



13793 - Unveiling the merger fraction, sizes and morphologies of the brightest $z \sim 7$ galaxies

Cycle: 22, 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) UVISTA-136380	WFC3/IR	1	22-Jul-2014 21:16:03.0	yes
02	(2) UVISTA-28495	WFC3/IR	1	22-Jul-2014 21:16:04.0	yes
03	(3) UVISTA-268511	WFC3/IR	1	22-Jul-2014 21:16:05.0	yes
04	(4) UVISTA-268037	WFC3/IR	1	22-Jul-2014 21:16:06.0	yes
05	(5) UVISTA-65666	WFC3/IR	1	22-Jul-2014 21:16:06.0	yes
06	(6) UVISTA-137559	WFC3/IR	1	22-Jul-2014 21:16:07.0	yes
07	(7) UVISTA-282894	WFC3/IR	1	22-Jul-2014 21:16:08.0	yes
08	(8) UVISTA-238225	WFC3/IR	1	22-Jul-2014 21:16:09.0	yes
09	(9) UVISTA-305036	WFC3/IR	1	22-Jul-2014 21:16:09.0	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>
10	(10) UVISTA-35327	WFC3/IR	1	22-Jul-2014 21:16:10.0	yes
11	(11) UVISTA-304416	WFC3/IR	1	22-Jul-2014 21:16:11.0	yes
12	(12) UVISTA-169850	WFC3/IR	1	22-Jul-2014 21:16:11.0	yes
13	(13) UVISTA-304384	WFC3/IR	1	22-Jul-2014 21:16:12.0	yes
14	(14) UVISTA-279127	WFC3/IR	1	22-Jul-2014 21:16:13.0	yes
15	(15) UVISTA-104600	WFC3/IR	1	22-Jul-2014 21:16:13.0	yes
16	(16) UDS-35314	WFC3/IR	1	22-Jul-2014 21:16:14.0	yes
17	(17) UDS-118717	WFC3/IR	1	22-Jul-2014 21:16:15.0	yes

17 Total Orbits Used

ABSTRACT

The study of ultra-high-redshift galaxies has undoubtedly been led by HST, with surveys such as the UDF, CANDELS and BoRG leading to the discovery of hundreds of Lyman-break galaxies at $z > 6$. Furthermore, the unrivalled near-infrared sensitivity and resolution of WFC3 has enabled the first measurement of galaxy size and morphology at the highest redshifts, showing that the faintest galaxies are extremely compact and revealing disturbed morphologies for a subset of objects. The galaxies studied to-date however, are predominantly sub- L^* due to the small cosmological volumes probed by the HST imaging used to select them. Our recent work has exploited the combined 1.7 square degrees of the UltraVISTA and UDS surveys (Bowler et al. 2014, 2012) to select the first robust sample of 20 extremely bright ($-23.0 < M_{UV} < -21.5$) Lyman-break galaxies at $z \sim 7$. However, the available ground-based imaging is insufficient to reliably unveil the sizes and morphologies of this unique galaxy sample. Therefore, we propose to obtain follow-up imaging of the sample with HST, to utilize the unrivalled high-resolution imaging capabilities of WFC3 in answering the following key questions: i) what is the merger fraction amongst the brightest $z \sim 7$ galaxies? ii) how does this impact on the (currently controversial) form of the luminosity function at the bright end? iii) is there a strong size-luminosity relation already in place at $z \sim 7$?

OBSERVING DESCRIPTION

The 17 objects we will imaging with HST/WFC3 are widely separated, hence we require 17 separate pointings. Each object is imaged for one orbit and in a single visit. The F140W filter is used with a simple 4 point dither pattern to enable improved PSF reconstruction, splitting each orbit into four separate exposures of ~ 600 s each. We use the SPARS50 sampling rate with NSAMP = 14 to ensure a high number of non-destructive reads for

cosmic ray rejection.

Proposal 13793 - First visit (01) - Unveiling the merger fraction, sizes and morphologies of the brightest z ~ 7 galaxies

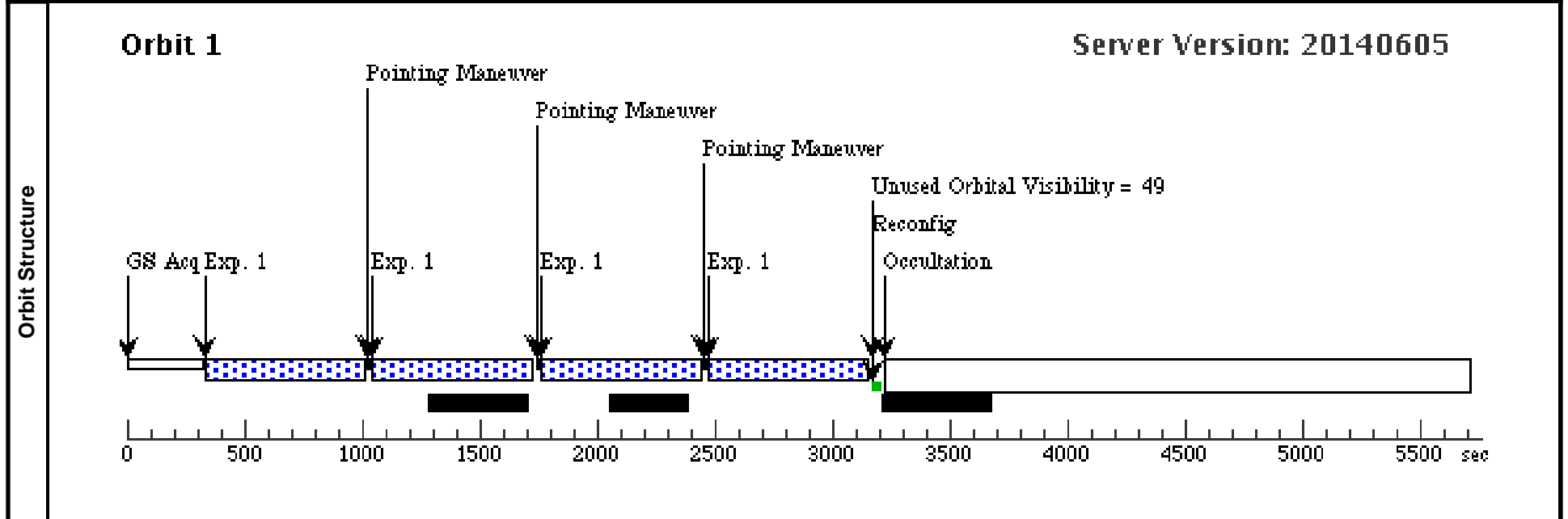
Wed Jul 23 01:16:16 GMT 2014

Visit	Proposal 13793, First visit (01)		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/IR		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	UVISTA-136380	RA: 09 59 15.8900 (149.8162083d) Dec: +02 07 32.00 (2.12556d) Equinox: J2000		V=(?) total J-band AB magnitude = 25.1	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) UVISTA-136380	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50			Pattern 1, Exps 1-1 in First visit (01) (1)	652.938154 Secs (2611.753 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 13793 - Second visit (02) - Unveiling the merger fraction, sizes and morphologies of the brightest z ~ 7 galaxies

