



14718 - The Metal-Enriched Environments of Galaxies Near Reionization

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	(1) ULAS-J1120+0641-FIELD	ACS/WFC	2	19-May-2017 21:03:32.0	yes
51	(1) ULAS-J1120+0641-FIELD	ACS/WFC	2	19-May-2017 21:03:34.0	yes
02	(1) ULAS-J1120+0641-FIELD	ACS/WFC	3	19-May-2017 21:03:35.0	yes
03	(1) ULAS-J1120+0641-FIELD	ACS/WFC	3	19-May-2017 21:03:37.0	yes
06	(1) ULAS-J1120+0641-FIELD	WFC3/IR	2	19-May-2017 21:03:39.0	yes
07	(1) ULAS-J1120+0641-FIELD	WFC3/IR	2	19-May-2017 21:03:41.0	yes
08	(1) ULAS-J1120+0641-FIELD	WFC3/IR	3	19-May-2017 21:03:43.0	yes
09	(1) ULAS-J1120+0641-FIELD	WFC3/IR	3	19-May-2017 21:03:46.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
10	(1) ULAS-J1120+0641-FIELD	WFC3/IR	3	19-May-2017 21:03:49.0	yes

23 Total Orbits Used

ABSTRACT

The relationship between galaxies and extended metal-enriched gas offers a powerful diagnostic of the feedback processes that shape galaxy growth. Over $0 < z < 3$, significant insights into this relationship have been gained by studying the galaxies associated with quasar metal absorption lines. We can now trace metals in quasar spectra back to $z > 6$; to date, however, little work on the galaxy-absorber connection at these redshifts has been done due to the high cost of identifying the galaxies. To overcome this obstacle, we propose to obtain deep ACS and WFC3 imaging--building on archival data--in the field of a single $z=7$ quasar whose spectrum contains an unusually high number of intervening absorbers over $5.5 < z < 6.5$. Targeting this field will allow us to search for galaxies associated with multiple metal systems simultaneously, offering a high multiplexing advantage for follow-up spectroscopy. The extent to which $z\sim 6$ galaxies are (or are not) associated with these metal lines, and the relationship between absorber and galaxy properties will deliver much needed insights into the mechanisms that drive galaxy growth and metal enrichment during the reionization epoch.

OBSERVING DESCRIPTION

This program observes a single field with 21 orbits:

8 orbits ACS: F606W, F775W

13 orbits WFC3/IR: F105W, F125W, F160W

F606W 2 orbits

F775W 6 orbits

F105W 4 orbits

F125W 3 orbits

F160W 6 orbits

Each visit contains 2-3 orbits all in 1 filter

Proposal 14718 (STScI Edit Number: 1, Created: Friday, May 19, 2017 8:03:50 PM EST) - Overview

Each orbit is split into 4 exposures, dithering in a small box to improve subpixel sampling.

Larger dither steps separate orbits within each visit

to fill in the ACS chip gap (3") and WFC3/IR death star (7").

The ACS ORIENTs are fixed to match that of the existing archival imaging: 129 or 309 degrees.

The WFC3/IR ORIENTs must all be the same, but that ORIENT may be any angle.

Timing restrictions are placed on two of the WFC3/IR visits

yielding 2 epochs of F105W and F160W separated by 30-60 days

to identify / rule out variable sources.

We also added a group link (WITHIN 5 days) between one of the F775W visits and one of the F125W visits.

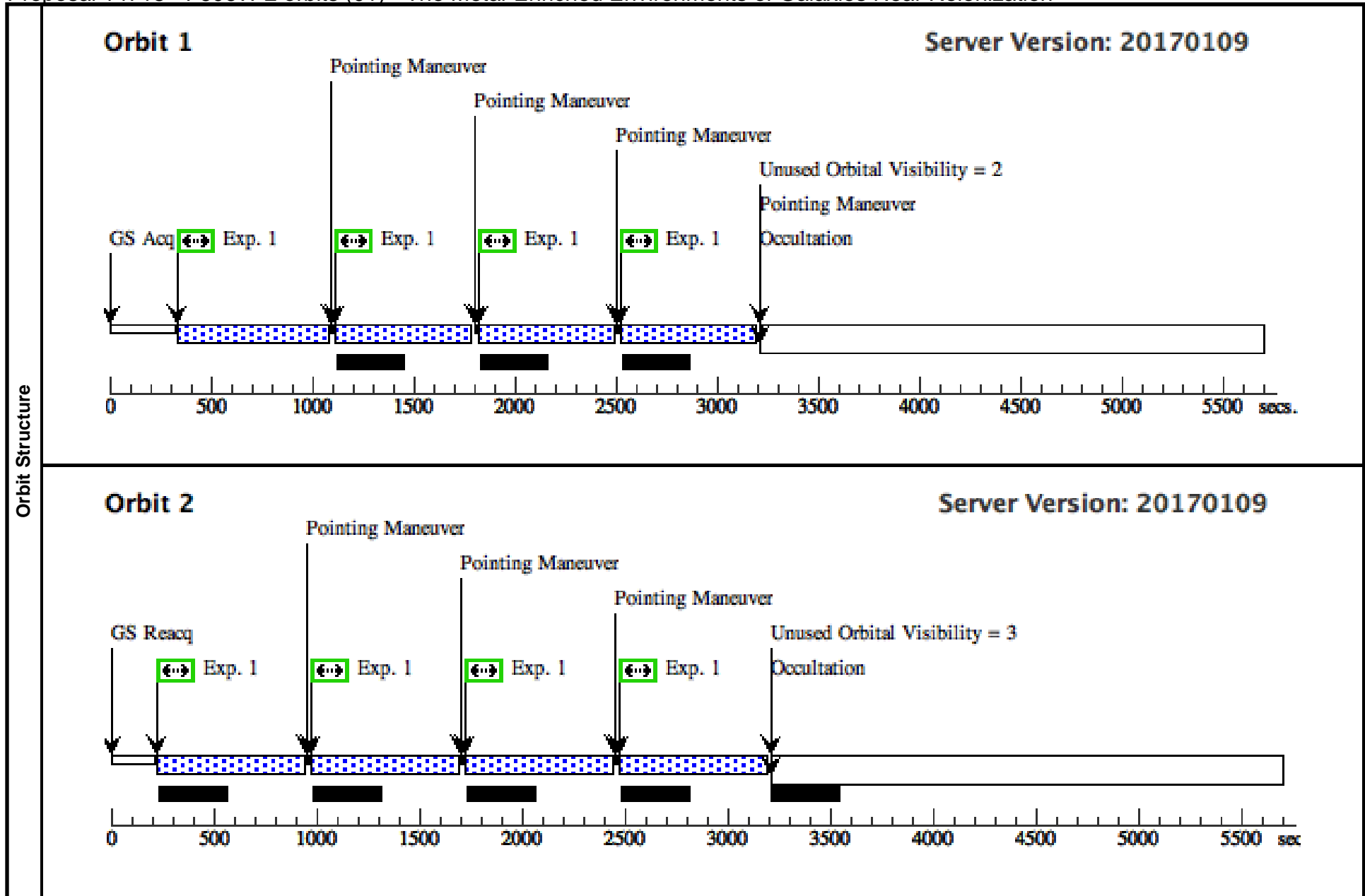
We need at least some of the ACS imaging to be roughly concurrent with some of the WFC3/IR imaging.

