



14122 - Unveiling stellar populations in absorption-selected galaxies

Cycle: 23, 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) SDSS-J012403.77+004432.7	WFC3/UVIS	1	23-Jul-2015 21:44:54.0	yes
02	(1) SDSS-J012403.77+004432.7	WFC3/IR	1	23-Jul-2015 21:44:55.0	yes
03	(1) SDSS-J012403.77+004432.7	WFC3/IR	1	23-Jul-2015 21:44:57.0	yes
04	(2) SDSS-J013901.40-082443.9	WFC3/UVIS	1	23-Jul-2015 21:44:57.0	yes
05	(2) SDSS-J013901.40-082443.9	WFC3/IR	1	23-Jul-2015 21:44:58.0	yes
06	(2) SDSS-J013901.40-082443.9	WFC3/IR	1	23-Jul-2015 21:44:59.0	yes
07	(6) SDSS-J031036.84+005521.7	WFC3/IR	1	23-Jul-2015 21:45:00.0	yes
08	(6) SDSS-J031036.84+005521.7	WFC3/IR	1	23-Jul-2015 21:45:01.0	yes
09	(9) SDSS-J131341.19+144140.5	WFC3/UVIS	1	23-Jul-2015 21:45:02.0	yes
10	(9) SDSS-J131341.19+144140.5	WFC3/IR	1	23-Jul-2015 21:45:03.0	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>
11	(9) SDSS-J131341.19+144140.5	WFC3/IR	1	23-Jul-2015 21:45:03.0	yes
12	(10) SDSS-J205922.42-052842.7	WFC3/UVIS	1	23-Jul-2015 21:45:04.0	yes
13	(10) SDSS-J205922.42-052842.7	WFC3/IR	1	23-Jul-2015 21:45:05.0	yes
14	(10) SDSS-J205922.42-052842.7	WFC3/IR	1	23-Jul-2015 21:45:06.0	yes
15	(8) SDSS-J223941.8-294955	WFC3/UVIS	1	23-Jul-2015 21:45:07.0	yes
16	(8) SDSS-J223941.8-294955	WFC3/IR	1	23-Jul-2015 21:45:08.0	yes
17	(8) SDSS-J223941.8-294955	WFC3/IR	1	23-Jul-2015 21:45:08.0	yes
18	(3) HE2243-60	WFC3/IR	1	23-Jul-2015 21:45:09.0	yes
19	(3) HE2243-60	WFC3/IR	1	23-Jul-2015 21:45:10.0	yes
20	(3) HE2243-60	WFC3/UVIS	1	23-Jul-2015 21:45:11.0	yes

20 Total Orbits Used

ABSTRACT

Metal absorption lines in Damped Ly-alpha systems (DLAs) allow us to trace the metallicity of galaxies back to redshifts $z > 5$. Therefore, understanding the galaxies that host the DLAs is our best strategy for understanding the physics of galaxy formation and evolution in the early universe. The average DLA arise in low-mass galaxies and detecting these in emission has been difficult. Metal-rich absorbers have proven to arise in brighter galaxies, and we have a growing number of emission line detections from DLA galaxies with ground-based VLT spectra. Combining spectral information of the DLA system with imaging of the host galaxy continuum emission gives unparalleled information of the nature of absorption-selected galaxies and their gaseous halos.

We propose to obtain multi-band images in 3 filters covering the optical to near-IR for seven $z > 2$ DLA systems where we already have a spectroscopic confirmation of the host galaxy. High spatial resolution imaging allows us to accurately measure the impact parameters, morphologies, derive stellar masses, stellar population ages and dust reddening from SED fits, and allow us to investigate several scaling relations such as the mass-metallicity relation. This program will more than double the number of high- z DLA galaxies for which we have detected the stellar continuum. This is science that is impossible to do from the ground due to the glare of the background QSOs and hence the data will be an important part of the legacy of HST. We can now finally begin to investigate absorption selected galaxies on the same footing as luminosity selected ones and probe the build-up of metals in the outskirts of galaxies in the early universe.

OBSERVING DESCRIPTION

This program aims to image galaxies that cause strong absorption lines in spectra of background QSOs. There are 7 targets and each target is imaged in 3 filters (UVIS/F606W, IR/F105W and IR/F160W), with 1 orbit per filter. One target only uses two filters and 2 orbits. All the orbits can be run independently of each other.

Previous spectra of the QSO have revealed emission lines arising from these galaxies at some position angle. We will use orientations to avoid diffraction spikes falling on the galaxies. The QSOs are bright (mag 16-19), while the nearby galaxies are faint (expected magnitudes around 25) and offset by 0.7-3 arcsec from the QSO positions.

Six of the targets will only reach minor degrees of saturation in the central pixels so here we use a simple 4 point dither strategy with exposures of equal lengths. One target, He2243-60 is brighter $V=16.3$, and will saturate the detector. For this target we use a sequence with a short exposure followed by a series of longer exposure in the UVIS. The IR exposures will saturate within a 2 pixel radius, but since the impact parameter for the galaxy is large, this saturation is acceptable.

Orientations:

The primary targets have to avoid the diffraction spikes. Table 7.4 in P2PI specifies that to place the target along rows in UVIS, the orientation is `target_angle +221 deg`. For the IR aperture the angle is `target_angle +224 deg`. Also `ORIENT` angles `-/+180` will place the target along columns. In cases of fainter QSOs, where bleeding will be minor and offsets between the QSO and the target is sufficiently large, `ORIENT` angles `+/- 90` degrees can be used too. Only the UVIS CCD has bleeding.

The specified orient angles are flexible within `+/-10` (or 15) degrees depending on the impact parameter.

Following information give the orient angles for each target and each visit:

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Q0124+0044: Target PA = -50, impact parameter = 1.3 arcsec. No strong bleeding of QSO emission.

UVIS ORIENT: -50 +221 = 171. Allow a +90 and -180 ORIENT and a +/-10 deg range.

Proposal 14122 (STScI Edit Number: 1, Created: Thursday, July 23, 2015 8:45:12 PM EST) - Overview

To add visibility target can be placed near the direction of CCD bleeding (-90 deg)

Allowed ORIENT ranges: 341 - 1 , 161 - 181 , 251 - 271, 113 - 123, 66 - 76

IR ORIENT: $-50 + 224 = 174$. Allow a +/-90 and -180 ORIENT and a +/-10 deg range.

Allowed ORIENT ranges: 344 - 4 , 164 - 184 , 74 - 94 , 254 - 274

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Q0139-0824: Target PA = -98, impact parameter = 1.6 arcsec. No strong bleeding of QSO emission.

UVIS ORIENT: $-98 + 221 = 123$. Allow a +90 and -180 ORIENT and a +/-10 deg range.

To add visibility target can be placed near the direction of CCD bleeding (-90 deg)

Allowed ORIENT ranges: 113 - 133, 293 - 313, 203 - 223, 65 - 75, 18 - 28

IR ORIENT: $-98 + 224 = 126$. Allow a +/-90 and -180 ORIENT and a +/-10 deg range.

Allowed ORIENT ranges: 116 - 136 , 296-316 , 26 - 46 , 206 - 226

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Q0310+0055: Target PA = 77 deg. Impact param $\sim < 3.8$ arcsec. Only IR observations.

IR ORIENT: $77 + 224 = 301$. Allow a +/-90 and -180 ORIENT and a +/-10 deg range.

Allowed ORIENT ranges: 291 - 311 , 111 - 131 , 21 - 41 , 201 - 221

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Q1313+1441: Target PA = 60. Impact parameter = 0.7 arcsec. Some bleeding in the UVIS CCD.

UVIS ORIENT: $60 + 221 = 281$. Allow a -180 ORIENT and a +/-10 deg range.

Allowed ORIENT ranges: 271 - 291 , 91 - 111

IR ORIENT: $60 + 224 = 284$. Allow a +/-90 and -180 ORIENT and a +/-10 deg range.

Allowed ORIENT ranges: 274 - 294 , 94 - 114, 4 - 24, 184 - 204

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Q2059-0528: Target PA = 60, impact parameter = 0.7 arcsec. No strong bleeding of QSO emission.

UVIS ORIENT: $60 + 221 = 281$. Allow a -180 ORIENT and a +/-10 deg range.

Allowed ORIENT ranges: 271 - 291 , 91 - 111

IR ORIENT: $60 + 224 = 284$. Allow a +/-90 and -180 ORIENT and a +/-10 deg range.

Allowed ORIENT ranges: 274 - 294 , 94 - 114 , 184 - 204 , 4 - 24

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Q2239-2949: Target PA = -10, impact parameter = 2.4 arcsec. No strong bleeding of QSO emission.

Proposal 14122 (STScI Edit Number: 1, Created: Thursday, July 23, 2015 8:45:12 PM EST) - Overview

UVIS ORIENT: $-10 + 221 = 211$. Allow a -180 ORIENT and a ± 10 deg range.

Allowed ORIENT ranges: 21 - 41 , 201 - 221

IR ORIENT: $-10 + 224 = 214$. Allow a ± 90 and -180 ORIENT and a ± 10 deg range.

Allowed ORIENT ranges: 24 - 44 , 204 - 224 , 294 - 314 , 114 - 134

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Q2243-60: Target PA = -135 . Impact parameter = 3.0 arcsec. Strong bleeding in the UVIS CCD.

UVIS ORIENT: $-135 + 221 = 86$. Allow a -180 ORIENT and a ± 15 deg range.

