



14620 - QSO and Galaxy Growth Probed by Faint Ly α -Emitters

Cycle: 24, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(2) Q2343-CENTER	WFC3/IR	1	09-Nov-2016 11:26:36.0	yes
02	(2) Q2343-CENTER	WFC3/IR	1	09-Nov-2016 11:26:37.0	yes
03	(2) Q2343-CENTER	WFC3/IR	1	09-Nov-2016 11:26:38.0	yes
04	(2) Q2343-CENTER	WFC3/IR	1	09-Nov-2016 11:26:39.0	yes
05	(2) Q2343-CENTER	WFC3/IR	1	09-Nov-2016 11:26:39.0	yes
06	(2) Q2343-CENTER	WFC3/IR	1	09-Nov-2016 11:26:40.0	yes
07	(2) Q2343-CENTER	WFC3/IR	1	09-Nov-2016 11:26:41.0	yes
08	(2) Q2343-CENTER	WFC3/IR	1	09-Nov-2016 11:26:41.0	yes
09	(2) Q2343-CENTER	WFC3/IR	1	09-Nov-2016 11:26:42.0	yes
10	(2) Q2343-CENTER	WFC3/IR	1	09-Nov-2016 11:26:43.0	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	(2) Q2343-CENTER	WFC3/IR	1	09-Nov-2016 11:26:43.0	yes
12	(2) Q2343-CENTER	WFC3/IR	1	09-Nov-2016 11:26:44.0	yes
13	(2) Q2343-CENTER	WFC3/IR	1	09-Nov-2016 11:26:44.0	yes
14	(2) Q2343-CENTER	WFC3/IR	1	09-Nov-2016 11:26:45.0	yes
15	(2) Q2343-CENTER	WFC3/IR	1	09-Nov-2016 11:26:46.0	yes
16	(2) Q2343-CENTER	WFC3/IR	1	09-Nov-2016 11:26:46.0	yes
17	(2) Q2343-CENTER	WFC3/IR	1	09-Nov-2016 11:26:47.0	yes
18	(2) Q2343-CENTER	WFC3/IR	1	09-Nov-2016 11:26:48.0	yes
19	(2) Q2343-CENTER	WFC3/IR	1	09-Nov-2016 11:26:48.0	yes
20	(2) Q2343-CENTER	WFC3/IR	1	09-Nov-2016 11:26:49.0	yes

20 Total Orbits Used

ABSTRACT

We propose deep imaging of the stellar continuum of 84 faint Lyman-alpha-emitting galaxies (LAEs) surrounding a hyperluminous QSO at $z=2.57$. We have shown that these QSOs boost the Lyman-alpha emission of their nearby galaxies (a process known as fluorescence), allowing the direct characterization of the QSO ionizing field and the potential detection of galaxies independently of their stellar luminosities. However, the relative contributions of stellar and fluorescent Lyman-alpha emission are currently masked by the poorly-constrained stellar populations of these faint galaxies ($R \sim 27$; $\log(M^*) \sim 8-9.5$; $L \sim 0.1 L^*$). Unlike typical broadband filters, the WFC3 F140W passband samples the stellar continuum at this redshift with minimal contamination by bright emission lines, and these wide-field images will allow us to map the stellar contribution to total luminosity out to large QSO-centric radii. Faint LAEs also exhibit characteristics that vastly expand the parameter space of galaxies selected by continuum colors alone: LAEs have weaker outflowing winds, less optically-thick gas, and a higher escape fraction of UV photons than continuum-selected galaxies. Robust measurements of the stellar masses and sizes of these galaxies are essential for understanding the efficiency and scaling of stellar feedback, star formation, and ionizing photon emission at low galaxy masses, and their morphologies will reveal how this feedback affects galaxy-scale structures and the observed anisotropic distributions of escaping gas and photons. Comparison to 182 continuum-selected galaxies ($z \sim 2-3$) in the same field will reveal these properties as a function of stellar mass and galaxy structure.

OBSERVING DESCRIPTION

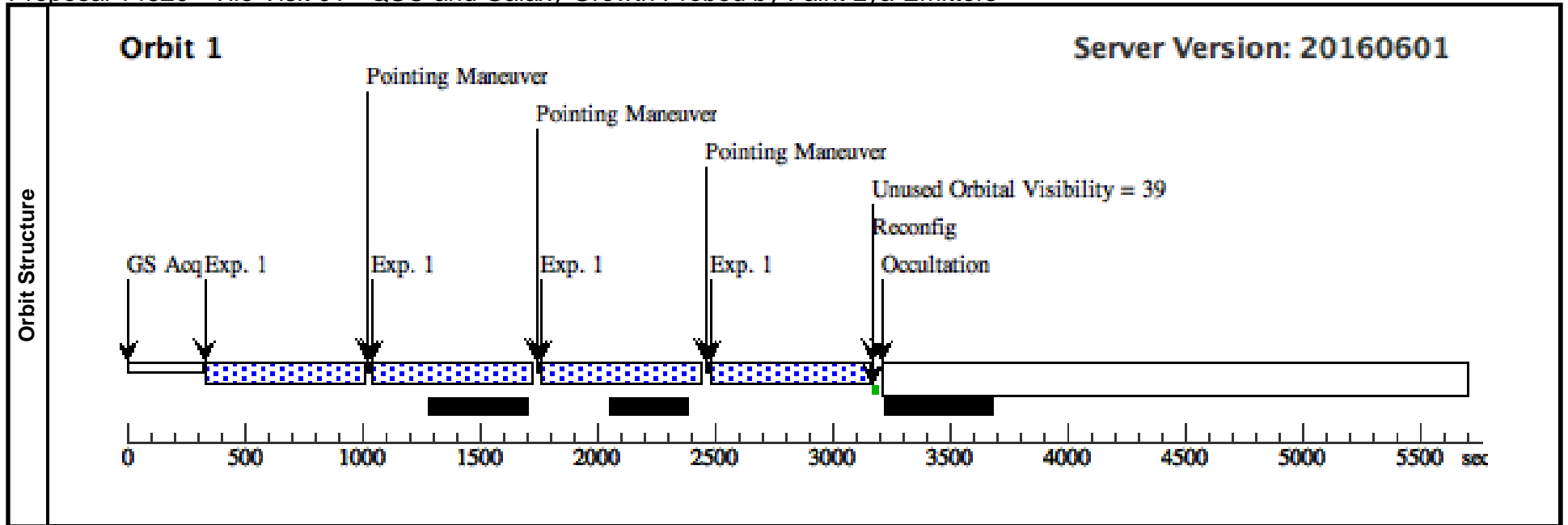
We have proposed mosaiced imaging with the F140W filter, corresponding to rest-frame optical wavelengths ~ 4000 Å at the typical redshift of our narrowband-selected LAEs ($z = 2.57$). Our objective is to obtain high-resolution images of the stellar continuum emission, so we request 4 dithered exposures at each pointing in order to maximize the sampling of the PSF and the resulting resolution. We have estimated that the typical LAE in our sample has an AB magnitude $H \sim 26.5$ by stacking ground-based images of individual objects based on the location of their detected Ly-alpha emission. Previous deep imaging with WFC3/F160W in portions of the KBSS fields demonstrates that the typical sizes of the LAEs are 0.1-0.8" in diameter. In order to measure morphologies, we desire to reach $S/N > 5$ per 0.2" square region ($\sim 5 \times 5$ pixels), which requires ~ 5500 seconds divided into 4 four dithered exposures according to the HST/WFC3 ETC. Our field has a visibility of 54 minutes per orbit, so we request two orbits per pointing to fulfill these requirements. This exposure time is sufficient to set a 3-sigma limit of 28.15 mag (AB) for undetected point sources.

We request a total of 10 pointings to obtain a mosaic covering the entire field, including 84 LAEs and 182 LBGs. This request stems from a desire to 1) sample the full range of QSO-centric projected radii and ionizing field strengths, and 2) capture a census of the diverse LAE sizes, stellar masses, and morphologies in order to correlate these quantities with parameters derived from spectra and ground-based imaging. These requirements set our total request of 20 orbits.

Proposal 14620 - Tile Visit 01 - QSO and Galaxy Growth Probed by Faint Lya-Emitters