Phase 2 prepared in APT v24.2 by Co-I Dan Coe for PI George Becker

Proposal 14718 - F606W 2 orbits (01) - The Metal-Enriched Environments of Galaxies Near Reionization

Sat May 20 01:03:50 GMT 2017

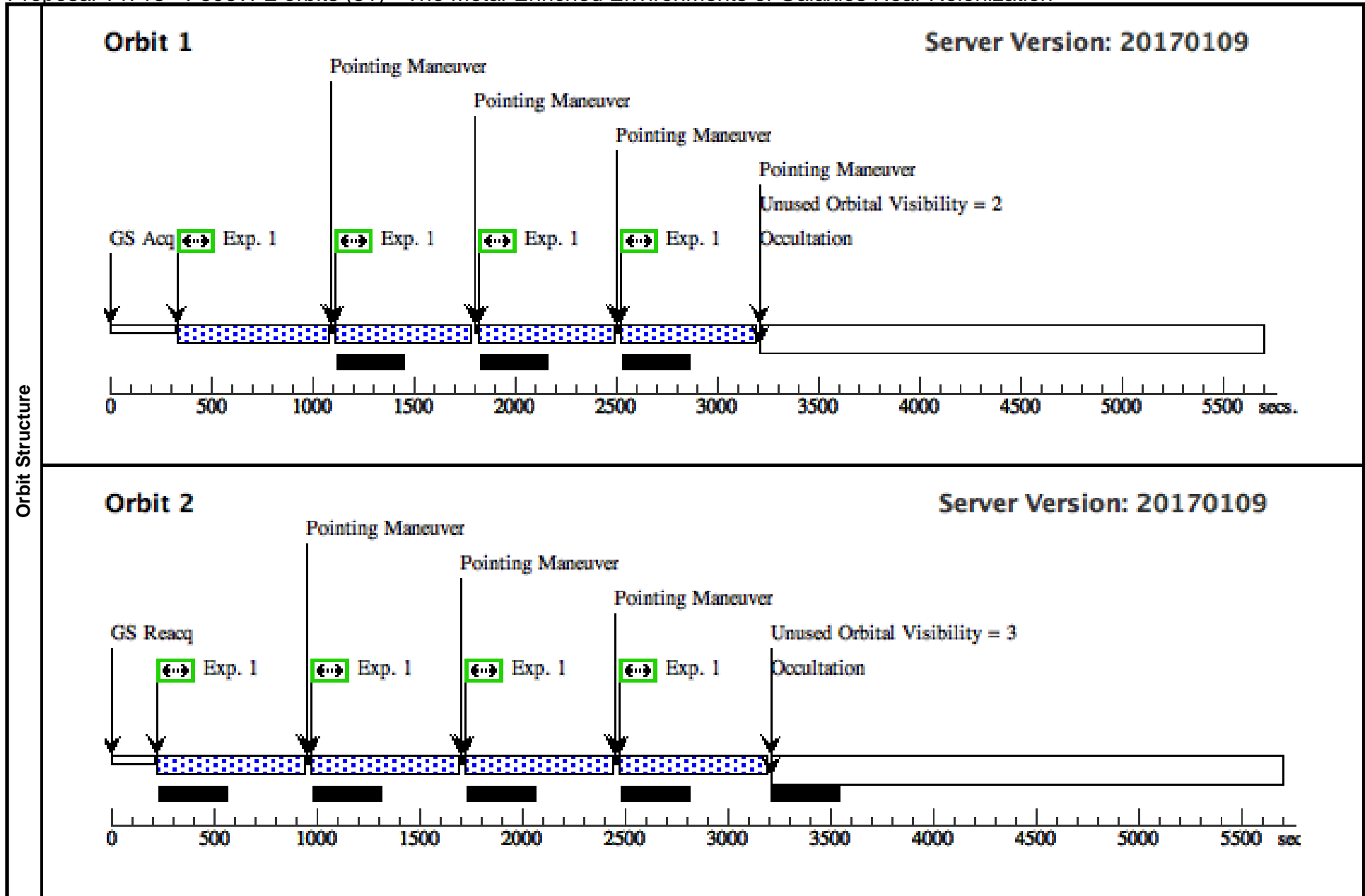
Visit	Proposal 14718, F606W 2 orbits (01), completed Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: ORIENT 129D TO 129 D; ORIENT 309D TO 309 D									
	Patterns	#	Primary Pattern				Secondary Pattern			
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=true	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=true	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(1)	ULAS-J1120+0641-FIELD	RA: 11 20 1.5654 (170.0065225d) Dec: +06 41 21.97 (6.68944d) Equinox: J2000			V=(?) QSO has Y_AB=20.3, but primary the targets are faint (m_z < 28.2) galaxies in the QSO field	Reference Frame: NED			
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) ULAS-J1120+0641-FIELD	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-1 in F606W 2 orbits (01) (1)	500 Secs (4560 Secs) [==>546.0 Secs (Pattern 1,1)] [==>546.0 Secs (Pattern 1,2)] [==>546.0 Secs (Pattern 1,3)] [==>546.0 Secs (Pattern 1,4)] [==>594.0 Secs (Pattern 2,1)] [==>594.0 Secs (Pattern 2,2)] [==>594.0 Secs (Pattern 2,3)] [==>594.0 Secs (Pattern 2,4)]	[1] [2]



Proposal 14718 - F606W 2 orbits (51) - The Metal-Enriched Environments of Galaxies Near Reionization

Sat May 20 01:03:50 GMT 2017

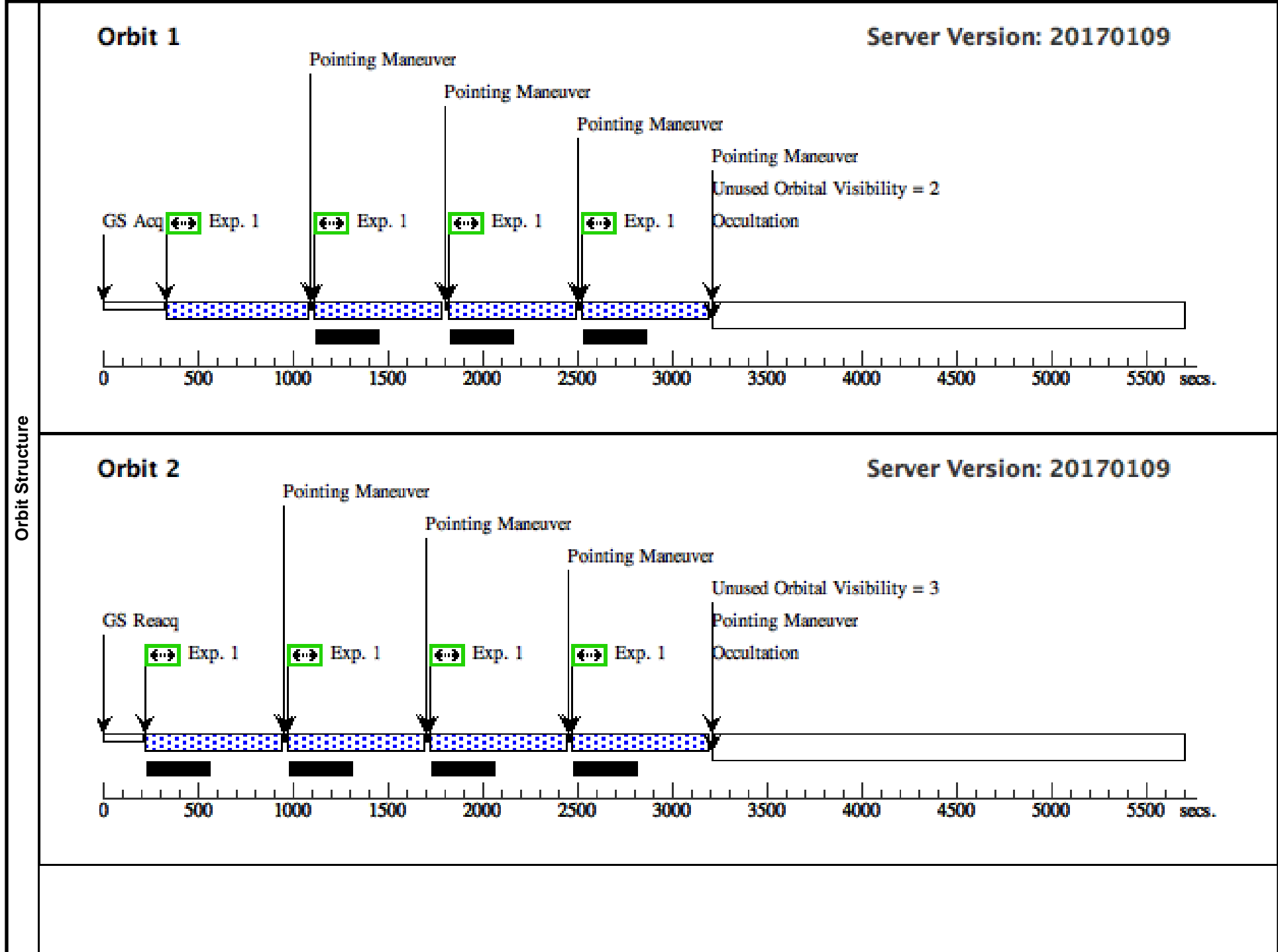
Visit	Proposal 14718, F606W 2 orbits (51) Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: ORIENT 129D TO 129 D; ORIENT 309D TO 309 D									
	Patterns	#	Primary Pattern				Secondary Pattern			
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=3.034 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=true	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=true	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(1)	ULAS-J1120+0641-FIELD	RA: 11 20 1.5654 (170.0065225d) Dec: +06 41 21.97 (6.68944d) Equinox: J2000			V=(?) QSO has Y_AB=20.3, but primary the targets are faint (m_z < 28.2) galaxies in the QSO field	Reference Frame: NED			
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) ULAS-J1120+0641-FIELD	ACS/WFC, ACCUM, WFCENTER	F606W			Pattern 1, Exps 1-1 in F606W 2 orbits (51) (1)	500 Secs (4560 Secs) [==>546.0 Secs (Pattern 1,1)] [==>546.0 Secs (Pattern 1,2)] [==>546.0 Secs (Pattern 1,3)] [==>546.0 Secs (Pattern 1,4)] [==>594.0 Secs (Pattern 2,1)] [==>594.0 Secs (Pattern 2,2)] [==>594.0 Secs (Pattern 2,3)] [==>594.0 Secs (Pattern 2,4)]	[1] [2]

