lines (i.e., H α), the same virial mass indicator used for calibrating local relations thus further lessening biases. We request to use HST/WFC3 to measure the total stellar mass of 36 AGN host galaxies at $1.2 < z < 1.7$ (4x current samples), in the rest-frame V/R-band using F125W and F140W filters (dependent on the target). This sample size is required to be sensitive to an offset in the mass relations of ≥ 0.23 dex to confirm (or rule out) the expected evolution. To date, no effort has been achieved with HST to measure the stellar mass of broad-line AGN hosts with black hole masses at intermediate levels and having sufficient statistics at $z > 1$. We will also measure the scatter in the mass relations at early epochs thus constraining the strength of coupling between black holes and their hosts.

OBSERVING DESCRIPTION

Proposal 15115 (STScI Edit Number: 1, Created: Monday, November 12, 2018 at 2:00:47 PM Eastern Standard Time) - Overview

We are using HST/WFC3 IR imaging to detect the host galaxies of 32 Active Galactic Nuclei ($1.2 < z < 1.7$), already identified by their broad H α emission lines through ground-based NIR spectroscopy, in key survey fields (COSMOS, E-CDF-S and SXDS). The F125W ($1.2 < z < 1.44$) and F140W ($1.44 < z < 1.7$) filters are implemented, while specifically chosen based on the redshift of each target as indicated in parenthesis, to measure the total stellar mass of the underlying host galaxy by sampling the spectral energy distribution above 4000 Angstroms. We further ensure that the broad H α line is not present in the bandpass since its presence can contaminate stellar mass estimates due to the broad wings of the PSF.

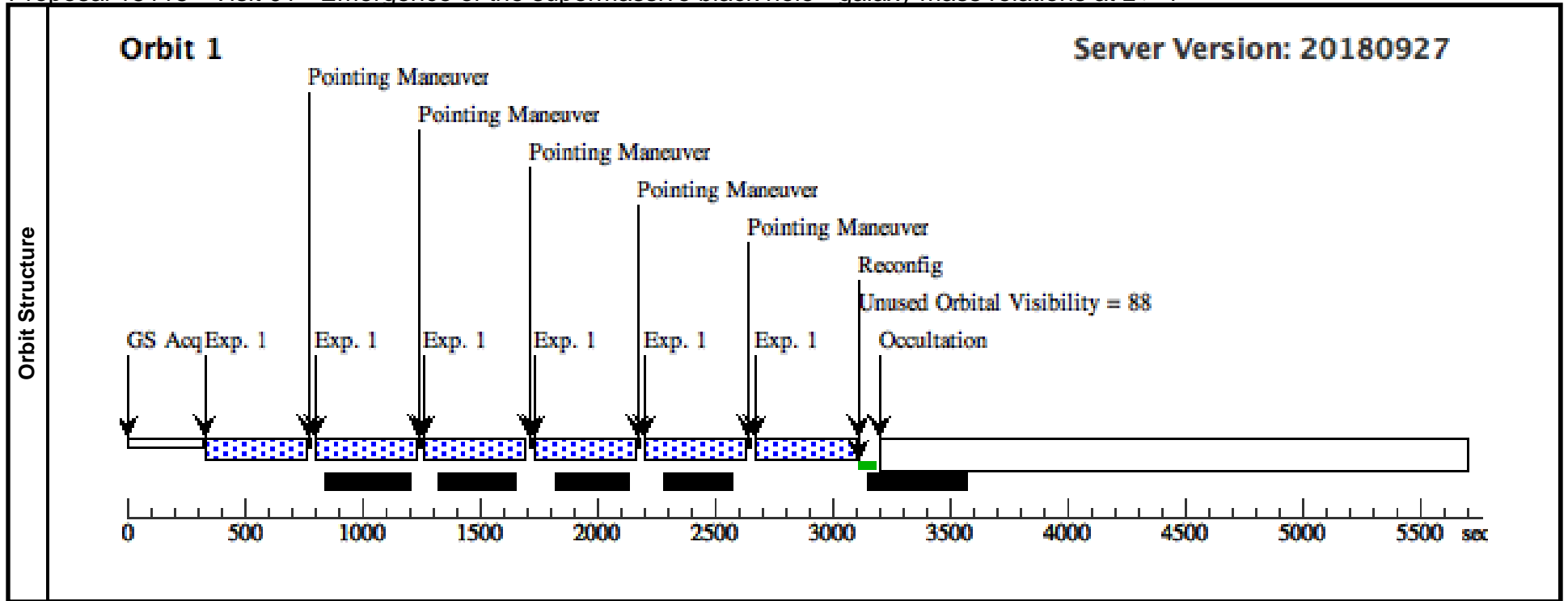
The detection of the host galaxy requires accurate characterization and modeling of the point spread function to decompose the total NIR emission into that of an unresolved central AGN and the extended host galaxy that is expected to dominate the total emission beyond 0.3" based on an analysis of a representative AGN that falls within the CANDELS (WFC3) footprint. For all 32 targets, we have set a fixed position (geometric center; Aperture: IR-FIX) of WFC3 to include the target of interest and a sufficient number of stars ($\sim 4 - 5$) used to constrain the modeling of the PSF. As a result, the center pointing of WFC3 does not correspond to the target position but offset by an amount less than 80". To improve the sampling of the PFS for each target, we choose to have a dither pattern (WFC3-IR-DITHER-BLOB) with six different positions separated by the default 5.18".

A single orbit of exposure per target is sufficient to detect the host galaxy at a significance level of 5sigma with either the F125W and F140W bands for all 32 AGNs. This estimate is based on a determination of the expected nuclear-to-host ratio (found to typically range from 0.3-7) of the IR emission using the existing HST/F814W (Scoville et al. 2007) and ground-based IR (McCracken et al. 2012) imaging in COSMOS.

Proposal 15115 - Visit 01 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

Mon Nov 12 19:00:47 GMT 2018

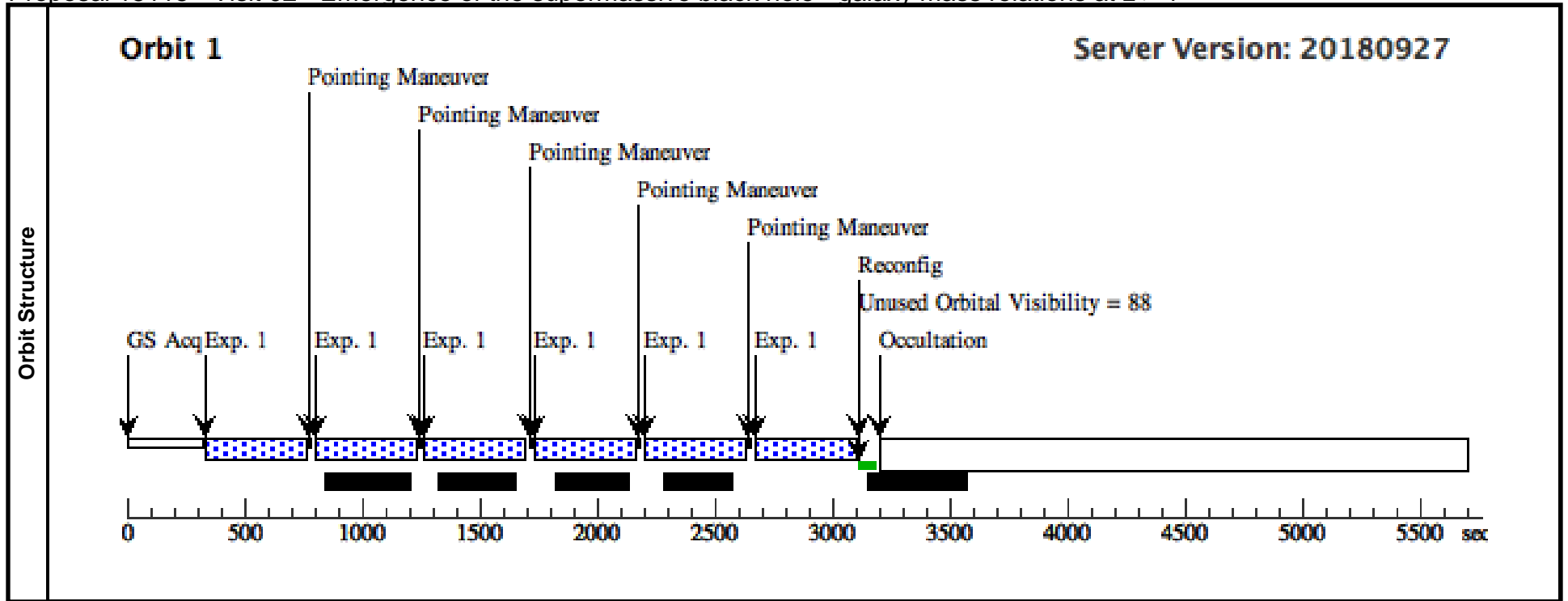
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	(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	COSMOS-CID50	RA: 10 00 47.6000 (150.1983333d) Dec: +02 04 42.20 (2.07839d) Equinox: J2000		V=(?) 18.9	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) COSMOS-CID50	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=STEP50;		Pattern 1, Exps 1-1 in Visit 01 (1)	399.233383 Secs (2395.4 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)]	[1]



Proposal 15115 - Visit 02 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

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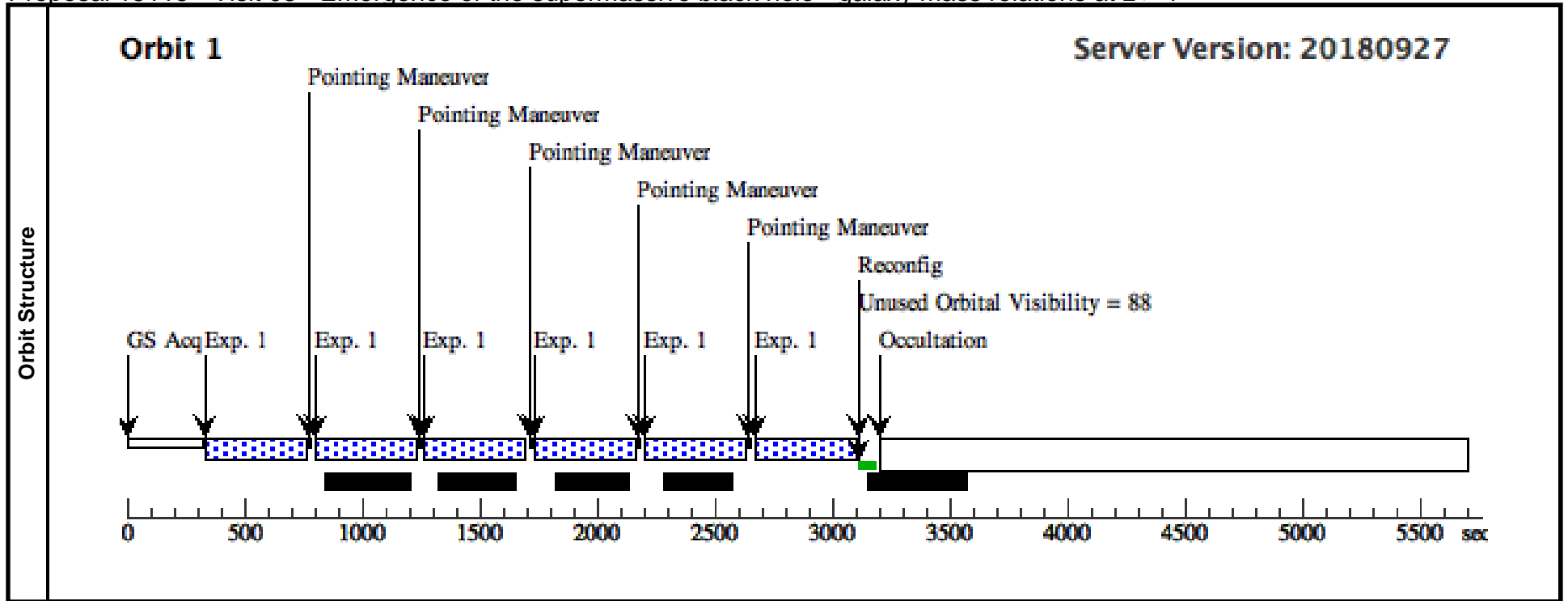
Visit	Proposal 15115, Visit 02, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)										
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures		
		(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true							(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous				
	(2)	COSMOS-CID206	RA: 09 59 22.1400 (149.8422500d) Dec: +02 00 9.10 (2.00253d) Equinox: J2000			V=(?) 20.4	Reference Frame: ICRS				
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(2) COSMOS-CID206	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=STEP50;			Pattern 1, Exps 1-1 in Visit 02 (1)	399.233383 Secs (2395.4 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]	[1]