Wed Nov 09 16:26:50 GMT 2016

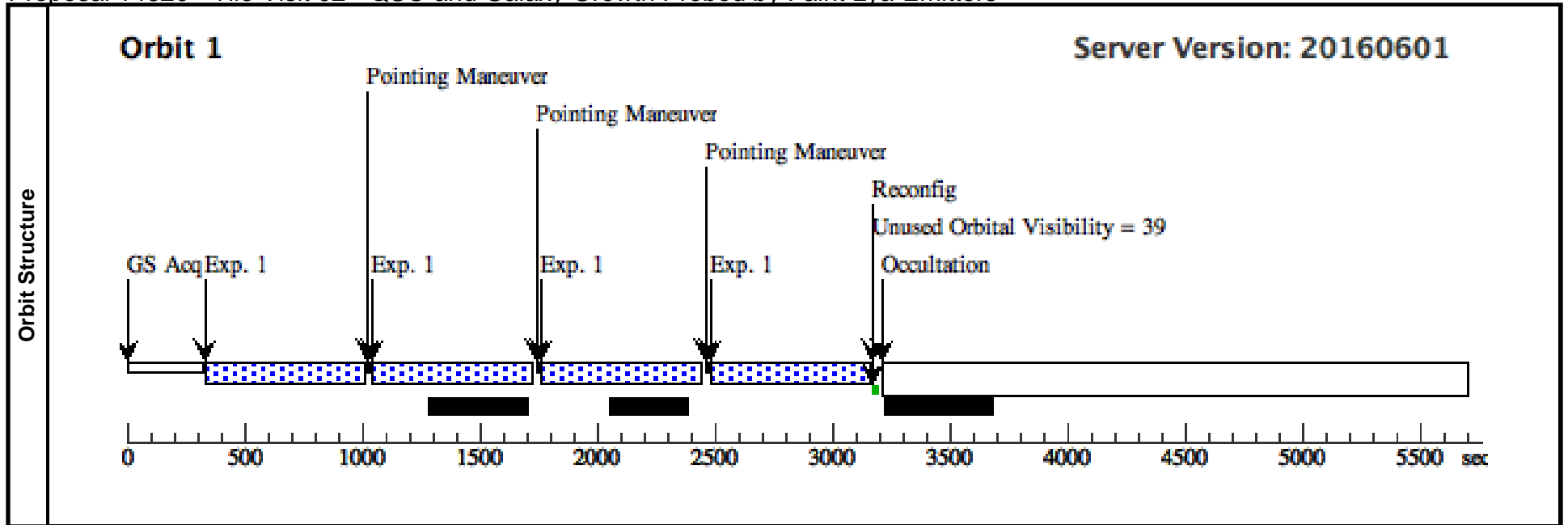
Visit	Proposal 14620, Tile Visit 01, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: ORIENT 120.0D TO 120.0 D									
	(Tile Visit 01) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Exposure 1 (Pattern 2, Exps 1-1 in Tile Visit 01) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(2)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	Q2343-CENTER	RA: 23 46 25.7975 (356.6074896d) Dec: +12 48 18.66 (12.80518d) Equinox: J2000		V=27+/-2 Objects have Lya line fluxes ~1e-17 erg/s/cm^2 (not in band); continuum magnitudes are mAB ~26-27. Two foreground stars have H=12.0 and 12.9 (Vega).	Reference Frame: ICRS				
<i>Comments: Foreground star H-band brightnesses are estimated from the 2MASS point source catalog.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) Q2343-CENTER	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -51.261 85999192509,-150.5 6171772883735	Pattern 2, Exps 1-1 in Tile Visit 01 (2)	652.938154 Secs (2611.753 Secs)	[=>(Pattern 1,1)] [=>(Pattern 1,2)] [=>(Pattern 2,1)] [=>(Pattern 2,2)]	[1]



Proposal 14620 - Tile Visit 02 - QSO and Galaxy Growth Probed by Faint Lya-Emitters

Wed Nov 09 16:26:50 GMT 2016

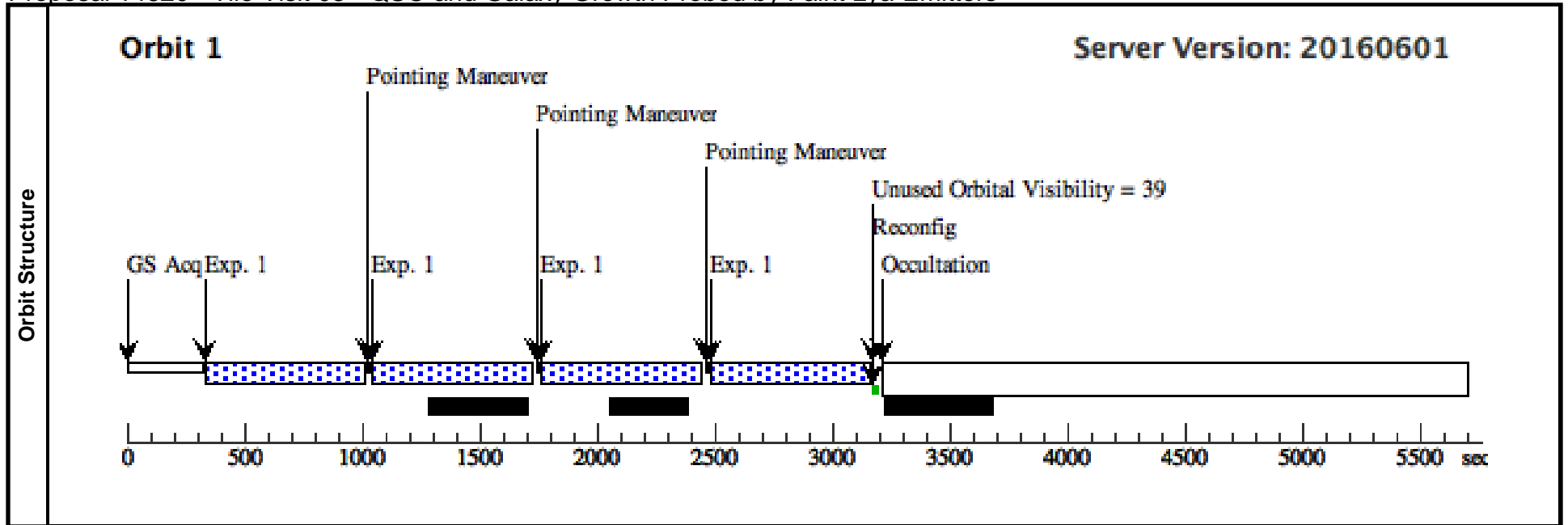
Visit	Proposal 14620, Tile Visit 02, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01									
	(Tile Visit 02) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Exposure 1 (Pattern 2, Exps 1-1 in Tile Visit 02) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	Q2343-CENTER	RA: 23 46 25.7975 (356.6074896d) Dec: +12 48 18.66 (12.80518d) Equinox: J2000		V=27+/-2 Objects have Lya line fluxes ~1e-17 erg/s/cm^2 (not in band); continuum magnitudes are mAB ~26-27. Two foreground stars have H=12.0 and 12.9 (Vega).	Reference Frame: ICRS				
<i>Comments: Foreground star H-band brightnesses are estimated from the 2MASS point source catalog.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) Q2343-CENTER	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG 55.6145 99999999996,-84.96 889571912658; GS ACQ SCENARI O BASE1B3	Pattern 2, Exps 1-1 in Tile Visit 02 (2)		652.938154 Secs (2611.753 Secs)	[1]
									[=>(Pattern 1,1)]	
									[=>(Pattern 1,2)]	
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									[=>(Pattern 2,2)]	



Proposal 14620 - Tile Visit 03 - QSO and Galaxy Growth Probed by Faint Lya-Emitters

Wed Nov 09 16:26:50 GMT 2016

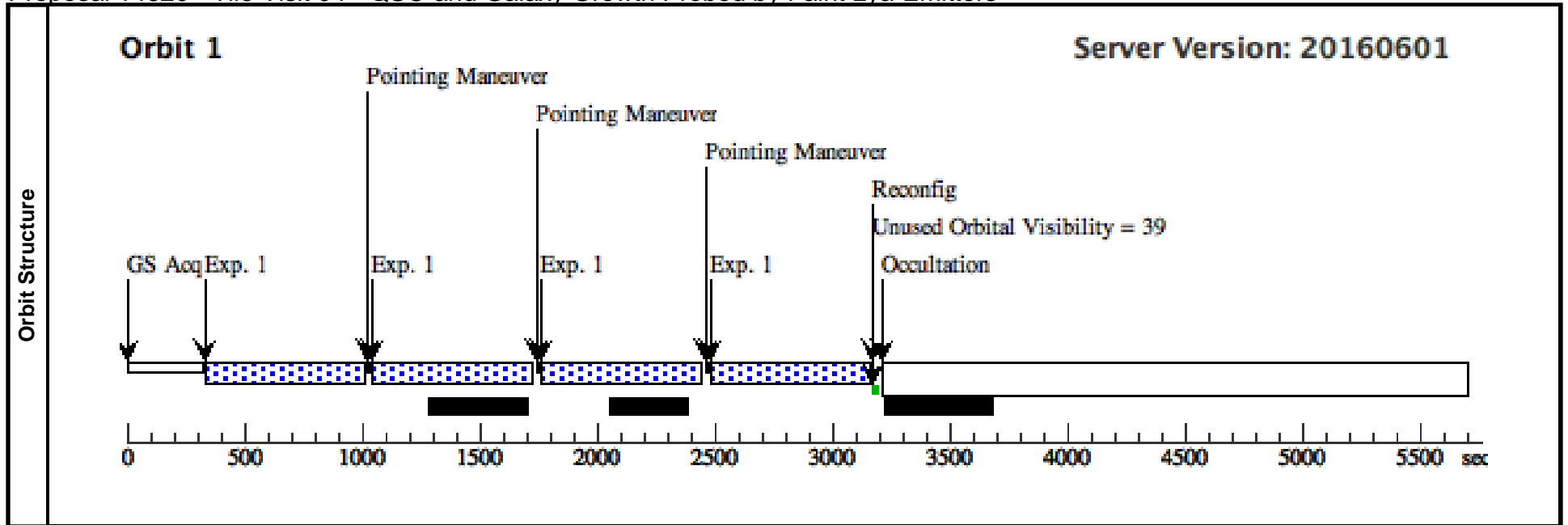
Visit	Proposal 14620, Tile Visit 03, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01									
	(Tile Visit 03) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Exposure 1 (Pattern 2, Exps 1-1 in Tile Visit 03) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(2)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	Q2343-CENTER	RA: 23 46 25.7975 (356.6074896d) Dec: +12 48 18.66 (12.80518d) Equinox: J2000		V=27+/-2 Objects have Lya line fluxes ~1e-17 erg/s/cm^2 (not in band); continuum magnitudes are mAB ~26-27. Two foreground stars have H=12.0 and 12.9 (Vega).	Reference Frame: ICRS				
<i>Comments: Foreground star H-band brightnesses are estimated from the 2MASS point source catalog.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) Q2343-CENTER	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG 149.819 90304454268,-42.00 872882048837	Pattern 2, Exps 1-1 in Tile Visit 03 (2)		652.938154 Secs (2611.753 Secs)	[1]
									[=>(Pattern 1,1)]	
									[=>(Pattern 1,2)]	
									[=>(Pattern 2,1)]	
									[=>(Pattern 2,2)]	



Proposal 14620 - Tile Visit 04 - QSO and Galaxy Growth Probed by Faint Lya-Emitters

