



14160 - A 100 million-fold increase in the measured sizes of neutral gas reservoirs in the early Universe

Cycle: 23, Proposal Category: GO
(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. John M. O'Meara (PI) (Contact)	Saint Michaels College	jomeara@smcvt.edu
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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) EG1	WFC3/UVIS	2	31-Jul-2015 21:17:21.0	yes
02	(1) EG1	WFC3/UVIS	2	31-Jul-2015 21:17:23.0	yes
03	(1) EG1	WFC3/UVIS	3	31-Jul-2015 21:17:24.0	yes
04	(2) EG2	WFC3/UVIS	2	31-Jul-2015 21:17:25.0	yes
05	(2) EG2	WFC3/UVIS	2	31-Jul-2015 21:17:26.0	yes
06	(2) EG2	WFC3/UVIS	3	31-Jul-2015 21:17:27.0	yes
07	(3) EG3	WFC3/UVIS	2	31-Jul-2015 21:17:28.0	yes
08	(3) EG3	WFC3/UVIS	3	31-Jul-2015 21:17:30.0	yes
09	(3) EG3	WFC3/UVIS	2	31-Jul-2015 21:17:31.0	yes

21 Total Orbits Used

ABSTRACT

The damped Lyman alpha systems (DLAs, $\log(N_{\text{HI}}) \geq 20.3$) seen in absorption toward distant quasars have been studied for over 40 years, yet two of their most fundamental properties, namely their size and their mass, have remained elusive. Sightlines to QSOs probe only a fraction of a parsec of the area of the DLAs. Although methods currently exist to measure DLA spatial extents, they trace only their star forming regions (direct imaging), only their rest frame optical extents (IFU searches), or offer only pencil beam piece-wise sampling (close background quasar pair spectra). In this proposal, we present a new technique to directly constrain the size of the neutral hydrogen gas absorption in the DLA via their detection in the spectra of background galaxies. We have a pilot sample of 3 DLAs seen in the spectra of $z \sim 3$ galaxies, and require HST+WFC3 images to obtain the spatial extent of these galaxies. Doing so will increase our knowledge of the spatial extent of DLA gas by a factor of at least 10^8 over present measures.

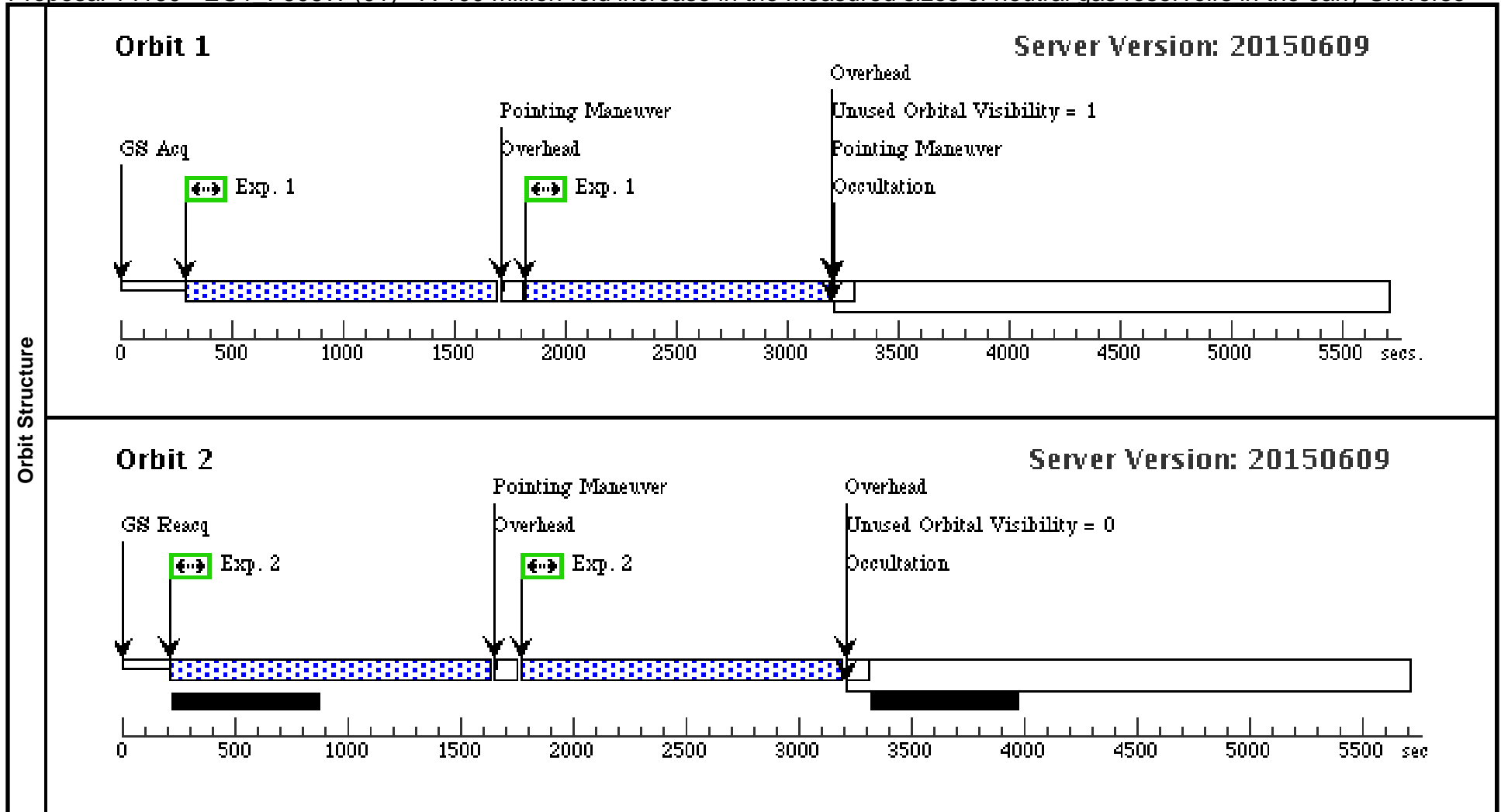
OBSERVING DESCRIPTION

We will obtain imaging in 5 F390W orbits and 2 F606W orbits for 3 target galaxies EG1, EG2, and EG3 using WFC3+UVIS

Proposal 14160 - EG1_F606W (01) - A 100 million-fold increase in the measured sizes of neutral gas reservoirs in the early Universe