Proposal 15115 - Visit 03 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

Mon Nov 12 19:00:48 GMT 2018

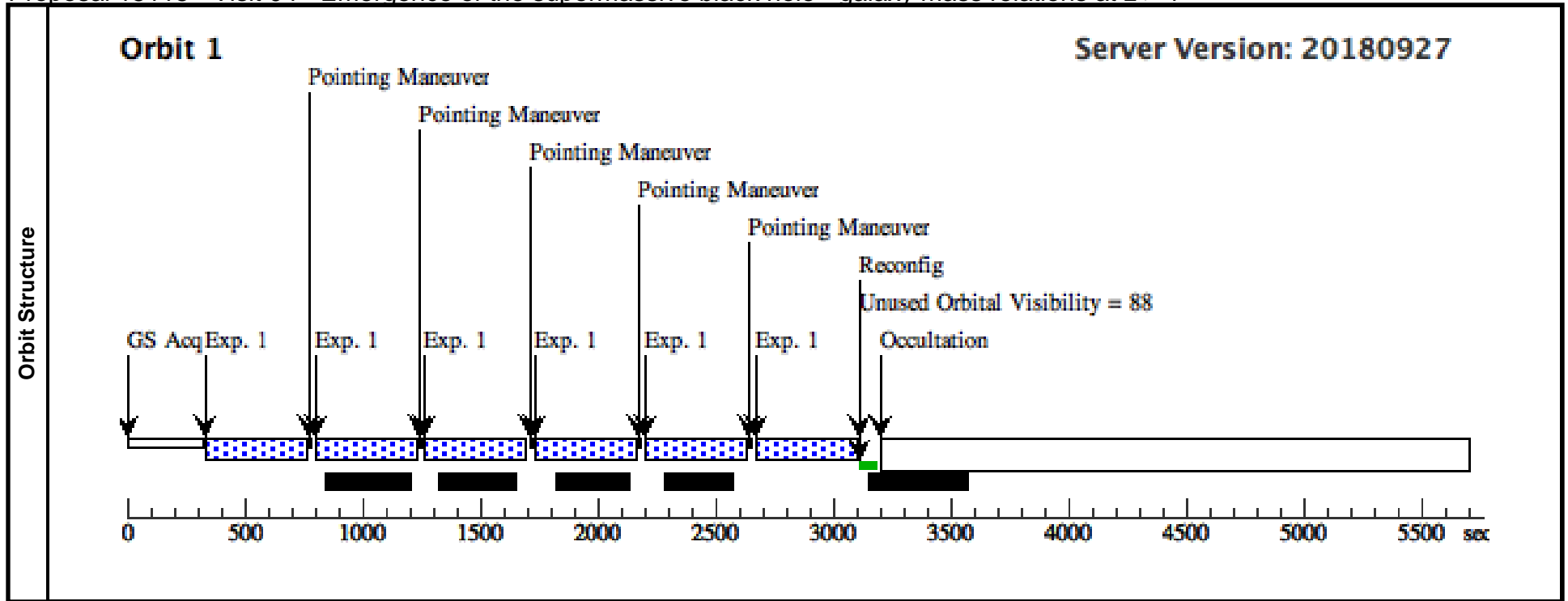
Visit	Proposal 15115, Visit 03, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	COSMOS-CID216	RA: 09 59 9.7800 (149.7907500d) Dec: +01 52 47.60 (1.87989d) Equinox: J2000		V=(?) 20.9	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) COSMOS-CID216	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=STEP50;			Pattern 1, Exps 1-1 in Visit 03 (1)	399.233383 Secs (2395.4 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)]



Proposal 15115 - Visit 04 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

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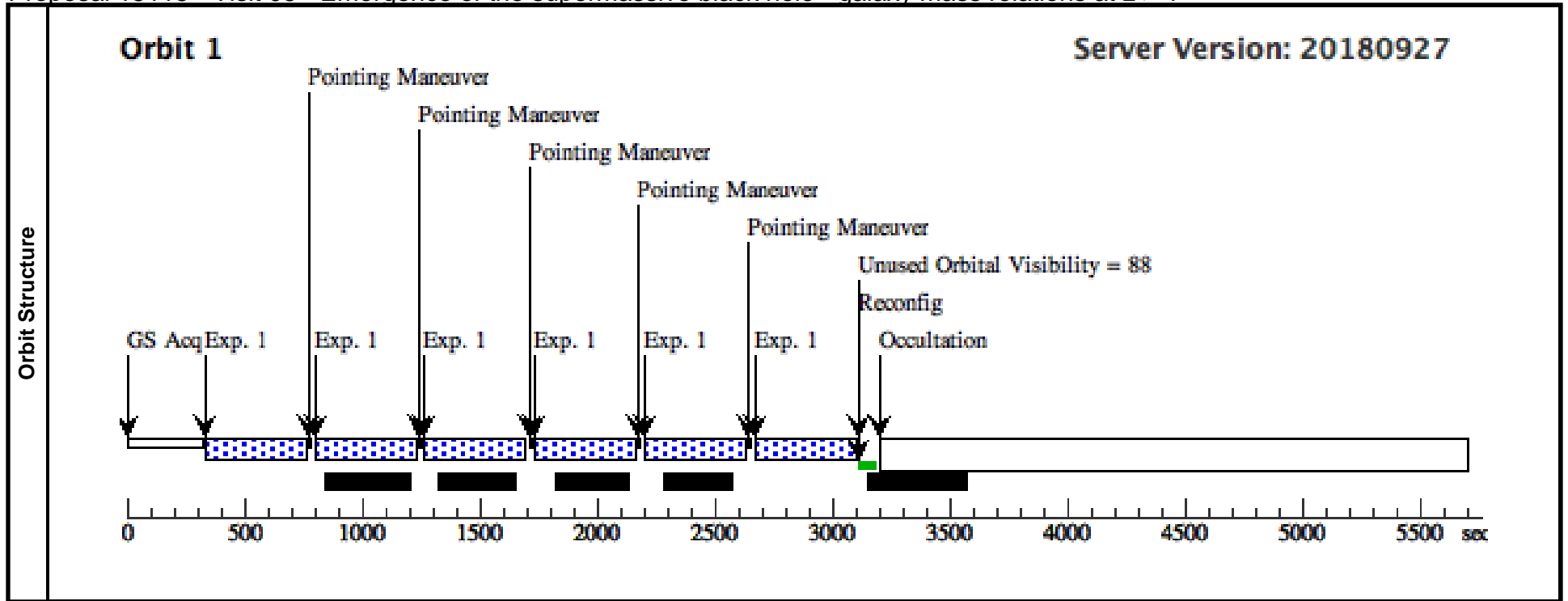
Visit	Proposal 15115, Visit 04, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
Patterns	#	Primary Pattern				Secondary Pattern				Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true						(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(4)	COSMOS-CID237	RA: 09 59 59.9000 (149.9995833d) Dec: +01 43 50.10 (1.73058d) Equinox: J2000			V=(?) 19.9	Reference Frame: ICRS			
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(4) COSMOS-CID237	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=STEP50;		Pattern 1, Exps 1-1 in Visit 04 (1)	399.233383 Secs (2395.4 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)]	[1]



Proposal 15115 - Visit 05 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

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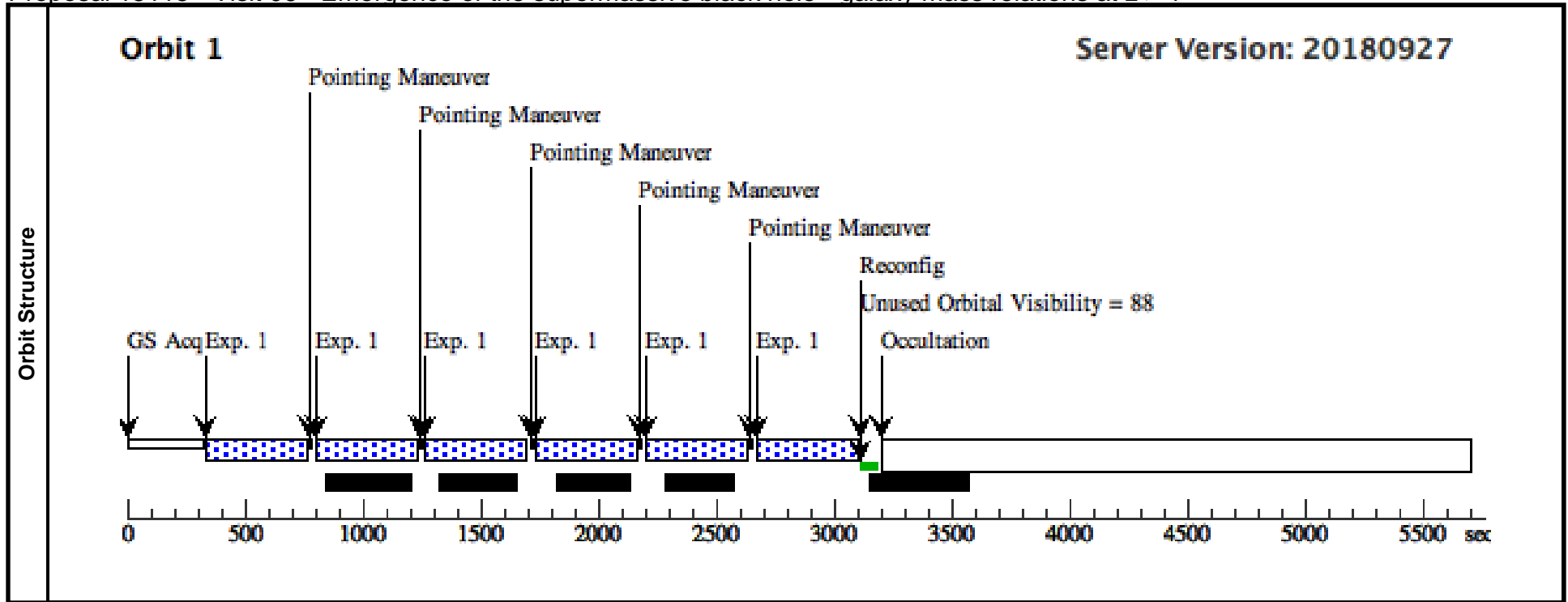
Visit	Proposal 15115, Visit 05, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	COSMOS-CID255	RA: 10 00 23.6000 (150.0983333d) Dec: +01 50 26.30 (1.84064d) Equinox: J2000		V=(?) 19.2	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(5) COSMOS-CID255	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=STEP50;	GS ACQ SCENARIO BASE1B3	Pattern 1, Exps 1-1 in Visit 05 (1)	399.233383 Secs (2395.4 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]	[1]



Proposal 15115 - Visit 06 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

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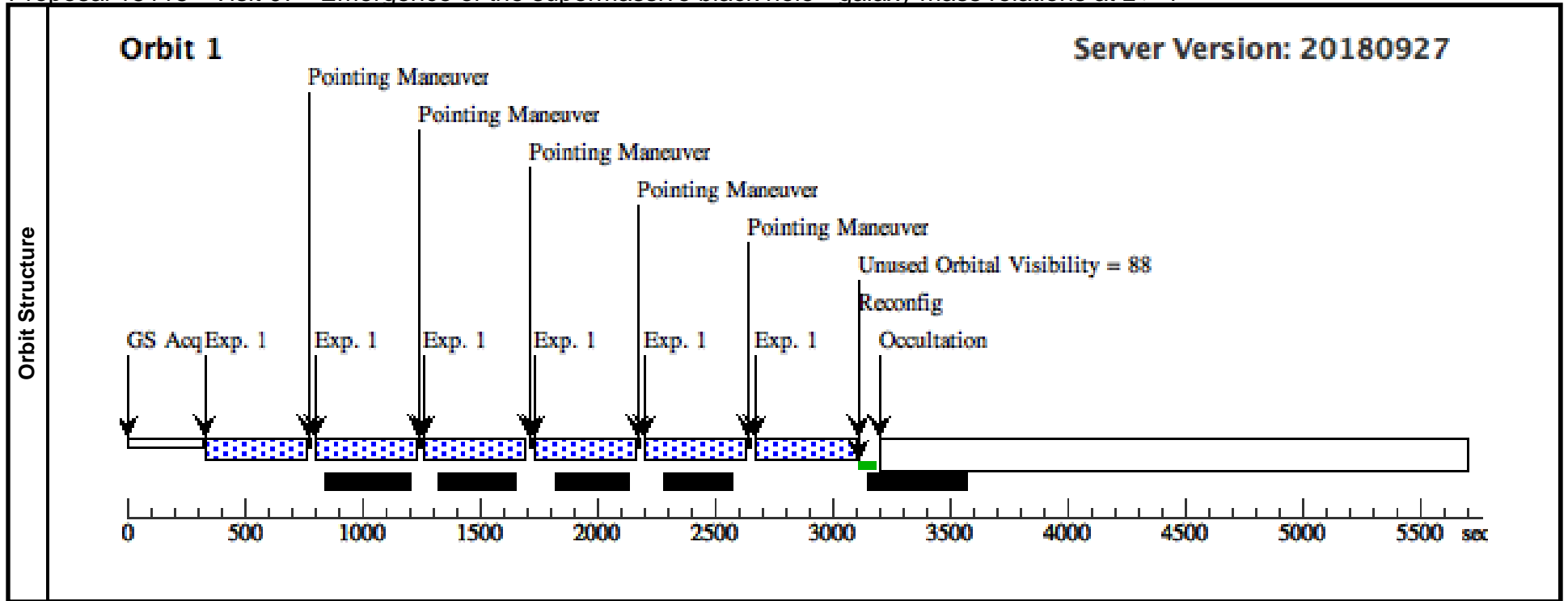
Visit	Proposal 15115, Visit 06, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)										
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true						(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(6)	COSMOS-CID452	RA: 09 59 58.6800 (149.9945000d) Dec: +02 14 35.20 (2.24311d) Equinox: J2000				V=(?) 20.6		Reference Frame: ICRS		
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(6) COSMOS-CID452	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=STEP50;		Pattern 1, Exps 1-1 in Visit 06 (1)	399.233383 Secs (2395.4 Secs)		
			2			NSAMP=13			[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]		[1]