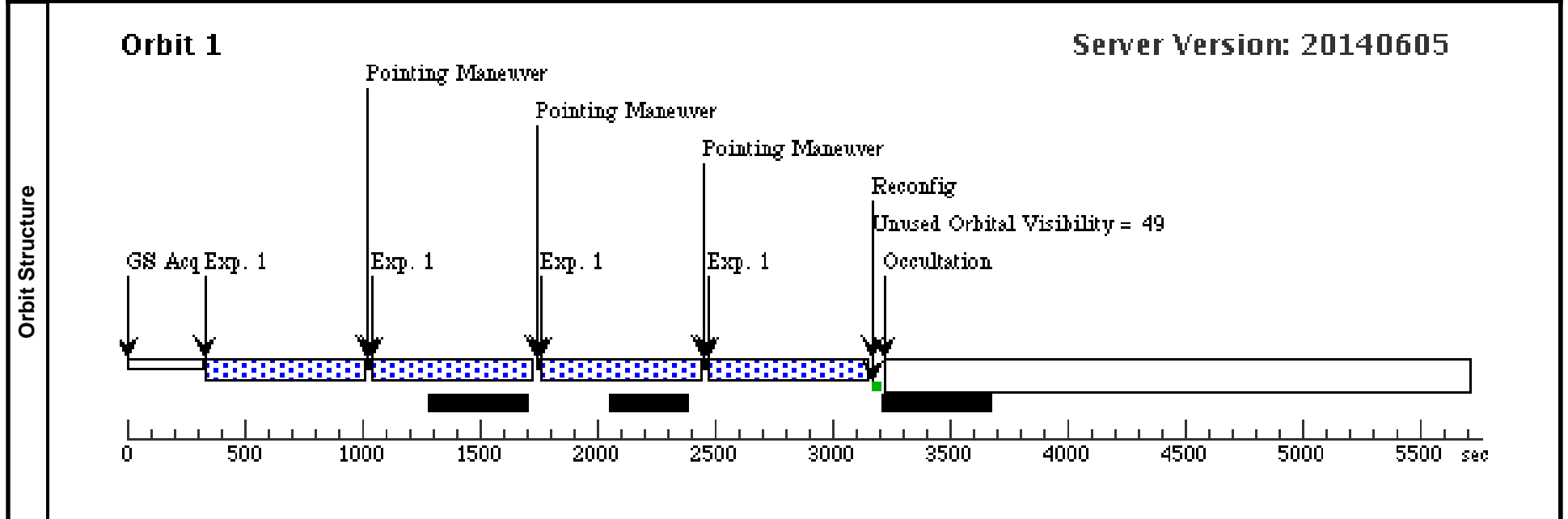
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Visit	Proposal 13793, Second visit (02) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	UVISTA-28495	RA: 10 00 28.1300 (150.1172083d) Dec: +01 47 54.40 (1.79844d) Equinox: J2000			V=(?) total J-band AB magnitude = 25.0

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(2) UVISTA-28495	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50			Pattern 1, Exps 1-1 in Second visit (02) (1)	652.938154 Secs (2611.753 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]



Proposal 13793 - Third visit (03) - Unveiling the merger fraction, sizes and morphologies of the brightest z ~ 7 galaxies

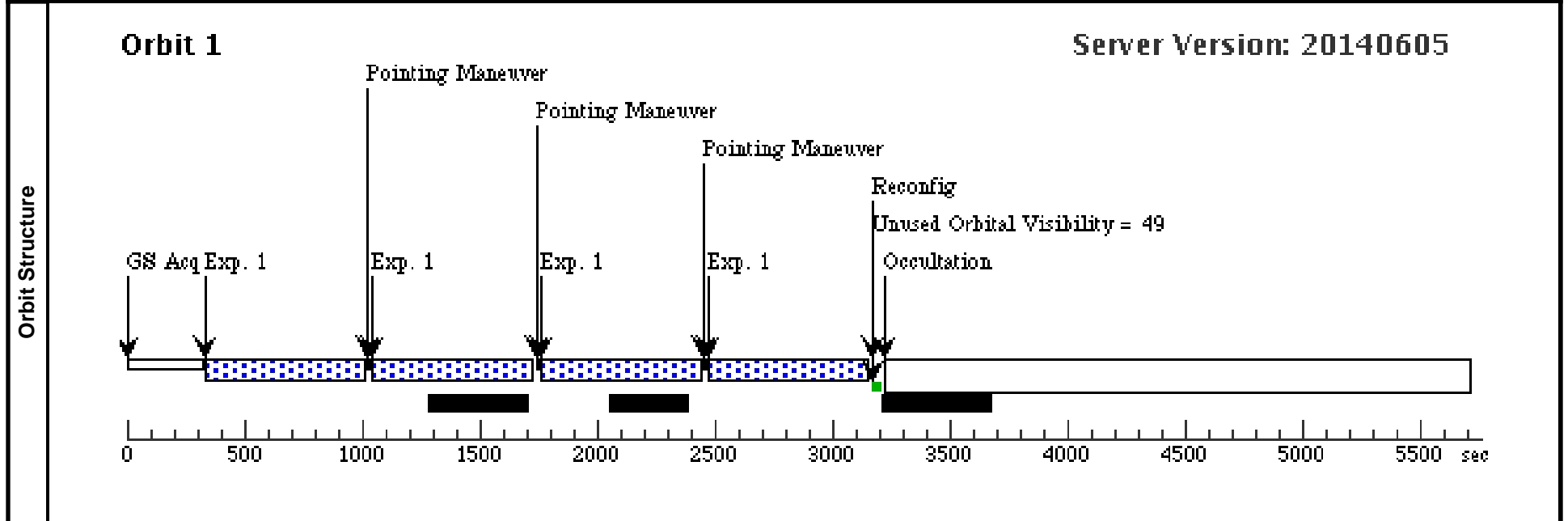
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Visit	Proposal 13793, Third visit (03)		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/IR		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	UVISTA-268511	RA: 10 00 2.3500 (150.0097917d) Dec: +02 35 52.40 (2.59789d) Equinox: J2000		V=(?) total J-band AB magnitude = 24.8	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) UVISTA-268511	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50			Pattern 1, Exps 1-1 in Third visit (03) (1)	652.938154 Secs (2611.753 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 13793 - Fourth visit (04) - Unveiling the merger fraction, sizes and morphologies of the brightest z ~ 7 galaxies