Wed Nov 09 16:26:50 GMT 2016

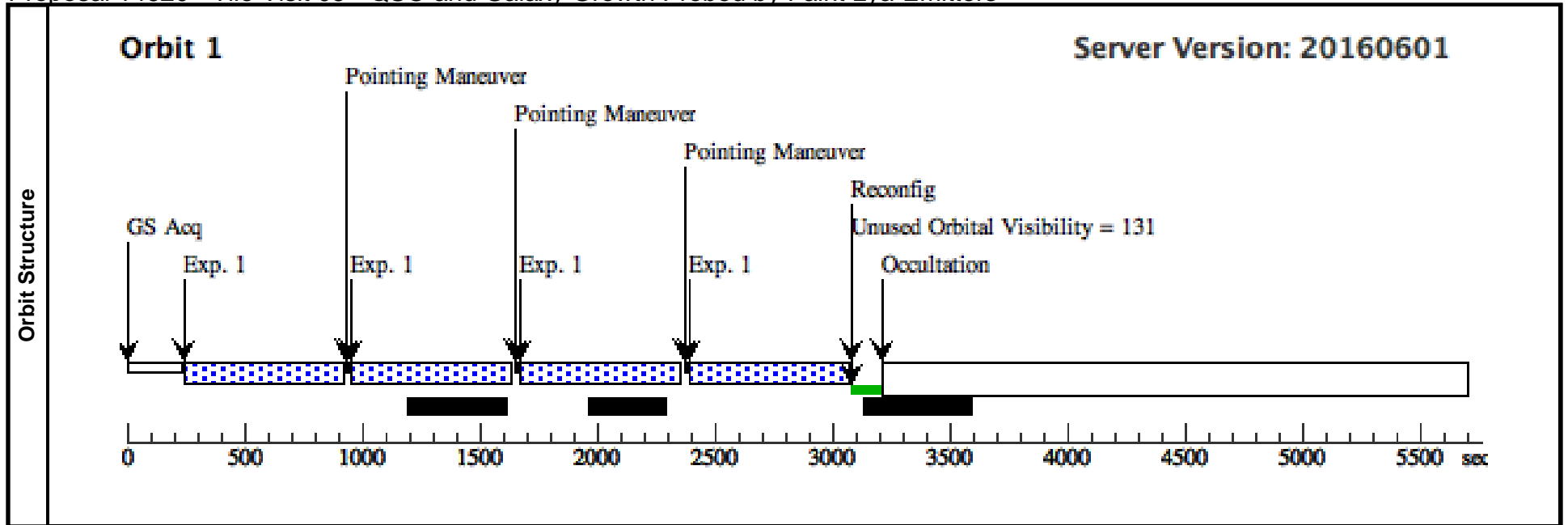
Visit	Proposal 14620, Tile Visit 04, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01									
	Diagnosics (Tile Visit 04) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Exposure 1 (Pattern 2, Exps 1-1 in Tile Visit 04) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Patterns	#	Primary Pattern		Secondary Pattern		Exposures				
	(2)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	Q2343-CENTER	RA: 23 46 25.7975 (356.6074896d) Dec: +12 48 18.66 (12.80518d) Equinox: J2000		V=27+/-2 Objects have Lya line fluxes ~1e-17 erg/s/cm^2 (not in band); continuum magnitudes are mAB ~26-27. Two foreground stars have H=12.0 and 12.9 (Vega).	Reference Frame: ICRS				
<i>Comments: Foreground star H-band brightnesses are estimated from the 2MASS point source catalog.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) Q2343-CENTER	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -166.84 38,-96.32731284262 005	Pattern 2, Exps 1-1 in Tile Visit 04 (2)	652.938154 Secs (2611.753 Secs)	[=>(Pattern 1,1)] [=>(Pattern 1,2)] [=>(Pattern 2,1)] [=>(Pattern 2,2)]	[1]



Proposal 14620 - Tile Visit 05 - QSO and Galaxy Growth Probed by Faint Lya-Emitters

Wed Nov 09 16:26:50 GMT 2016

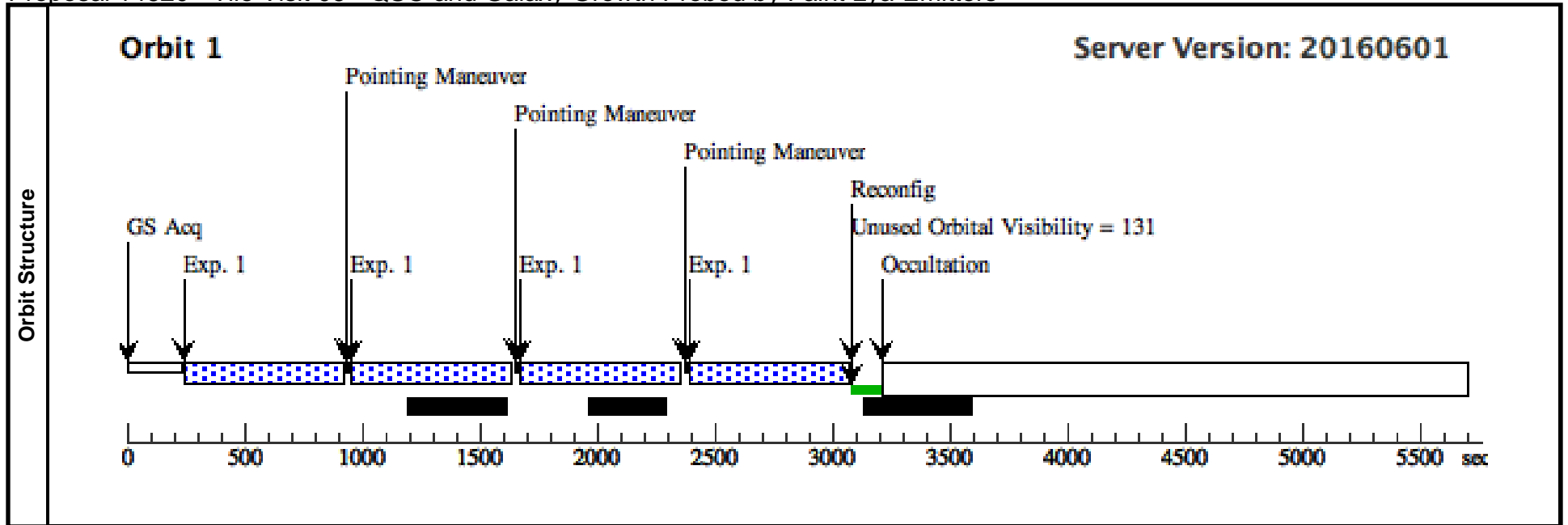
Visit	Proposal 14620, Tile Visit 05, scheduled Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01									
	(Exposure 1 (Pattern 2, Exps 1-1 in Tile Visit 05) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	Q2343-CENTER	RA: 23 46 25.7975 (356.6074896d) Dec: +12 48 18.66 (12.80518d) Equinox: J2000		V=27+/-2 Objects have Lya line fluxes ~1e-17 erg/s/cm^2 (not in band); continuum magnitudes are mAB ~26-27. Two foreground stars have H=12.0 and 12.9 (Vega).	Reference Frame: ICRS				
<i>Comments: Foreground star H-band brightnesses are estimated from the 2MASS point source catalog.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) Q2343-CENTER	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -55.614 599999999996,-32.1 0910428087334; GS ACQ SCENARI O SINGLE	Pattern 2, Exps 1-1 in Tile Visit 05 (2)	652.938154 Secs (2611.753 Secs)	[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)]	[1]



Proposal 14620 - Tile Visit 06 - QSO and Galaxy Growth Probed by Faint Ly α -Emitters

Wed Nov 09 16:26:50 GMT 2016

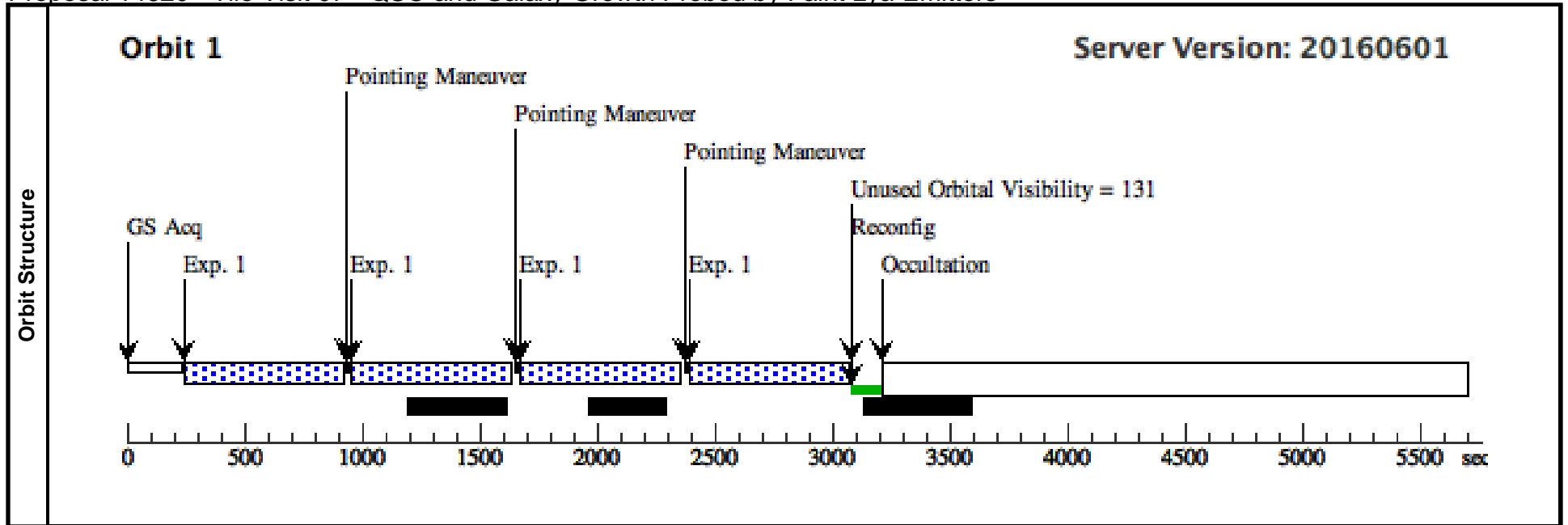
Visit	Proposal 14620, Tile Visit 06, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01									
	(Exposure 1 (Pattern 2, Exps 1-1 in Tile Visit 06) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	Q2343-CENTER	RA: 23 46 25.7975 (356.6074896d) Dec: +12 48 18.66 (12.80518d) Equinox: J2000		V=27+/-2 Objects have Ly α line fluxes ~1e-17 erg/s/cm ² (not in band); continuum magnitudes are mAB ~26-27. Two foreground stars have H=12.0 and 12.9 (Vega).	Reference Frame: ICRS				
<i>Comments: Foreground star H-band brightnesses are estimated from the 2MASS point source catalog.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) Q2343-CENTER	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG 55.6145 99999999996,32.109 10428087337; GS ACQ SCENARI O SINGLE	Pattern 2, Exps 1-1 in Tile Visit 06 (2)	652.938154 Secs (2611.753 Secs)	[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)]	[1]