Proposal 15115 - Visit 07 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

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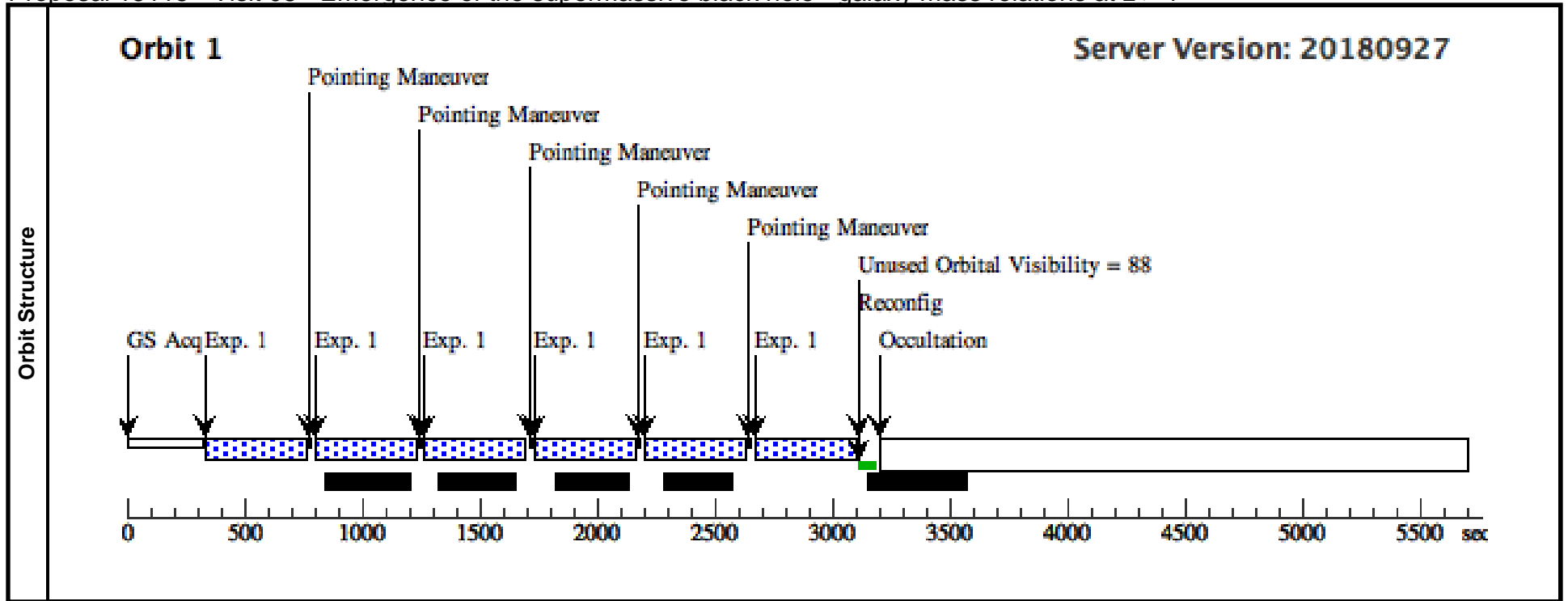
Visit	Proposal 15115, Visit 07, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)										
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures		
		(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true							(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous				
	(7)	COSMOS-CID597	RA: 10 02 5.5900 (150.5232917d) Dec: +02 14 42.00 (2.24500d) Equinox: J2000			V=(?) 20.6	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(7) COSMOS-CID597	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=STEP50;			Pattern 1, Exps 1-1 in Visit 07 (1)	399.233383 Secs (2395.4 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)]	[1]



Proposal 15115 - Visit 08 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

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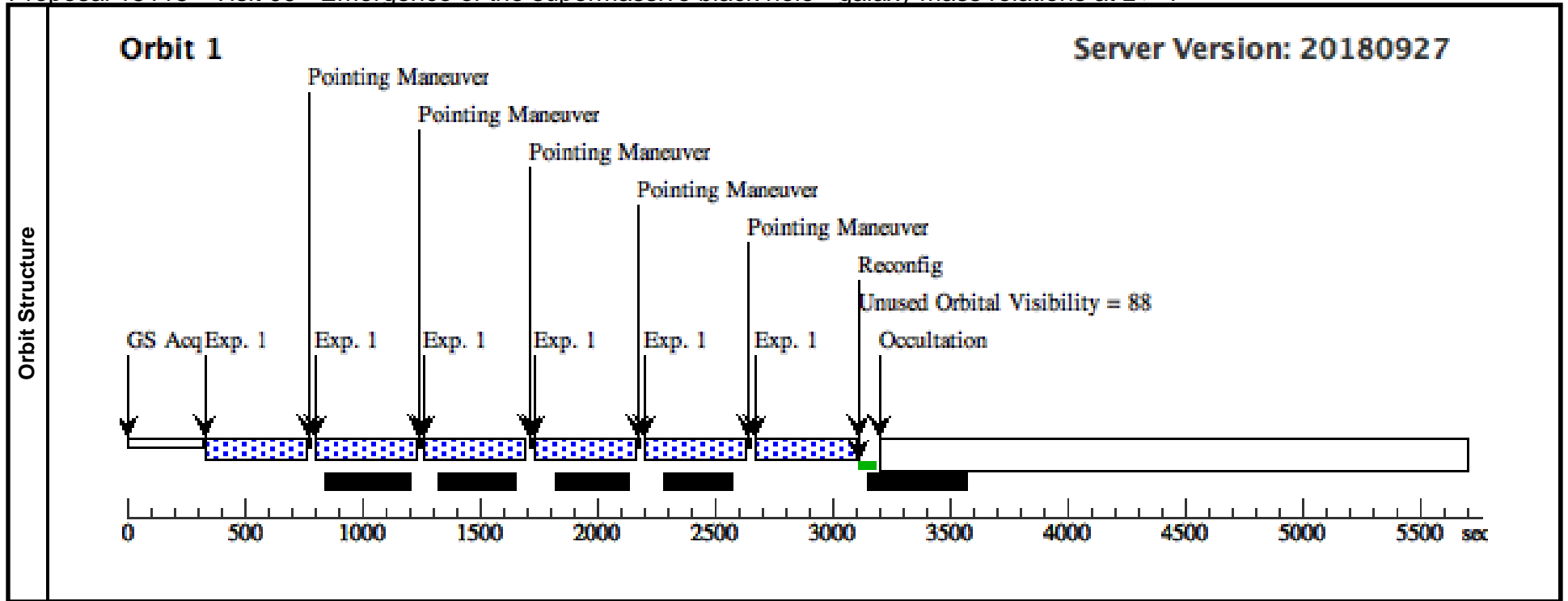
Visit	Proposal 15115, Visit 08, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	COSMOS-CID607	RA: 10 02 28.3100 (150.6179583d) Dec: +02 19 12.00 (2.32000d) Equinox: J2000		V=(?) 20.2	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(8) COSMOS-CID607	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=STEP50;		Pattern 1, Exps 1-1 in Visit 08 (1)	399.233383 Secs (2395.4 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)]	[1]
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Proposal 15115 - Visit 09 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

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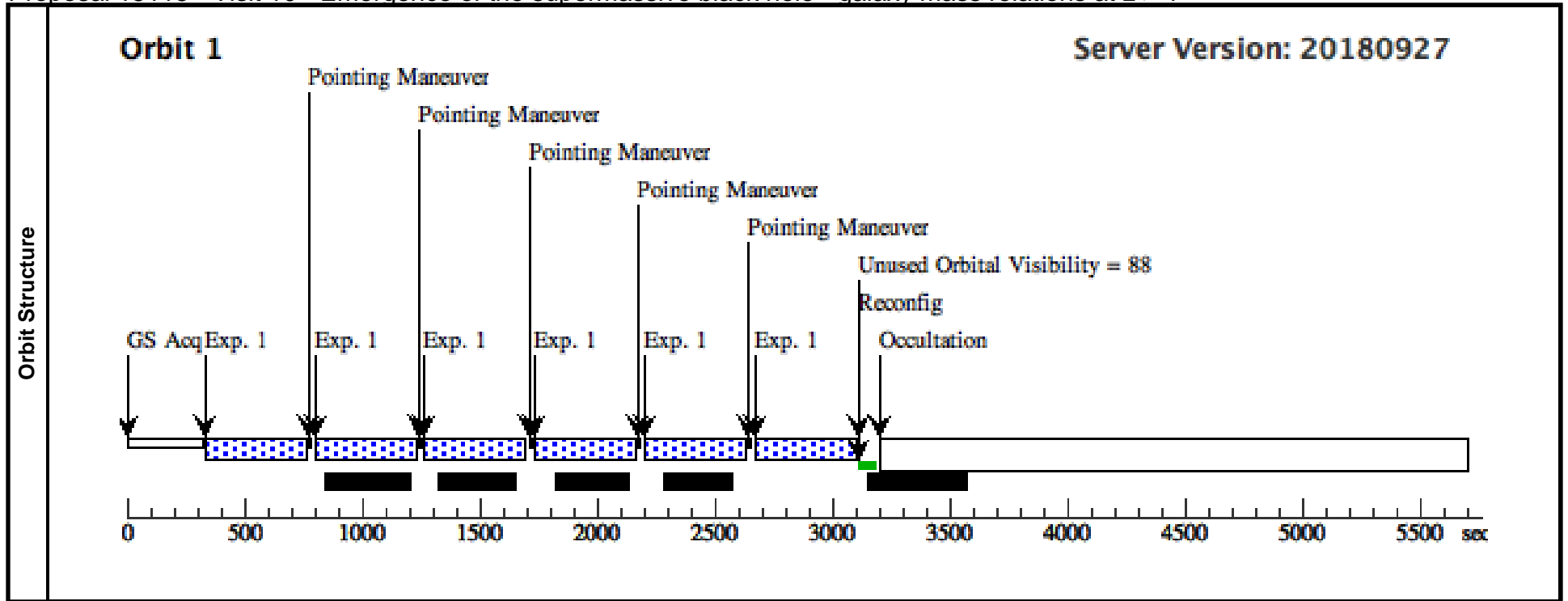
Visit	Proposal 15115, Visit 09, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
Patterns	#	Primary Pattern				Secondary Pattern				Exposures
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	COSMOS-CID1174	RA: 10 01 8.1600 (150.2840000d) Dec: +01 57 13.12 (1.95364d) Equinox: J2000		V=(?) 20.2	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(9) COSMOS-CID1174	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=STEP50;		Pattern 1, Exps 1-1 in Visit 09 (1)	399.233383 Secs (2395.4 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)]	[1]
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Proposal 15115 - Visit 10 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

Mon Nov 12 19:00:48 GMT 2018

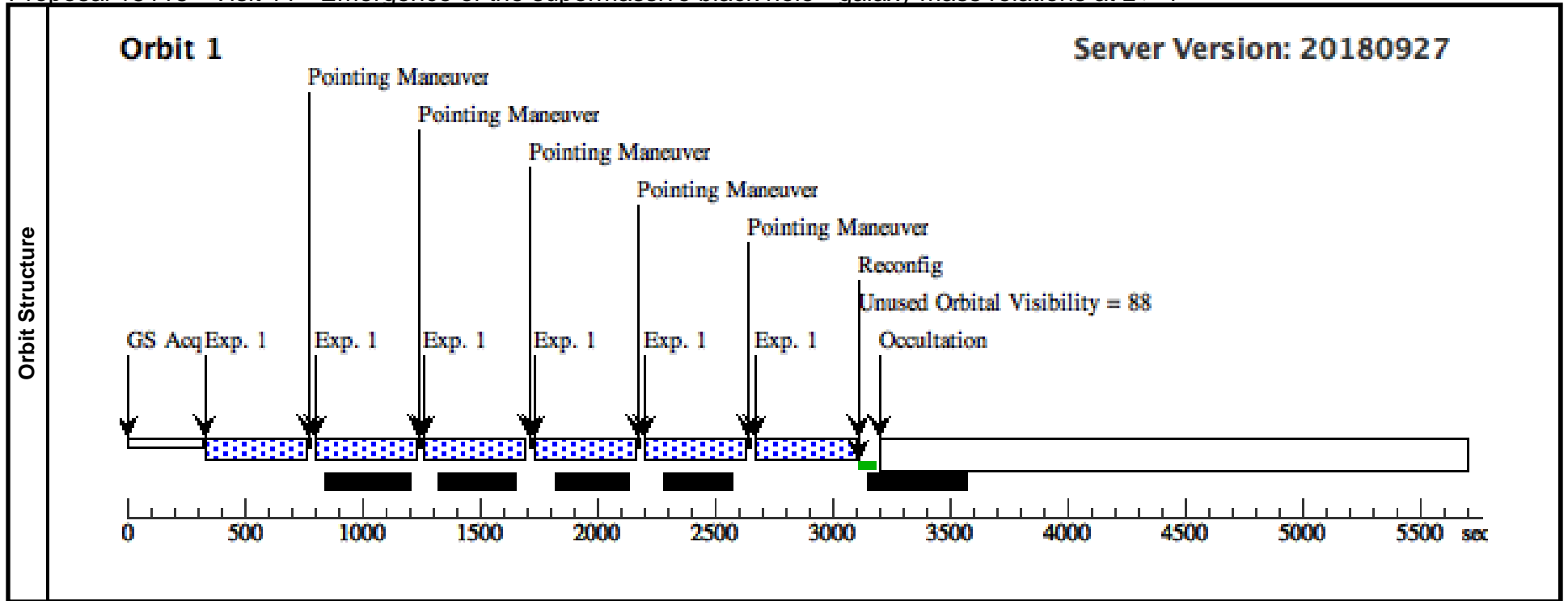
Visit	Proposal 15115, Visit 10, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	COSMOS-CID1281	RA: 10 01 39.4300 (150.4142917d) Dec: +02 31 51.50 (2.53097d) Equinox: J2000		V=(?) 21.8	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(10) COSMOS-CID1281	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=STEP50;			Pattern 1, Exps 1-1 in Visit 10 (1)	399.233383 Secs (2395.4 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)]