Sat Aug 01 01:17:32 GMT 2015

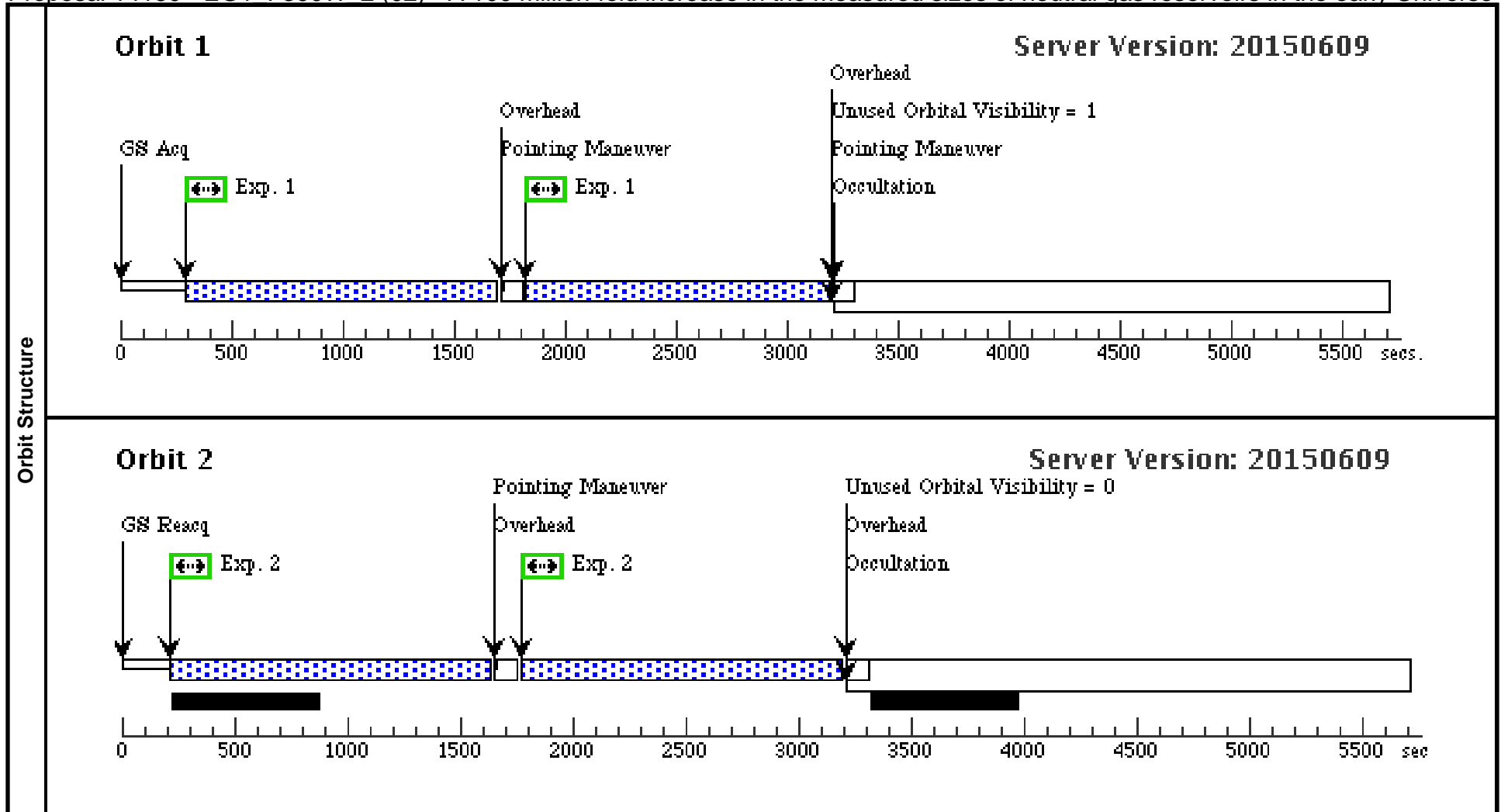
Visit	Proposal 14160, EG1_F606W (01), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 12D TO 37 D; ORIENT 57D TO 69 D; ORIENT 141D TO 255 D										
	(Exposure 1 (Pattern 1, Exps 1-1 in EG1_F606W (01)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes (Exposure 2 (Pattern 1, Exps 2-2 in EG1_F606W (01)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes										
Diagnosics											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=								(1), (2)	
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Fluxes	Miscellaneous		
	(1)	EG1	RA: 02 26 54.7000 (36.7279167d) Dec: -04 18 45.54 (-4.31265d) Equinox: J2000					V=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	(1) EG1	(1) EG1	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F606W		POS TARG 7,7	Pattern 1, Exps 1-1 in EG1_F606W (01) (1)	1370 Secs (2740 Secs)		
									[==>(Pattern 1)]		[1]
									[==>(Pattern 2)]		
2	(1) EG1	(1) EG1	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F606W		POS TARG 7,7	Pattern 1, Exps 2-2 in EG1_F606W (01) (1)	1426 Secs (2852 Secs)			
								[==>(Pattern 1)]		[2]	
								[==>(Pattern 2)]			



Proposal 14160 - EG1_F390W_2 (02) - A 100 million-fold increase in the measured sizes of neutral gas reservoirs in the early Universe