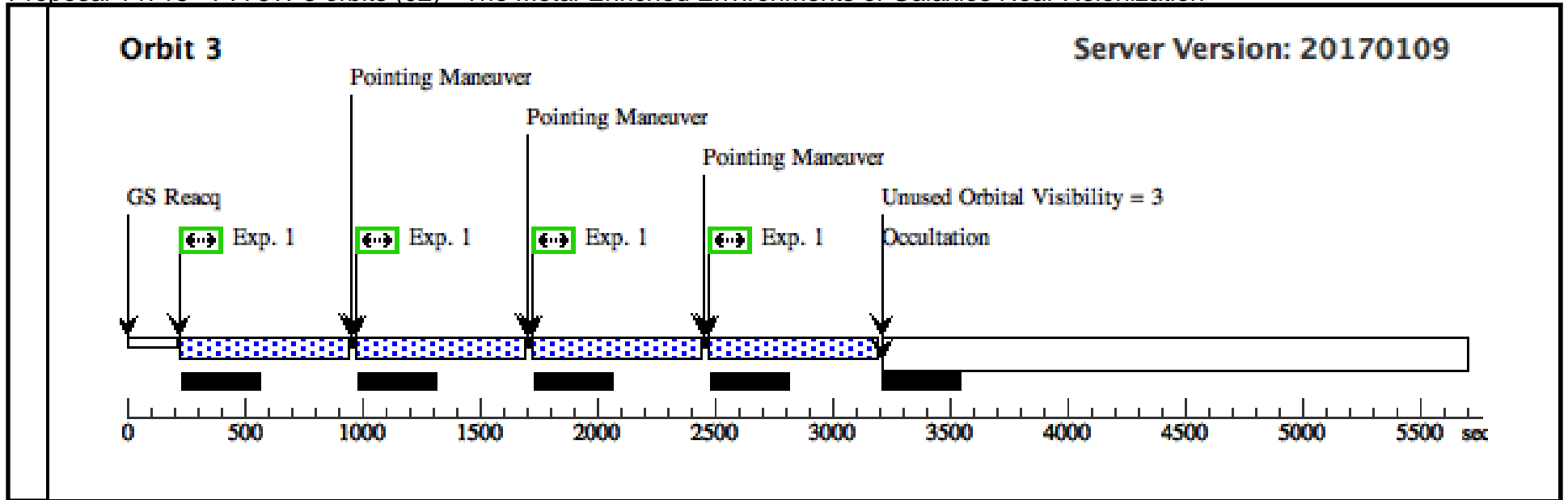


Proposal 14718 - F775W 3 orbits (02) - The Metal-Enriched Environments of Galaxies Near Reionization

Sat May 20 01:03:50 GMT 2017

Visit	Proposal 14718, F775W 3 orbits (02), completed Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 01								
	Patterns	# (6) Primary Pattern Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=1.517 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=true	Secondary Pattern Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	Coordinate Frame=POS-TARG Pattern Orientation=18.39 Angle Between Sides=68.14 Center Pattern=true	Exposures (1)			
Fixed Targets	# (1) Name ULAS-J1120+0641-FIELD	Target Coordinates RA: 11 20 1.5654 (170.0065225d) Dec: +06 41 21.97 (6.68944d) Equinox: J2000	Targ. Coord. Corrections	Fluxes V=(?) QSO has Y_AB=20.3, but primary the targets are faint (m_z < 28.2) galaxies in the QSO field	Miscellaneous Reference Frame: NED				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures	# 1 Label (1) ULAS-J1120+0641-FIELD	Target ACS/WFC, ACCUM, WFCENTER	Config,Mode,Aperture F775W	Spectral Els.	Opt. Params.	Special Reqs.	Groups Pattern 6, Exps 1-1 in F775W 3 orbits (02) (6)	Exp. Time (Total)/[Actual Dur.] 500 Secs (6936 Secs) [=>546.0 Secs (Pattern 1,1)] [=>546.0 Secs (Pattern 1,2)] [=>546.0 Secs (Pattern 1,3)] [=>546.0 Secs (Pattern 1,4)] [=>594.0 Secs (Pattern 2,1)] [=>594.0 Secs (Pattern 2,2)] [=>594.0 Secs (Pattern 2,3)] [=>594.0 Secs (Pattern 2,4)] [=>594.0 Secs (Pattern 3,1)] [=>594.0 Secs (Pattern 3,2)] [=>594.0 Secs (Pattern 3,3)] [=>594.0 Secs (Pattern 3,4)]	Orbit [1] [2] [3]