Proposal 15115 - Visit 11 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

Mon Nov 12 19:00:48 GMT 2018

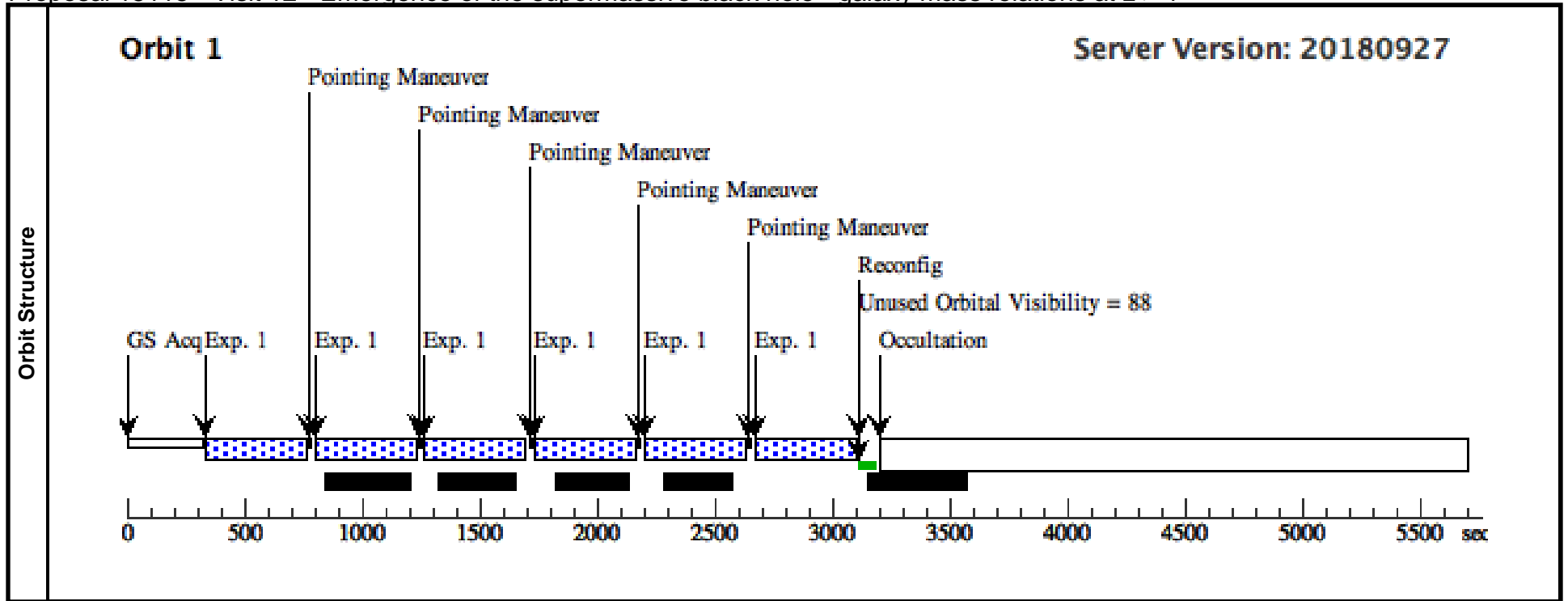
Visit	Proposal 15115, Visit 11, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(11)	COSMOS-CID3242	RA: 09 58 48.5400 (149.7022500d) Dec: +02 08 26.60 (2.14072d) Equinox: J2000		V=(?) 19.5	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(11) COSMOS-CID3242	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=STEP50;	NSAMP=13	Pattern 1, Exps 1-1 in Visit 11 (1)	399.233383 Secs (2395.4 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)]	[1]



Proposal 15115 - Visit 12 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

Mon Nov 12 19:00:48 GMT 2018

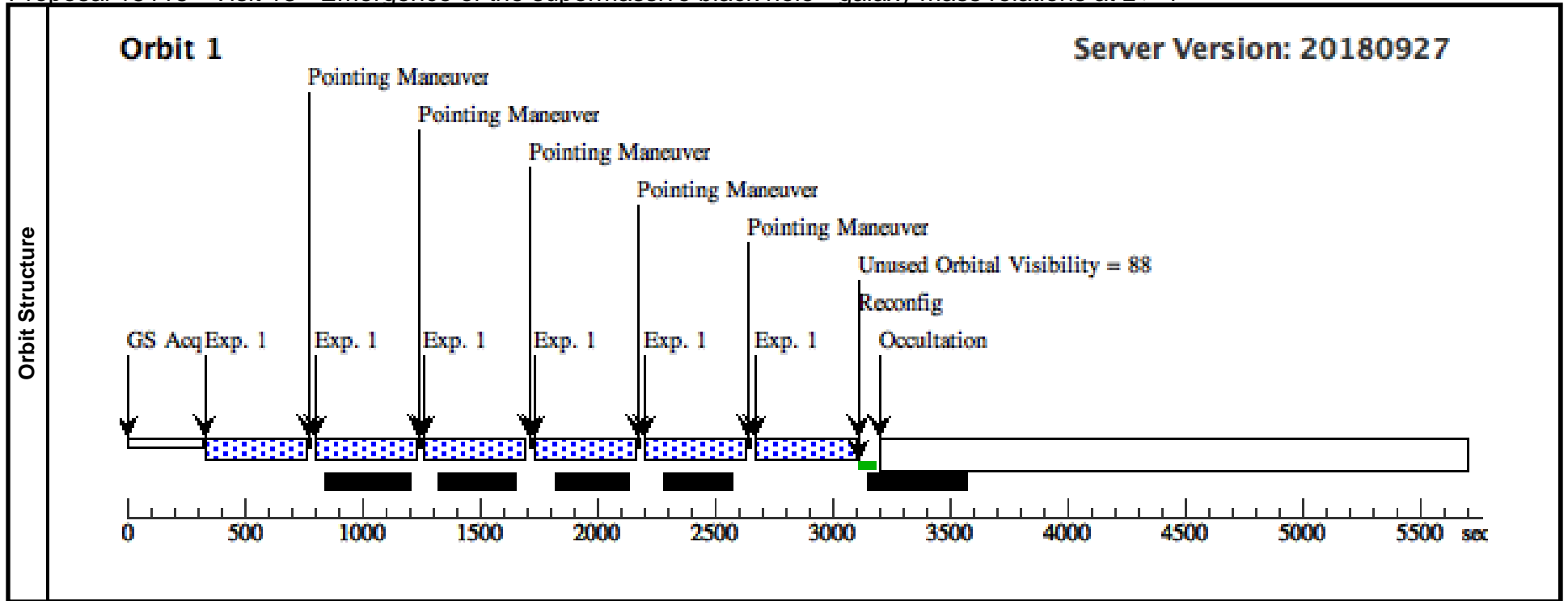
Visit	Proposal 15115, Visit 12, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)										
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures		
		(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true							(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous				
	(12)	COSMOS-CID3570	RA: 09 58 34.5600 (149.6440000d) Dec: +02 06 42.10 (2.11169d) Equinox: J2000			V=(?) 20.8	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(12) COSMOS-CID3570	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=STEP50;			Pattern 1, Exps 1-1 in Visit 12 (1)	399.233383 Secs (2395.4 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)]	[1]



Proposal 15115 - Visit 13 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

Mon Nov 12 19:00:48 GMT 2018

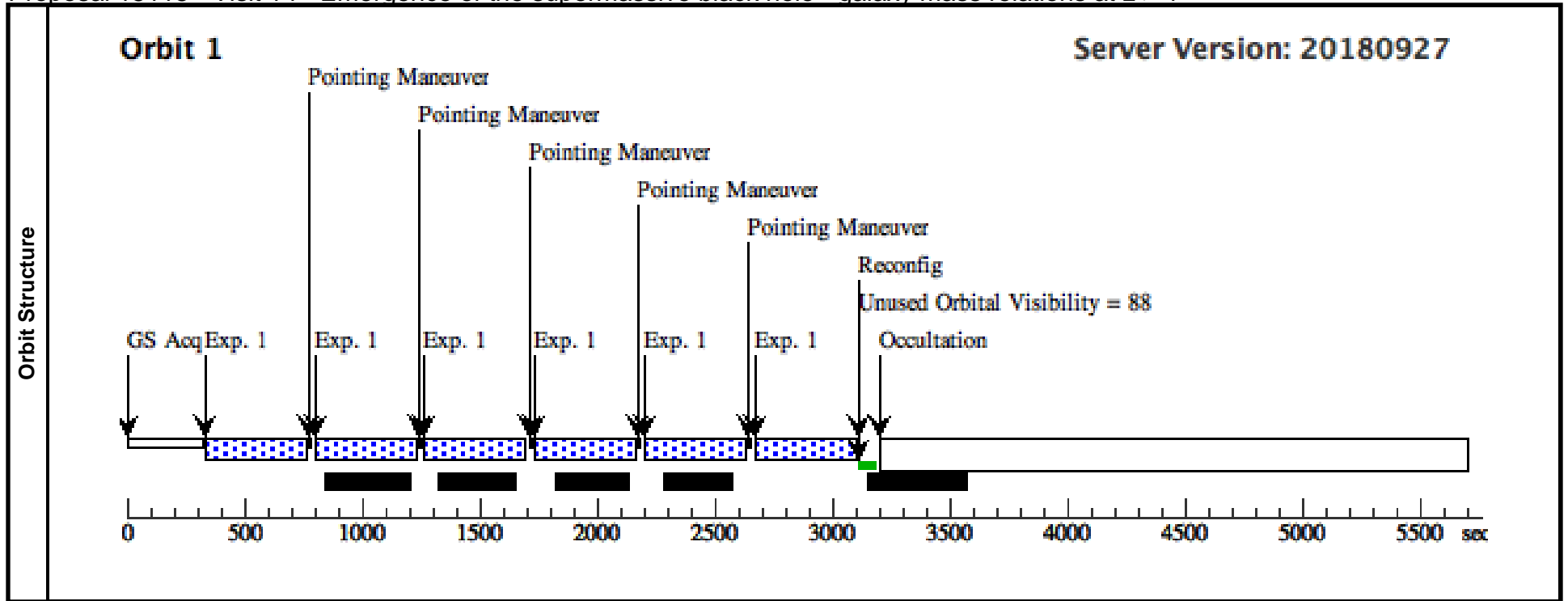
Visit	Proposal 15115, Visit 13, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(13)	COSMOS-XID2396	RA: 09 57 56.3700 (149.4848750d) Dec: +02 38 46.70 (2.64631d) Equinox: J2000		V=(?) 19.0	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(13) COSMOS-XID 2396	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=STEP50;			Pattern 1, Exps 1-1 in Visit 13 (1)	399.233383 Secs (2395.4 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)]



Proposal 15115 - Visit 14 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

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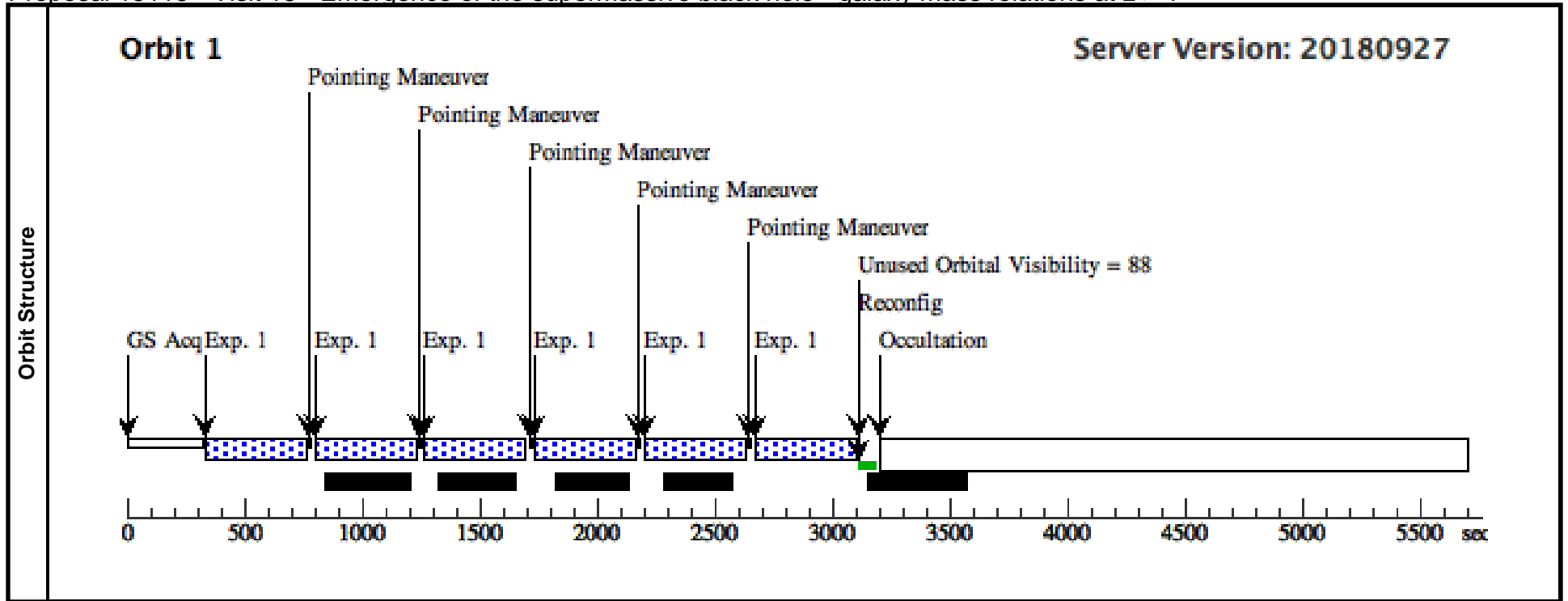
Visit	Proposal 15115, Visit 14, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(14)	COSMOS-CID70	RA: 10 01 35.2800 (150.3970000d) Dec: +02 15 57.50 (2.26597d) Equinox: J2000		V=(?) 19.8	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(14) COSMOS-CID70	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=STEP50;		Pattern 1, Exps 1-1 in Visit 14 (1)	399.233383 Secs (2395.4 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]	[1]