Proposal 14620 - Tile Visit 07 - QSO and Galaxy Growth Probed by Faint Lya-Emitters

Wed Nov 09 16:26:50 GMT 2016

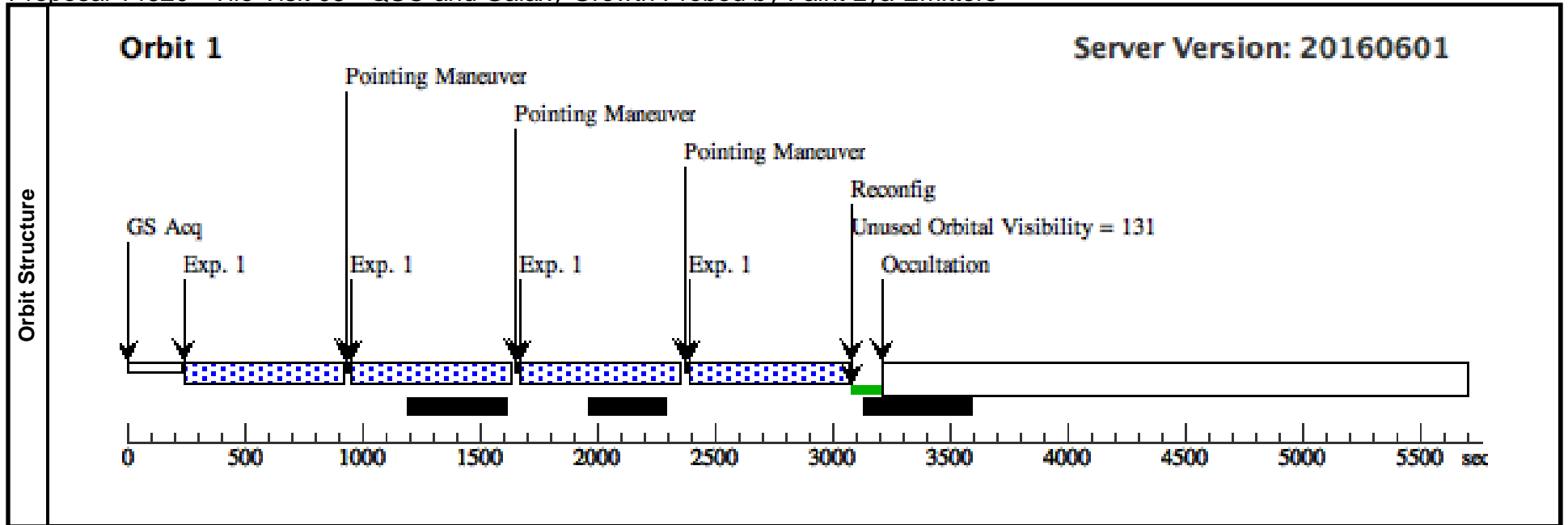
Visit	Proposal 14620, Tile Visit 07, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01									
	(Tile Visit 07) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Exposure 1 (Pattern 2, Exps 1-1 in Tile Visit 07) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	Q2343-CENTER	RA: 23 46 25.7975 (356.6074896d) Dec: +12 48 18.66 (12.80518d) Equinox: J2000		V=27+/-2 Objects have Lya line fluxes ~1e-17 erg/s/cm^2 (not in band); continuum magnitudes are mAB ~26-27. Two foreground stars have H=12.0 and 12.9 (Vega).	Reference Frame: ICRS				
<i>Comments: Foreground star H-band brightnesses are estimated from the 2MASS point source catalog.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) Q2343-CENTER		WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG 156.075 97307318312.77.389 34695841428; GS ACQ SCENARI O SINGLE	Pattern 2, Exps 1-1 in Tile Visit 07 (2)	652.938154 Secs (2611.753 Secs)	[1]
									[=>(Pattern 1,1)]	
									[=>(Pattern 1,2)]	
									[=>(Pattern 2,1)]	
									[=>(Pattern 2,2)]	



Proposal 14620 - Tile Visit 08 - QSO and Galaxy Growth Probed by Faint Lya-Emitters

Wed Nov 09 16:26:50 GMT 2016

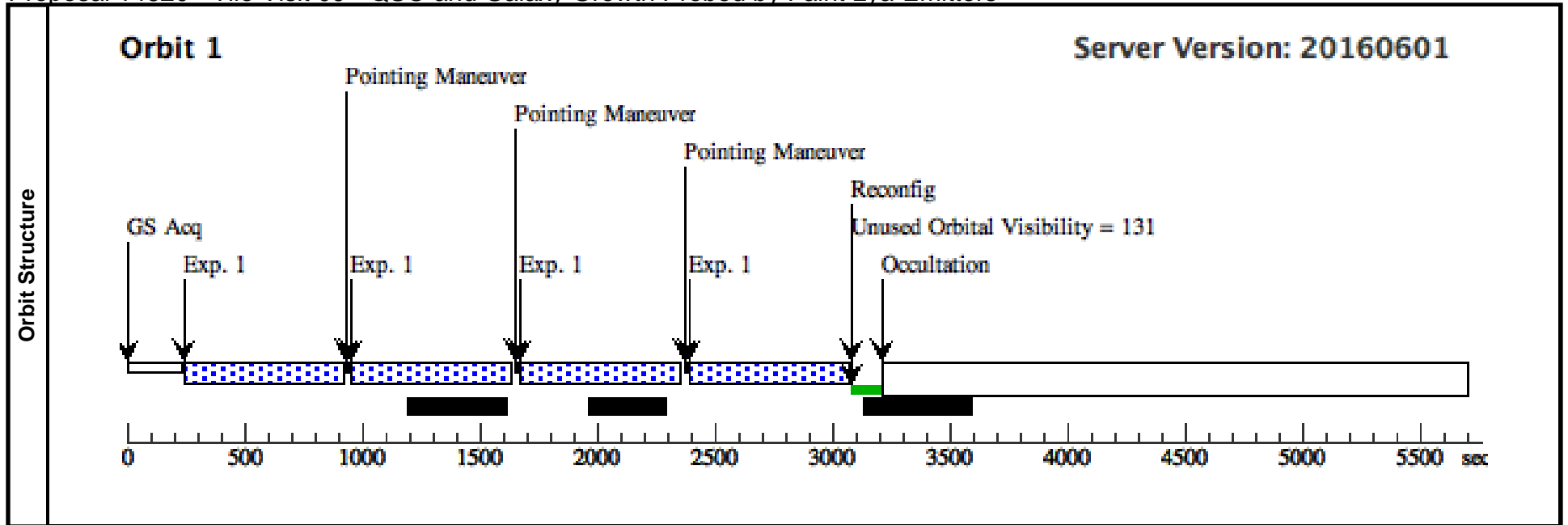
Visit	Proposal 14620, Tile Visit 08, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01									
	(Tile Visit 08) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Exposure 1 (Pattern 2, Exps 1-1 in Tile Visit 08) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(2)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	Q2343-CENTER	RA: 23 46 25.7975 (356.6074896d) Dec: +12 48 18.66 (12.80518d) Equinox: J2000		V=27+/-2 Objects have Lya line fluxes ~1e-17 erg/s/cm^2 (not in band); continuum magnitudes are mAB ~26-27. Two foreground stars have H=12.0 and 12.9 (Vega).	Reference Frame: ICRS				
<i>Comments: Foreground star H-band brightnesses are estimated from the 2MASS point source catalog.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) Q2343-CENTER	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPARS50	POS TARG -166.84 38,20.750687157379 9; GS ACQ SCENARIO SINGLE	Pattern 2, Exps 1-1 in Tile Visit 08 (2)		652.938154 Secs (2611.753 Secs) [=>(Pattern 1,1)] [=>(Pattern 1,2)] [=>(Pattern 2,1)] [=>(Pattern 2,2)]	[1]



Proposal 14620 - Tile Visit 09 - QSO and Galaxy Growth Probed by Faint Lya-Emitters