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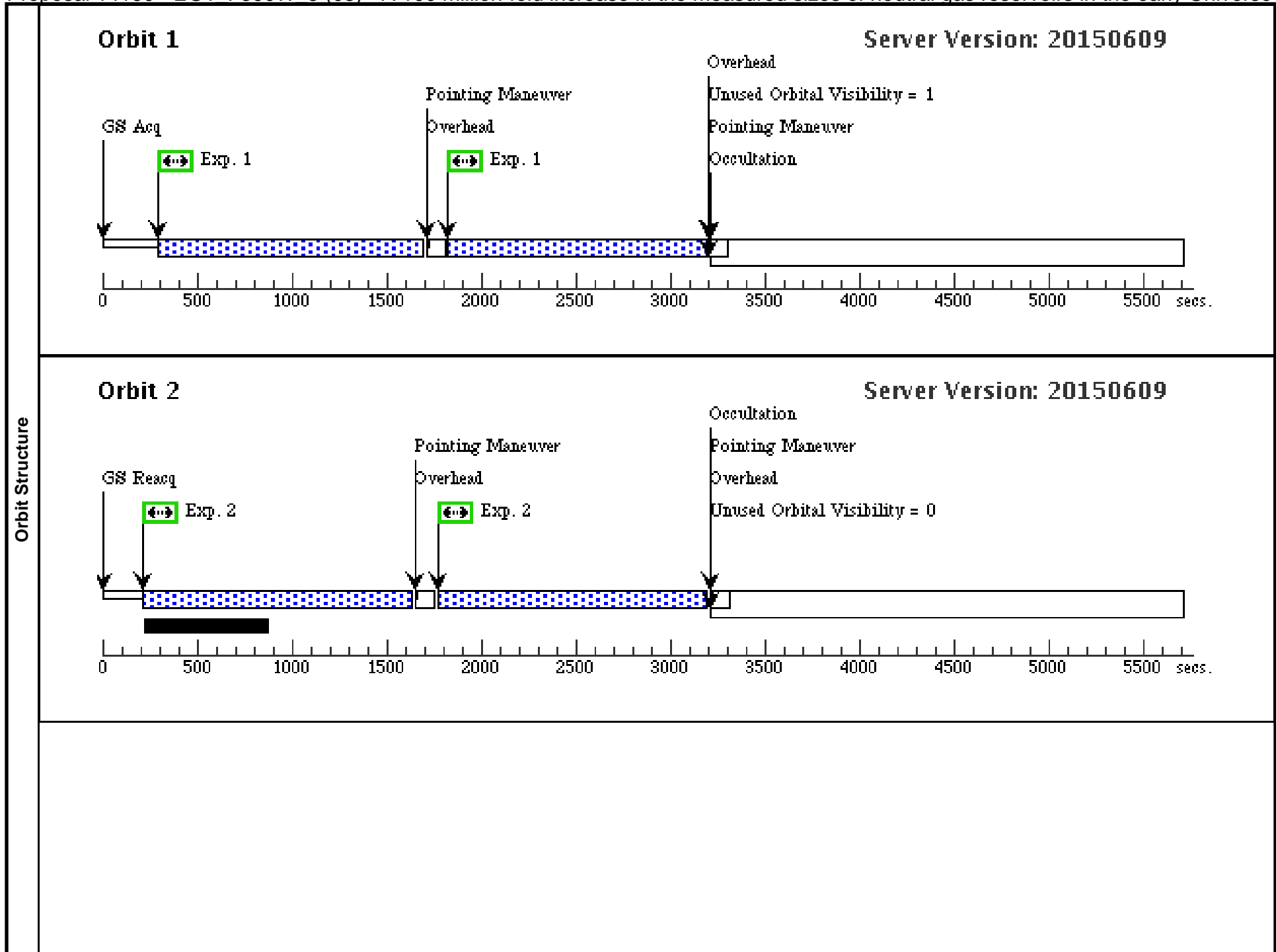
Visit	Proposal 14160, EG1_F390W_2 (02), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 01										
	(Exposure 1 (Pattern 1, Exps 1-1 in EG1_F390W_2 (02)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes (Exposure 2 (Pattern 1, Exps 2-2 in EG1_F390W_2 (02)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes										
Diagnosics											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=								(1), (2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(1)	EG1	RA: 02 26 54.7000 (36.7279167d) Dec: -04 18 45.54 (-4.31265d) Equinox: J2000				V=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	(1) EG1	(1) EG1	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F390W		POS TARG 7,7	Pattern 1, Exps 1-1 i n EG1_F390W_2 (0 2) (1)	1370 Secs (2740 Secs)		
									[==>(Pattern 1)]		[1]
									[==>(Pattern 2)]		
2	(1) EG1	(1) EG1	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F390W		POS TARG 7,7	Pattern 1, Exps 2-2 i n EG1_F390W_2 (0 2) (1)	1426 Secs (2852 Secs)			
								[==>(Pattern 1)]		[2]	
								[==>(Pattern 2)]			

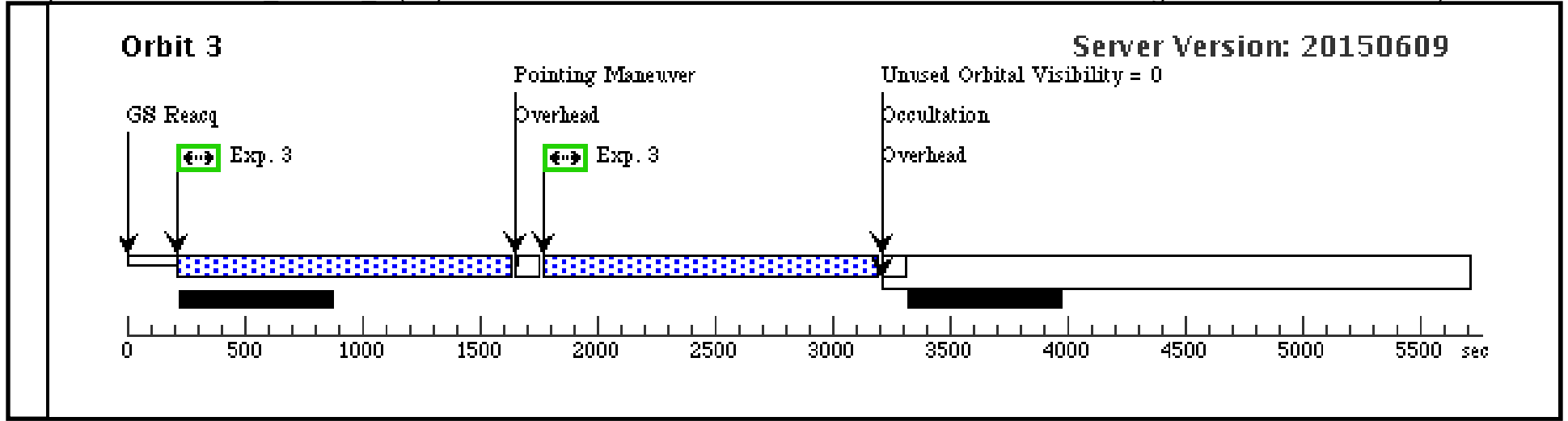


Proposal 14160 - EG1_F390W_3 (03) - A 100 million-fold increase in the measured sizes of neutral gas reservoirs in the early Universe

Sat Aug 01 01:17:32 GMT 2015

Visit	Proposal 14160, EG1_F390W_3 (03), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 01										
Diagnostics	(Exposure 1 (Pattern 1, Exps 1-1 in EG1_F390W_3 (03)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes (Exposure 2 (Pattern 1, Exps 2-2 in EG1_F390W_3 (03)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes (Exposure 3 (Pattern 1, Exps 3-3 in EG1_F390W_3 (03)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes										
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=								(1), (2), (3)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
(1)	EG1	RA: 02 26 54.7000 (36.7279167d) Dec: -04 18 45.54 (-4.31265d) Equinox: J2000				V=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	(1) EG1	(1) EG1	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F390W			POS TARG 7,7	Pattern 1, Exps 1-1 in EG1_F390W_3 (03) (1)	1370 Secs (2740 Secs)		
									[==>(Pattern 1)]		[1]
									[==>(Pattern 2)]		
2	(1) EG1	(1) EG1	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F390W			POS TARG 7,7	Pattern 1, Exps 2-2 in EG1_F390W_3 (03) (1)	1426 Secs (2852 Secs)		
									[==>(Pattern 1)]		[2]
									[==>(Pattern 2)]		
3	(1) EG1	(1) EG1	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F390W			POS TARG 7,7	Pattern 1, Exps 3-3 in EG1_F390W_3 (03) (1)	1426 Secs (2852 Secs)		
									[==>(Pattern 1)]		[3]
									[==>(Pattern 2)]		