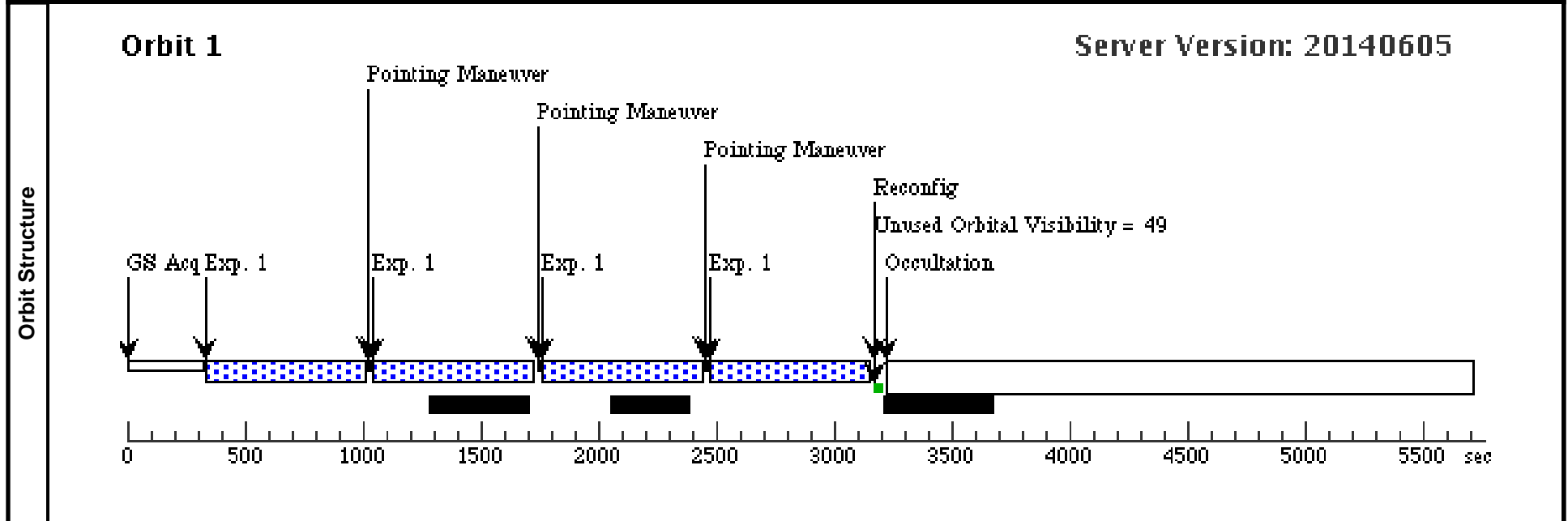
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Visit	Proposal 13793, Fourth visit (04)		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/IR		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	UVISTA-268037	RA: 09 59 20.7000 (149.8362500d) Dec: +02 31 12.40 (2.52011d) Equinox: J2000		V=(?) total J-band AB magnitude = 25.3	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(4) UVISTA-268037	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50			Pattern 1, Exps 1-1 in Fourth visit (04) (1)	652.938154 Secs (2611.753 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]



Proposal 13793 - Fifth visit (05) - Unveiling the merger fraction, sizes and morphologies of the brightest z ~ 7 galaxies

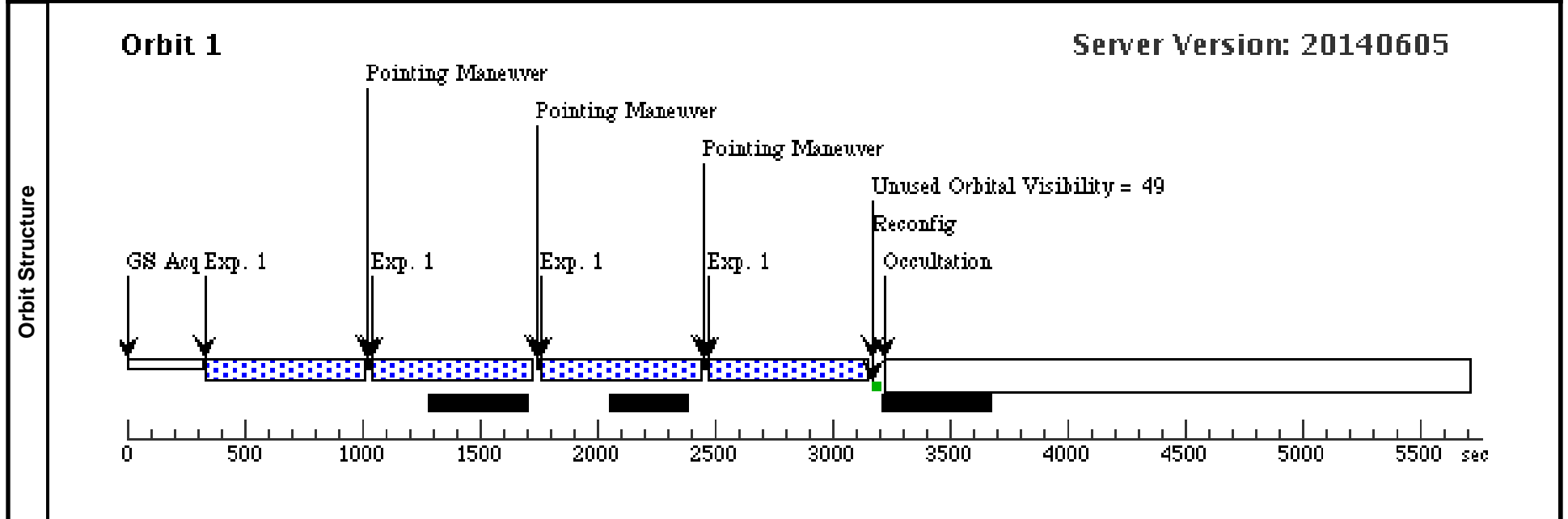
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Visit	Proposal 13793, Fifth visit (05)		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/IR		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	UVISTA-65666	RA: 10 01 40.6900 (150.4195417d) Dec: +01 54 52.50 (1.91458d) Equinox: J2000		V=(?) total J-band AB magnitude = 24.5	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(5) UVISTA-65666	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50		Pattern 1, Exps 1-1 i n Fifth visit (05) (1)	652.938154 Secs (2611.753 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 13793 - Sixth visit (06) - Unveiling the merger fraction, sizes and morphologies of the brightest z ~ 7 galaxies