Wed Nov 09 16:26:50 GMT 2016

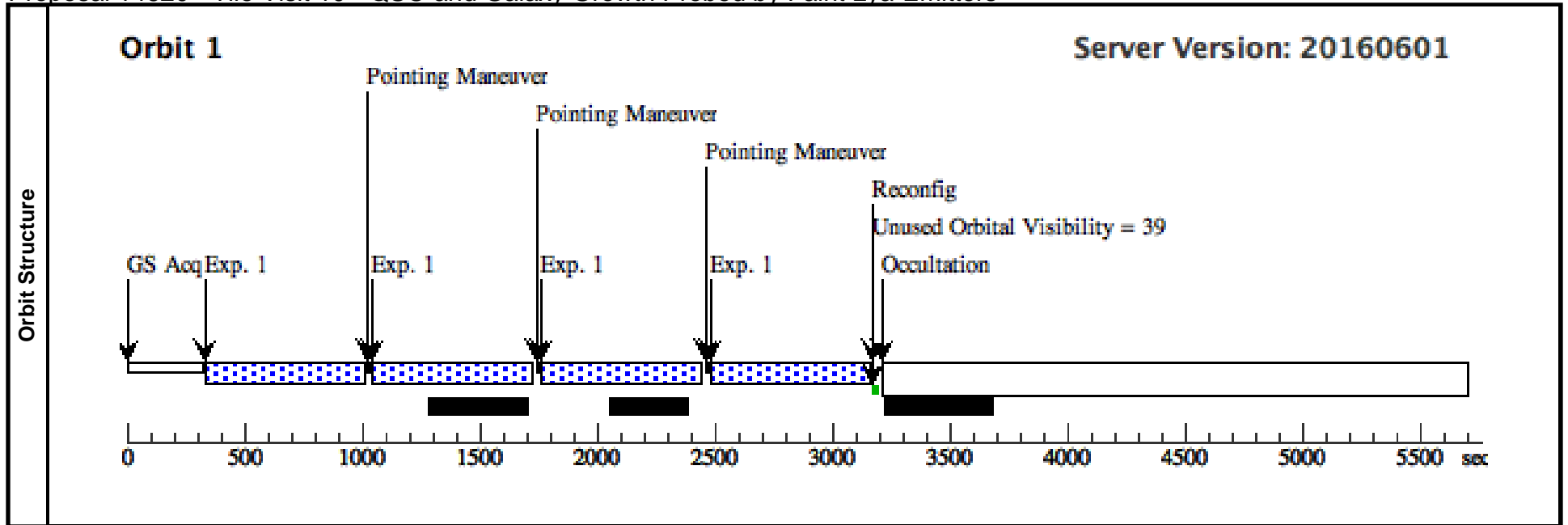
Visit	Proposal 14620, Tile Visit 09, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01									
	(Tile Visit 09) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Exposure 1 (Pattern 2, Exps 1-1 in Tile Visit 09) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(2)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	Q2343-CENTER	RA: 23 46 25.7975 (356.6074896d) Dec: +12 48 18.66 (12.80518d) Equinox: J2000		V=27+/-2 Objects have Lya line fluxes ~1e-17 erg/s/cm^2 (not in band); continuum magnitudes are mAB ~26-27. Two foreground stars have H=12.0 and 12.9 (Vega).	Reference Frame: ICRS				
<i>Comments: Foreground star H-band brightnesses are estimated from the 2MASS point source catalog.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) Q2343-CENTER		WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -55.614 59999999996,84.96 88957191266; GS ACQ SCENARI O SINGLE	Pattern 2, Exps 1-1 in Tile Visit 09 (2)	652.938154 Secs (2611.753 Secs)	[1]
									[=>(Pattern 1,1)]	
									[=>(Pattern 1,2)]	
									[=>(Pattern 2,1)]	
									[=>(Pattern 2,2)]	



Proposal 14620 - Tile Visit 10 - QSO and Galaxy Growth Probed by Faint Lya-Emitters

Wed Nov 09 16:26:50 GMT 2016

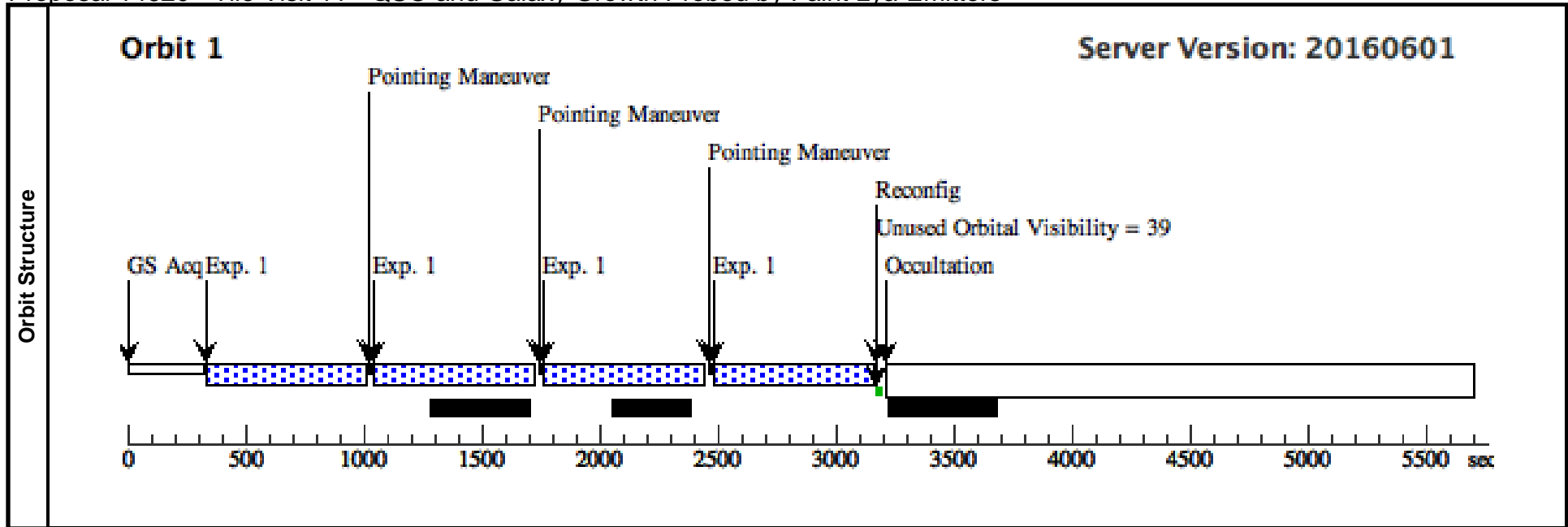
Visit	Proposal 14620, Tile Visit 10, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 01									
	(Tile Visit 10) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Exposure 1 (Pattern 2, Exps 1-1 in Tile Visit 10) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(2)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	Q2343-CENTER	RA: 23 46 25.7975 (356.6074896d) Dec: +12 48 18.66 (12.80518d) Equinox: J2000		V=27+/-2 Objects have Lya line fluxes ~1e-17 erg/s/cm^2 (not in band); continuum magnitudes are mAB ~26-27. Two foreground stars have H=12.0 and 12.9 (Vega).	Reference Frame: ICRS				
<i>Comments: Foreground star H-band brightnesses are estimated from the 2MASS point source catalog.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) Q2343-CENTER	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG 55.6145 99999999996,149.18 71042808733; GS ACQ SCENARI O BASE1B3	Pattern 2, Exps 1-1 in Tile Visit 10 (2)	652.938154 Secs (2611.753 Secs)	[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)]	[1]



Proposal 14620 - Tile Visit 11 - QSO and Galaxy Growth Probed by Faint Lya-Emitters

Wed Nov 09 16:26:50 GMT 2016

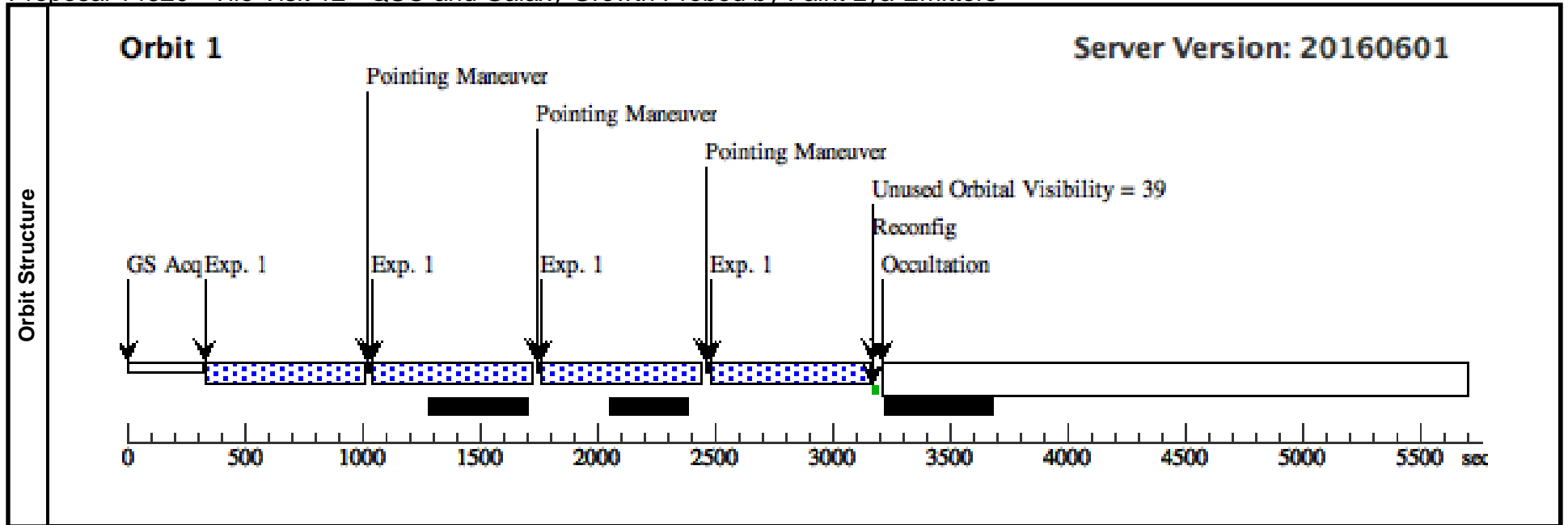
Visit	Proposal 14620, Tile Visit 11, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: ORIENT 79D TO 79 D									
	(Tile Visit 11) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Exposure 1 (Pattern 2, Exps 1-1 in Tile Visit 11) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern		Secondary Pattern		Exposures				
	(2)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	Q2343-CENTER	RA: 23 46 25.7975 (356.6074896d) Dec: +12 48 18.66 (12.80518d) Equinox: J2000		V=27+/-2 Objects have Lya line fluxes ~1e-17 erg/s/cm^2 (not in band); continuum magnitudes are mAB ~26-27. Two foreground stars have H=12.0 and 12.9 (Vega).	Reference Frame: ICRS				
<i>Comments: Foreground star H-band brightnesses are estimated from the 2MASS point source catalog.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) Q2343-CENTER	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -125.51 083537107846,-116. 5388396002159	Pattern 2, Exps 1-1 in Tile Visit 11 (2)	652.938154 Secs (2611.753 Secs)	[=>(Pattern 1,1)] [=>(Pattern 1,2)] [=>(Pattern 2,1)] [=>(Pattern 2,2)]	[1]