Allowed ORIENT ranges: 251 - 281 , 71 - 101

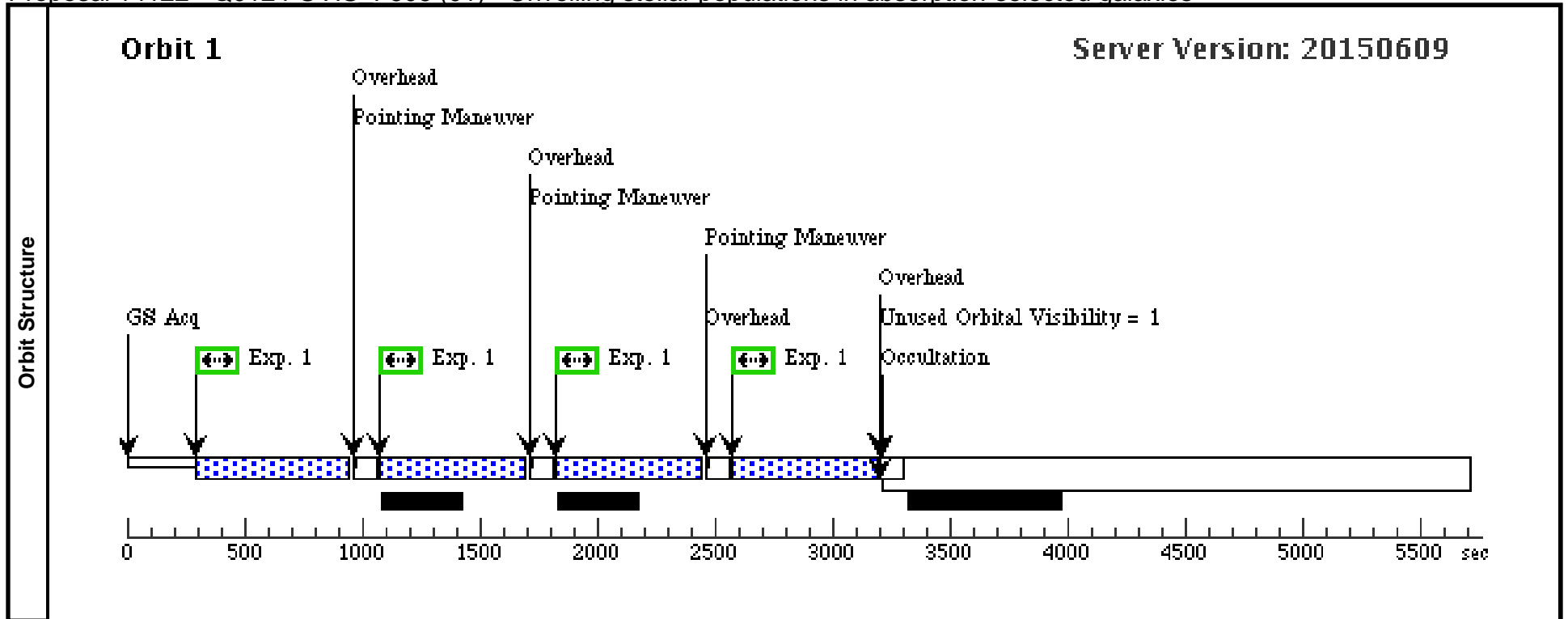
IR ORIENT: $-135 + 224 = 89$. Allow a ± 90 and -180 ORIENT and a ± 15 deg range.

Allowed ORIENT ranges: 254 - 284 , 74 - 104, 344 - 14 , 164 - 194

Proposal 14122 - Q0124-UVIS F606 (01) - Unveiling stellar populations in absorption-selected galaxies

Fri Jul 24 01:45:13 GMT 2015

Visit	Proposal 14122, Q0124-UVIS_F606 (01), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 161D TO 181 D; ORIENT 341D TO 1 D; ORIENT 251D TO 271 D; ORIENT 113D TO 123 D; ORIENT 66D TO 76 D Comments: Target PA =-50, impact parameter =1.3 arcsec									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SDSS-J012403.77+004432.7 Alt Name1: Q0124+0044	RA: 01 24 3.7819 (21.0157579d) Dec: +00 44 32.67 (.74241d) Equinox: J2000	Redshift: 3.08	V=19.3+/-0.01 I: 18.0 +/-0.01	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Q0124-UVIS_long	(1) SDSS-J012403.77+004432.7	WFC3/UVIS, ACCUM, UVIS	F606W			Pattern 1, Exps 1-1 in Q0124-UVIS_F606 (01) (1)	621 Secs (2484 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]



Proposal 14122 - Q0124-IR F105 (02) - Unveiling stellar populations in absorption-selected galaxies

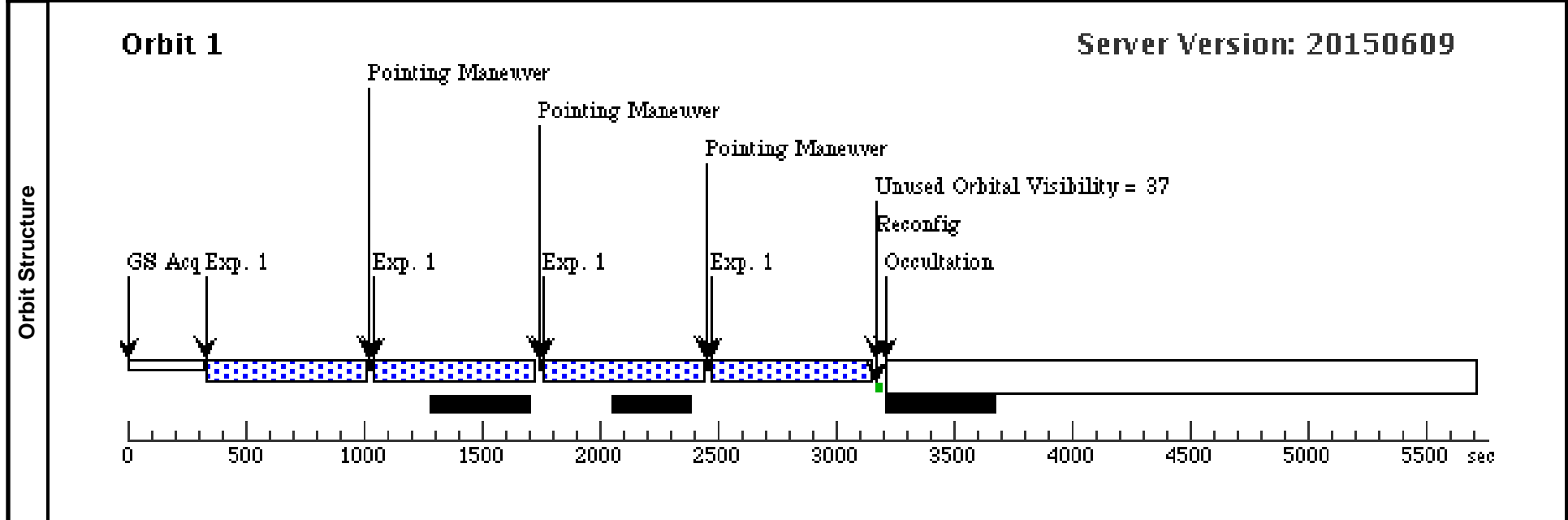
Fri Jul 24 01:45:13 GMT 2015

Visit	Proposal 14122, Q0124-IR_F105 (02), implementation		
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 164D TO 184 D; ORIENT 344D TO 4 D; ORIENT 74D TO 94 D; ORIENT 254D TO 274 D <i>Comments: Target PA = -50 deg, impact param = 1.3 arcsec.</i>		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	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
	(1)	SDSS-J012403.77+004432.7 Alt Name1: Q0124+0044	RA: 01 24 3.7819 (21.0157579d) Dec: +00 44 32.67 (.74241d) Equinox: J2000	Redshift: 3.08	V=19.3+/-0.01 I: 18.0 +/-0.01	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Q0124-IR_F105_long	(1) SDSS-J012403.77+004432.7	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=14; SAMP-SEQ=SPAR S50		Pattern 2, Exps 1-1 in Q0124-IR_F105 (02) (2)	652.938154 Secs (2611.753 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]

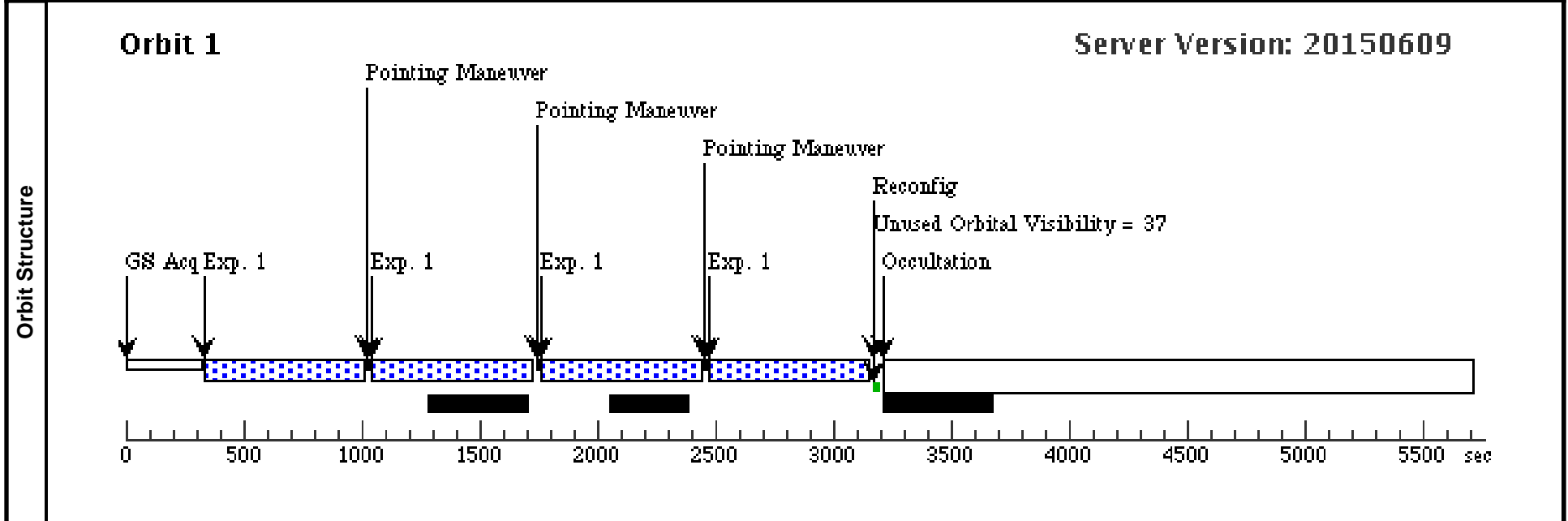


Visit	Proposal 14122, Q0124-IR_F160 (03), implementation		
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 164D TO 184 D; ORIENT 344D TO 4 D; ORIENT 74D TO 94 D; ORIENT 254D TO 274 D <i>Comments: Target PA = -50 deg, impact param = 1.3 arcsec.</i>		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	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
	(1)	SDSS-J012403.77+004432.7 Alt Name1: Q0124+0044	RA: 01 24 3.7819 (21.0157579d) Dec: +00 44 32.67 (.74241d) Equinox: J2000	Redshift: 3.08	V=19.3+/-0.01 I: 18.0 +/-0.01	Reference Frame: ICRS