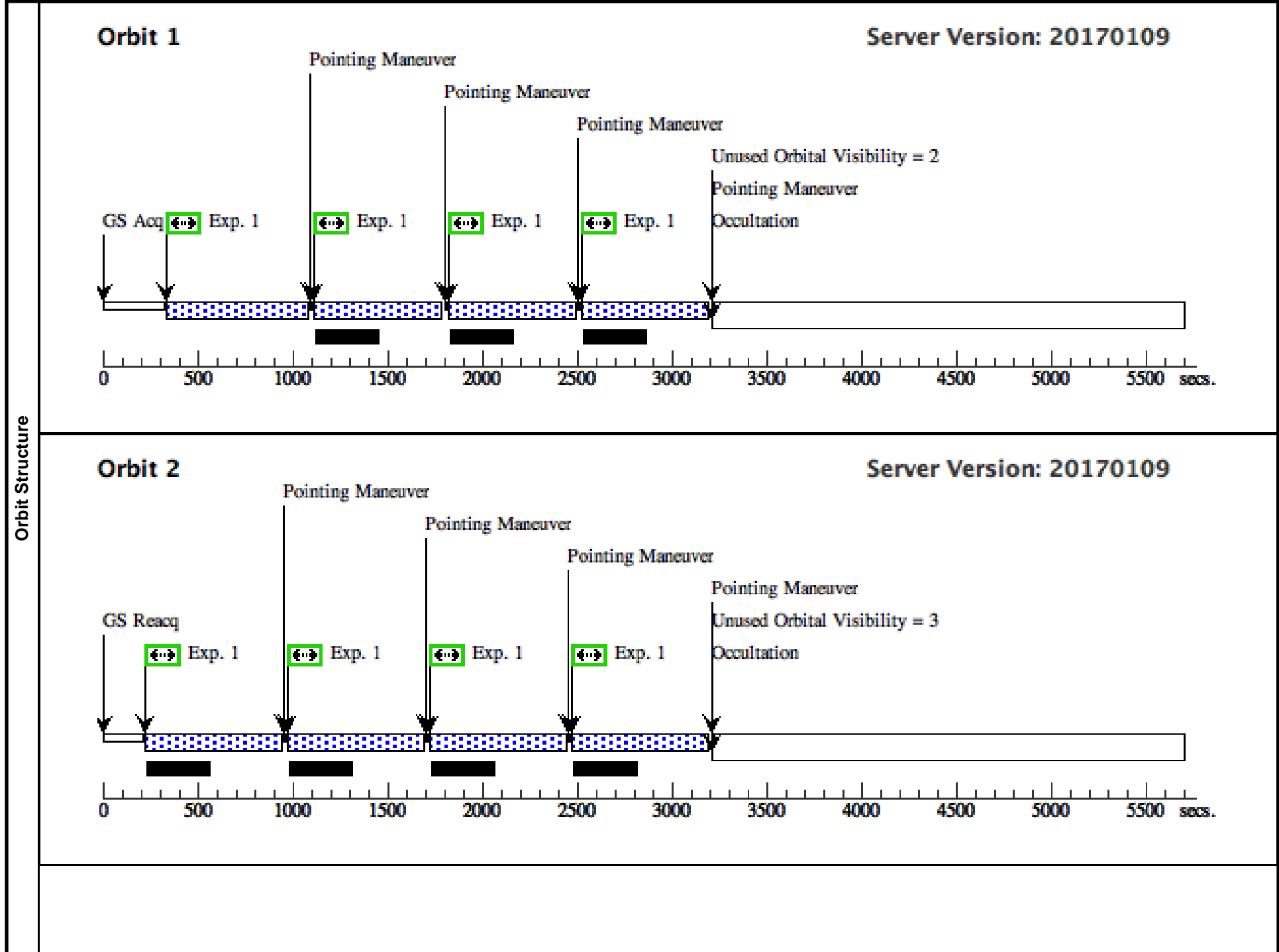


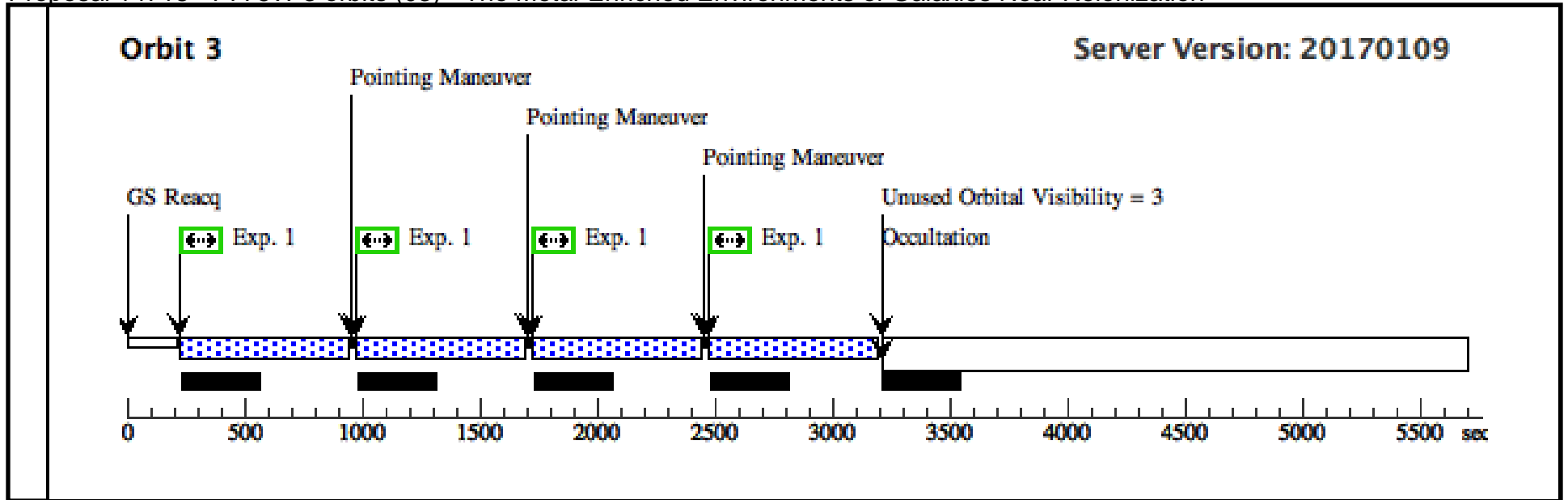


Proposal 14718 - F775W 3 orbits (03) - The Metal-Enriched Environments of Galaxies Near Reionization

Sat May 20 01:03:50 GMT 2017

Visit	Proposal 14718, F775W 3 orbits (03), completed Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 01									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(6)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=1.517 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.29 Angle Between Sides= Center Pattern=true	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.262 Line Spacing=0.192	(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	ULAS-J1120+0641-FIELD	RA: 11 20 1.5654 (170.0065225d) Dec: +06 41 21.97 (6.68944d) Equinox: J2000		V=(?) QSO has Y_AB=20.3, but primary the targets are faint (m_z < 28.2) galaxies in the QSO field	Reference Frame: NED				
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) ULAS-J1120+0641-FIELD	ACS/WFC, ACCUM, WFCENTER	F775W			Pattern 6, Exps 1-1 in F775W 3 orbits (03) (6)	500 Secs (6936 Secs)	
									[==>546.0 Secs (Pattern 1,1)]	[1]
									[==>546.0 Secs (Pattern 1,2)]	
									[==>546.0 Secs (Pattern 1,3)]	
								[==>546.0 Secs (Pattern 1,4)]		
								[==>594.0 Secs (Pattern 2,1)]		
								[==>594.0 Secs (Pattern 2,2)]	[2]	
								[==>594.0 Secs (Pattern 2,3)]		
								[==>594.0 Secs (Pattern 2,4)]		
								[==>594.0 Secs (Pattern 3,1)]		
								[==>594.0 Secs (Pattern 3,2)]		
								[==>594.0 Secs (Pattern 3,3)]	[3]	
								[==>594.0 Secs (Pattern 3,4)]		