Proposal 14620 - Tile Visit 12 - QSO and Galaxy Growth Probed by Faint Lya-Emitters

Wed Nov 09 16:26:50 GMT 2016

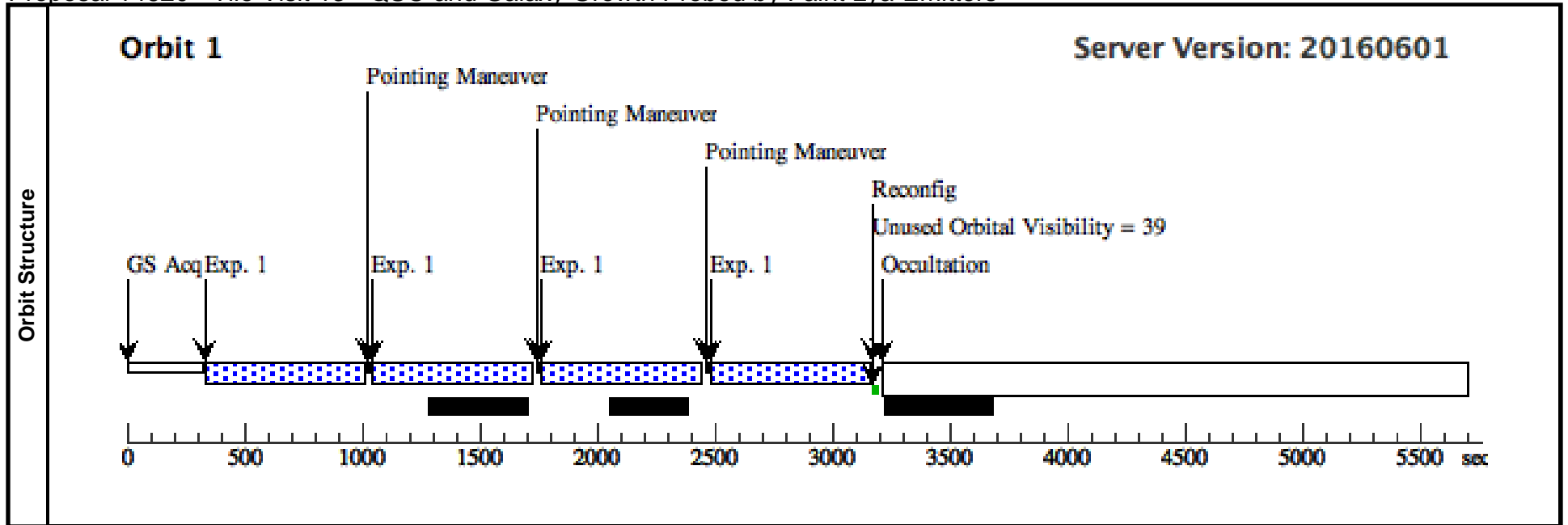
Visit	Proposal 14620, Tile Visit 12, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: ORIENT 250D TO 250 D									
	Diagnosics (Tile Visit 12) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Exposure 1 (Pattern 2, Exps 1-1 in Tile Visit 12) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Patterns	#	Primary Pattern		Secondary Pattern		Exposures				
	(2)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	Q2343-CENTER	RA: 23 46 25.7975 (356.6074896d) Dec: +12 48 18.66 (12.80518d) Equinox: J2000		V=27+/-2 Objects have Lya line fluxes ~1e-17 erg/s/cm^2 (not in band); continuum magnitudes are mAB ~26-27. Two foreground stars have H=12.0 and 12.9 (Vega).	Reference Frame: ICRS				
<i>Comments: Foreground star H-band brightnesses are estimated from the 2MASS point source catalog.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) Q2343-CENTER	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -15.736 467249695174,162.4 2985207709538	Pattern 2, Exps 1-1 in Tile Visit 12 (2)	652.938154 Secs (2611.753 Secs)	[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)]	[1]



Proposal 14620 - Tile Visit 13 - QSO and Galaxy Growth Probed by Faint Lya-Emitters

Wed Nov 09 16:26:50 GMT 2016

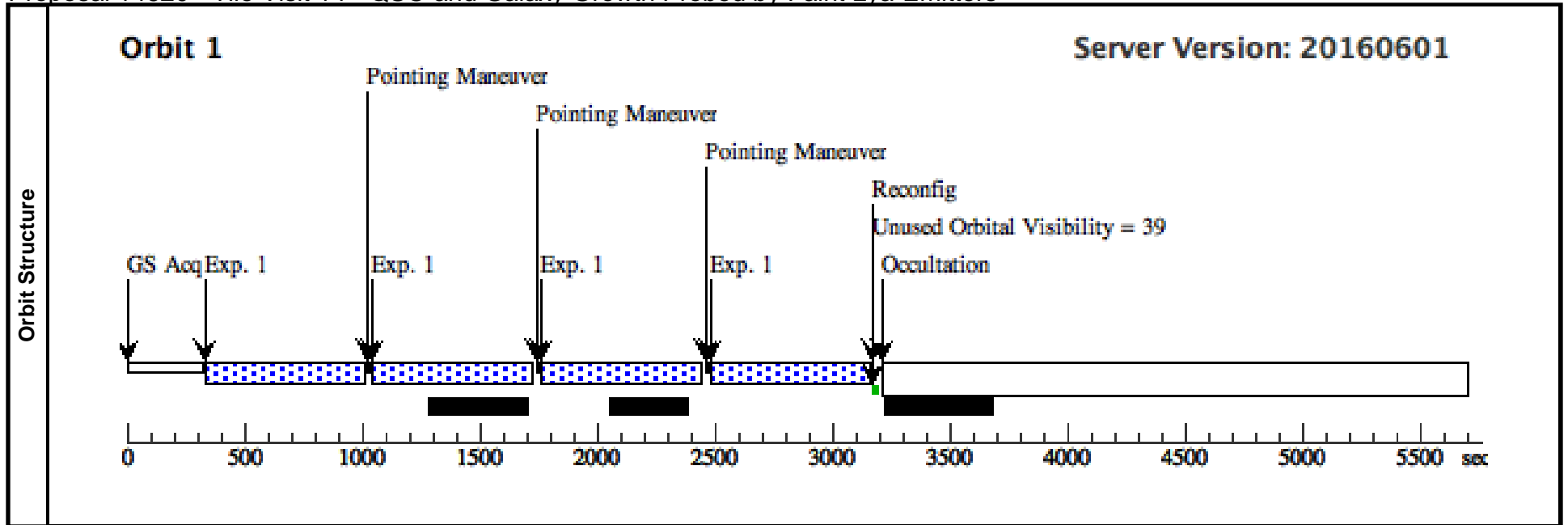
Visit	Proposal 14620, Tile Visit 13, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 11									
	(Tile Visit 13) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Exposure 1 (Pattern 2, Exps 1-1 in Tile Visit 13) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(2)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	Q2343-CENTER	RA: 23 46 25.7975 (356.6074896d) Dec: +12 48 18.66 (12.80518d) Equinox: J2000		V=27+/-2 Objects have Lya line fluxes ~1e-17 erg/s/cm^2 (not in band); continuum magnitudes are mAB ~26-27. Two foreground stars have H=12.0 and 12.9 (Vega).	Reference Frame: ICRS				
<i>Comments: Foreground star H-band brightnesses are estimated from the 2MASS point source catalog.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) Q2343-CENTER	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -104.86 68251236928,0.5391 60399784052; GS ACQ SCENARI O BASE1B3	Pattern 2, Exps 1-1 in Tile Visit 13 (2)		652.938154 Secs (2611.753 Secs) [=>(Pattern 1,1)] [=>(Pattern 1,2)] [=>(Pattern 2,1)] [=>(Pattern 2,2)]	[1]



Proposal 14620 - Tile Visit 14 - QSO and Galaxy Growth Probed by Faint Lya-Emitters