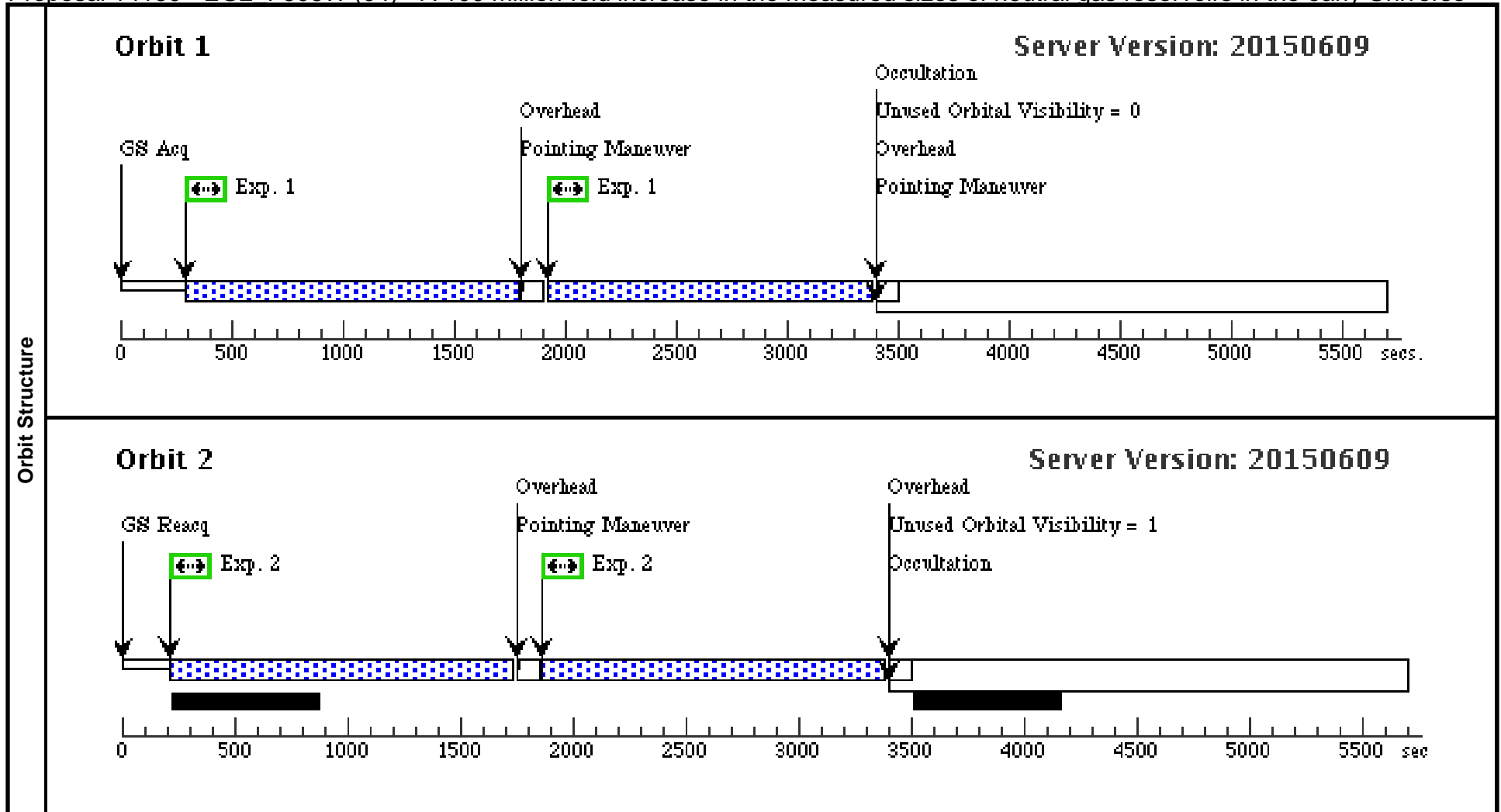




Proposal 14160 - EG2_F606W (04) - A 100 million-fold increase in the measured sizes of neutral gas reservoirs in the early Universe

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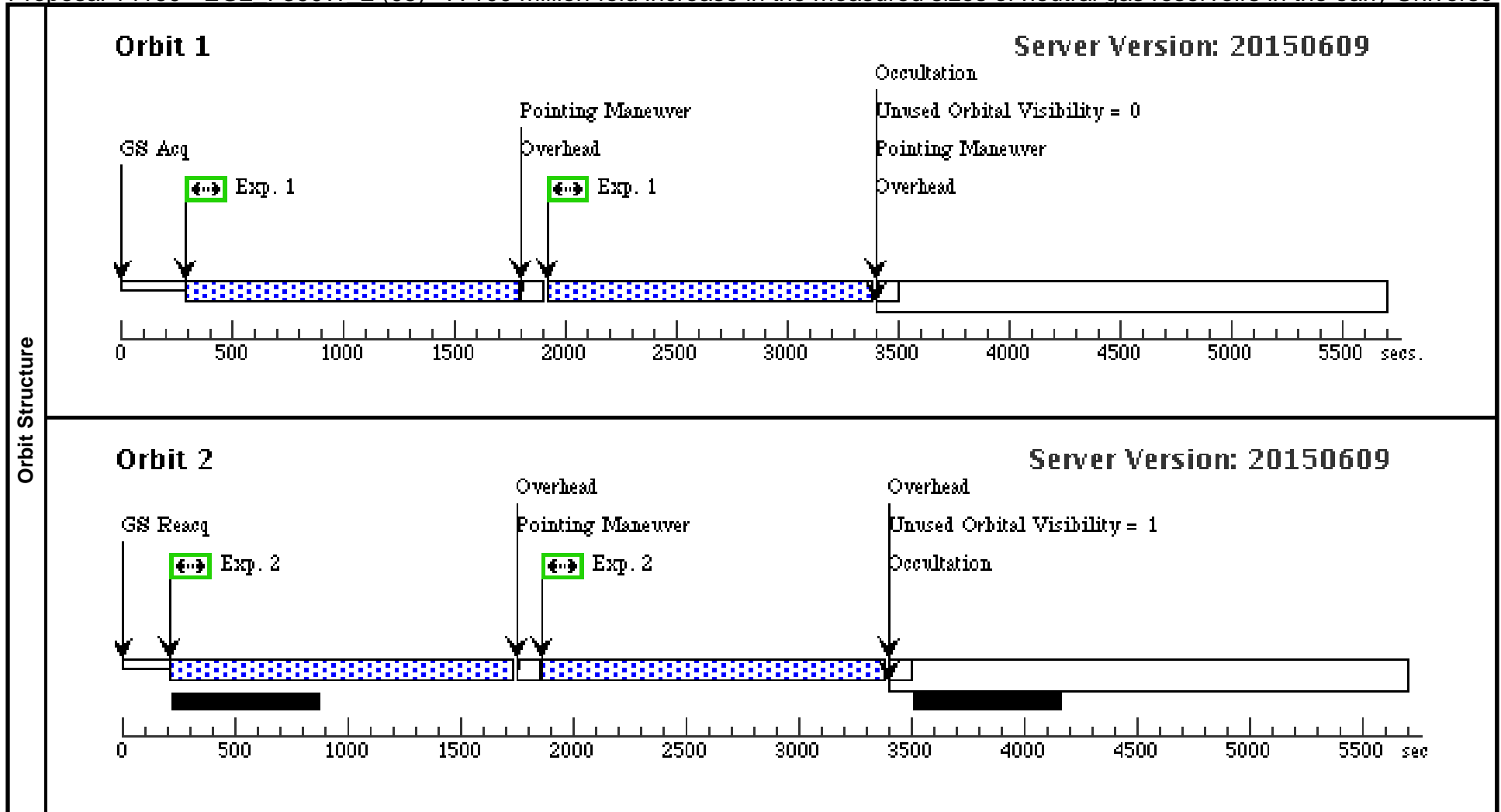
Visit	Proposal 14160, EG2_F606W (04), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 134D TO 250 D										
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Diagnosics											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=								(1), (2)	
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Fluxes	Miscellaneous		
	(2)	EG2	RA: 14 20 32.1680 (215.1340333d) Dec: +52 53 0.86 (52.88357d) Equinox: J2000					V=23.75	Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(2) EG2	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F606W		POS TARG 7,7	Pattern 1, Exps 1-1 i n EG2_F606W (04) (1)	1467 Secs (2934 Secs) [==>(Pattern 1)] [==>(Pattern 2)]		[1]
	2		(2) EG2	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F606W		POS TARG 7,7	Pattern 1, Exps 2-2 i n EG2_F606W (04) (1)	1522 Secs (3044 Secs) [==>(Pattern 1)] [==>(Pattern 2)]		[2]