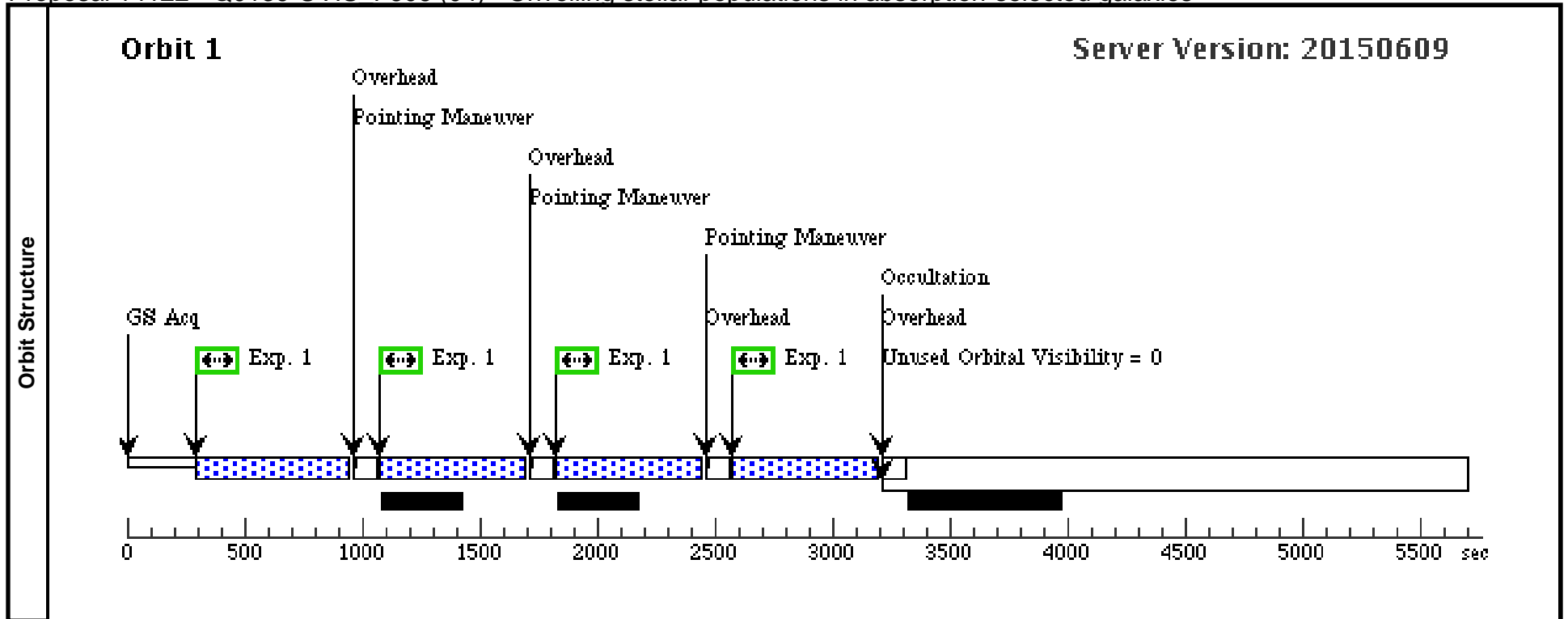
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Q0124-IR_F105_long	(1) SDSS-J012403.7+004432.7	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=14; SAMP-SEQ=SPAR S50		Pattern 2, Exps 1-1 in Q0124-IR_F160 (03) (2)	652.938154 Secs (2611.753 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]



Proposal 14122 - Q0139-UVIS F606 (04) - Unveiling stellar populations in absorption-selected galaxies

Fri Jul 24 01:45:13 GMT 2015

Visit	Proposal 14122, Q0139-UVIS_F606 (04), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 113D TO 133 D; ORIENT 293D TO 313 D; ORIENT 203D TO 223 D; ORIENT 18D TO 28 D; ORIENT 65D TO 75 D Comments: Target PA = -98, impact parameter = 1.6 arcsec.									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	SDSS-J013901.40-082443.9 Alt Name1: Q0139-0824	RA: 01 39 1.4026 (24.7558442d) Dec: -08 24 44.08 (-8.41224d) Equinox: J2000	Redshift: 3.06	V=18.7+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Q0139-UVIS_long	(2) SDSS-J013901.40-082443.9	WFC3/UVIS, ACCUM, UVIS	F606W			Pattern 1, Exps 1-1 in Q0139-UVIS_F606 (04) (1)	622 Secs (2488 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]



Proposal 14122 - Q0139-IR F105 (05) - Unveiling stellar populations in absorption-selected galaxies

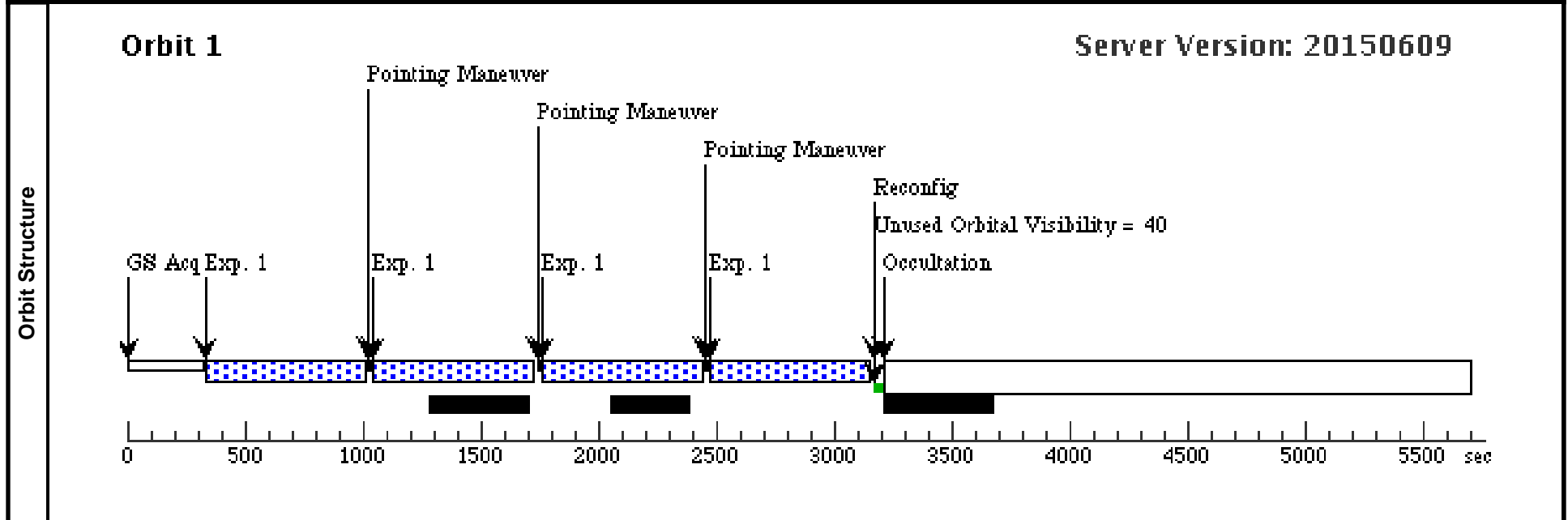
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Visit	Proposal 14122, Q0139-IR_F105 (05), implementation		
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 116D TO 136 D; ORIENT 296D TO 316 D; ORIENT 26D TO 46 D; ORIENT 206D TO 226 D <i>Comments: Target PA = -98, impact parameter = 1.6 arcsec.</i>		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	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
	(2)	SDSS-J013901.40-082443.9 Alt Name1: Q0139-0824	RA: 01 39 1.4026 (24.7558442d) Dec: -08 24 44.08 (-8.41224d) Equinox: J2000	Redshift: 3.06	V=18.7+/-0.1	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Q0139-IR_F105	(2) SDSS-J013901.40-082443.9	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=14; SAMP-SEQ=SPAR S50	GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 1-1 in Q0139-IR_F105 (05) (2)	652.938154 Secs (2611.753 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]