Proposal 15115 - Visit 15 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

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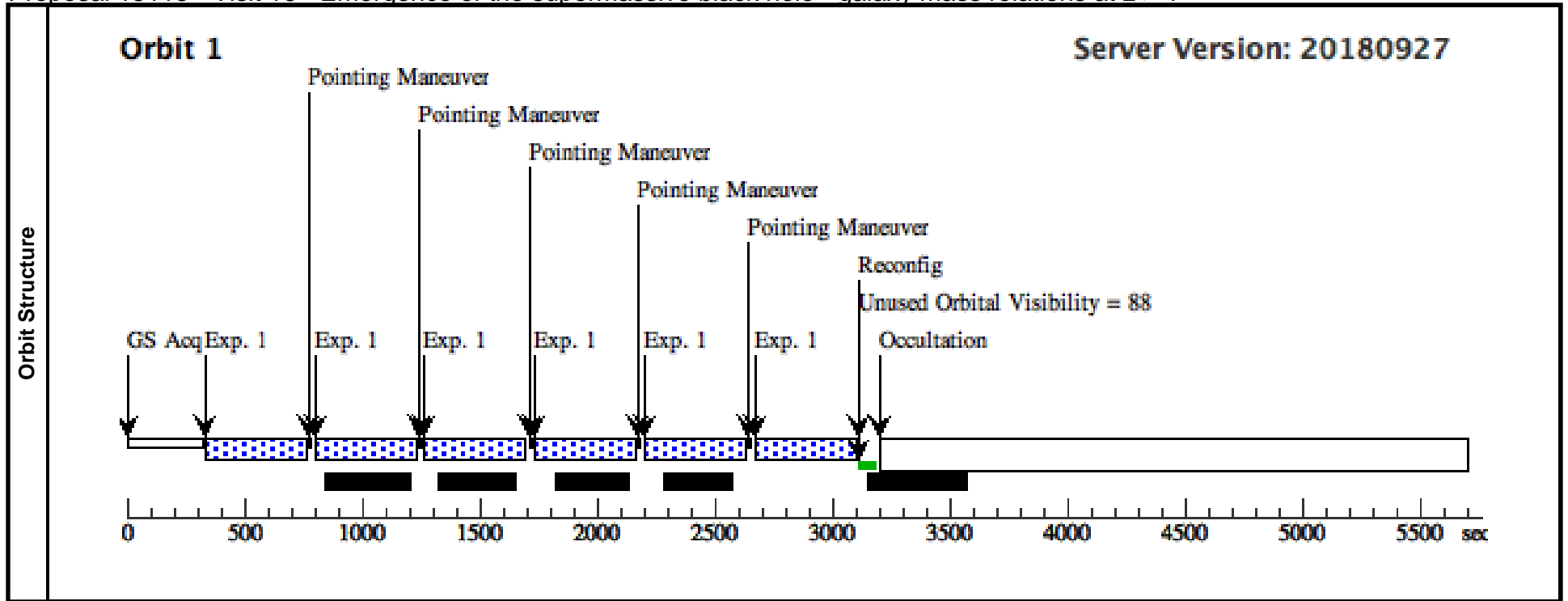
Visit	Proposal 15115, Visit 15, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)										
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures		
		(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true							(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous				
	(15)	COSMOS-LID1273	RA: 10 00 13.5500 (150.0564583d) Dec: +01 37 48.70 (1.63019d) Equinox: J2000			V=(?) 19.7	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(15) COSMOS-LID1273	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=STEP50;	NSAMP=13		Pattern 1, Exps 1-1 in Visit 15 (1)	399.233383 Secs (2395.4 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)]	[1]



Proposal 15115 - Visit 16 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

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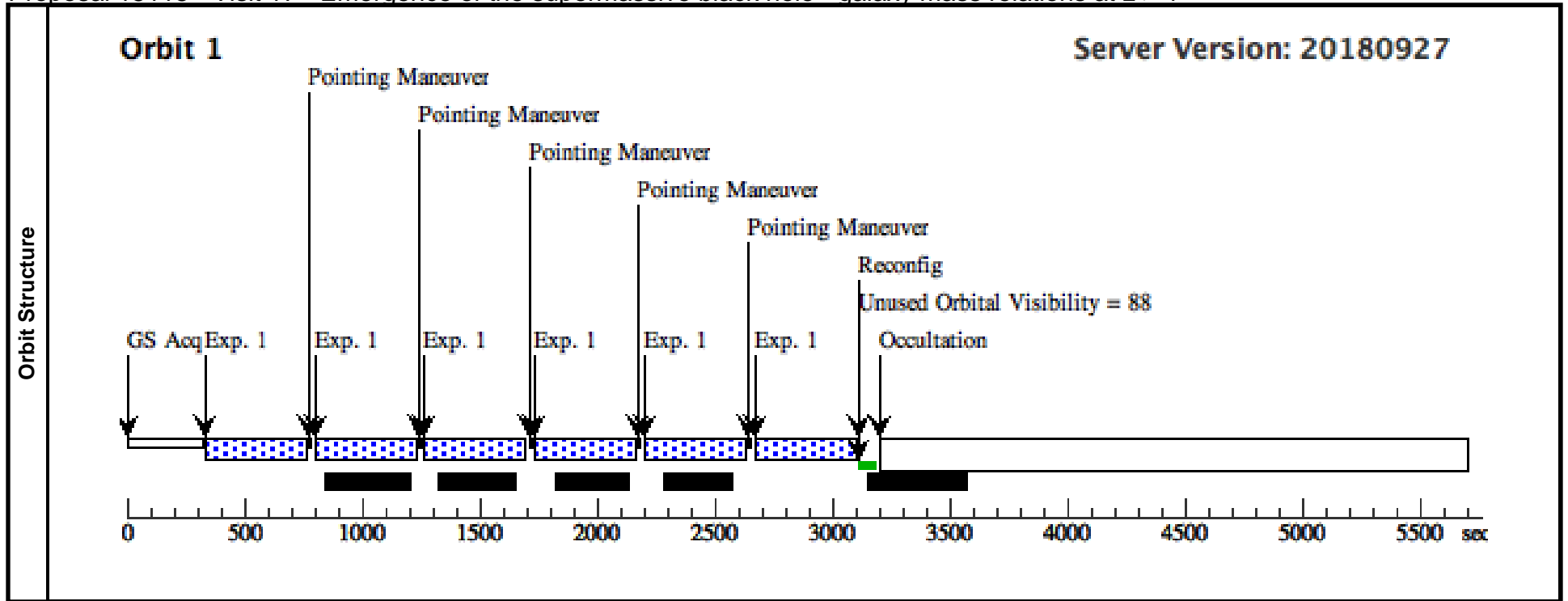
Visit	Proposal 15115, Visit 16, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
Patterns	#	Primary Pattern				Secondary Pattern				Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true						(1)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(16)	COSMOS-XID2202	RA: 10 02 34.9000 (150.6454167d) Dec: +01 59 29.40 (1.99150d) Equinox: J2000		V=(?) 19.6	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(16) COSMOS-XID 2202	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=STEP50;		Pattern 1, Exps 1-1 in Visit 16 (1)	399.233383 Secs (2395.4 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]	[1]



Proposal 15115 - Visit 17 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

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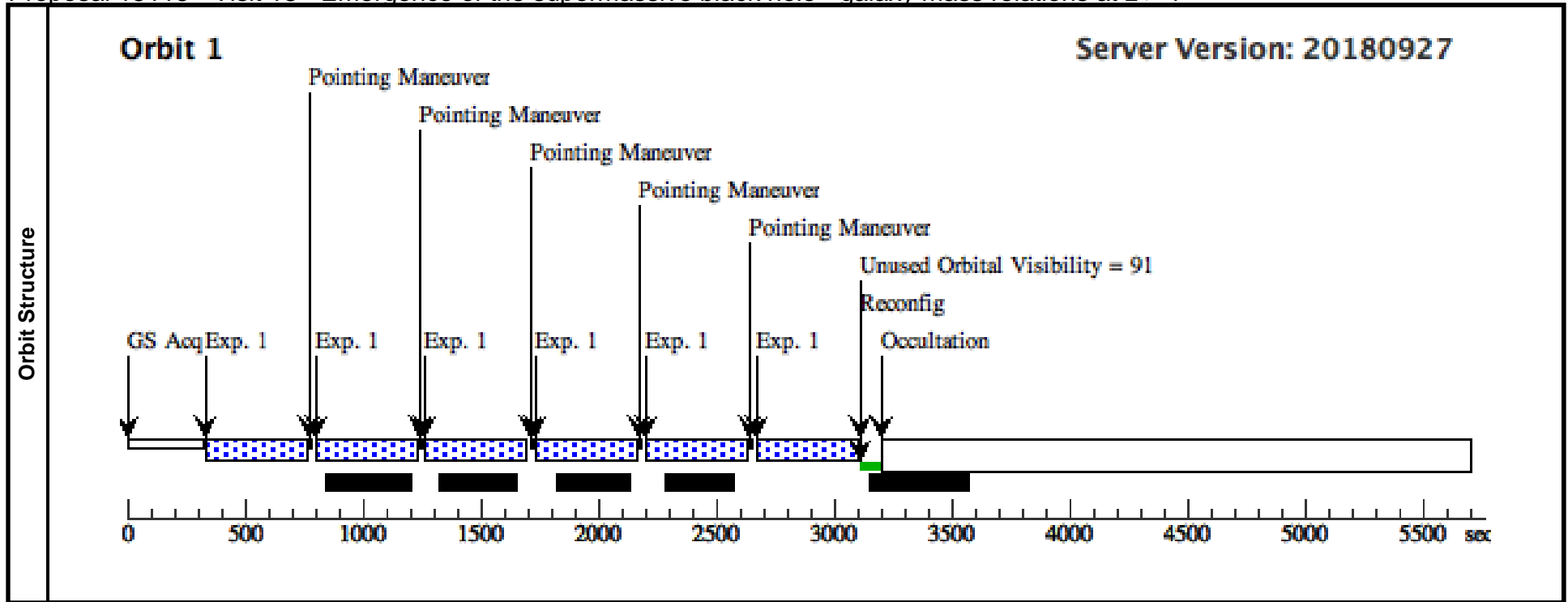
Visit	Proposal 15115, Visit 17, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(17)	COSMOS-CID454	RA: 09 59 26.4800 (149.8603333d) Dec: +02 19 33.40 (2.32594d) Equinox: J2000		V=(?) 19.9	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(17) COSMOS-CID454	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=STEP50;		Pattern 1, Exps 1-1 in Visit 17 (1)	399.233383 Secs (2395.4 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)]	[1]



Proposal 15115 - Visit 18 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

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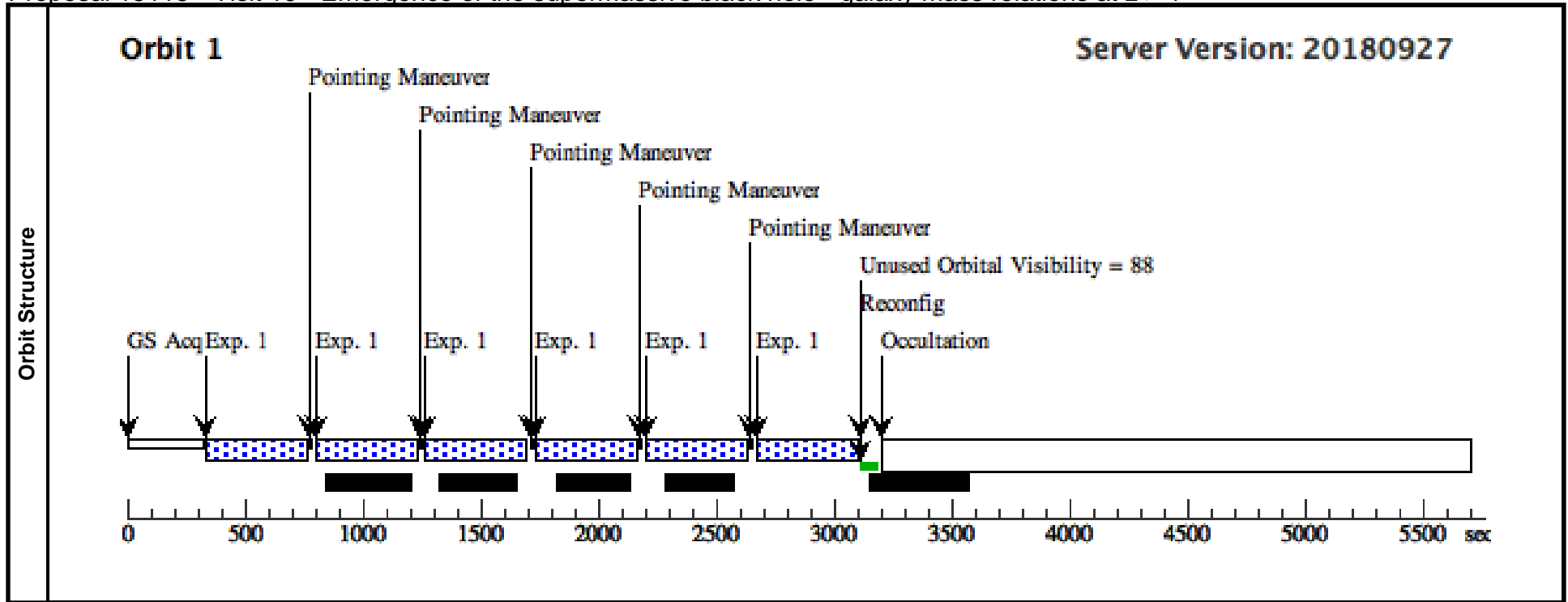
Visit	Proposal 15115, Visit 18, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)										
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures		
		(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true							(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous				
	(18)	SXDS-X50	RA: 02 16 8.2700 (34.0344583d) Dec: -05 03 20.80 (-5.05578d) Equinox: J2000			V=(?) 20.8	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(18) SXDS-X50	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=STEP50;	NSAMP=13		Pattern 1, Exps 1-1 in Visit 18 (1)	399.233383 Secs (2395.4 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)]	[1]