Proposal 14160 - EG2_F390W_2 (05) - A 100 million-fold increase in the measured sizes of neutral gas reservoirs in the early Universe

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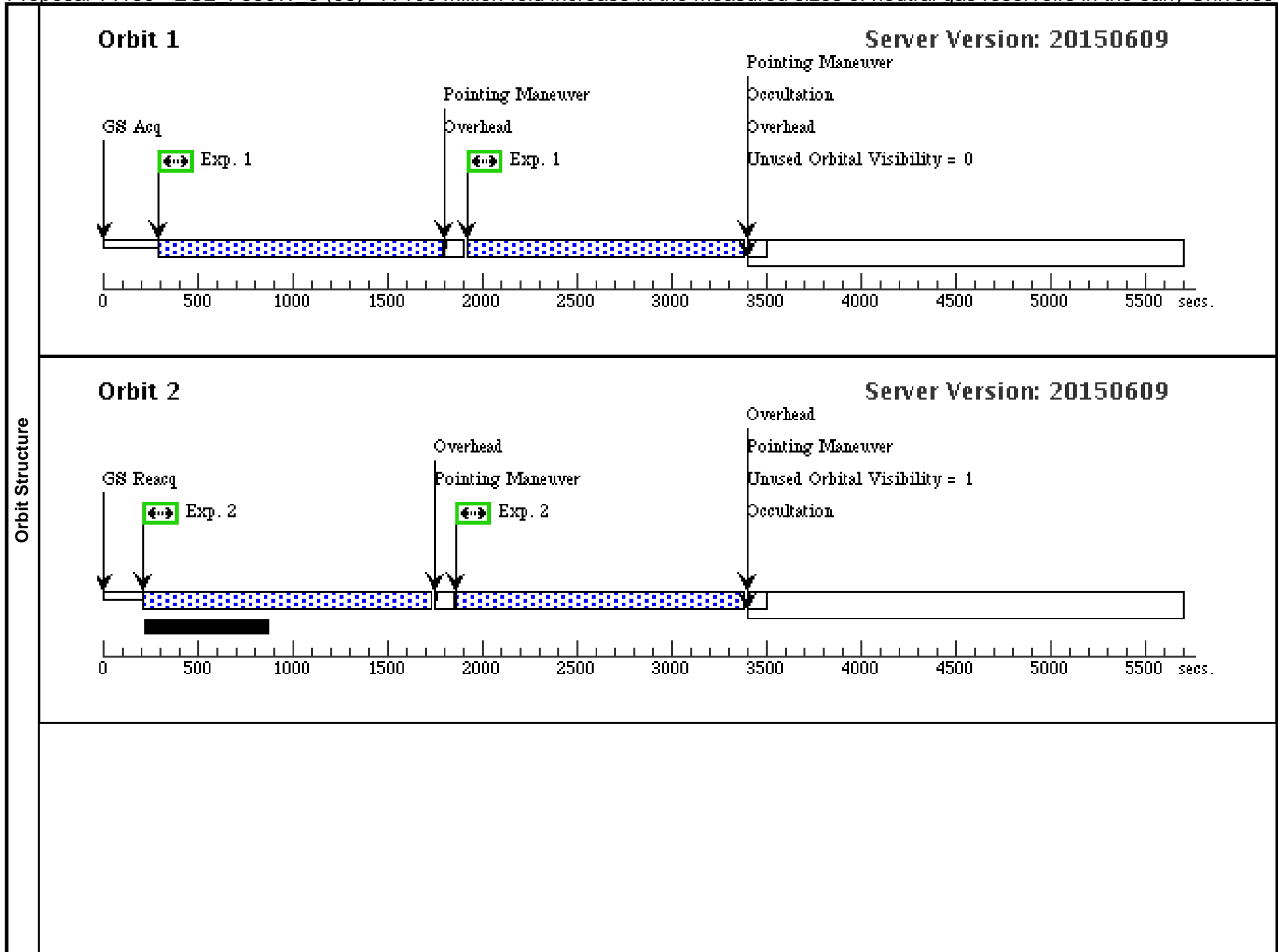
Visit	Proposal 14160, EG2_F390W_2 (05), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 04										
	(Exposure 1 (Pattern 1, Exps 1-1 in EG2_F390W_2 (05)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes (Exposure 2 (Pattern 1, Exps 2-2 in EG2_F390W_2 (05)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes										
Diagnosics											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=								(1), (2)	
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(2)	EG2	RA: 14 20 32.1680 (215.1340333d) Dec: +52 53 0.86 (52.88357d) Equinox: J2000					V=23.75		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(2) EG2	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F390W		POS TARG 7,7	Pattern 1, Exps 1-1 in EG2_F390W_2 (05) (1)	1467 Secs (2934 Secs)		
									[==>(Pattern 1)]		[1]
									[==>(Pattern 2)]		
2		(2) EG2	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F390W		POS TARG 7,7	Pattern 1, Exps 2-2 in EG2_F390W_2 (05) (1)	1522 Secs (3044 Secs)			
								[==>(Pattern 1)]		[2]	
								[==>(Pattern 2)]			