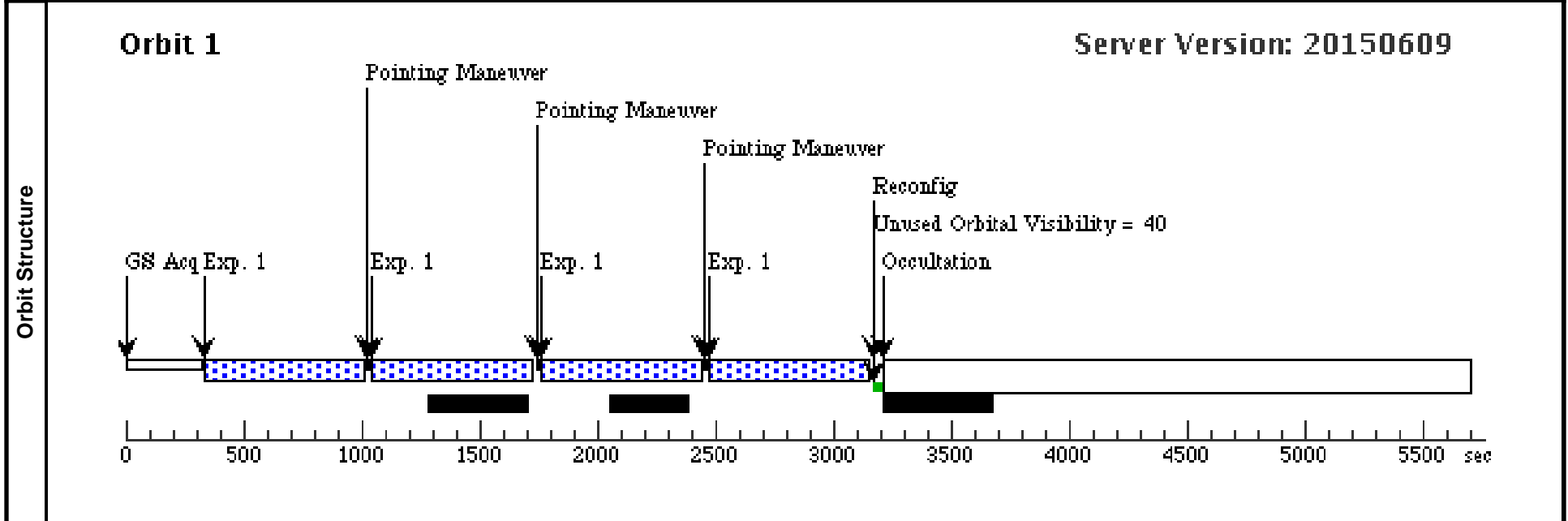


Visit	Proposal 14122, Q0139-IR_F160 (06), implementation		
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 116D TO 136 D; ORIENT 296D TO 316 D; ORIENT 26D TO 46 D; ORIENT 206D TO 226 D <i>Comments: Target PA = -98, impact parameter = 1.6 arcsec.</i>		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	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
	(2)	SDSS-J013901.40-082443.9 Alt Name1: Q0139-0824	RA: 01 39 1.4026 (24.7558442d) Dec: -08 24 44.08 (-8.41224d) Equinox: J2000	Redshift: 3.06	V=18.7+/-0.1	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Q0139-IR_F160	(2) SDSS-J013901.40-082443.9	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=14; SAMP-SEQ=SPAR S50	GS ACQ SCENARIO BASE1B3	Pattern 2, Exps 1-1 in Q0139-IR_F160 (06) (2)	652.938154 Secs (2611.753 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]

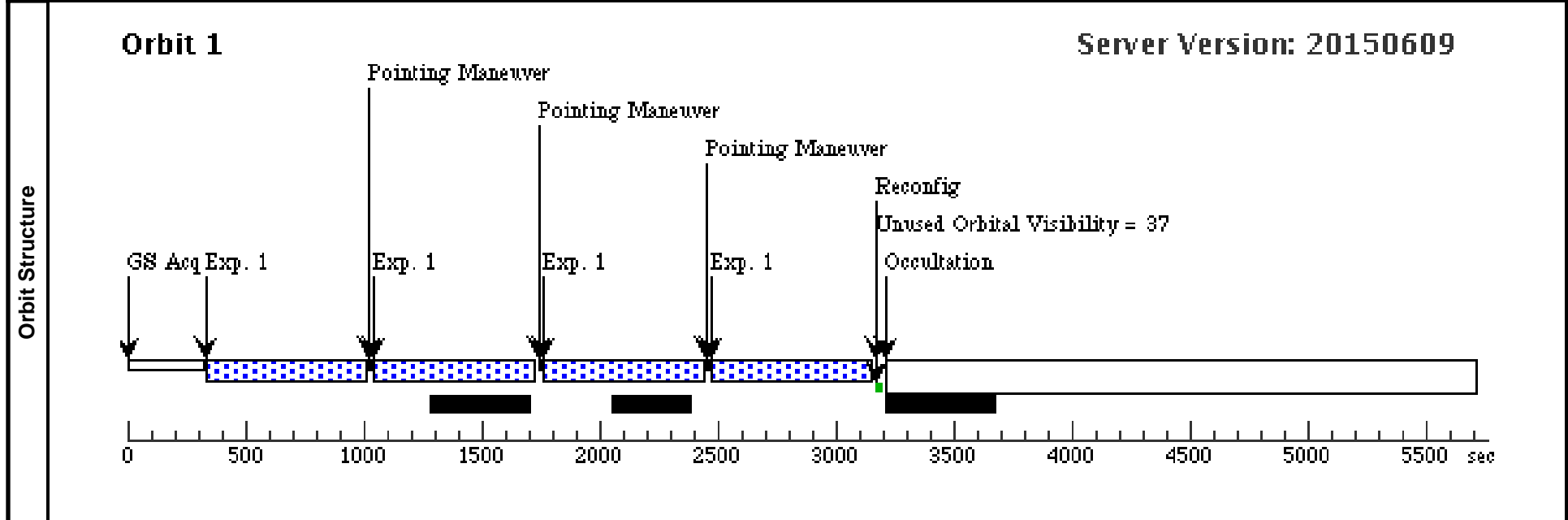


Visit	Proposal 14122, Q0310-IR_F105 (07), implementation		
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 291D TO 311 D; ORIENT 111D TO 131 D; ORIENT 21D TO 41 D; ORIENT 201D TO 221 D <i>Comments: Target PA = 77 deg. Imparct param < 3.8 arcsec</i>		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	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)	SDSS-J031036.84+005521.7 Alt Name1: Q0310+0055	RA: 03 10 36.8506 (47.6535442d) Dec: +00 55 21.73 (.92270d) Equinox: J2000	Redshift: 3.78	V=19.7+/-0.1	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Q0310-IR_F105_long	(6) SDSS-J031036.84+005521.7	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=14; SAMP-SEQ=SPAR S50			Pattern 2, Exps 1-1 in Q0310-IR_F105 (07) (2)	652.938154 Secs (2611.753 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]

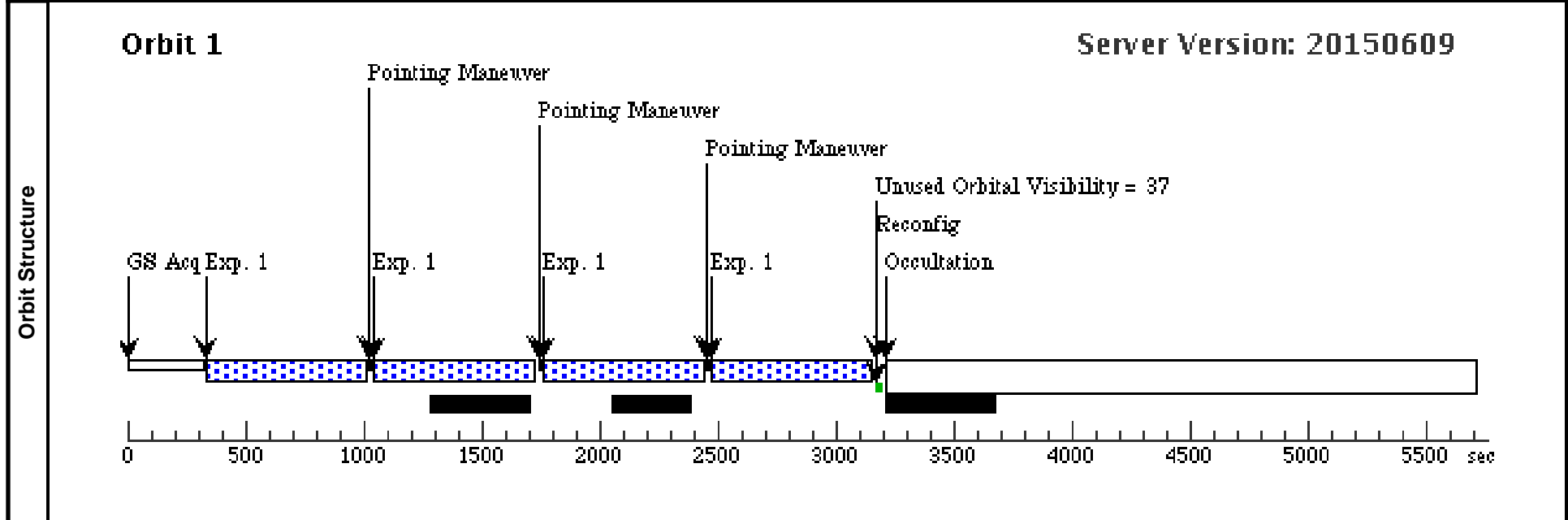


Visit	Proposal 14122, Q0310-IR_F160 (08), implementation		
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 291D TO 311 D; ORIENT 111D TO 131 D; ORIENT 21D TO 41 D; ORIENT 201D TO 221 D <i>Comments: Target PA = 77 deg. Imparct param ~< 3.8 arcsec</i>		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	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
	(6)	SDSS-J031036.84+005521.7 Alt Name1: Q0310+0055	RA: 03 10 36.8506 (47.6535442d) Dec: +00 55 21.73 (.92270d) Equinox: J2000	Redshift: 3.78	V=19.7+/-0.1	Reference Frame: ICRS