Wed Nov 09 16:26:50 GMT 2016

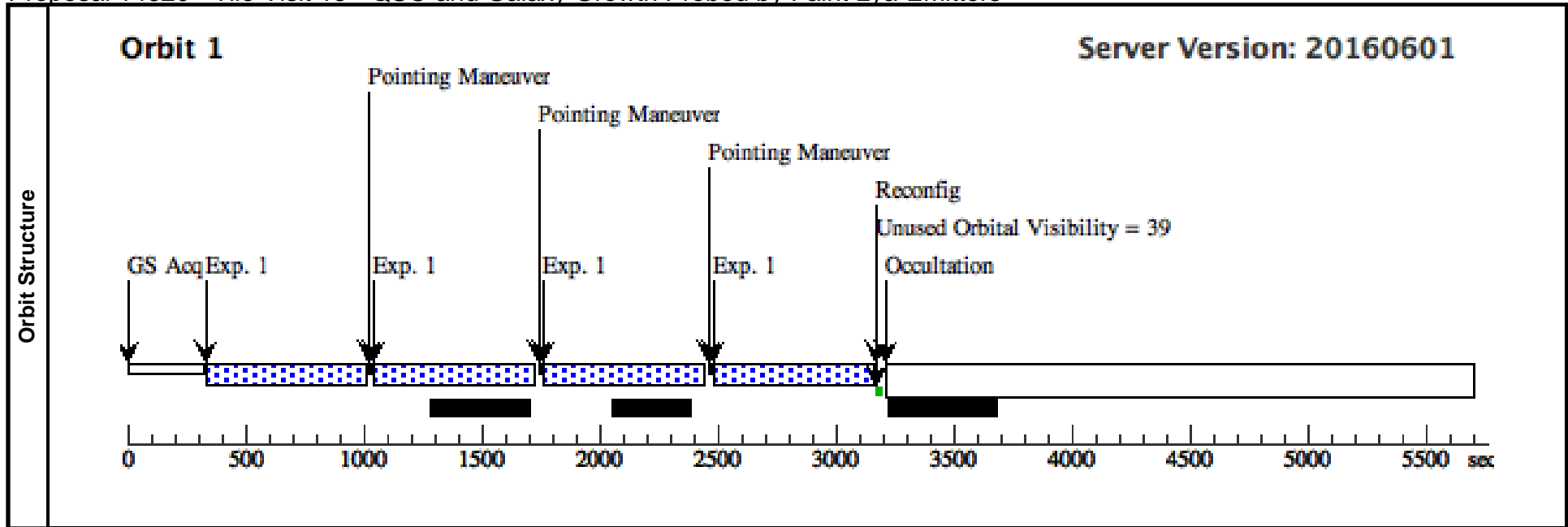
Visit	Proposal 14620, Tile Visit 14, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 11									
	(Exposure 1 (Pattern 2, Exps 1-1 in Tile Visit 14) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(2)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	Q2343-CENTER	RA: 23 46 25.7975 (356.6074896d) Dec: +12 48 18.66 (12.80518d) Equinox: J2000		V=27+/-2 Objects have Lya line fluxes ~1e-17 erg/s/cm^2 (not in band); continuum magnitudes are mAB ~26-27. Two foreground stars have H=12.0 and 12.9 (Vega).	Reference Frame: ICRS				
<i>Comments: Foreground star H-band brightnesses are estimated from the 2MASS point source catalog.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) Q2343-CENTER	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -10.322 005123692819,-58.5 3899999999996	Pattern 2, Exps 1-1 in Tile Visit 14 (2)	652.938154 Secs (2611.753 Secs)	[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)]	[1]



Proposal 14620 - Tile Visit 15 - QSO and Galaxy Growth Probed by Faint Lya-Emitters

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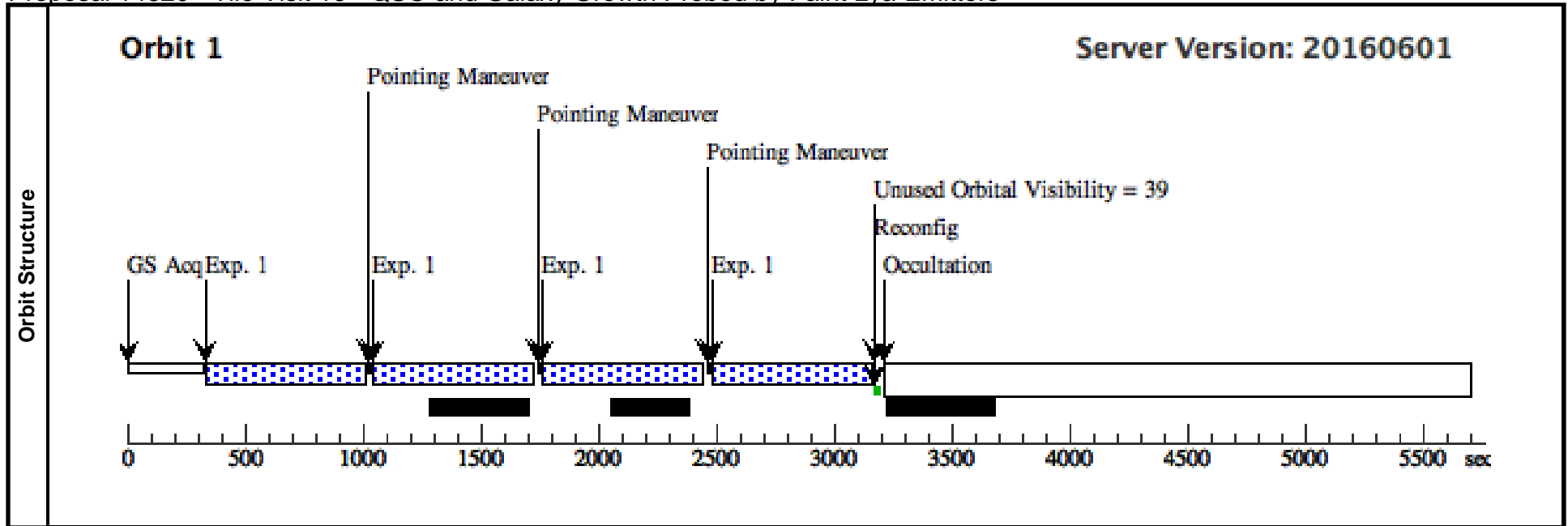
Visit	Proposal 14620, Tile Visit 15, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: ORIENT 65D TO 65 D									
	(Tile Visit 15) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Exposure 1 (Pattern 2, Exps 1-1 in Tile Visit 15) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(2)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	Q2343-CENTER	RA: 23 46 25.7975 (356.6074896d) Dec: +12 48 18.66 (12.80518d) Equinox: J2000		V=27+/-2 Objects have Lya line fluxes ~1e-17 erg/s/cm^2 (not in band); continuum magnitudes are mAB ~26-27. Two foreground stars have H=12.0 and 12.9 (Vega).	Reference Frame: ICRS				
<i>Comments: Foreground star H-band brightnesses are estimated from the 2MASS point source catalog.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) Q2343-CENTER	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG 112.950 84087007689,-81.44 630073740669	Pattern 2, Exps 1-1 in Tile Visit 15 (2)		652.938154 Secs (2611.753 Secs)	[1]
									[=>(Pattern 1,1)]	
									[=>(Pattern 1,2)]	
									[=>(Pattern 2,1)]	
									[=>(Pattern 2,2)]	



Proposal 14620 - Tile Visit 16 - QSO and Galaxy Growth Probed by Faint Lya-Emitters

Wed Nov 09 16:26:50 GMT 2016

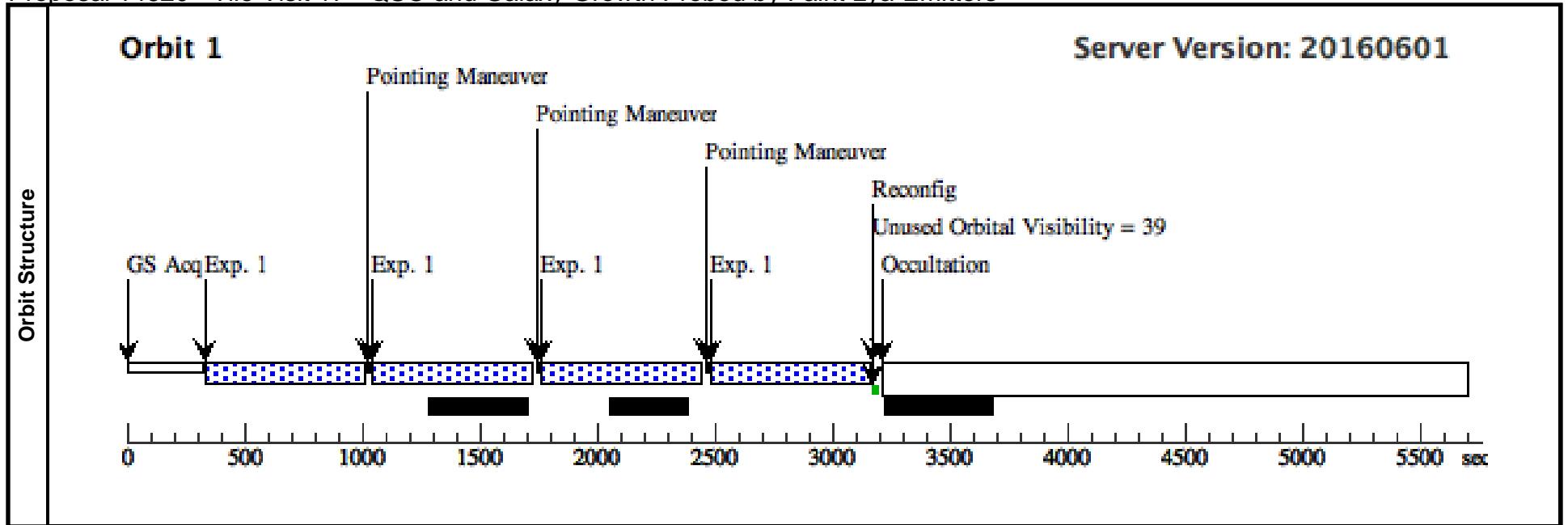
Visit	Proposal 14620, Tile Visit 16, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 11									
	(Tile Visit 16) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Exposure 1 (Pattern 2, Exps 1-1 in Tile Visit 16) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(2)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	Q2343-CENTER	RA: 23 46 25.7975 (356.6074896d) Dec: +12 48 18.66 (12.80518d) Equinox: J2000		V=27+/-2 Objects have Lya line fluxes ~1e-17 erg/s/cm^2 (not in band); continuum magnitudes are mAB ~26-27. Two foreground stars have H=12.0 and 12.9 (Vega).	Reference Frame: ICRS				
<i>Comments: Foreground star H-band brightnesses are estimated from the 2MASS point source catalog.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) Q2343-CENTER	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -84.222 81487630715,117.61 7160399784	Pattern 2, Exps 1-1 in Tile Visit 16 (2)		652.938154 Secs (2611.753 Secs)	[1]
									[=>(Pattern 1,1)]	
									[=>(Pattern 1,2)]	
									[=>(Pattern 2,1)]	
									[=>(Pattern 2,2)]	



Proposal 14620 - Tile Visit 17 - QSO and Galaxy Growth Probed by Faint Lya-Emitters