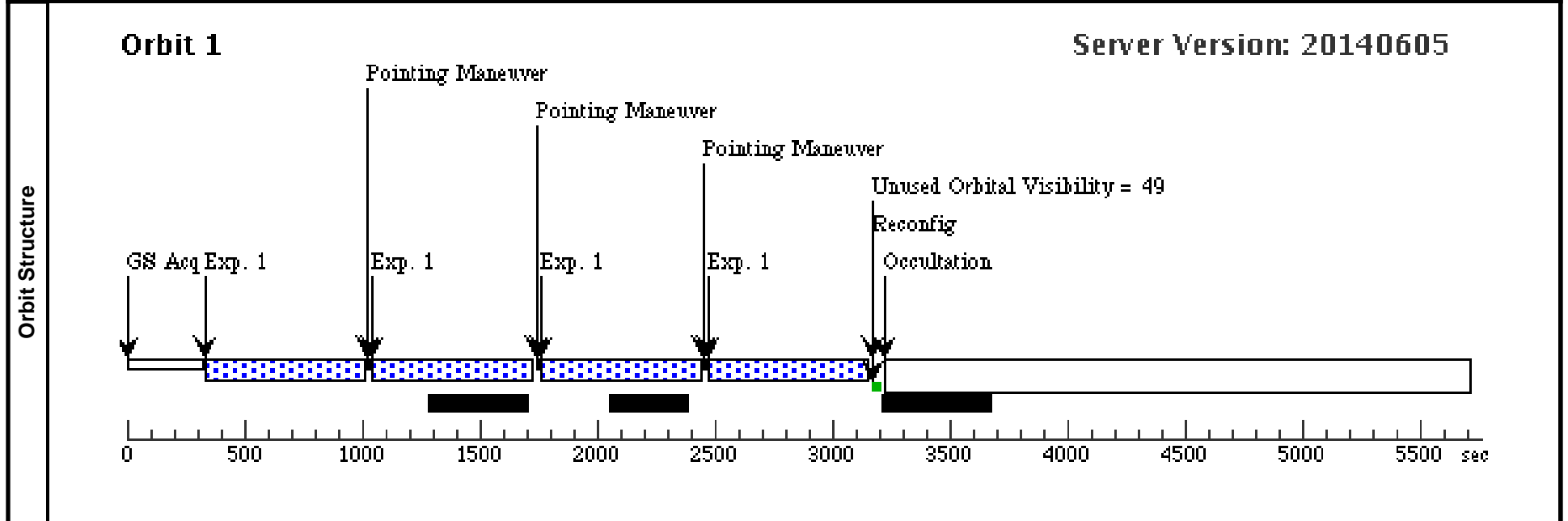
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Visit	Proposal 13793, Sixth visit (06)		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/IR		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(6)	UVISTA-137559	RA: 10 02 2.5500 (150.5106250d) Dec: +02 07 42.00 (2.12833d) Equinox: J2000		V=(?) total J-band AB magnitude = 25.4	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(6) UVISTA-137559	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50			Pattern 1, Exps 1-1 in Sixth visit (06) (1)	652.938154 Secs (2611.753 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]



Proposal 13793 - Seventh visit (07) - Unveiling the merger fraction, sizes and morphologies of the brightest z ~ 7 galaxies

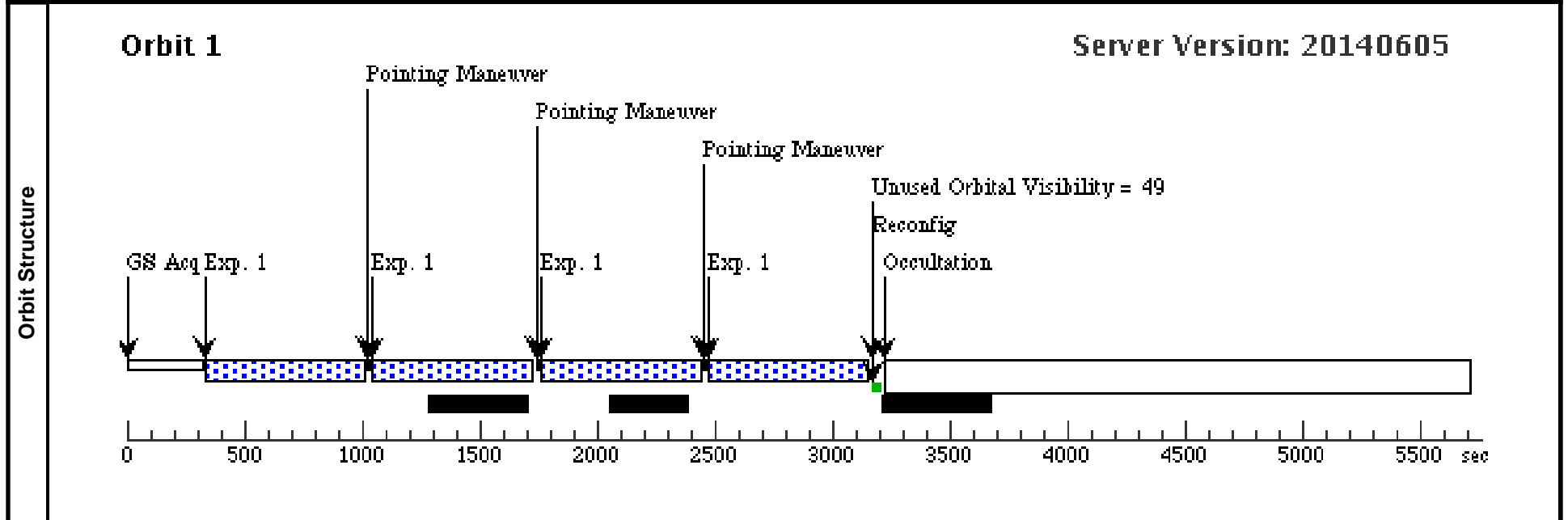
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Visit	Proposal 13793, Seventh visit (07)		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/IR		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(7)	UVISTA-282894	RA: 10 00 30.5000 (150.1270833d) Dec: +02 33 46.30 (2.56286d) Equinox: J2000		V=(?) total J-band AB magnitude = 25.6	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(7) UVISTA-282894	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50			Pattern 1, Exps 1-1 in Seventh visit (07) (1)	652.938154 Secs (2611.753 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]



Proposal 13793 - Eighth visit (08) - Unveiling the merger fraction, sizes and morphologies of the brightest z ~ 7 galaxies

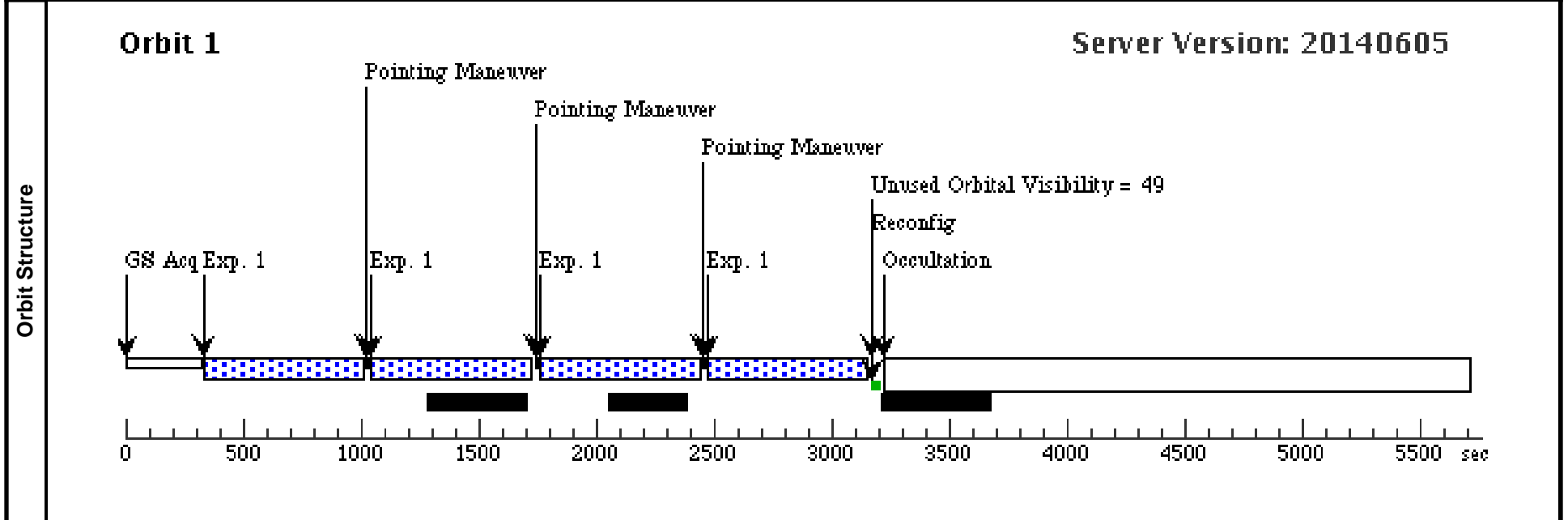
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Visit	Proposal 13793, Eighth visit (08) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(8)	UVISTA-238225	RA: 10 01 52.3100 (150.4679583d) Dec: +02 25 42.30 (2.42842d) Equinox: J2000		V=(?) total J-band AB magnitude = 24.8	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(8) UVISTA-238225	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50		Pattern 1, Exps 1-1 in Eighth visit (08) (1)	652.938154 Secs (2611.753 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 13793 - Ninth visit (09) - Unveiling the merger fraction, sizes and morphologies of the brightest z ~ 7 galaxies