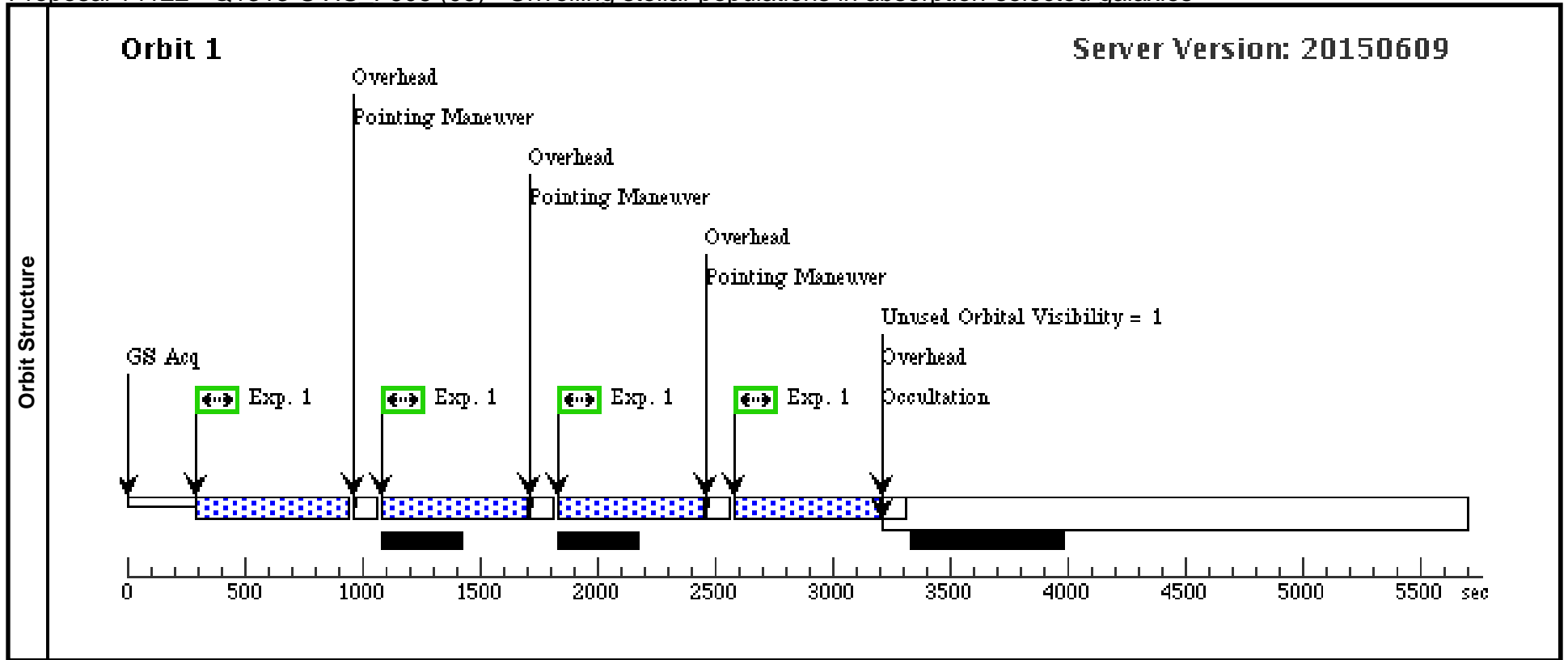
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Q0310-IR_F160_long	(6) SDSS-J031036.84+005521.7	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=14; SAMP-SEQ=SPAR S50		Pattern 2, Exps 1-1 in Q0310-IR_F160 (08) (2)	652.938154 Secs (2611.753 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]



Proposal 14122 - Q1313-UVIS F606 (09) - Unveiling stellar populations in absorption-selected galaxies

Fri Jul 24 01:45:14 GMT 2015

Visit	Proposal 14122, Q1313-UVIS_F606 (09), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 271D TO 291 D; ORIENT 91D TO 111 D Comments: Target PA =60. Impact parameter = 0.7 arcsec									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	SDSS-J131341.19+144140.5 Alt Name1: Q1313+1441	RA: 13 13 41.1984 (198.4216600d) Dec: +14 41 40.60 (14.69461d) Equinox: J2000	Redshift: 1.89	V=18.2+/-0.1 i: 17.98 +/-0.02	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Q1313-UVIS_long	(9) SDSS-J131341.19+144140.5	WFC3/UVIS, ACCUM, UVIS	F606W			Pattern 1, Exps 1-1 in Q1313-UVIS_F606 (09) (1)	623 Secs (2492 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]

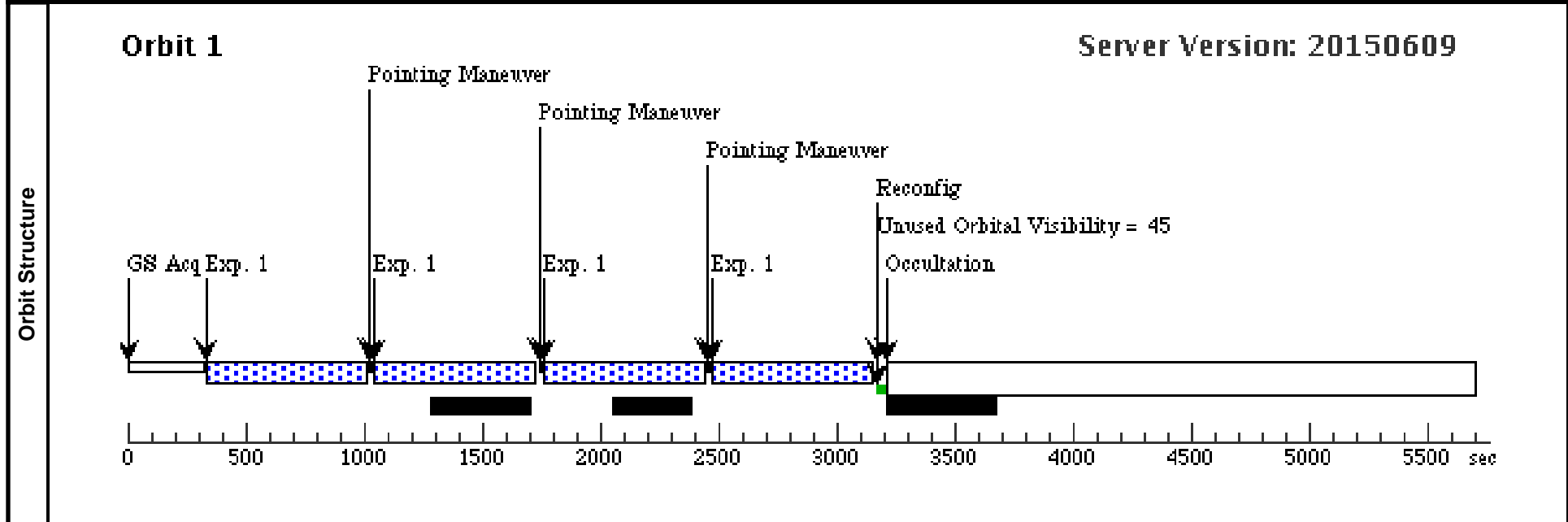


Visit	Proposal 14122, Q1313-IR_F105 (10), implementation		
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 274D TO 294 D; ORIENT 94D TO 114 D; ORIENT 4D TO 24 D; ORIENT 184D TO 204 D <i>Comments: Target PA =60. Impact parameter = 0.7 arcsec</i>		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	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
	(9)	SDSS-J131341.19+144140.5 Alt Name1: Q1313+1441	RA: 13 13 41.1984 (198.4216600d) Dec: +14 41 40.60 (14.69461d) Equinox: J2000	Redshift: 1.89	V=18.2+/-0.1 i: 17.98 +/-0.02	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Q1313-IR_F105_long	(9) SDSS-J131341.19+144140.5	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=14; SAMP-SEQ=SPAR S50		Pattern 2, Exps 1-1 in Q1313-IR_F105 (10) (2)	652.938154 Secs (2611.753 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]



Proposal 14122 - Q1313-IR F160 (11) - Unveiling stellar populations in absorption-selected galaxies

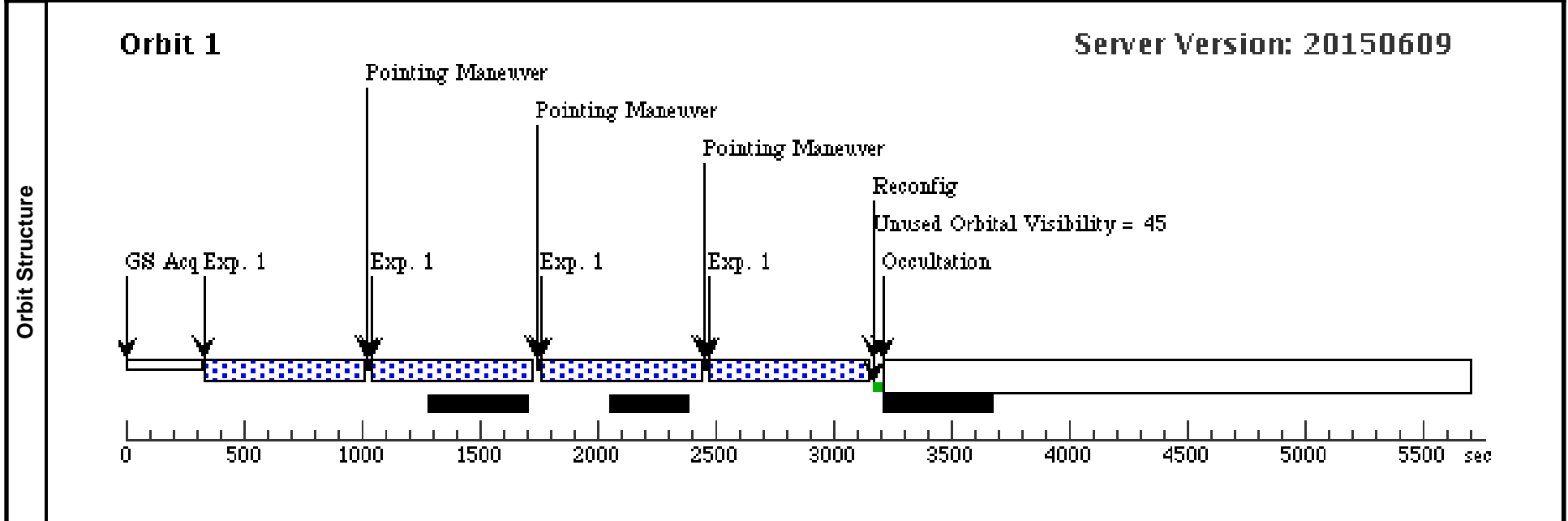
Fri Jul 24 01:45:14 GMT 2015

Visit	Proposal 14122, Q1313-IR_F160 (11), implementation		
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 274D TO 294 D; ORIENT 94D TO 114 D; ORIENT 4D TO 24 D; ORIENT 184D TO 204 D <i>Comments: Target PA =60. Impact parameter = 0.7 arcsec</i>		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	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
	(9)	SDSS-J131341.19+144140.5 Alt Name1: Q1313+1441	RA: 13 13 41.1984 (198.4216600d) Dec: +14 41 40.60 (14.69461d) Equinox: J2000	Redshift: 1.89	V=18.2+/-0.1 i: 17.98 +/-0.02	Reference Frame: ICRS