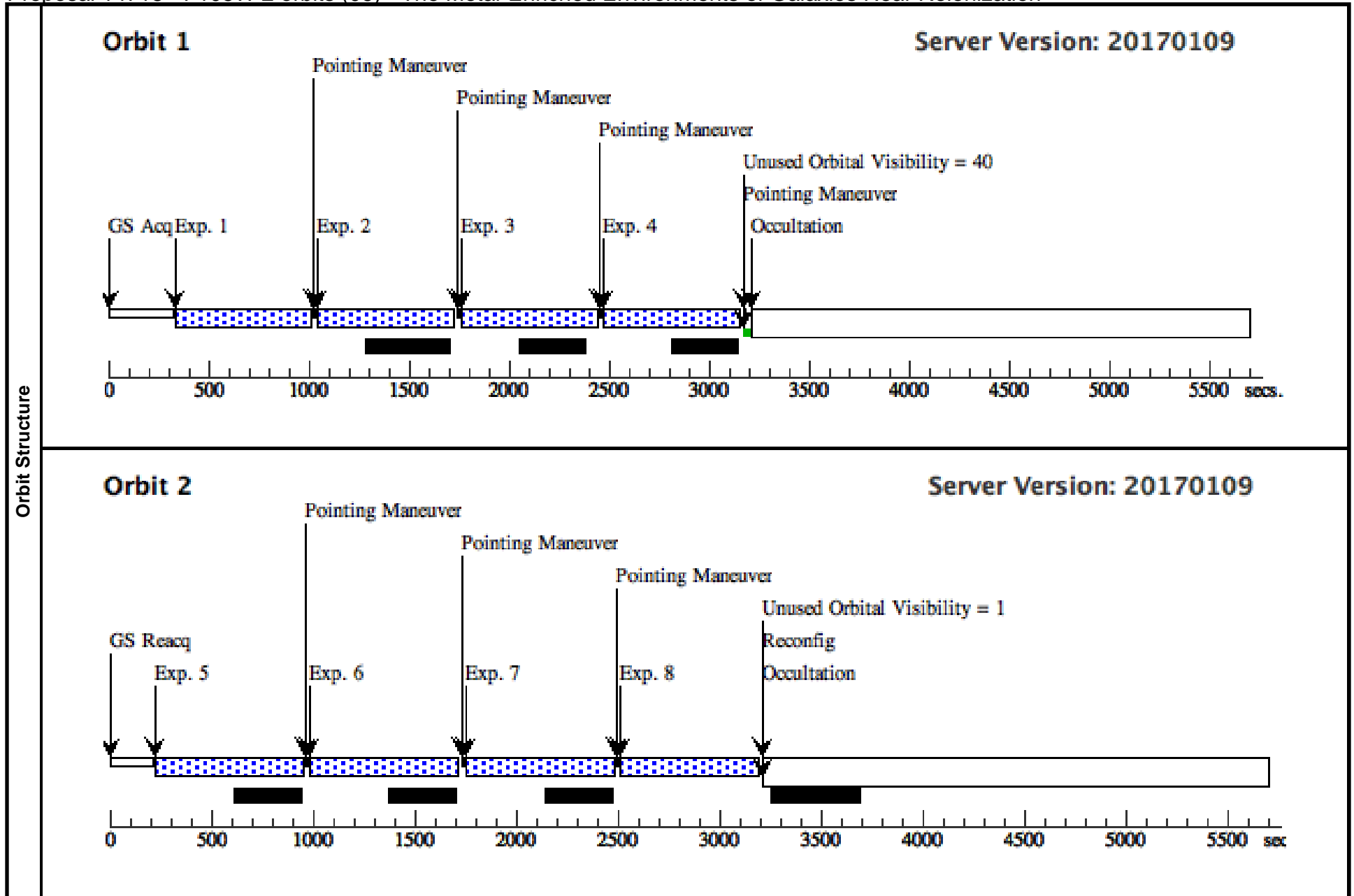




Proposal 14718 - F105W 2 orbits (06) - The Metal-Enriched Environments of Galaxies Near Reionization

Sat May 20 01:03:50 GMT 2017

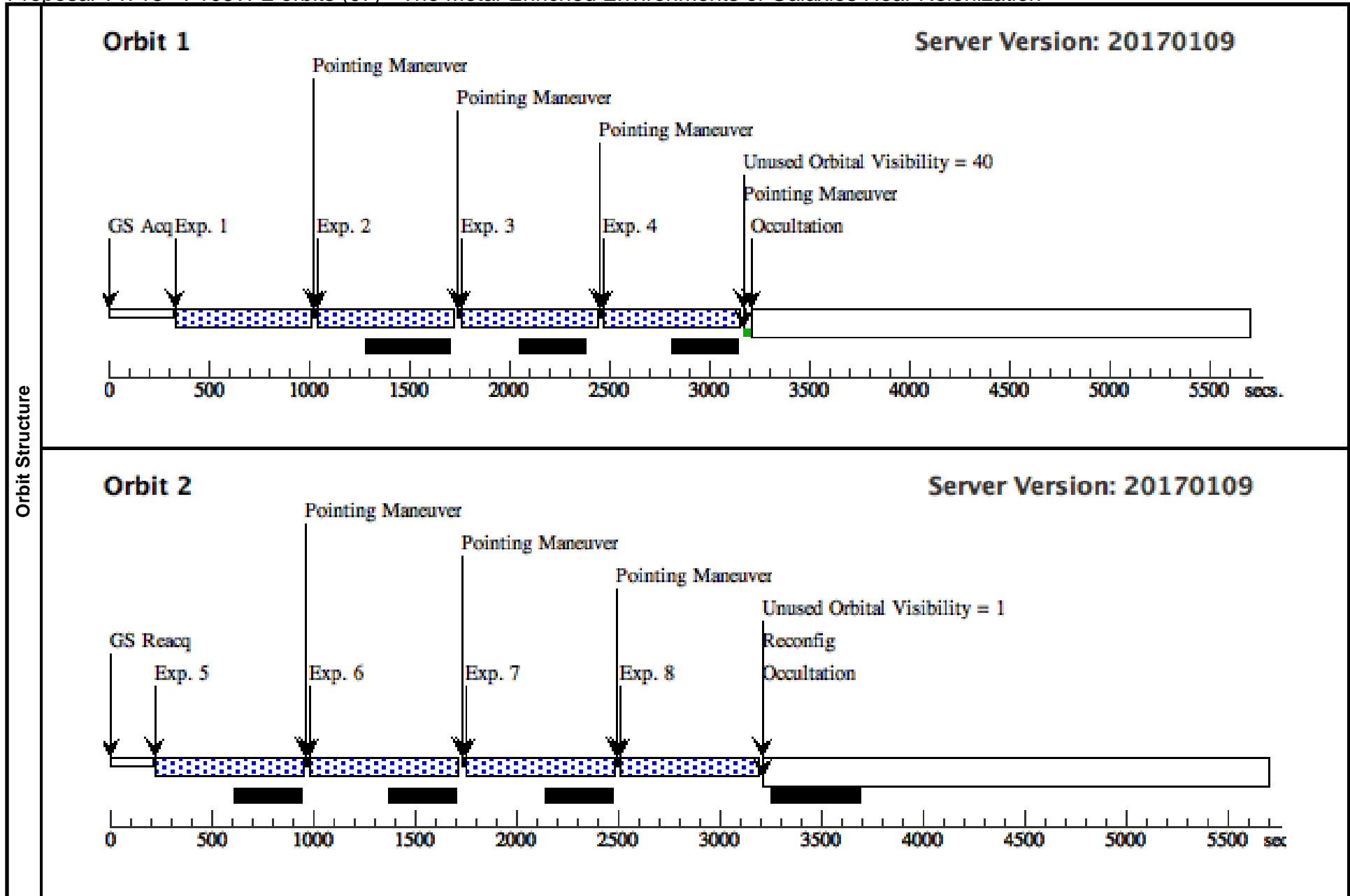
Visit	Proposal 14718, F105W 2 orbits (06), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none) <i>Comments: 4 exposures per orbit</i> WFC3-IR-DITHER-BOX-MIN implemented using POS TARGs pattern rotated/flipped between orbits to mitigate self persistence Large dither step between orbits to fill WFC3/IR death star									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	ULAS-J1120+0641-FIELD	RA: 11 20 1.5654 (170.0065225d) Dec: +06 41 21.97 (6.68944d) Equinox: J2000		V=(?) QSO has Y_AB=20.3, but primary the targets are faint (m_z < 28.2) galaxies in the QSO field	Reference Frame: NED				
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) ULAS-J1120+0641-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F105W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -3.5,-0.3 39		652.938154 Secs (652.938 Secs) [==>]	[1]
	2		(1) ULAS-J1120+0641-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F105W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -4.042,-0.157		652.938154 Secs (652.938 Secs) [==>]	[1]
	3		(1) ULAS-J1120+0641-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F105W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -3.839,0.146		652.938154 Secs (652.938 Secs) [==>]	[1]
	4		(1) ULAS-J1120+0641-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F105W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -3.297,-0.036		652.938154 Secs (652.938 Secs) [==>]	[1]
	5		(1) ULAS-J1120+0641-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F105W	NSAMP=15; SAMP-SEQ=SPAR S50	POS TARG 3.5,0.33 9		702.938605 Secs (702.939 Secs) [==>]	[2]
	6		(1) ULAS-J1120+0641-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F105W	NSAMP=15; SAMP-SEQ=SPAR S50	POS TARG 3.318,0.881		702.938605 Secs (702.939 Secs) [==>]	[2]
	7		(1) ULAS-J1120+0641-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F105W	NSAMP=15; SAMP-SEQ=SPAR S50	POS TARG 3.015,0.678		702.938605 Secs (702.939 Secs) [==>]	[2]
	8		(1) ULAS-J1120+0641-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F105W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG 3.197,0.136		652.938154 Secs (652.938 Secs) [==>]	[2]