Proposal 15115 - Visit 19 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

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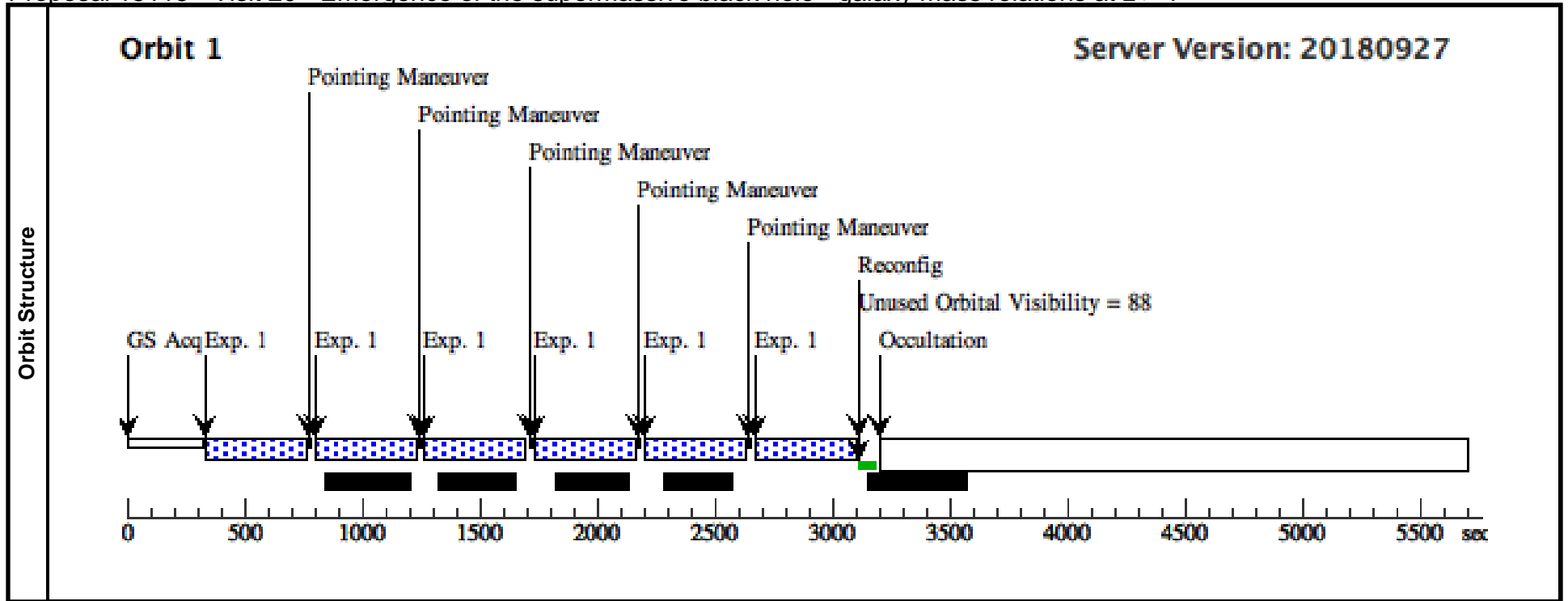
Visit	Proposal 15115, Visit 19, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(19)	COSMOS-CID543	RA: 10 01 50.1200 (150.4588333d) Dec: +02 08 35.90 (2.14331d) Equinox: J2000		V=(?) 20.4	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(19) COSMOS-CID543	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=STEP50;		Pattern 1, Exps 1-1 in Visit 19 (1)	399.233383 Secs (2395.4 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)]	[1]



Proposal 15115 - Visit 20 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

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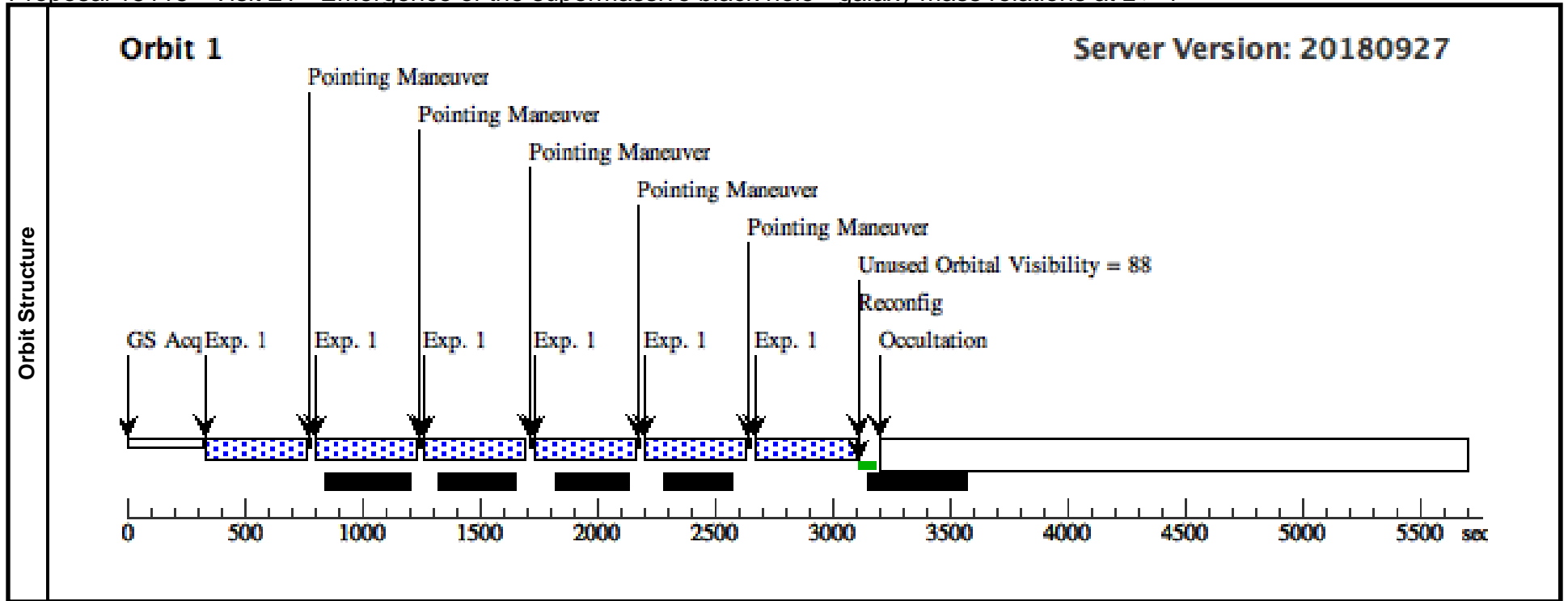
Visit	Proposal 15115, Visit 20, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(20)	COSMOS-XID2138	RA: 09 58 50.0100 (149.7083750d) Dec: +02 34 58.70 (2.58297d) Equinox: J2000		V=(?) 20.1	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(20) COSMOS-XID 2138	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=STEP50;	NSAMP=13	Pattern 1, Exps 1-1 in Visit 20 (1)	399.233383 Secs (2395.4 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)]	[1]



Proposal 15115 - Visit 21 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

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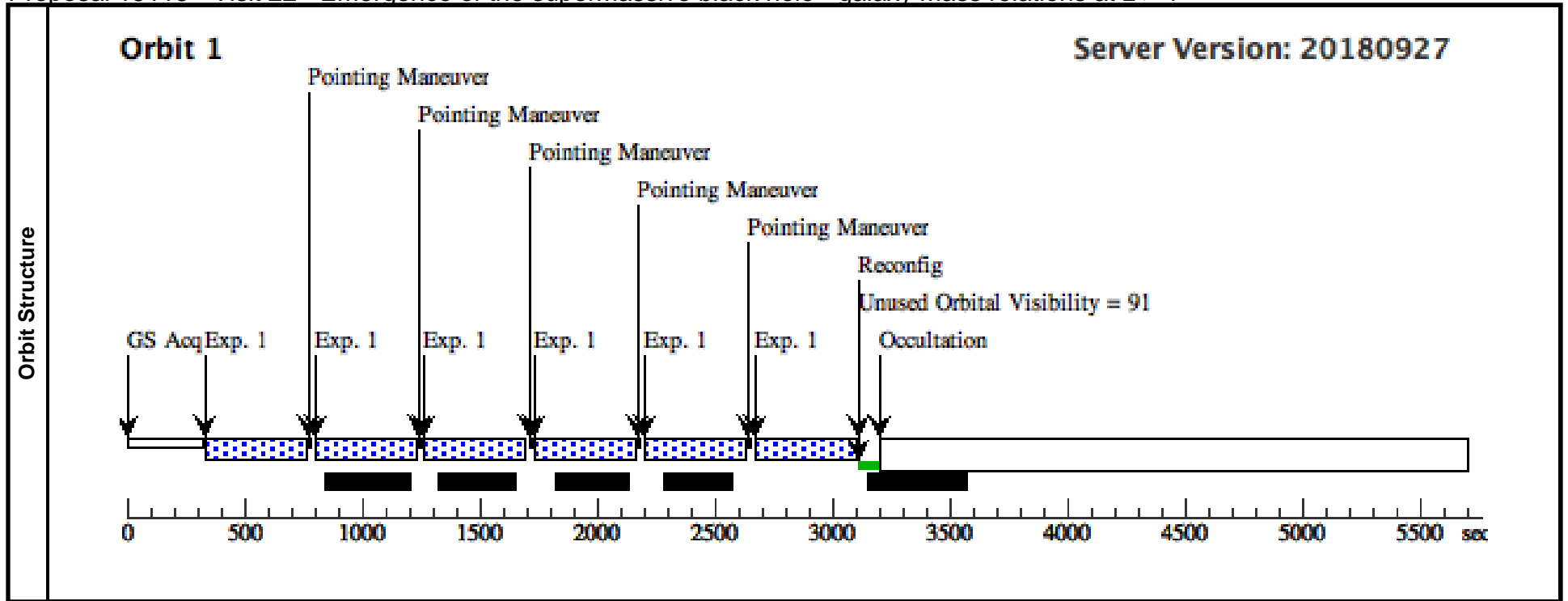
Visit	Proposal 15115, Visit 21, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
Patterns	#	Primary Pattern				Secondary Pattern				Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true							(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(21)	COSMOS-LID1538	RA: 10 02 29.1600 (150.6215000d) Dec: +02 09 47.90 (2.16331d) Equinox: J2000		V=(?) 19.8	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(21) COSMOS-LID1538	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=STEP50;		Pattern 1, Exps 1-1 in Visit 21 (1)	399.233383 Secs (2395.4 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)]	[1]
						NSAMP=13				



Proposal 15115 - Visit 22 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

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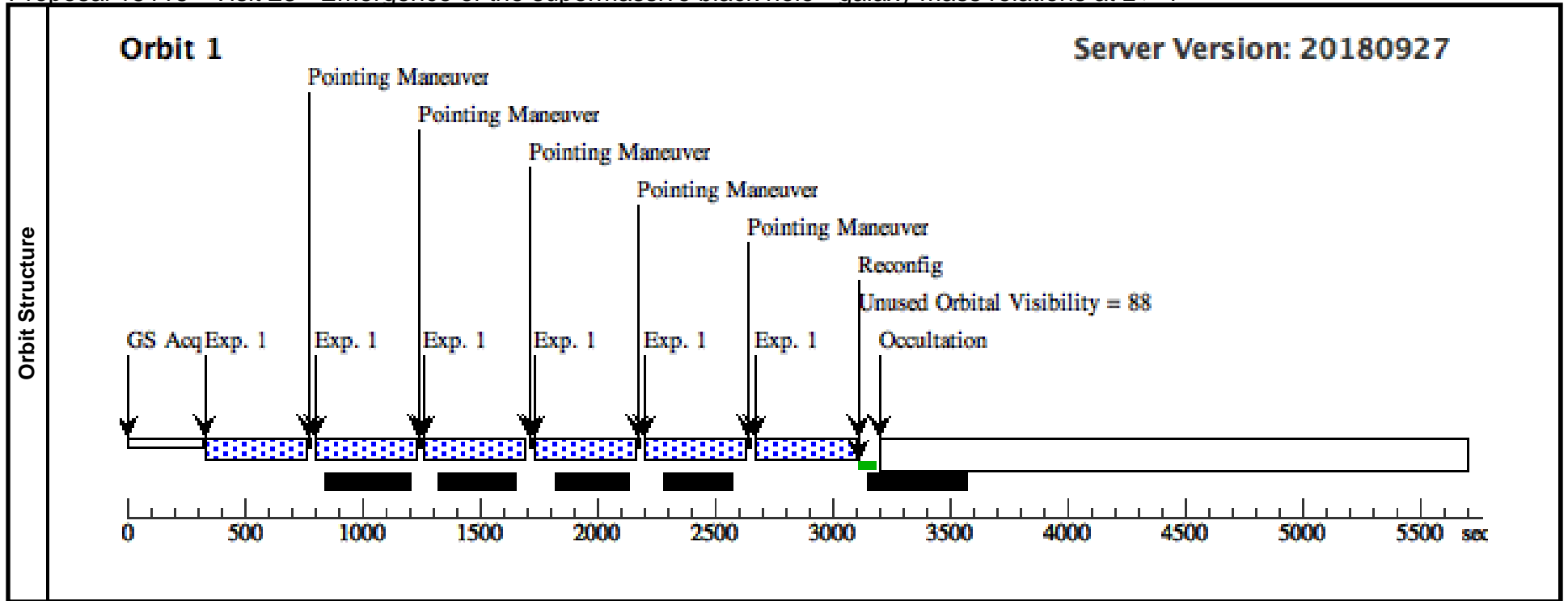
Visit	Proposal 15115, Visit 22, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
Patterns	#	Primary Pattern				Secondary Pattern				Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true						(1)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(22)	SXDS-X717	RA: 02 18 7.6700 (34.5319583d) Dec: -05 02 17.80 (-5.03828d) Equinox: J2000		V=(?) 21.2	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(22) SXDS-X717	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=STEP50; NSAMP=13		Pattern 1, Exps 1-1 in Visit 22 (1)	399.233383 Secs (2395.4 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)]	[1]