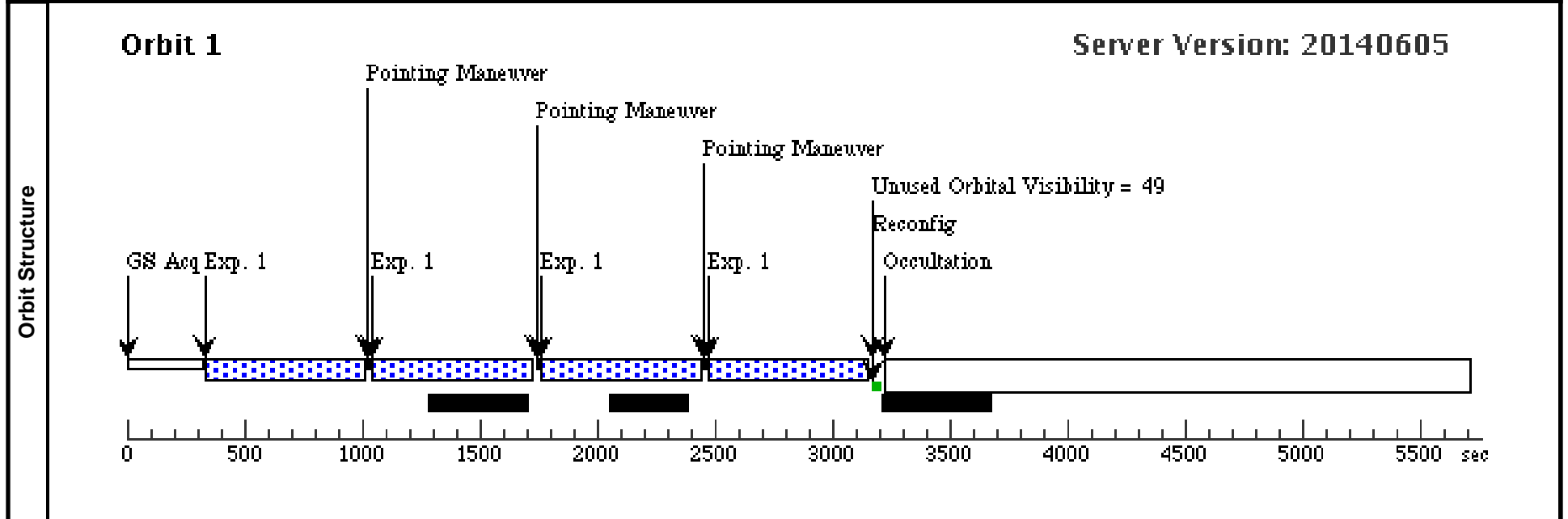
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Visit	Proposal 13793, Ninth visit (09)		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/IR		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(9)	UVISTA-305036	RA: 10 00 46.7900 (150.1949583d) Dec: +02 35 52.90 (2.59803d) Equinox: J2000		V=(?) total J-band AB magnitude = 25.0	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(9) UVISTA-305036	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50			Pattern 1, Exps 1-1 in Ninth visit (09) (1)	652.938154 Secs (2611.753 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]



Proposal 13793 - Tenth visit (10) - Unveiling the merger fraction, sizes and morphologies of the brightest z ~ 7 galaxies

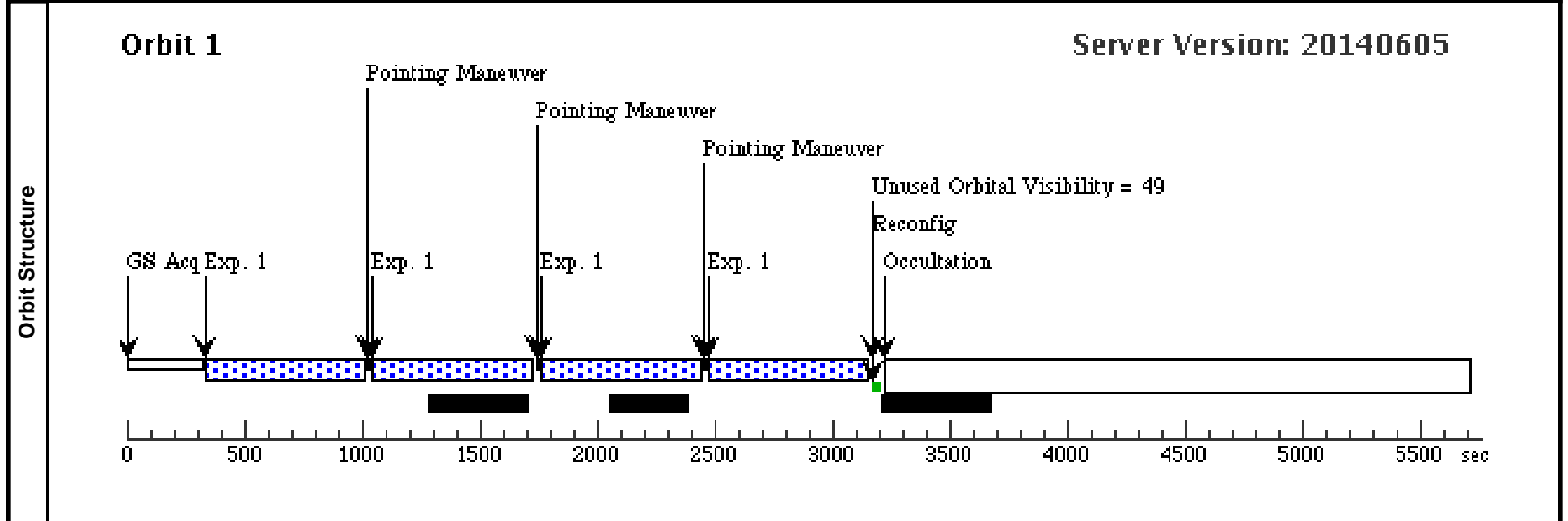
Wed Jul 23 01:16:17 GMT 2014

Visit	Proposal 13793, Tenth visit (10)		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/IR		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(10)	UVISTA-35327	RA: 10 01 46.1800 (150.4424167d) Dec: +01 49 7.70 (1.81881d) Equinox: J2000		V=(?) total J-band AB magnitude = 25.6	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(10) UVISTA-35327	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50			Pattern 1, Exps 1-1 in Tenth visit (10) (1)	652.938154 Secs (2611.753 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]