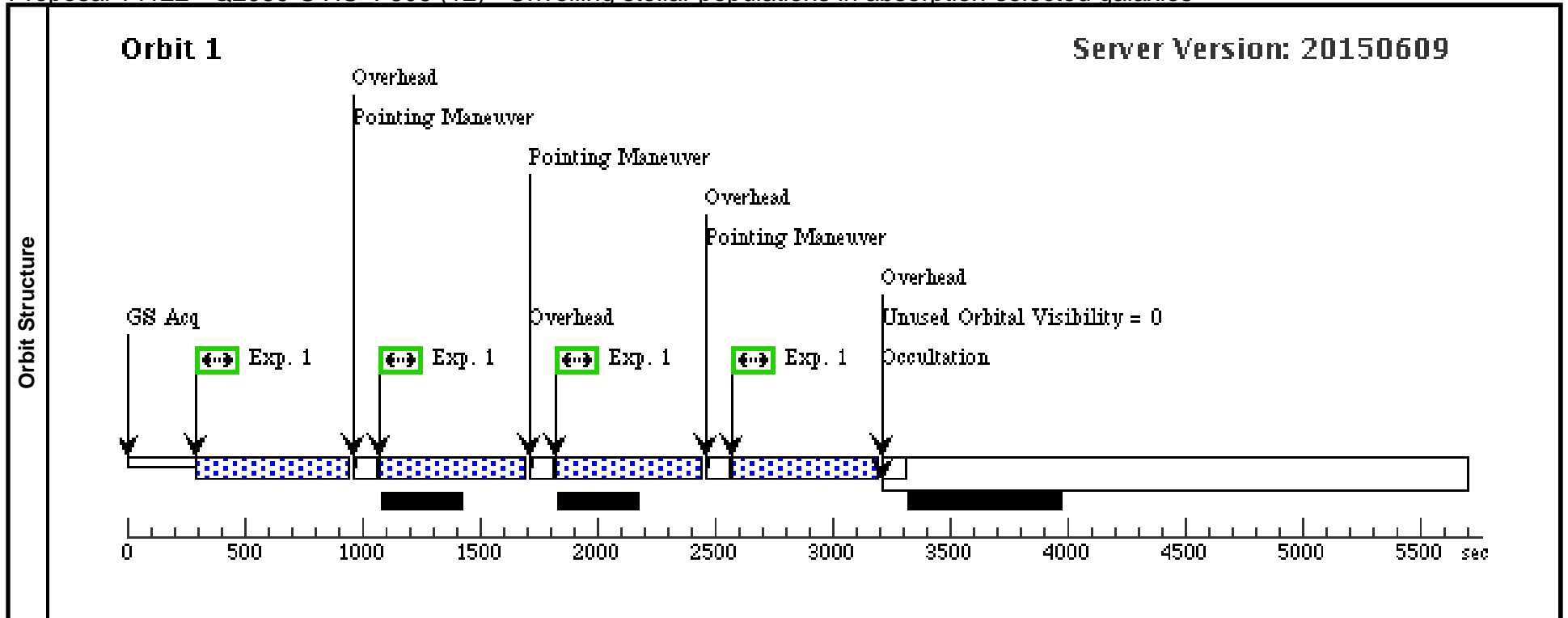
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Q1313-IR_F160_long	(9) SDSS-J131341.19+144140.5	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=14; SAMP-SEQ=SPAR S50		Pattern 2, Exps 1-1 in Q1313-IR_F160 (1) (2)	652.938154 Secs (2611.753 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]



Proposal 14122 - Q2059-UVIS F606 (12) - Unveiling stellar populations in absorption-selected galaxies

Fri Jul 24 01:45:14 GMT 2015

Visit	Proposal 14122, Q2059-UVIS_F606 (12), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 271D TO 291 D; ORIENT 91D TO 111 D <i>Comments: Target PA = 60, impact parameter = 0.7 arcsec</i>									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	SDSS-J205922.42-052842.7 Alt Name1: Q2059-0528	RA: 20 59 22.4302 (314.8434592d) Dec: -05 28 42.83 (-5.47856d) Equinox: J2000	Redshift: 2.54	V=19.01+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Q2059-UVIS_long	(10) SDSS-J205922.42-052842.7	WFC3/UVIS, ACCUM, UVIS	F606W			Pattern 1, Exps 1-1 in Q2059-UVIS_F606 (12) (1)	622 Secs (2488 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 14122 - Q2059-IR F105 (13) - Unveiling stellar populations in absorption-selected galaxies

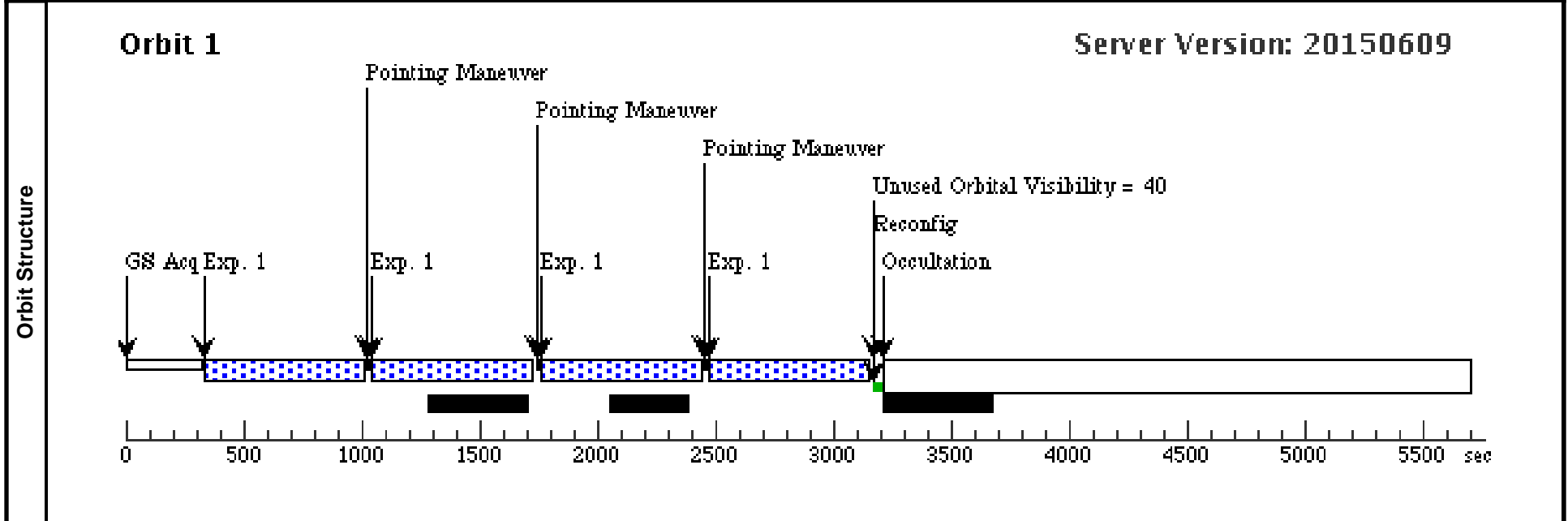
Fri Jul 24 01:45:14 GMT 2015

Visit	Proposal 14122, Q2059-IR_F105 (13), implementation		
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 274D TO 294 D; ORIENT 94D TO 114 D; ORIENT 4D TO 24 D; ORIENT 184D TO 204 D <i>Comments: Target PA = 60, impact parameter = 0.7 arcsec</i>		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	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
	(10)	SDSS-J205922.42-052842.7 Alt Name1: Q2059-0528	RA: 20 59 22.4302 (314.8434592d) Dec: -05 28 42.83 (-5.47856d) Equinox: J2000	Redshift: 2.54	V=19.01+/-0.1	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Q2059-IR_F105_long	(10) SDSS-J205922.42-052842.7	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=14; SAMP-SEQ=SPAR S50		Pattern 2, Exps 1-1 in Q2059-IR_F105 (13) (2)	652.938154 Secs (2611.753 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]

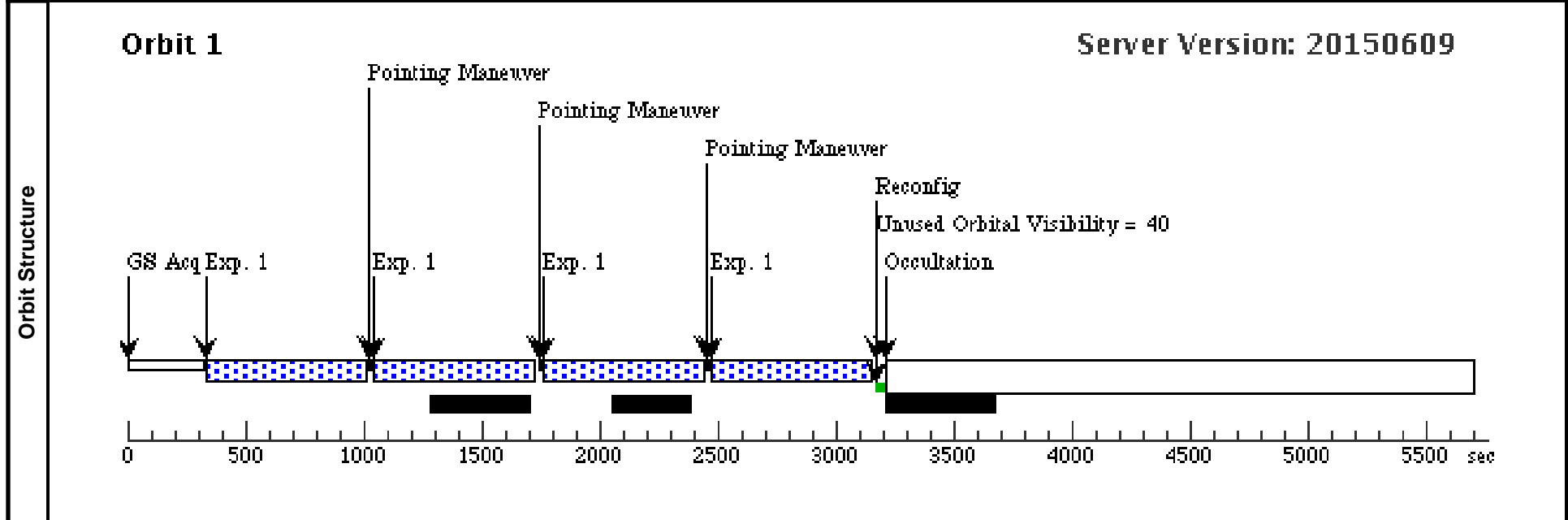


Visit	Proposal 14122, Q2059-IR_F160 (14), implementation		
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 274D TO 294 D; ORIENT 94D TO 114 D; ORIENT 4D TO 24 D; ORIENT 184D TO 184 D <i>Comments: Target PA = 60, impact parameter = 0.7 arcsec</i>		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	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
	(10)	SDSS-J205922.42-052842.7 Alt Name1: Q2059-0528	RA: 20 59 22.4302 (314.8434592d) Dec: -05 28 42.83 (-5.47856d) Equinox: J2000	Redshift: 2.54	V=19.01+/-0.1	Reference Frame: ICRS