Proposal 14718 - F105W 2 orbits (07) - The Metal-Enriched Environments of Galaxies Near Reionization

Sat May 20 01:03:50 GMT 2017

Visit	Proposal 14718, F105W 2 orbits (07), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 06; AFTER 06 BY 30 D TO 60 D Comments: 4 exposures per orbit WFC3-IR-DITHER-BOX-MIN implemented using POS TARGs pattern rotated/flipped between orbits to mitigate self persistence Large dither step between orbits to fill WFC3/IR death star									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	ULAS-J1120+0641-FIELD	RA: 11 20 1.5654 (170.0065225d) Dec: +06 41 21.97 (6.68944d) Equinox: J2000		V=(?) QSO has Y_AB=20.3, but primary the targets are faint (m_z < 28.2) galaxies in the QSO field	Reference Frame: NED				
	Comments: This object was generated by the targetselector and retrieved from the NED database.									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) ULAS-J1120+0641-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F105W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -3.5,-0.3 39		652.938154 Secs (652.938 Secs) [==>]	[1]
	2		(1) ULAS-J1120+0641-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F105W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -4.042,-0.157		652.938154 Secs (652.938 Secs) [==>]	[1]
	3		(1) ULAS-J1120+0641-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F105W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -3.839,0.146		652.938154 Secs (652.938 Secs) [==>]	[1]
	4		(1) ULAS-J1120+0641-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F105W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -3.297,-0.036		652.938154 Secs (652.938 Secs) [==>]	[1]
	5		(1) ULAS-J1120+0641-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F105W	NSAMP=15; SAMP-SEQ=SPAR S50	POS TARG 3.5,0.33 9		702.938605 Secs (702.939 Secs) [==>]	[2]
	6		(1) ULAS-J1120+0641-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F105W	NSAMP=15; SAMP-SEQ=SPAR S50	POS TARG 3.318,0.881		702.938605 Secs (702.939 Secs) [==>]	[2]
	7		(1) ULAS-J1120+0641-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F105W	NSAMP=15; SAMP-SEQ=SPAR S50	POS TARG 3.015,0.678		702.938605 Secs (702.939 Secs) [==>]	[2]
8		(1) ULAS-J1120+0641-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F105W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG 3.197,0.136		652.938154 Secs (652.938 Secs) [==>]	[2]	



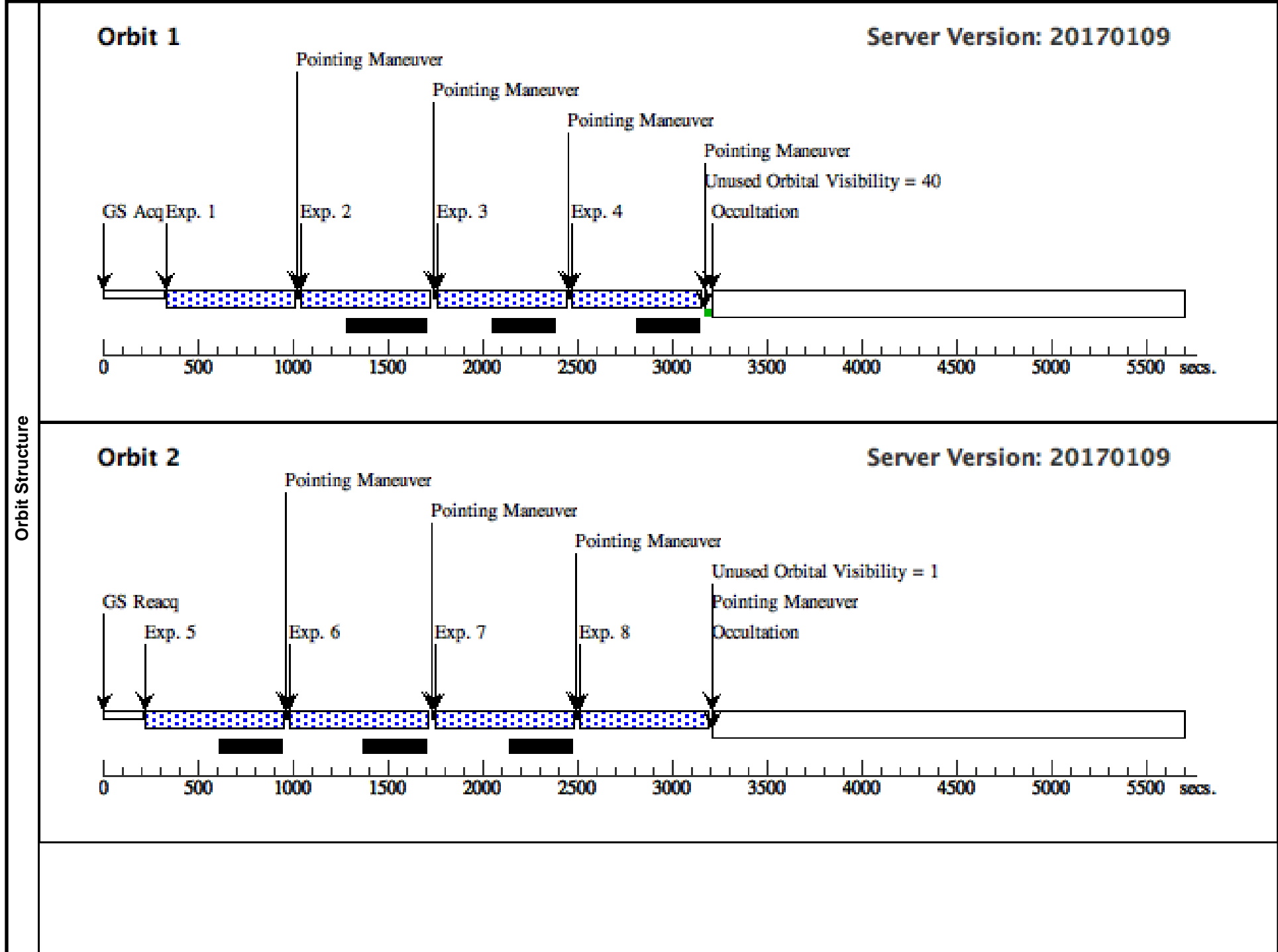
Proposal 14718 - F125W 3 orbits (08) - The Metal-Enriched Environments of Galaxies Near Reionization