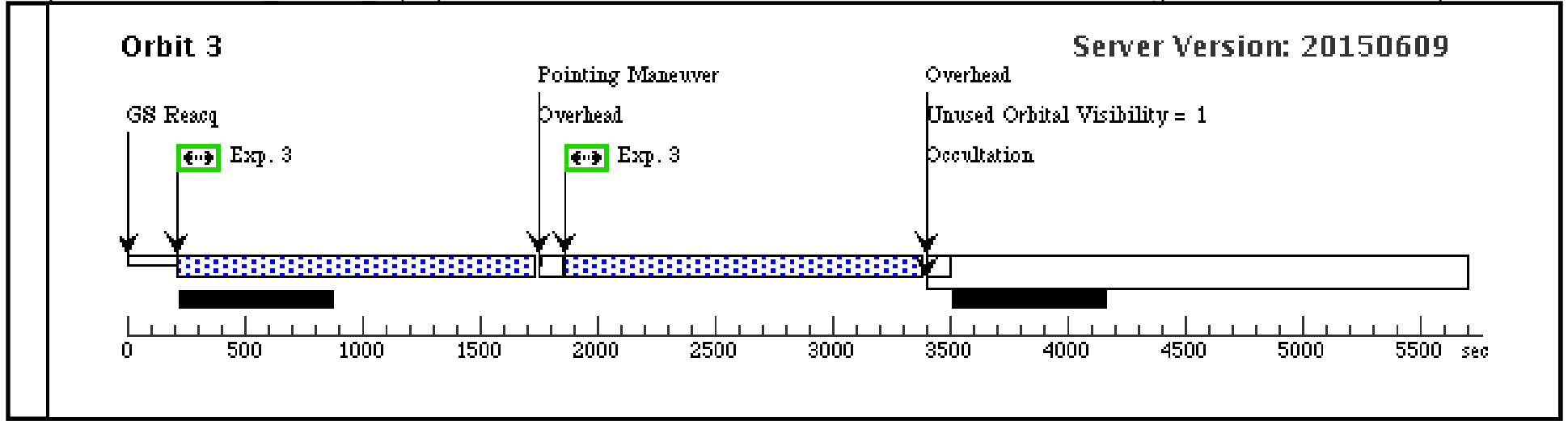


Proposal 14160 - EG2_F390W_3 (06) - A 100 million-fold increase in the measured sizes of neutral gas reservoirs in the early Universe

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Visit	Proposal 14160, EG2_F390W_3 (06), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 04										
Diagnostics	(Exposure 1 (Pattern 1, Exps 1-1 in EG2_F390W_3 (06)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes (Exposure 2 (Pattern 1, Exps 2-2 in EG2_F390W_3 (06)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes (Exposure 3 (Pattern 1, Exps 3-3 in EG2_F390W_3 (06)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes										
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=								(1), (2), (3)	
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(2)	EG2	RA: 14 20 32.1680 (215.1340333d) Dec: +52 53 0.86 (52.88357d) Equinox: J2000					V=23.75		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(2) EG2	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F390W			POS TARG 7,7	Pattern 1, Exps 1-1 in EG2_F390W_3 (06) (1)	1467 Secs (2934 Secs)		
									[==>(Pattern 1)]		[1]
									[==>(Pattern 2)]		
	2	(2) EG2	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F390W			POS TARG 7,7	Pattern 1, Exps 2-2 in EG2_F390W_3 (06) (1)	1522 Secs (3044 Secs)		
									[==>(Pattern 1)]		[2]
									[==>(Pattern 2)]		
	3	(2) EG2	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F390W			POS TARG 7,7	Pattern 1, Exps 3-3 in EG2_F390W_3 (06) (1)	1522 Secs (3044 Secs)		
									[==>(Pattern 1)]		[3]
									[==>(Pattern 2)]		