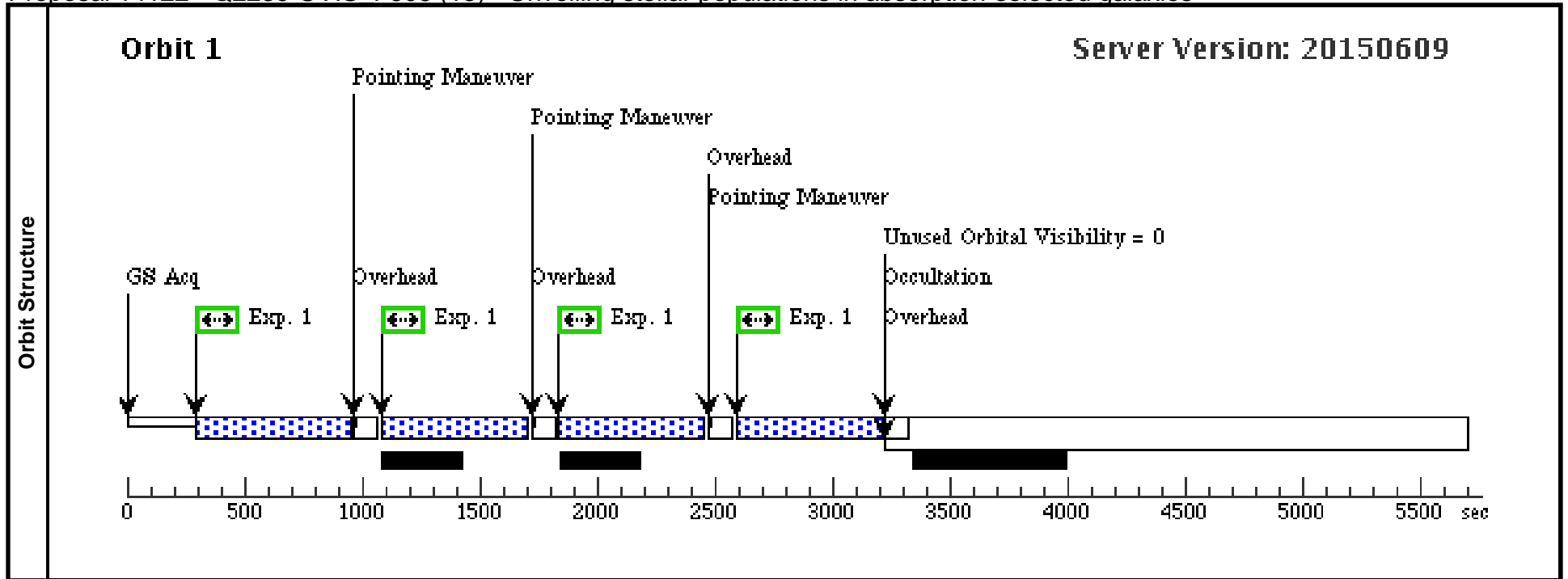
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Q2059-IR_F160_long	(10) SDSS-J205922.42-052842.7	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=14; SAMP-SEQ=SPAR S50		Pattern 2, Exps 1-1 in Q2059-IR_F160 (14) (2)	652.938154 Secs (2611.753 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]



Proposal 14122 - Q2239-UVIS F606 (15) - Unveiling stellar populations in absorption-selected galaxies

Fri Jul 24 01:45:14 GMT 2015

Visit	Proposal 14122, Q2239-UVIS_F606 (15), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 201D TO 221 D; ORIENT 21D TO 41 D <i>Comments: Target PA =-10, impact parameter = 2.4 arcsec</i>									
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures
(1)		Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112		Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false					(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(8)	SDSS-J223941.8-294955 Alt Name1: Q2239-2949	RA: 22 39 41.7573 (339.9239888d) Dec: -29 49 54.54 (-29.83182d) Equinox: J2000		Redshift: 2.1		V=19.3+/-0.1		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Q2239-UVI S_long	(8) SDSS-J223941.8-294955	WFC3/UVIS, ACCUM, UVIS	F606W			Pattern 1, Exps 1-1 in Q2239-UVIS_F606 (15) (1)	626 Secs (2504 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]



Proposal 14122 - Q2239-IR F105 (16) - Unveiling stellar populations in absorption-selected galaxies

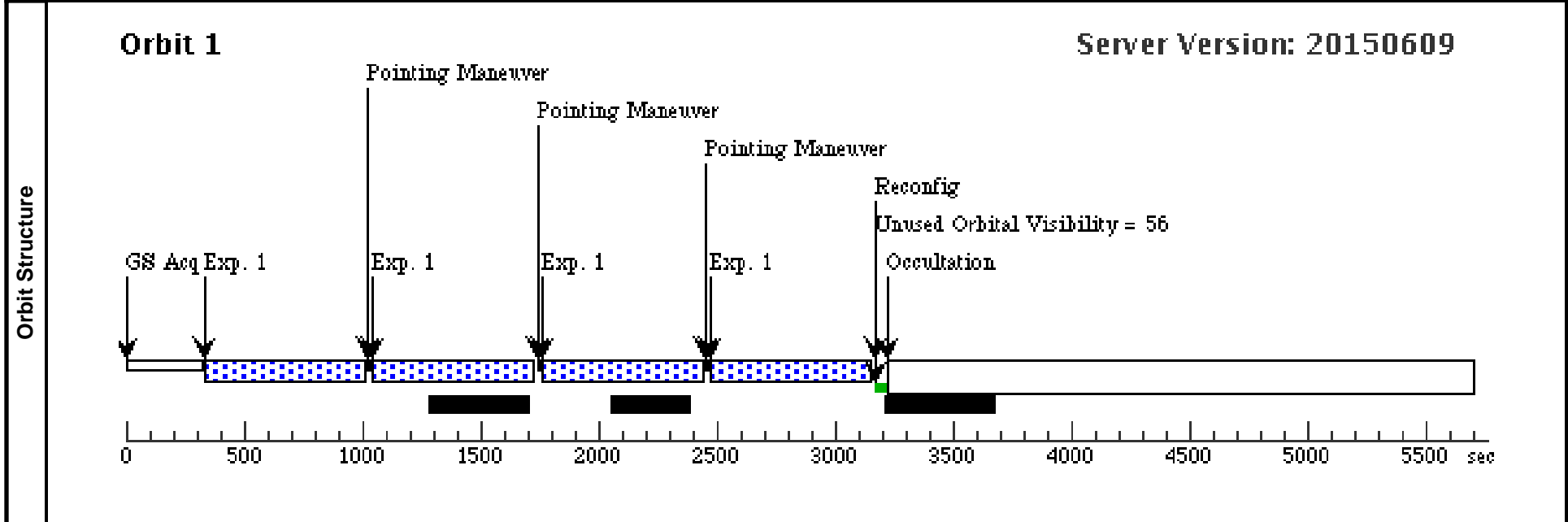
Fri Jul 24 01:45:14 GMT 2015

Visit	Proposal 14122, Q2239-IR_F105 (16), implementation		
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 204D TO 224 D; ORIENT 24D TO 44 D; ORIENT 114D TO 134 D; ORIENT 294D TO 314 D <i>Comments: Target PA = -10, impact parameter = 2.4 arcsec</i>		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	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)	SDSS-J223941.8-294955	RA: 22 39 41.7573 (339.9239888d) Dec: -29 49 54.54 (-29.83182d) Equinox: J2000	Redshift: 2.1	V=19.3+/-0.1	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Q2239-IR_F105_long	(8) SDSS-J223941.8-294955	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=14; SAMP-SEQ=SPAR S50		Pattern 2, Exps 1-1 in Q2239-IR_F105 (16) (2)	652.938154 Secs (2611.753 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]

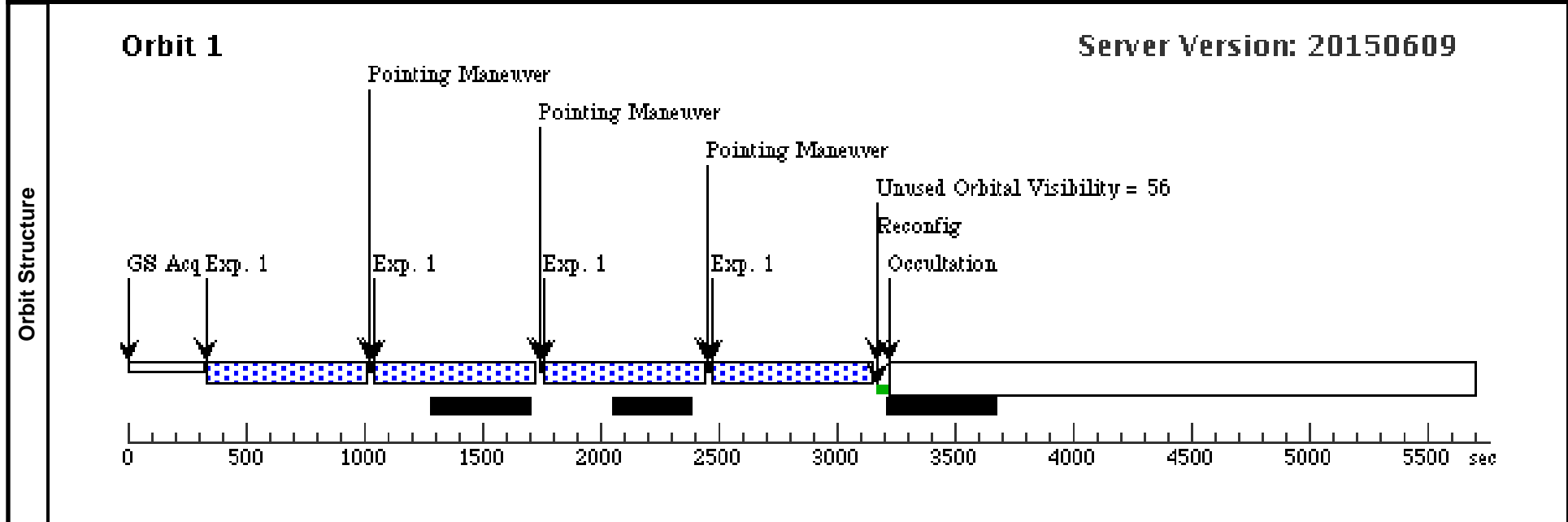


Visit	Proposal 14122, Q2239-IR_F160 (17), implementation		
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 204D TO 224 D; ORIENT 24D TO 44 D; ORIENT 114D TO 134 D; ORIENT 294D TO 314 D <i>Comments: Target PA = -10, impact parameter = 2.4 arcsec</i>		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(2)	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)	SDSS-J223941.8-294955 Alt Name1: Q2239-2949	RA: 22 39 41.7573 (339.9239888d) Dec: -29 49 54.54 (-29.83182d) Equinox: J2000	Redshift: 2.1	V=19.3+/-0.1	Reference Frame: ICRS