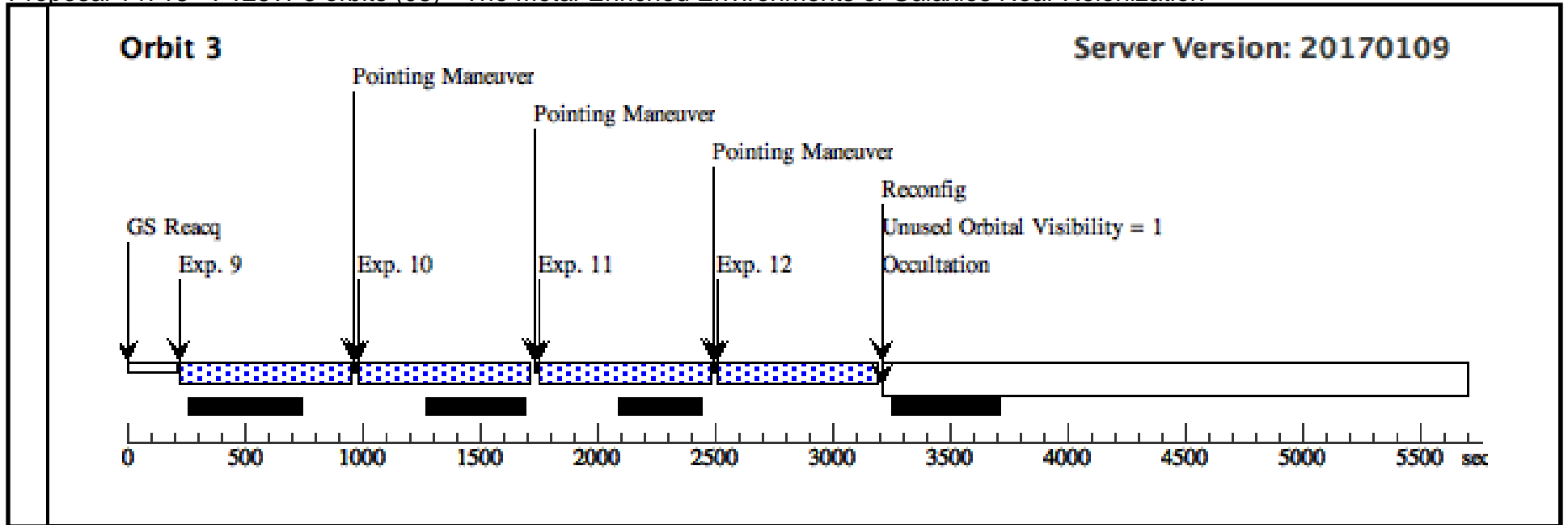
Sat May 20 01:03:50 GMT 2017

Visit	Proposal 14718, F125W 3 orbits (08), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: SAME ORIENT AS 06; GROUP 08,02 WITHIN 5D <i>Comments: 4 exposures per orbit</i> <i>WFC3-IR-DITHER-BOX-MIN implemented using POS TARGs</i> <i>pattern rotated/flipped between orbits to mitigate self persistence</i> <i>Large dither step between orbits to fill WFC3/IR death star</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(1)		ULAS-J1120+0641-FIELD	RA: 11 20 1.5654 (170.0065225d) Dec: +06 41 21.97 (6.68944d) Equinox: J2000		V=(?) QSO has Y_AB=20.3, but primary the targets are faint (m_z < 28.2) galaxies in the QSO field	Reference Frame: NED
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>						

Proposal 14718 - F125W 3 orbits (08) - The Metal-Enriched Environments of Galaxies Near Reionization

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -3.5,-0.3 39			652.938154 Secs (652.938 Secs) [==>]	[1]
	2	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -4.042,- 0.157			652.938154 Secs (652.938 Secs) [==>]	[1]
	3	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -3.839,0 .146			652.938154 Secs (652.938 Secs) [==>]	[1]
	4	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -3.297,- 0.036			652.938154 Secs (652.938 Secs) [==>]	[1]
	5	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=15; SAMP-SEQ=SPAR S50	POS TARG 0,0			702.938605 Secs (702.939 Secs) [==>]	[2]
	6	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=15; SAMP-SEQ=SPAR S50	POS TARG 0.542,0. 182			702.938605 Secs (702.939 Secs) [==>]	[2]
	7	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=15; SAMP-SEQ=SPAR S50	POS TARG 0.339,0. 485			702.938605 Secs (702.939 Secs) [==>]	[2]
	8	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -0.203,0 .303			652.938154 Secs (652.938 Secs) [==>]	[2]
	9	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=15; SAMP-SEQ=SPAR S50	POS TARG 3.5,0.33 9			702.938605 Secs (702.939 Secs) [==>]	[3]
	10	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=15; SAMP-SEQ=SPAR S50	POS TARG 3.318,0. 881			702.938605 Secs (702.939 Secs) [==>]	[3]
	11	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=15; SAMP-SEQ=SPAR S50	POS TARG 3.015,0. 678			702.938605 Secs (702.939 Secs) [==>]	[3]
12	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG 3.197,0. 136			652.938154 Secs (652.938 Secs) [==>]	[3]	