Proposal 13793 - Eleventh visit (11) - Unveiling the merger fraction, sizes and morphologies of the brightest z ~ 7 galaxies

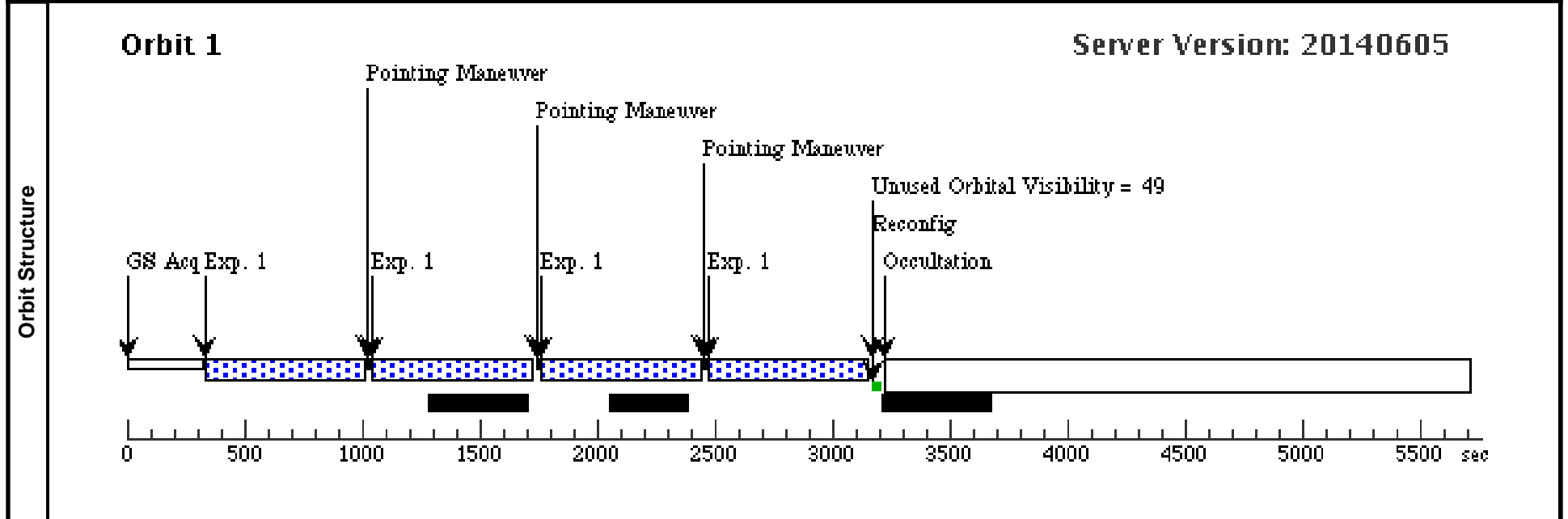
Wed Jul 23 01:16:17 GMT 2014

Visit	Proposal 13793, Eleventh visit (11)		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/IR		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(11)	UVISTA-304416	RA: 10 00 43.3700 (150.1807083d) Dec: +02 37 51.60 (2.63100d) Equinox: J2000		V=(?) total J-band AB magnitude = 24.0	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(11) UVISTA-304416	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50		Pattern 1, Exps 1-1 in Eleventh visit (11)	652.938154 Secs (2611.753 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 13793 - Twelfth visit (12) - Unveiling the merger fraction, sizes and morphologies of the brightest z ~ 7 galaxies

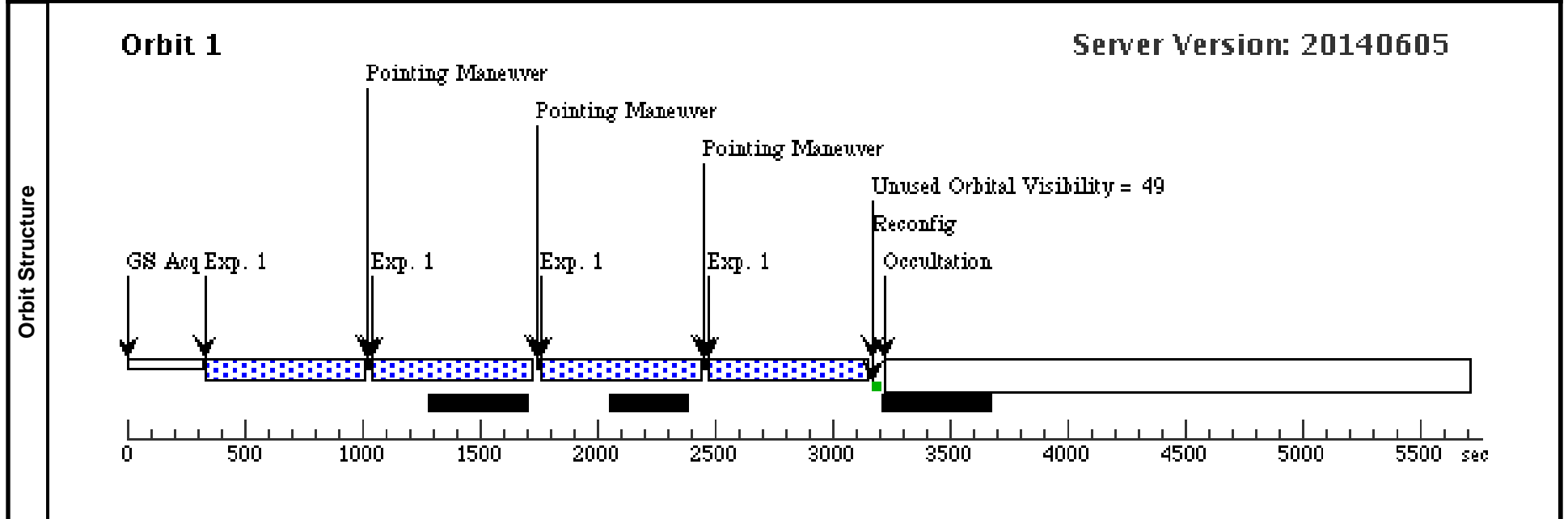
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Visit	Proposal 13793, Twelfth visit (12)		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/IR		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(12)	UVISTA-169850	RA: 10 02 6.4800 (150.5270000d) Dec: +02 13 24.20 (2.22339d) Equinox: J2000		V=(?) total J-band AB magnitude = 24.3	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(12) UVISTA-169850	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50		Pattern 1, Exps 1-1 in Twelfth visit (12) (1)	652.938154 Secs (2611.753 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 13793 - Thirteenth visit (13) - Unveiling the merger fraction, sizes and morphologies of the brightest z ~ 7 galaxies