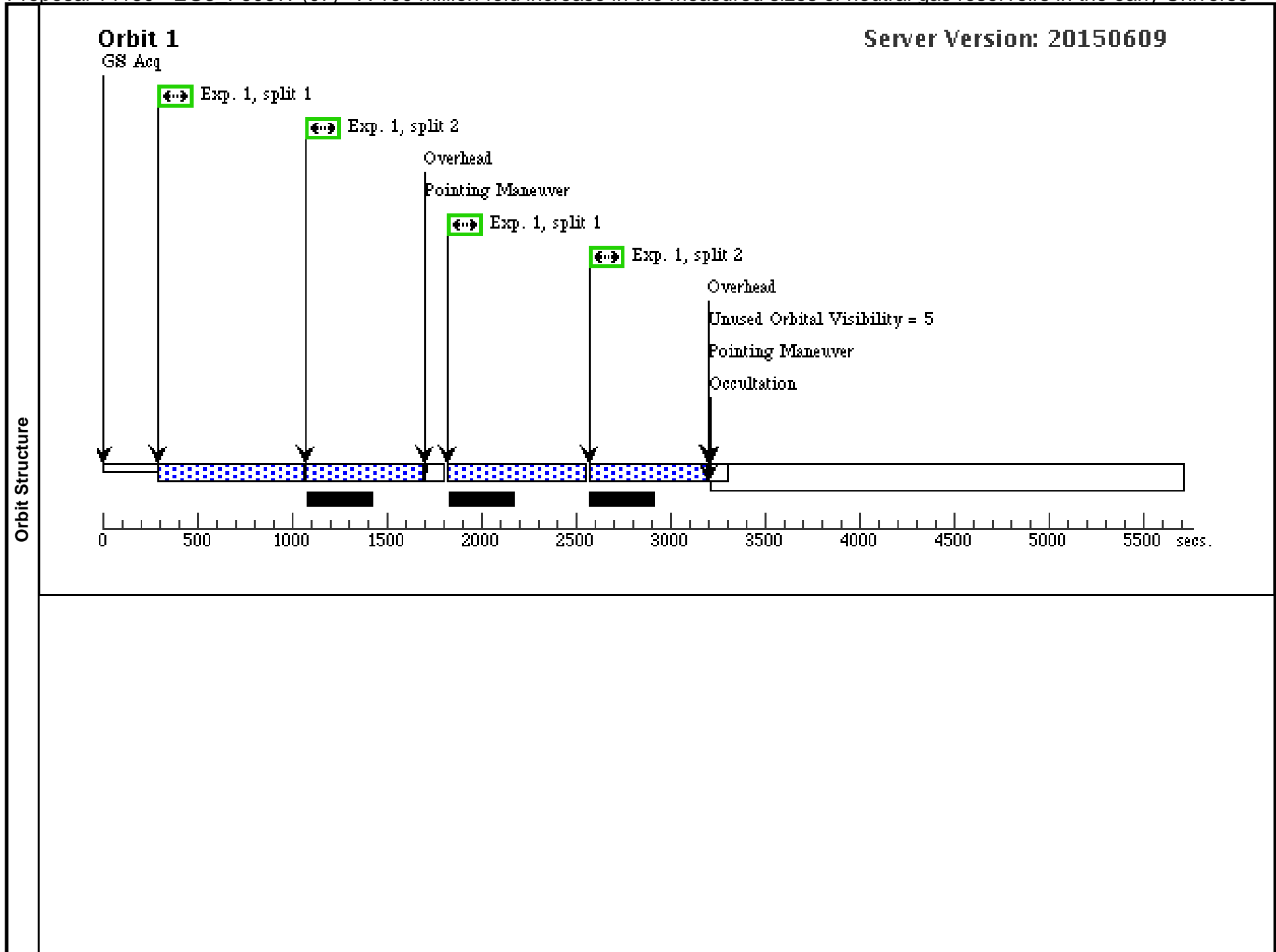


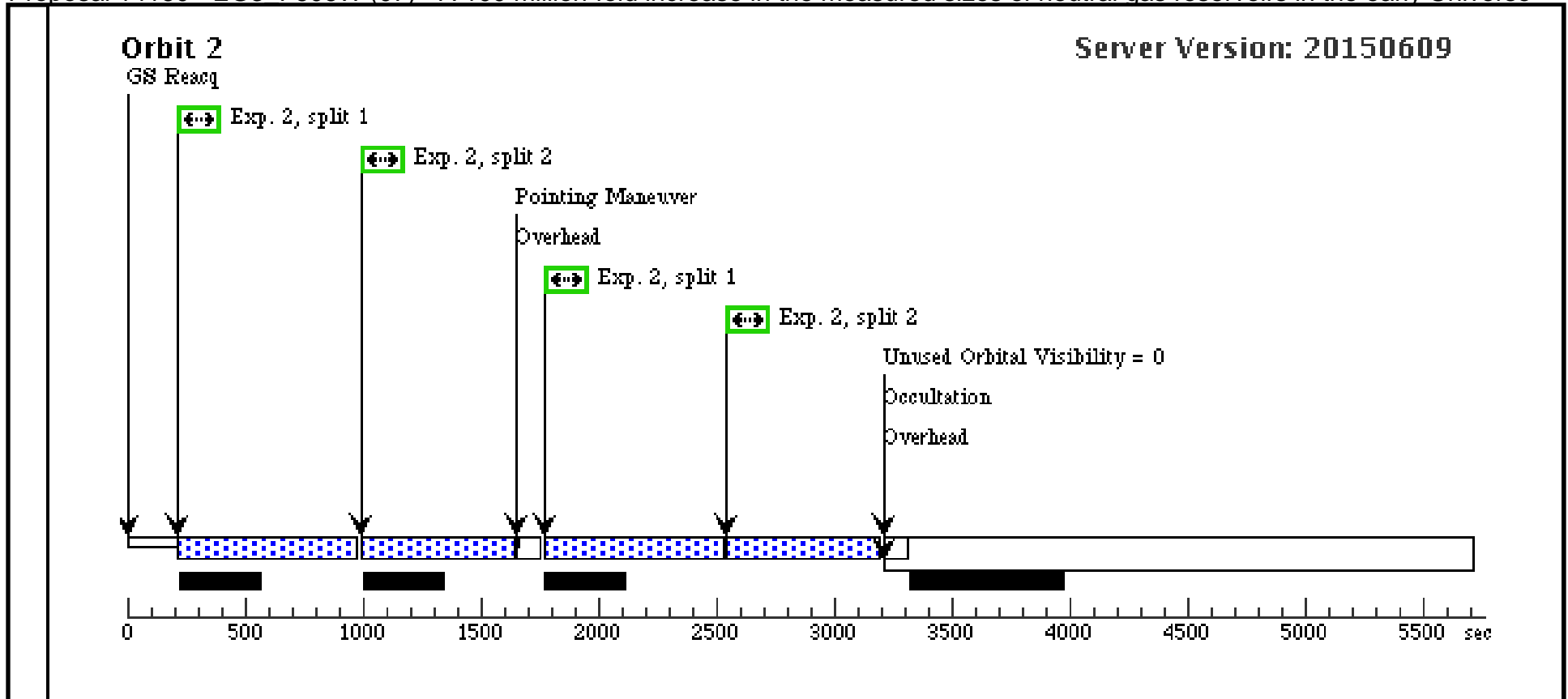


Proposal 14160 - EG3_F606W (07) - A 100 million-fold increase in the measured sizes of neutral gas reservoirs in the early Universe

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Visit	Proposal 14160, EG3_F606W (07), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(Exposure 1 (Pattern 1, Exps 1-1 in EG3_F606W (07)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes (Exposure 2 (Pattern 1, Exps 2-2 in EG3_F606W (07)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes									
Diagnosics										
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=							(1), (2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous		
	(3)	EG3	RA: 02 26 36.3460 (36.6514417d) Dec: -04 19 0.64 (-4.31684d) Equinox: J2000				V=23.66	Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) EG3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F606W	CR-SPLIT=2	POS TARG 7,7; GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-1 i n EG3_F606W (07) (1)	1240 Secs (2480 Secs) [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)]	[1]
	2		(3) EG3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F606W	CR-SPLIT=2	POS TARG 7,7	Pattern 1, Exps 2-2 i n EG3_F606W (07) (1)	1298 Secs (2596 Secs) [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)]	[2]