Proposal 15115 - Visit 23 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

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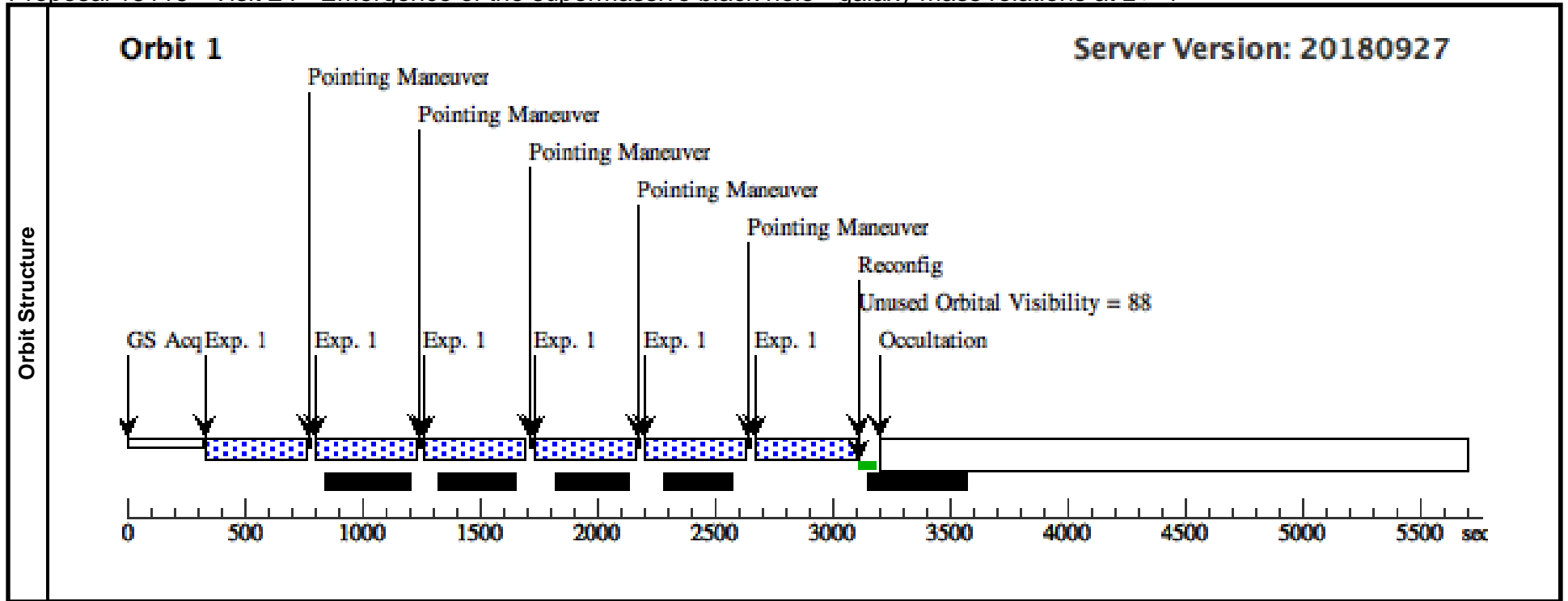
Visit	Proposal 15115, Visit 23, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)										
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures		
		(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true							(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous				
	(23)	SXDS-X735	RA: 02 18 11.7800 (34.5490833d) Dec: -04 53 4.40 (-4.88456d) Equinox: J2000			V=(?) 19.4	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(23) SXDS-X735	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=STEP50; NSAMP=13		Pattern 1, Exps 1-1 in Visit 23 (1)	399.233383 Secs (2395.4 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]		[1]



Proposal 15115 - Visit 24 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

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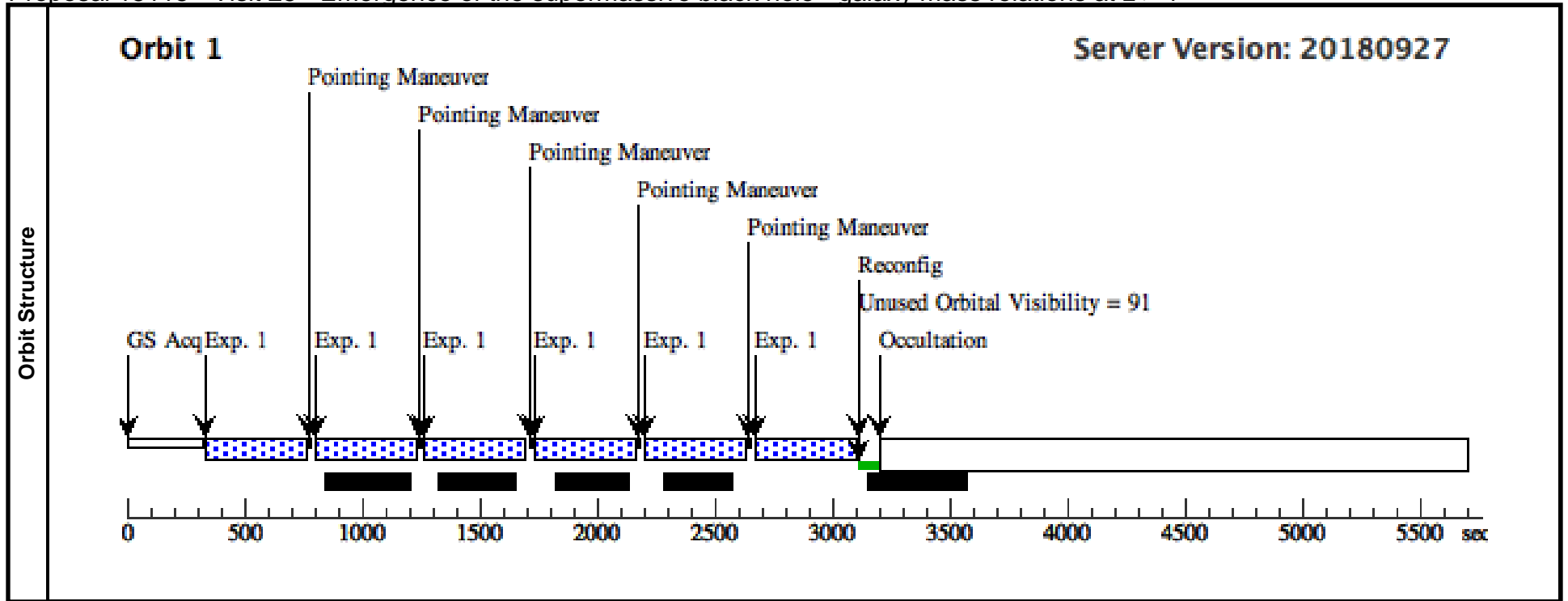
Visit	Proposal 15115, Visit 24, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)										
	Patterns	#	Primary Pattern				Secondary Pattern				Exposures
(1)		Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true							(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(24)	SXDS-X763	RA: 02 18 22.6900 (34.5945417d) Dec: -04 47 15.30 (-4.78758d) Equinox: J2000				V=(?) 20.8	Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[OSO, QUASAR]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(24) SXDS-X763	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=STEP50; NSAMP=13		Pattern 1, Exps 1-1 in Visit 24 (1)	399.233383 Secs (2395.4 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]		[1]



Proposal 15115 - Visit 25 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

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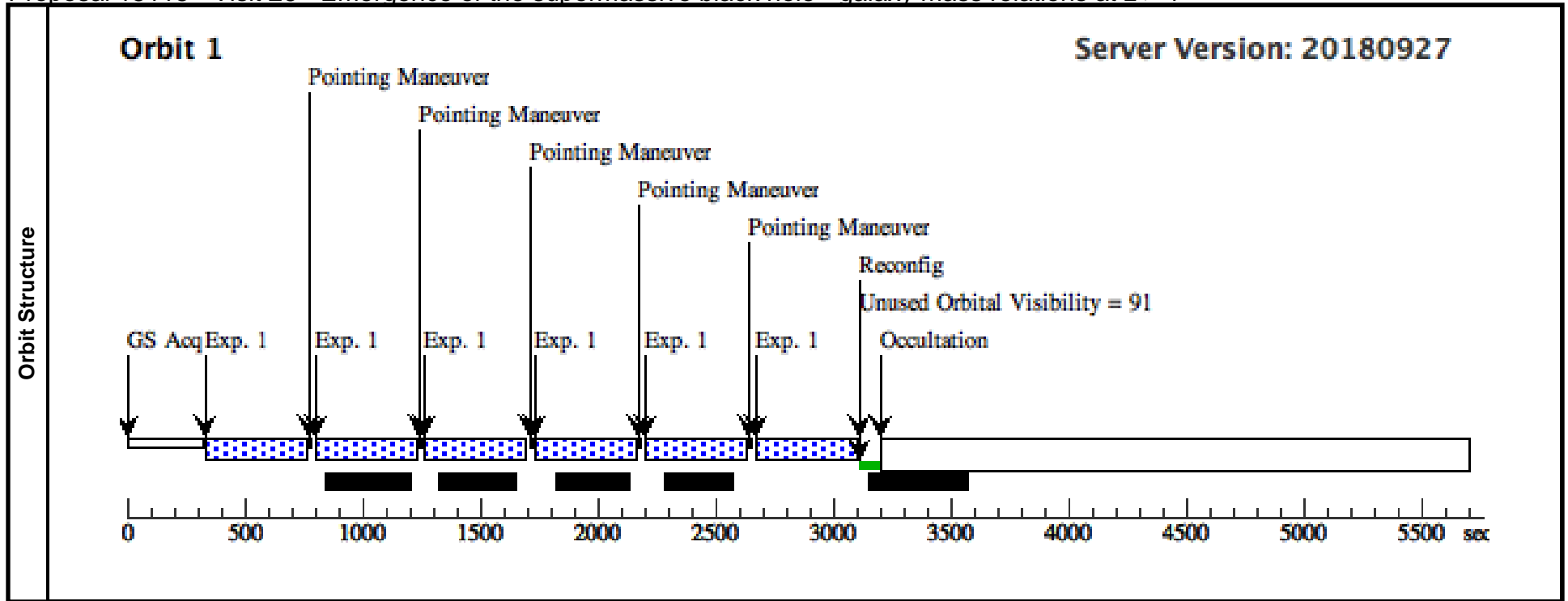
Visit	Proposal 15115, Visit 25, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)										
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures		
		(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true							(1)
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(25)	SXDS-X969	RA: 02 19 1.2100 (34.7550417d) Dec: -05 25 28.10 (-5.42447d) Equinox: J2000				V=(?) 20.2		Reference Frame: ICRS		
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(25) SXDS-X969	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=STEP50; NSAMP=13		Pattern 1, Exps 1-1 in Visit 25 (1)	399.233383 Secs (2395.4 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]		[1]



Proposal 15115 - Visit 26 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

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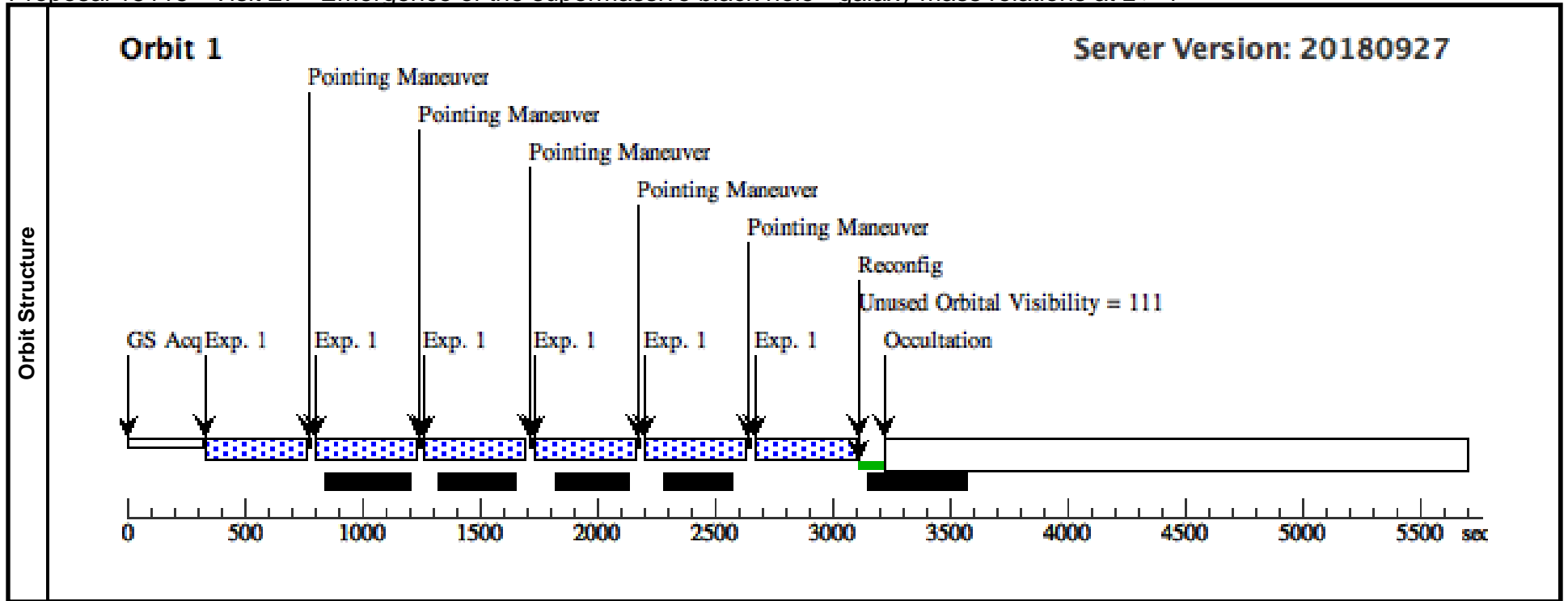
Visit	Proposal 15115, Visit 26, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
Patterns	#	Primary Pattern				Secondary Pattern				Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true						(1)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(26)	SXDS-X1136	RA: 02 19 33.6600 (34.8902500d) Dec: -05 09 3.00 (-5.15083d) Equinox: J2000		V=(?) 20.5	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(26) SXDS-X1136	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=STEP5 0; NSAMP=13		Pattern 1, Exps 1-1 i n Visit 26 (1)	399.233383 Secs (2395.4 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)]	[1]