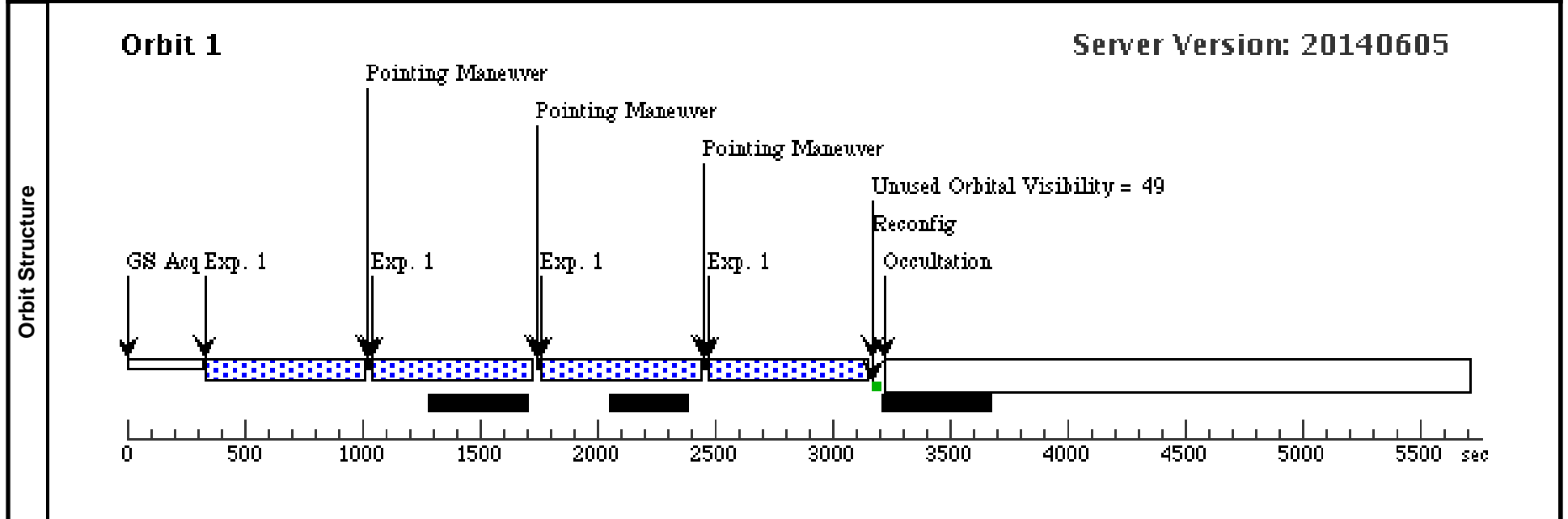
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Visit	Proposal 13793, Thirteenth visit (13)		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/IR		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(13)	UVISTA-304384	RA: 10 01 36.8600 (150.4035833d) Dec: +02 37 49.20 (2.63033d) Equinox: J2000		V=(?) total J-band AB magnitude = 24.5	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(13) UVISTA-304384	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50		Pattern 1, Exps 1-1 in Thirteenth visit (13) (1)	652.938154 Secs (2611.753 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 13793 - Fourteenth visit (14) - Unveiling the merger fraction, sizes and morphologies of the brightest z ~ 7 galaxies

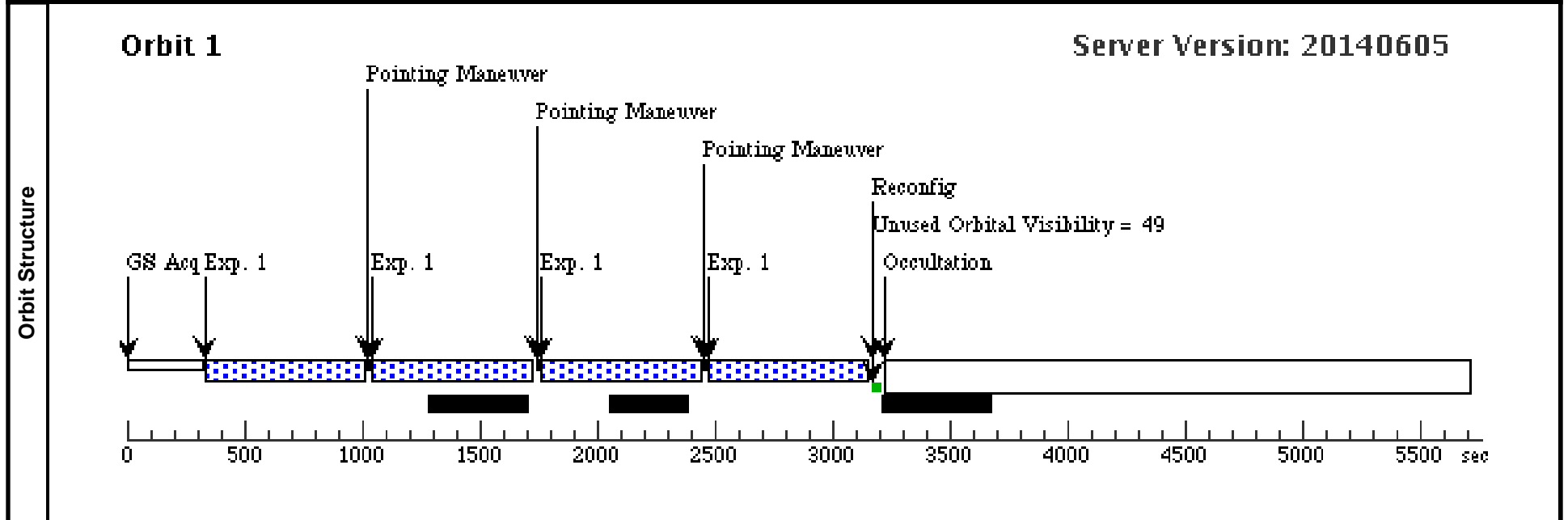
Wed Jul 23 01:16:17 GMT 2014

Visit	Proposal 13793, Fourteenth visit (14) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(14)	UVISTA-279127	RA: 10 01 58.5000 (150.4937500d) Dec: +02 33 8.50 (2.55236d) Equinox: J2000		V=(?) total J-band AB magnitude = 24.4	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(14) UVISTA-279127	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50		Pattern 1, Exps 1-1 in Fourteenth visit (14) (1)	652.938154 Secs (2611.753 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 13793 - Fifteenth visit (15) - Unveiling the merger fraction, sizes and morphologies of the brightest z ~ 7 galaxies