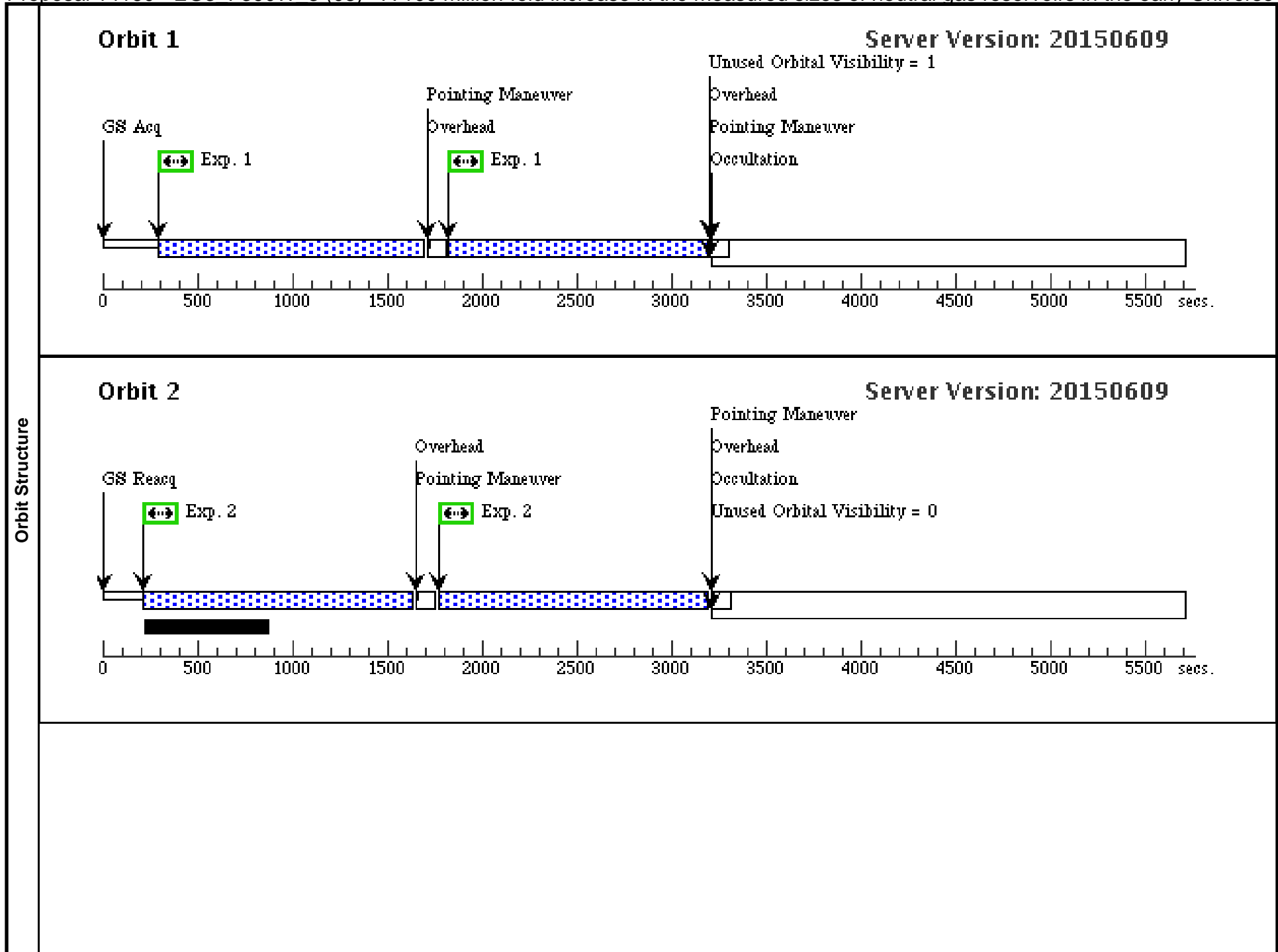


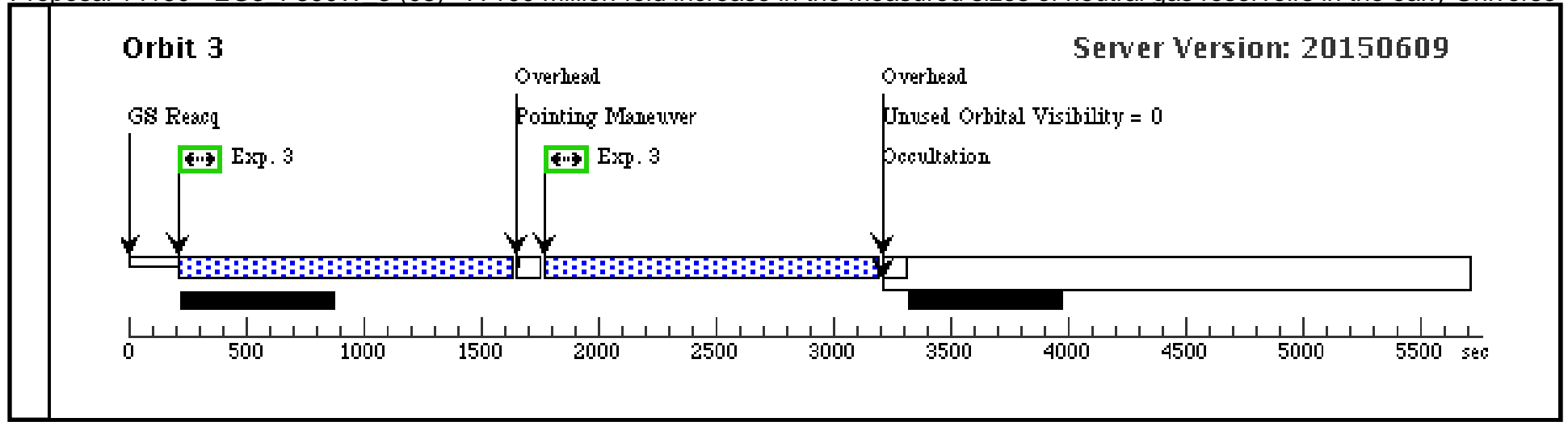


Proposal 14160 - EG3_F390W_3 (08) - A 100 million-fold increase in the measured sizes of neutral gas reservoirs in the early Universe

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Visit	Proposal 14160, EG3_F390W_3 (08), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 07										
	(Exposure 1 (Pattern 1, Exps 1-1 in EG3_F390W_3 (08)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes (Exposure 2 (Pattern 1, Exps 2-2 in EG3_F390W_3 (08)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes (Exposure 3 (Pattern 1, Exps 3-3 in EG3_F390W_3 (08)) special requirements) Warning (Form): Be very careful mixing POS TARG and Center_Pattern = Yes										
Diagnosics											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=								(1), (2), (3)	
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(3)	EG3	RA: 02 26 36.3460 (36.6514417d) Dec: -04 19 0.64 (-4.31684d) Equinox: J2000					V=23.66		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(3) EG3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F390W		POS TARG 7,7; GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-1 i n EG3_F390W_3 (0 8) (1)	1370 Secs (2740 Secs) [==>(Pattern 1)] [==>(Pattern 2)]		[1]
	2		(3) EG3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F390W		POS TARG 7,7	Pattern 1, Exps 2-2 i n EG3_F390W_3 (0 8) (1)	1426 Secs (2852 Secs) [==>(Pattern 1)] [==>(Pattern 2)]		[2]
	3		(3) EG3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F390W		POS TARG 7,7	Pattern 1, Exps 3-3 i n EG3_F390W_3 (0 8) (1)	1426 Secs (2852 Secs) [==>(Pattern 1)] [==>(Pattern 2)]		[3]





Proposal 14160 - EG3_F390W_2 (09) - A 100 million-fold increase in the measured sizes of neutral gas reservoirs in the early Universe

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Visit	Proposal 14160, EG3_F390W_2 (09), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 07										
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Diagnosics											
Patterns	#	Primary Pattern				Secondary Pattern			Exposures		
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=							(1), (2)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(3)	EG3	RA: 02 26 36.3460 (36.6514417d) Dec: -04 19 0.64 (-4.31684d) Equinox: J2000				V=23.66	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(3) EG3	(3) EG3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F390W		POS TARG 7,7; GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-1 i n EG3_F390W_2 (0 9) (1)	1370 Secs (2740 Secs)		
									[==>(Pattern 1)]		[1]
									[==>(Pattern 2)]		
2	(3) EG3	(3) EG3	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F390W		POS TARG 7,7	Pattern 1, Exps 2-2 i n EG3_F390W_2 (0 9) (1)	1426 Secs (2852 Secs)			
								[==>(Pattern 1)]		[2]	
								[==>(Pattern 2)]			