Wed Nov 09 16:26:50 GMT 2016

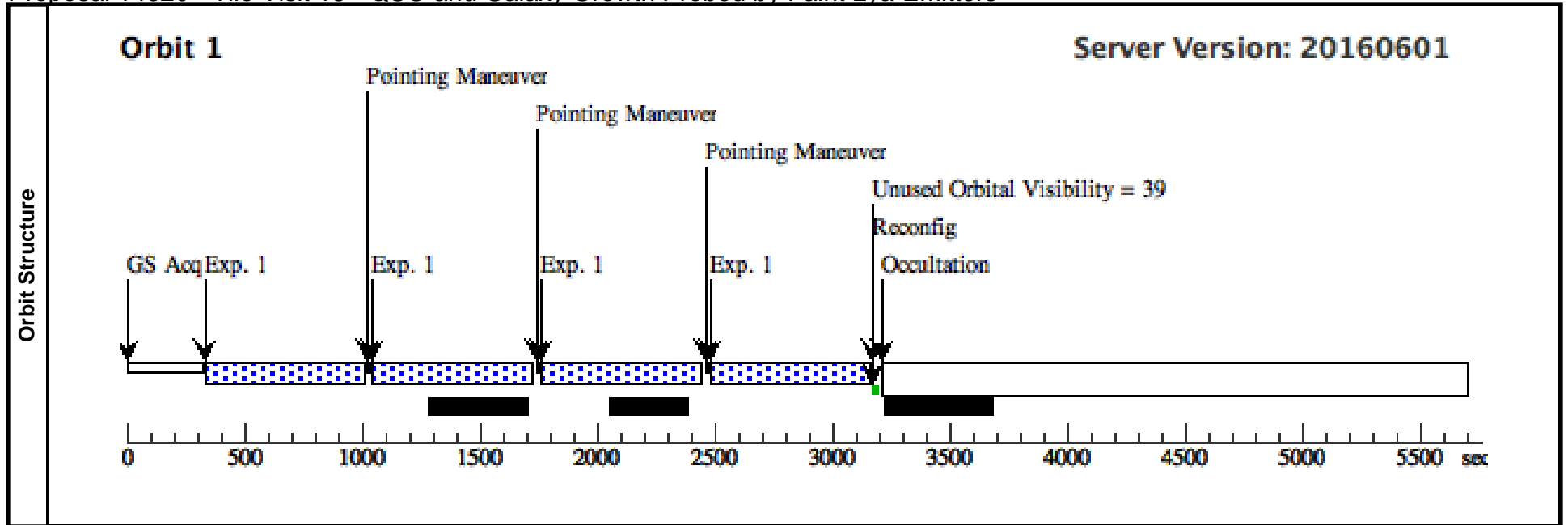
Visit	Proposal 14620, Tile Visit 17, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 11									
	(Tile Visit 17) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Exposure 1 (Pattern 2, Exps 1-1 in Tile Visit 17) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(2)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	Q2343-CENTER	RA: 23 46 25.7975 (356.6074896d) Dec: +12 48 18.66 (12.80518d) Equinox: J2000		V=27+/-2 Objects have Lya line fluxes ~1e-17 erg/s/cm^2 (not in band); continuum magnitudes are mAB ~26-27. Two foreground stars have H=12.0 and 12.9 (Vega).	Reference Frame: ICRS				
<i>Comments: Foreground star H-band brightnesses are estimated from the 2MASS point source catalog.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) Q2343-CENTER	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG 10.3220 05123692833,58.538 9999999999	Pattern 2, Exps 1-1 in Tile Visit 17 (2)		652.938154 Secs (2611.753 Secs)	[1]
									[=>(Pattern 1,1)]	
									[=>(Pattern 1,2)]	
									[=>(Pattern 2,1)]	
									[=>(Pattern 2,2)]	



Proposal 14620 - Tile Visit 18 - QSO and Galaxy Growth Probed by Faint Lya-Emitters

Wed Nov 09 16:26:50 GMT 2016

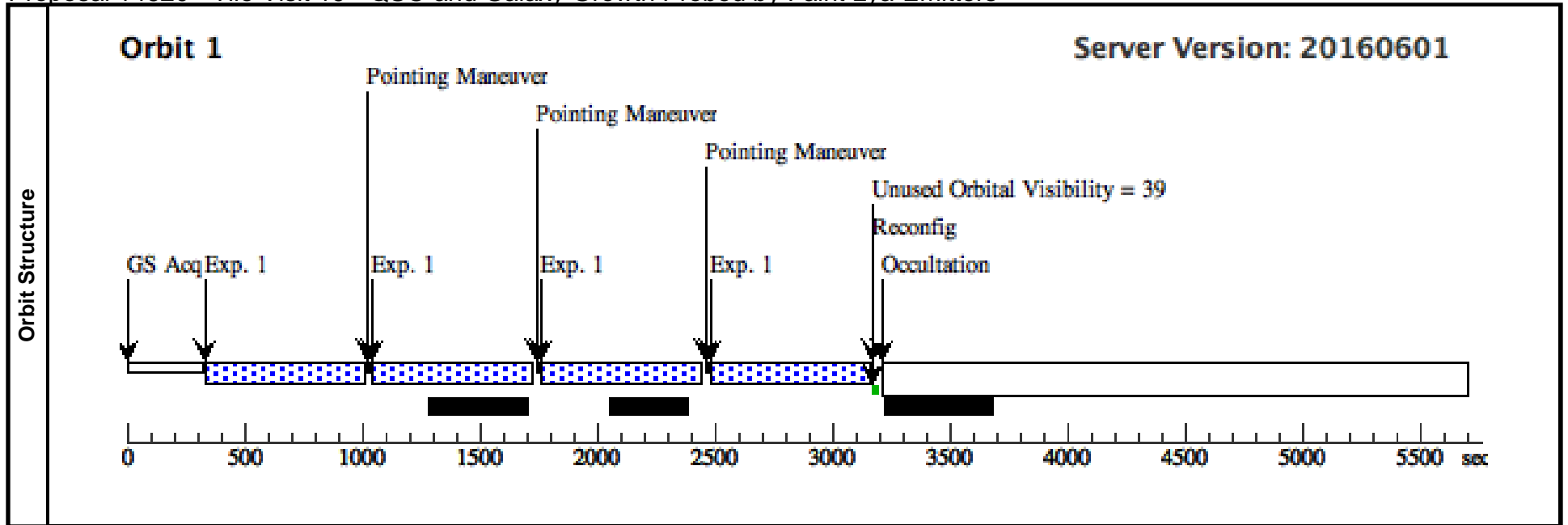
Visit	Proposal 14620, Tile Visit 18, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 11									
	(Tile Visit 18) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Exposure 1 (Pattern 2, Exps 1-1 in Tile Visit 18) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(2)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	Q2343-CENTER	RA: 23 46 25.7975 (356.6074896d) Dec: +12 48 18.66 (12.80518d) Equinox: J2000		V=27+/-2 Objects have Lya line fluxes ~1e-17 erg/s/cm^2 (not in band); continuum magnitudes are mAB ~26-27. Two foreground stars have H=12.0 and 12.9 (Vega).	Reference Frame: ICRS				
<i>Comments: Foreground star H-band brightnesses are estimated from the 2MASS point source catalog.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) Q2343-CENTER	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG 104.866 82512369282,-0.539 1603997840235; GS ACQ SCENARI O BASE1B3	Pattern 2, Exps 1-1 in Tile Visit 18 (2)	652.938154 Secs (2611.753 Secs)	[=>(Pattern 1,1)] [=>(Pattern 1,2)] [=>(Pattern 2,1)] [=>(Pattern 2,2)]	[1]



Proposal 14620 - Tile Visit 19 - QSO and Galaxy Growth Probed by Faint Lya-Emitters

Wed Nov 09 16:26:50 GMT 2016

Visit	Proposal 14620, Tile Visit 19, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 11									
	(Tile Visit 19) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Exposure 1 (Pattern 2, Exps 1-1 in Tile Visit 19) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(2)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	Q2343-CENTER	RA: 23 46 25.7975 (356.6074896d) Dec: +12 48 18.66 (12.80518d) Equinox: J2000		V=27+/-2 Objects have Lya line fluxes ~1e-17 erg/s/cm^2 (not in band); continuum magnitudes are mAB ~26-27. Two foreground stars have H=12.0 and 12.9 (Vega).	Reference Frame: ICRS				
<i>Comments: Foreground star H-band brightnesses are estimated from the 2MASS point source catalog.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) Q2343-CENTER		WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG 30.9660 15371078484,175.61 69999999999	Pattern 2, Exps 1-1 in Tile Visit 19 (2)	652.938154 Secs (2611.753 Secs)	[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)]



Proposal 14620 - Tile Visit 20 - QSO and Galaxy Growth Probed by Faint Lya-Emitters

Wed Nov 09 16:26:50 GMT 2016

Visit	Proposal 14620, Tile Visit 20, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 11									
	(Tile Visit 20) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Exposure 1 (Pattern 2, Exps 1-1 in Tile Visit 20) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(2)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=2 Point Spacing=5.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	Q2343-CENTER	RA: 23 46 25.7975 (356.6074896d) Dec: +12 48 18.66 (12.80518d) Equinox: J2000		V=27+/-2 Objects have Lya line fluxes ~1e-17 erg/s/cm^2 (not in band); continuum magnitudes are mAB ~26-27. Two foreground stars have H=12.0 and 12.9 (Vega).	Reference Frame: ICRS				
<i>Comments: Foreground star H-band brightnesses are estimated from the 2MASS point source catalog.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) Q2343-CENTER	WFC3/IR, MULTIACCUM, IR	F140W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG 125.510 83537107847,116.53 88396002159	Pattern 2, Exps 1-1 in Tile Visit 20 (2)		652.938154 Secs (2611.753 Secs)	[1]
									[=>(Pattern 1,1)]	
									[=>(Pattern 1,2)]	
									[=>(Pattern 2,1)]	
									[=>(Pattern 2,2)]	