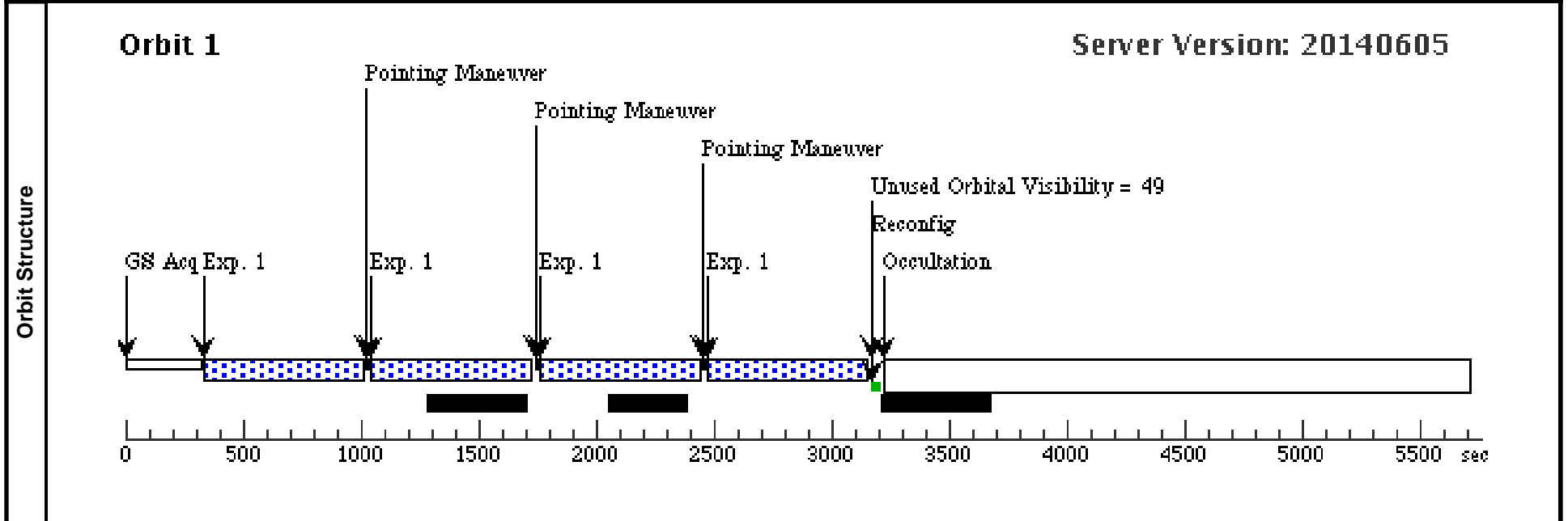
Wed Jul 23 01:16:17 GMT 2014

Visit	Proposal 13793, Fifteenth visit (15) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(15)	UVISTA-104600	RA: 10 00 42.1300 (150.1755417d) Dec: +02 01 57.10 (2.03253d) Equinox: J2000		V=(?) total J-band AB magnitude = 24.9	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(15) UVISTA-104600	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50			Pattern 1, Exps 1-1 in Fifteenth visit (15) (1)	652.938154 Secs (2611.753 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]



Proposal 13793 - Sixteenth visit (16) - Unveiling the merger fraction, sizes and morphologies of the brightest z ~ 7 galaxies

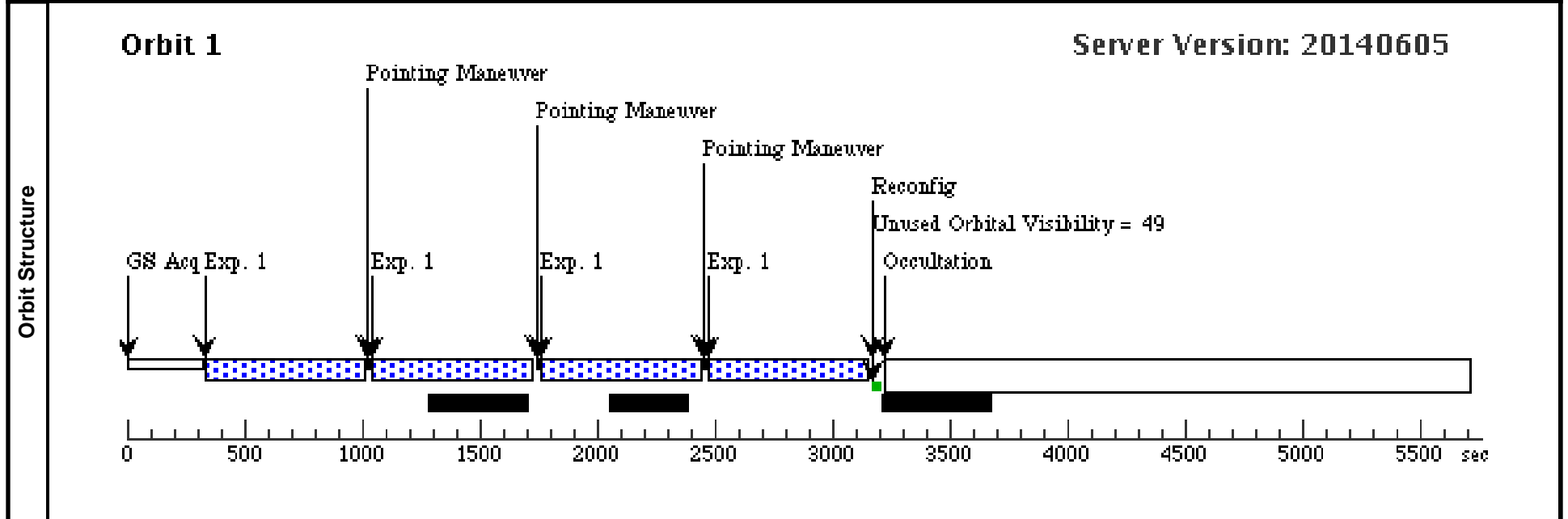
Wed Jul 23 01:16:17 GMT 2014

Visit	Proposal 13793, Sixteenth visit (16)		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/IR		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(16)	UDS-35314	RA: 02 19 9.4900 (34.7895417d) Dec: -05 23 20.60 (-5.38906d) Equinox: J2000			V=(?) total J-band AB magnitude = 25.0

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(16) UDS-35314	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50			Pattern 1, Exps 1-1 in Sixteenth visit (16) (1)	652.938154 Secs (2611.753 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]



Proposal 13793 - Seventeenth visit (17) - Unveiling the merger fraction, sizes and morphologies of the brightest z ~ 7 galaxies

Wed Jul 23 01:16:18 GMT 2014

Visit	Proposal 13793, Seventeenth visit (17)		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/IR		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(17)	UDS-118717	RA: 02 18 11.5000 (34.5479167d) Dec: -05 00 59.40 (-5.01650d) Equinox: J2000		V=(?) total J-band AB magnitude = 25.1	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(17) UDS-118717	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50			Pattern 1, Exps 1-1 in Seventeenth visit (17) (1)	652.938154 Secs (2611.753 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]