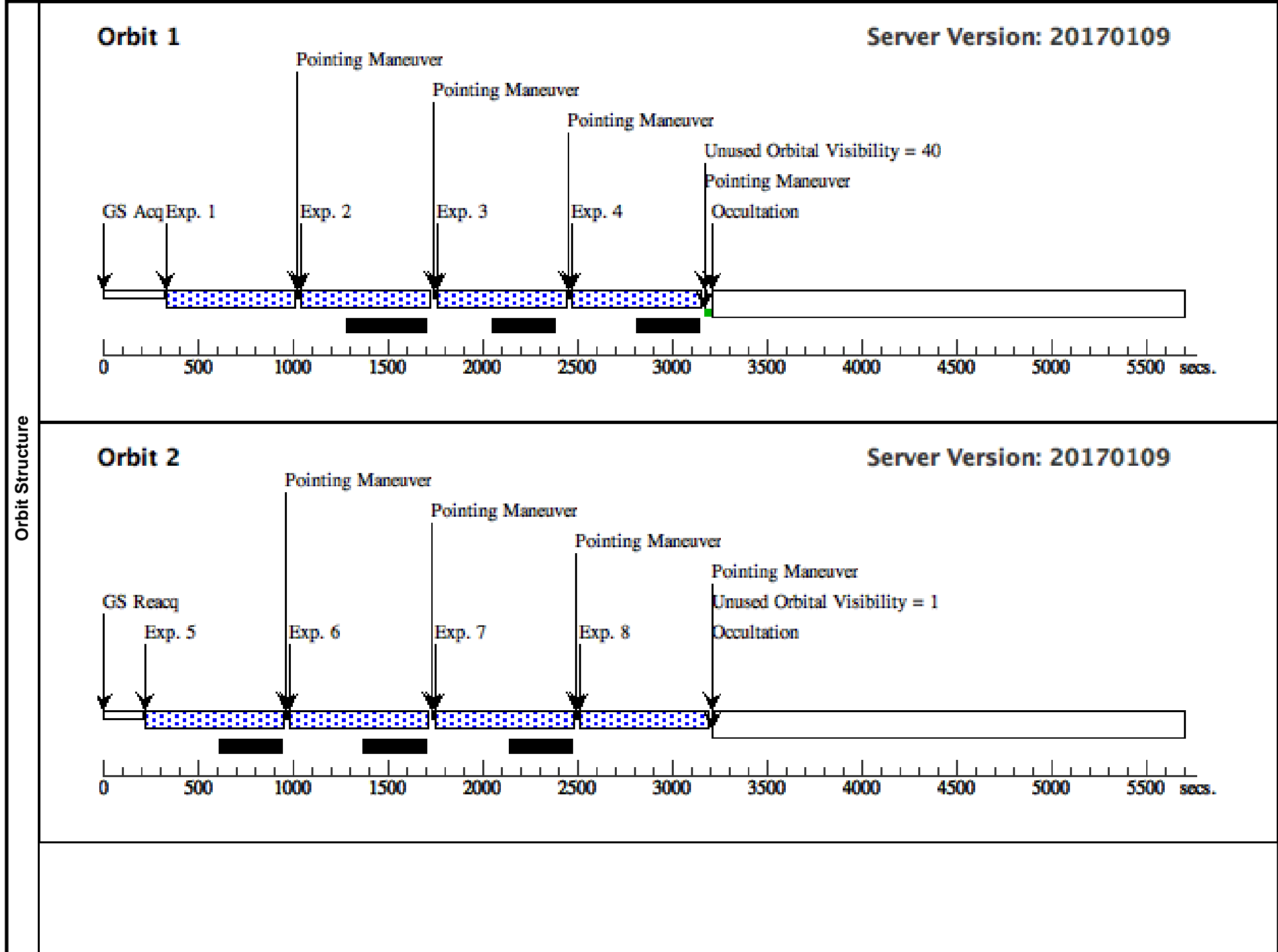


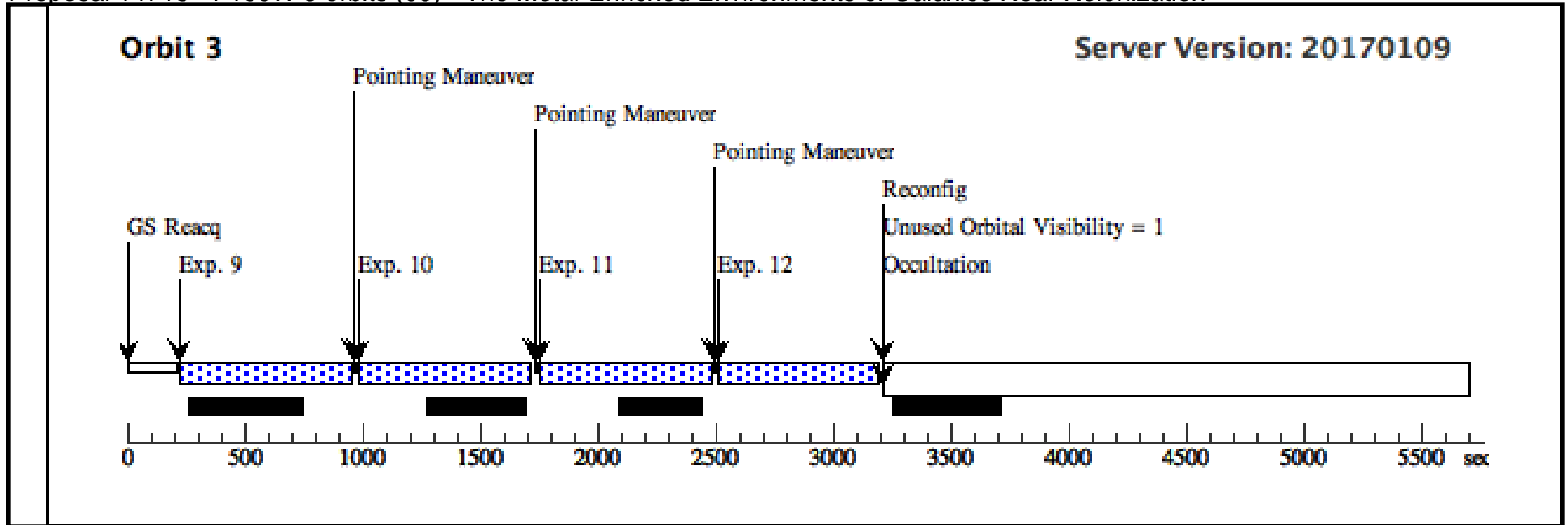
Proposal 14718 - F160W 3 orbits (09) - The Metal-Enriched Environments of Galaxies Near Reionization

Visit	<p>Proposal 14718, F160W 3 orbits (09), completed Sat May 20 01:03:51 GMT 2017</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: WFC3/IR</p> <p>Special Requirements: SAME ORIENT AS 06</p> <p><i>Comments: 4 exposures per orbit</i> <i>WFC3-IR-DITHER-BOX-MIN implemented using POS TARGs</i> <i>pattern rotated/flipped between orbits to mitigate self persistence</i> <i>Large dither step between orbits to fill WFC3/IR death star</i></p>												
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>ULAS-J1120+0641-FIELD</td> <td>RA: 11 20 1.5654 (170.0065225d) Dec: +06 41 21.97 (6.68944d) Equinox: J2000</td> <td></td> <td>V=(?) QSO has Y_AB=20.3, but primary the targets are faint (m_z < 28.2) galaxies in the QSO field</td> <td>Reference Frame: NED</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	ULAS-J1120+0641-FIELD	RA: 11 20 1.5654 (170.0065225d) Dec: +06 41 21.97 (6.68944d) Equinox: J2000		V=(?) QSO has Y_AB=20.3, but primary the targets are faint (m_z < 28.2) galaxies in the QSO field
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous								
(1)	ULAS-J1120+0641-FIELD	RA: 11 20 1.5654 (170.0065225d) Dec: +06 41 21.97 (6.68944d) Equinox: J2000		V=(?) QSO has Y_AB=20.3, but primary the targets are faint (m_z < 28.2) galaxies in the QSO field	Reference Frame: NED								

Proposal 14718 - F160W 3 orbits (09) - The Metal-Enriched Environments of Galaxies Near Reionization

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -3.5,-0.3 39			652.938154 Secs (652.938 Secs) [==>]	[1]
	2	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -4.042,- 0.157			652.938154 Secs (652.938 Secs) [==>]	[1]
	3	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -3.839,0 .146			652.938154 Secs (652.938 Secs) [==>]	[1]
	4	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -3.297,- 0.036			652.938154 Secs (652.938 Secs) [==>]	[1]
	5	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPAR S50	POS TARG 0,0			702.938605 Secs (702.939 Secs) [==>]	[2]
	6	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPAR S50	POS TARG 0.542,0. 182			702.938605 Secs (702.939 Secs) [==>]	[2]
	7	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPAR S50	POS TARG 0.339,0. 485			702.938605 Secs (702.939 Secs) [==>]	[2]
	8	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -0.203,0 .303			652.938154 Secs (652.938 Secs) [==>]	[2]
	9	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPAR S50	POS TARG 3.5,0.33 9			702.938605 Secs (702.939 Secs) [==>]	[3]
	10	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPAR S50	POS TARG 3.318,0. 881			702.938605 Secs (702.939 Secs) [==>]	[3]
	11	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPAR S50	POS TARG 3.015,0. 678			702.938605 Secs (702.939 Secs) [==>]	[3]
12	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG 3.197,0. 136			652.938154 Secs (652.938 Secs) [==>]	[3]	





Proposal 14718 - F160W 3 orbits (10) - The Metal-Enriched Environments of Galaxies Near Reionization

Sat May 20 01:03:51 GMT 2017

Visit	<p>Proposal 14718, F160W 3 orbits (10), scheduled</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: WFC3/IR</p> <p>Special Requirements: SAME ORIENT AS 06; AFTER 09 BY 30 D TO 60 D</p> <p><i>Comments: 4 exposures per orbit</i> <i>WFC3-IR-DITHER-BOX-MIN implemented using POS TARGs</i> <i>pattern rotated/flipped between orbits to mitigate self persistence</i> <i>Large dither step between orbits to fill WFC3/IR death star</i></p>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(1)		ULAS-J1120+0641-FIELD	RA: 11 20 1.5654 (170.0065225d) Dec: +06 41 21.97 (6.68944d) Equinox: J2000		V=(?) QSO has Y_AB=20.3, but primary the targets are faint (m_z < 28.2) galaxies in the QSO field	Reference Frame: NED
<p><i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i></p>						

Proposal 14718 - F160W 3 orbits (10) - The Metal-Enriched Environments of Galaxies Near Reionization

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -3.5,-0.3 39			652.938154 Secs (652.938 Secs) [==>]	[1]
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	4	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=14; SAMP-SEQ=SPAR S50	POS TARG -3.297,- 0.036			652.938154 Secs (652.938 Secs) [==>]	[1]
	5	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPAR S50	POS TARG 0,0			702.938605 Secs (702.939 Secs) [==>]	[2]
	6	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPAR S50	POS TARG 0.542,0. 182			702.938605 Secs (702.939 Secs) [==>]	[2]
	7	(1) ULAS-J1120+06 41-FIELD	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPAR S50	POS TARG 0.339,0. 485			702.938605 Secs (702.939 Secs) [==>]	[2]
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