Proposal 15115 - Visit 27 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

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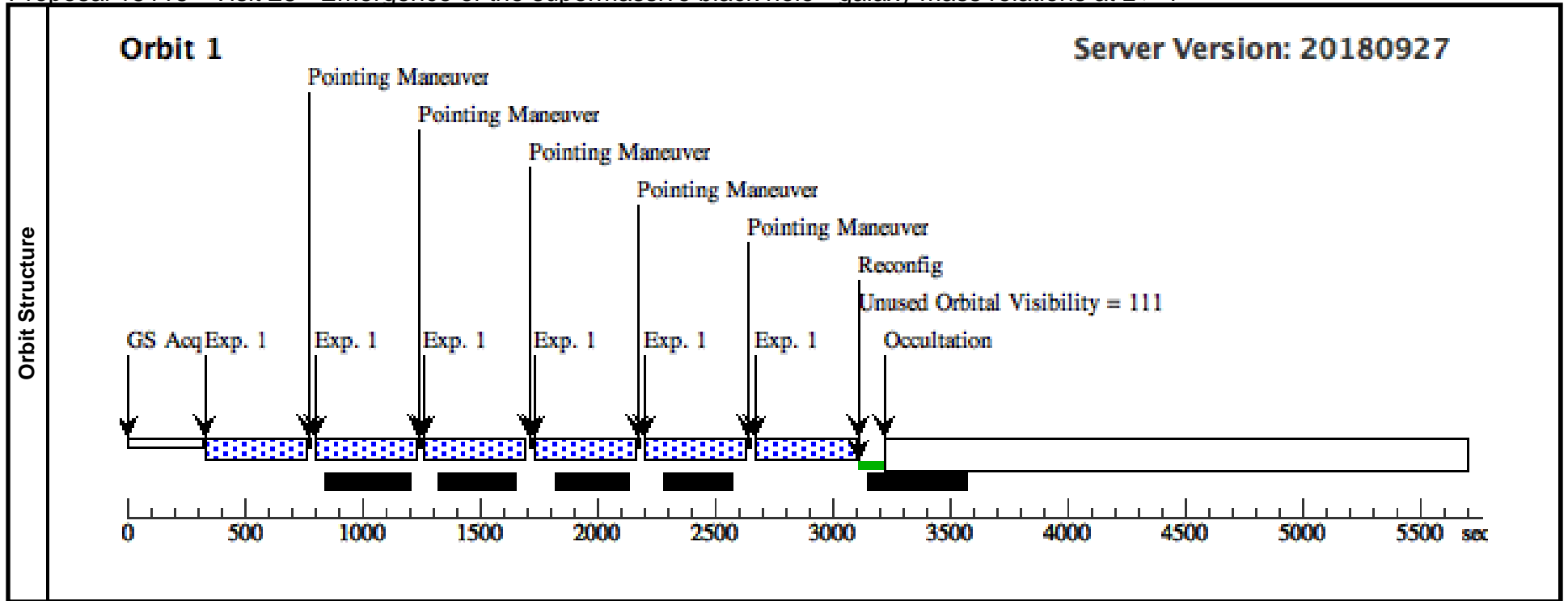
Visit	Proposal 15115, Visit 27, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)										
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures		
		(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true							(1)
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(27)	CDFS-321	RA: 03 32 9.8400 (53.0410000d)	Dec: -27 37 12.00 (-27.62000d)			V=(?) 18.9			Reference Frame: ICRS	
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(27) CDFS-321	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=STEP50; NSAMP=13		Pattern 1, Exps 1-1 in Visit 27 (1)	399.233383 Secs (2395.4 Secs)		[1]
									[=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)]		



Proposal 15115 - Visit 28 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

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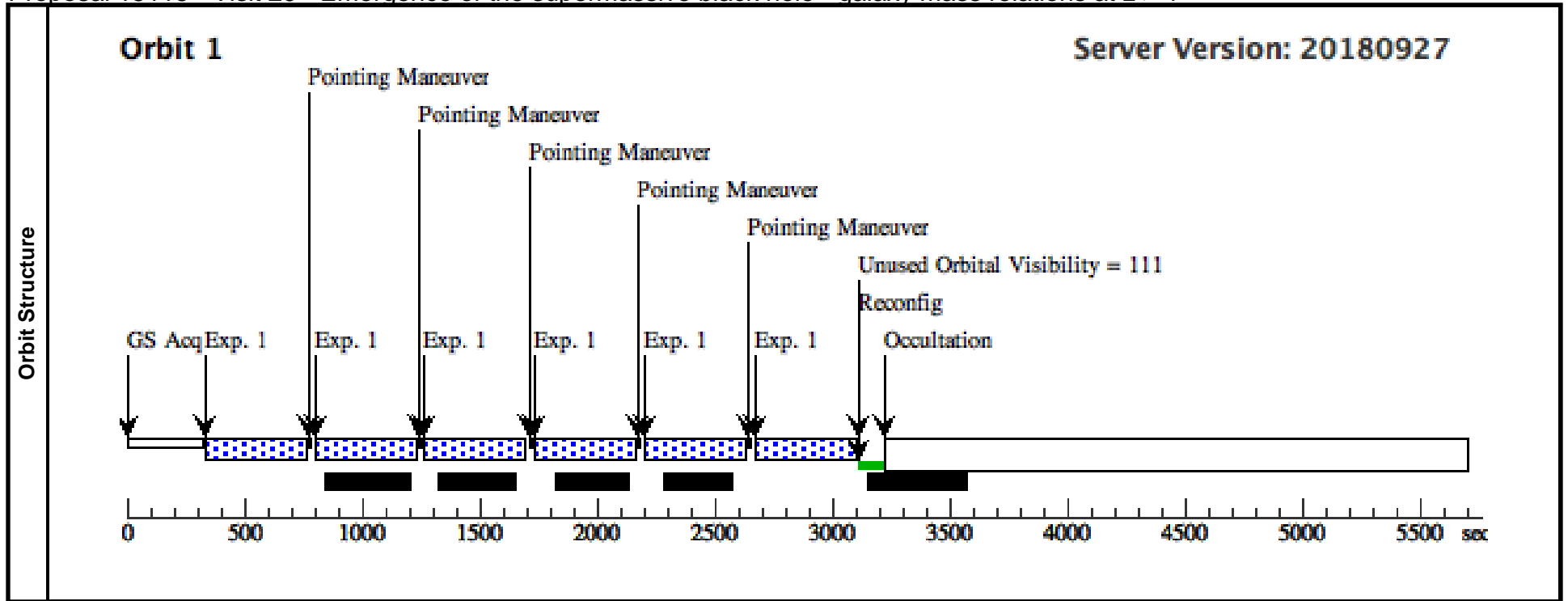
Visit	Proposal 15115, Visit 28, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
Patterns	#	Primary Pattern				Secondary Pattern				Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true						(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(28)	CDFS-1	RA: 03 31 34.2500 (52.8927083d) Dec: -27 51 46.80 (-27.86300d) Equinox: J2000			V=(?) 21.5	Reference Frame: ICRS			
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(28) CDFS-1	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=STEP50;		Pattern 1, Exps 1-1 in Visit 28 (1)	399.233383 Secs (2395.4 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]	[1]



Proposal 15115 - Visit 29 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

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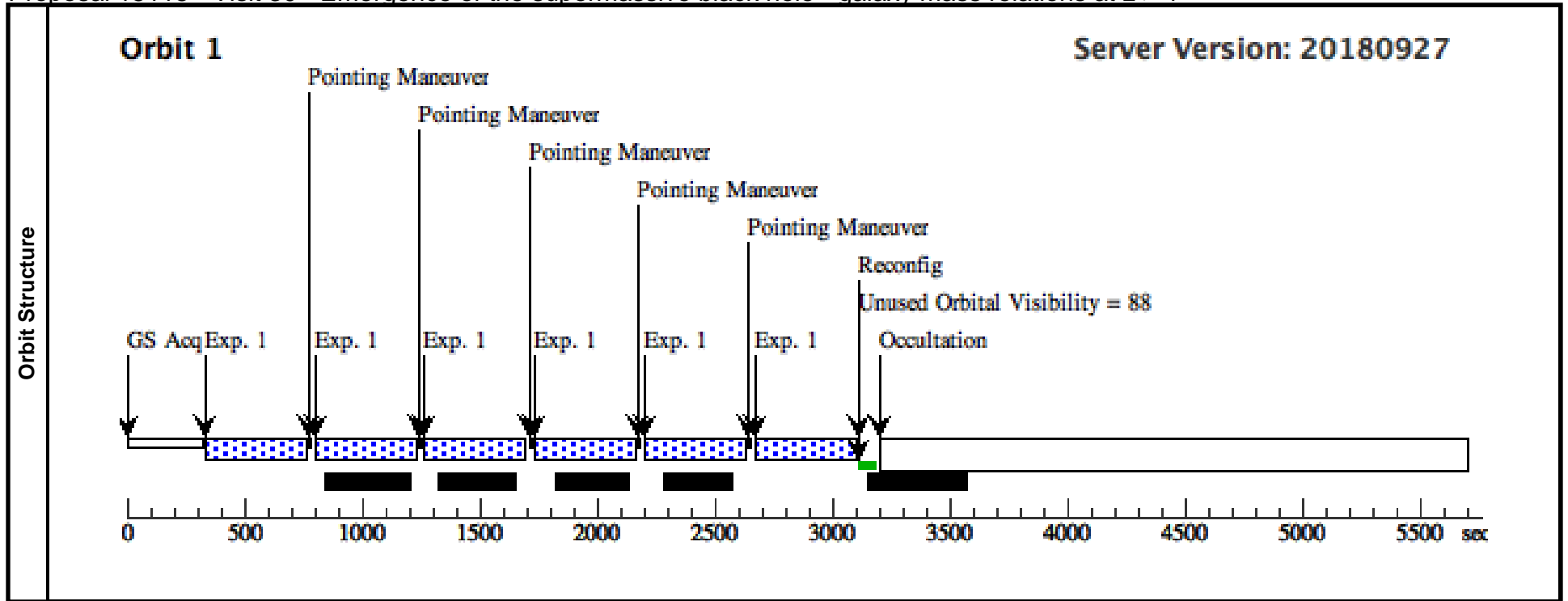
Visit	Proposal 15115, Visit 29, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(29)	CDFS-229	RA: 03 32 15.6000 (53.0650000d) Dec: -27 39 28.80 (-27.65800d) Equinox: J2000		V=(?) 21.0	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(29) CDFS-229	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=STEP50; NSAMP=13		Pattern 1, Exps 1-1 in Visit 29 (1)	399.233383 Secs (2395.4 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]	[1]



Proposal 15115 - Visit 30 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

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Visit	Proposal 15115, Visit 30, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)										
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures		
		(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true							(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous				
	(30)	COSMOS-LID360	RA: 10 00 31.0700 (150.1294583d) Dec: +02 51 54.70 (2.86519d) Equinox: J2000			V=(?) 21.6	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(30) COSMOS-LID360	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=STEP50;			Pattern 1, Exps 1-1 in Visit 30 (1)	399.233383 Secs (2395.4 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)]	[1]



Proposal 15115 - Visit 31 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

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Visit	Proposal 15115, Visit 31, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
(1)		Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true						(1)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(31)	ECDFS-358	RA: 03 32 20.4300 (53.0851250d) Dec: -28 01 58.80 (-28.03300d) Equinox: J2000				V=20.9	Reference Frame: ICRS			
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(31) ECDFS-358	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=STEP50; NSAMP=13		Pattern 1, Exps 1-1 in Visit 31 (1)	399.233383 Secs (2395.4 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]		[1]

Proposal 15115 - Visit 32 - Emergence of the supermassive black hole - galaxy mass relations at z > 1

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Visit	Proposal 15115, Visit 32, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
Patterns	#	Primary Pattern				Secondary Pattern				Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=6 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true						(1)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(32)	CDFS-724	RA: 03 33 9.9600 (53.2915000d) Dec: -27 41 24.00 (-27.69000d) Equinox: J2000		V=19.8	Reference Frame: ICRS				
	<i>Comments:</i> Category=GALAXY Description=[OSO, QUASAR]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(32) CDFS-724	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=STEP50;		Pattern 1, Exps 1-1 in Visit 32 (1)	399.233383 Secs (2395.4 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)]	[1]