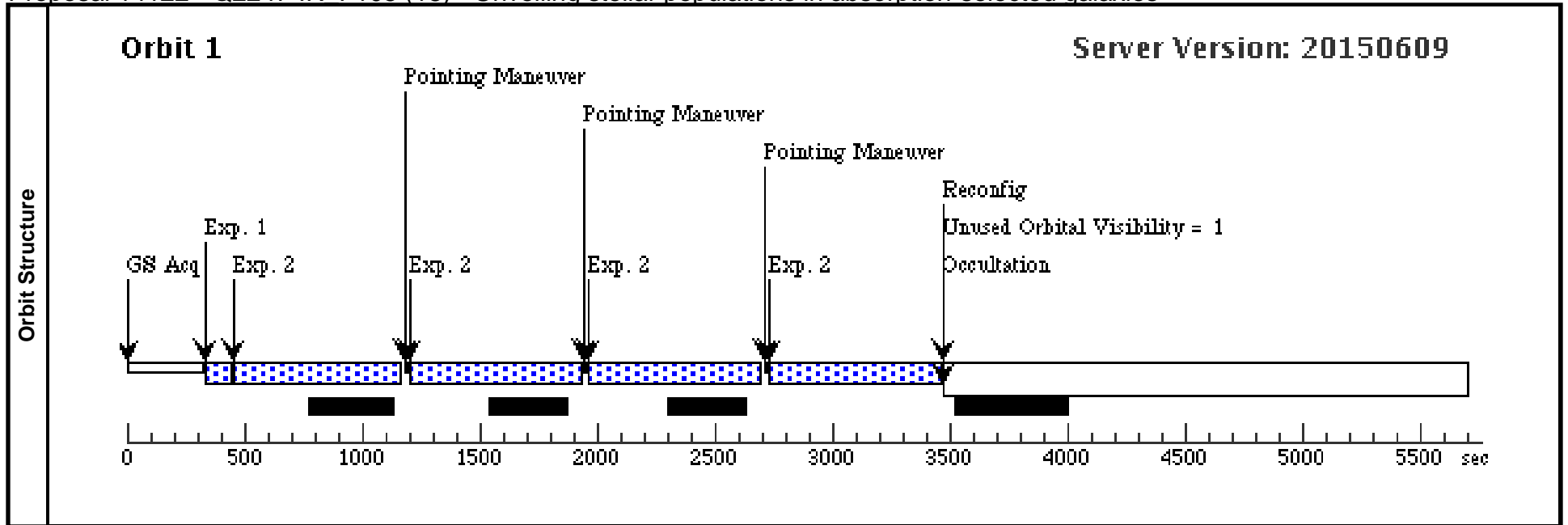
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Q2239-IR_F160_long	(8) SDSS-J223941.8-294955	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=14; SAMP-SEQ=SPAR S50		Pattern 2, Exps 1-1 in Q2239-IR_F160 (17) (2)	652.938154 Secs (2611.753 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]



Proposal 14122 - Q2247-IR F105 (18) - Unveiling stellar populations in absorption-selected galaxies

Fri Jul 24 01:45:15 GMT 2015

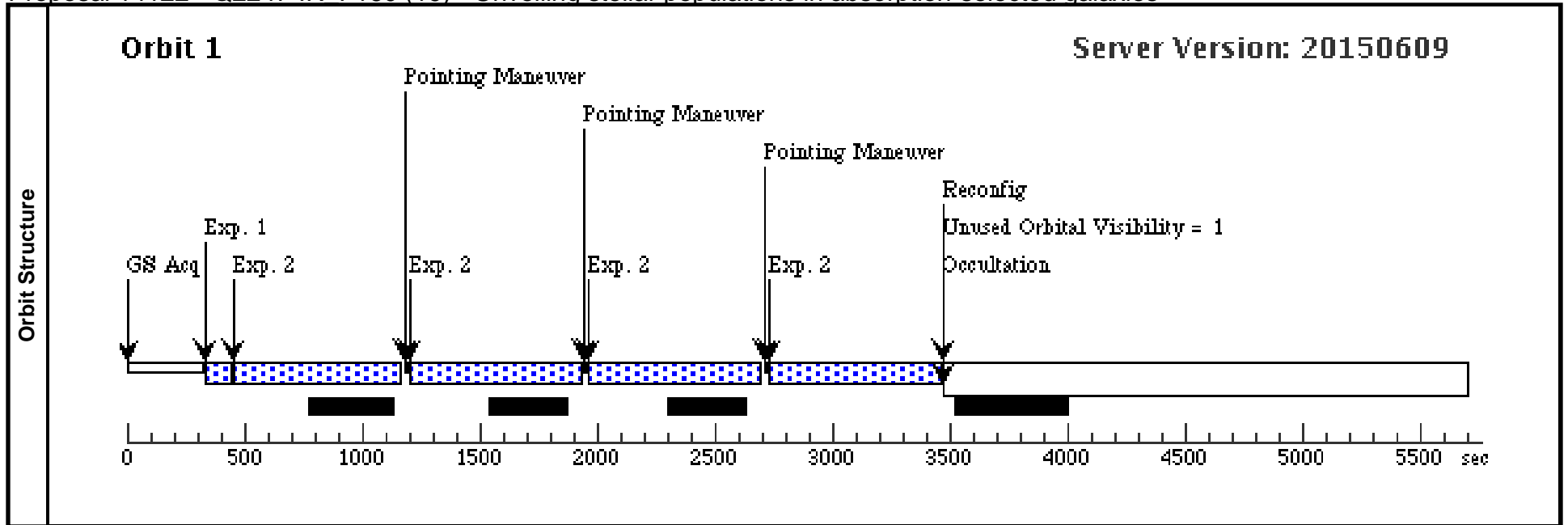
Visit	Proposal 14122, Q2247-IR_F105 (18), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 254D TO 284 D; ORIENT 74D TO 104 D; ORIENT 164D TO 194 D; ORIENT 344D TO 14 D <i>Comments: Target PA = -135, impact parameter = 3.0 arcsec</i>									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(2)	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		(2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	HE2243-60 Alt Name1: Q2247-6015	RA: 22 47 8.8500 (341.7868750d) Dec: -60 15 46.90 (-60.26303d) Equinox: J2000	Redshift: 3.01	V=16.3+/-0.1 R=16.1, J=15.0, H=14.7 (2MASS)	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Q2247_F105W_short	(3) HE2243-60	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=9; SAMP-SEQ=SPAR S10			82.939995 Secs (82.94 Secs) [==>]	[1]
	2	Q2247-IR_F105_long	(3) HE2243-60	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=15; SAMP-SEQ=SPAR S50		Pattern 2, Exps 2-2 in Q2247-IR_F105 (18) (2)	702.938605 Secs (2811.754 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Proposal 14122 - Q2247-IR F160 (19) - Unveiling stellar populations in absorption-selected galaxies

Fri Jul 24 01:45:15 GMT 2015

Visit	Proposal 14122, Q2247-IR_F160 (19), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 254D TO 284 D; ORIENT 74D TO 104 D; ORIENT 164D TO 194 D; ORIENT 344D TO 14 D Comments: Target PA = -135, impact parameter = 3.0 arcsec									
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures
(2)		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						(2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(3)	HE2243-60 Alt Name1: Q2247-6015	RA: 22 47 8.8500 (341.7868750d) Dec: -60 15 46.90 (-60.26303d) Equinox: J2000	Redshift: 3.01		V=16.3+/-0.1 R=16.1, J=15.0, H=14.7 (2MASS)		Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) HE2243-60	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=9; SAMP-SEQ=SPAR S10			82.939995 Secs (82.94 Secs) [==>]	[1]
	2	Q2247-IR_F 160_long	(3) HE2243-60	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=15; SAMP-SEQ=SPAR S50		Pattern 2, Exps 2-2 in Q2247-IR_F160 (19) (2)	702.938605 Secs (2811.754 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]



Visit	Proposal 14122, Q2247-UVIS_F606 (20), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 251D TO 281 D; ORIENT 71D TO 101 D Comments: Target PA = -135, impact parameter = 3.0 arcsec		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false	(2)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	HE2243-60 Alt Name1: Q2247-6015	RA: 22 47 8.8500 (341.7868750d) Dec: -60 15 46.90 (-60.26303d) Equinox: J2000	Redshift: 3.01	V=16.3+/-0.1 R=16.1, J=15.0, H=14.7 (2MASS)	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	Q2243_UVI S_short	(3) HE2243-60	WFC3/UVIS, ACCUM, UVIS	F606W	FLASH=10			30 Secs (30 Secs)	
	2	Q2243_UVI S_long	(3) HE2243-60	WFC3/UVIS, ACCUM, UVIS	F606W			Pattern 1, Exps 2-2 in Q2247-UVIS_F606 (20) (1)	646 Secs (2584 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]

