



12569 - Ionized and Neutral Outflows in the QUEST QSOs

Cycle: 19, 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) QSO-B0007+107	COS/FUV	1	24-Jun-2011 21:30:02.0	yes
02	(2) QSO-B0026+129	COS/FUV	1	24-Jun-2011 21:30:10.0	yes
03	(3) QSO-B0050+124	COS/FUV	1	24-Jun-2011 21:30:16.0	yes
04	(4) QSO-B0157+001	COS/FUV	1	24-Jun-2011 21:30:22.0	yes

Proposal 12569 (STScI Edit Number: 1, Created: Friday, June 24, 2011 8:31:53 PM EST) - Overview

<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>
05	(5) QSO-B0844+349	COS/FUV	1	24-Jun-2011 21:30:27.0	yes
06	(6) QSO-B0923+201	COS/FUV	1	24-Jun-2011 21:30:31.0	yes
07	(7) 4C-13.41	COS/FUV	2	24-Jun-2011 21:30:38.0	yes
08	(8) QSO-B1126-041	COS/FUV	1	24-Jun-2011 21:30:43.0	yes
09	(9) QSO-B1229+204	COS/FUV	1	24-Jun-2011 21:30:47.0	yes
10	(10) QSO-B1254+571	COS/FUV COS/NUV	5	24-Jun-2011 21:31:04.0	yes
11	(11) QSO-B1307+085	COS/FUV	1	24-Jun-2011 21:31:14.0	yes
12	(12) QSO-B1309+3531	COS/FUV	1	24-Jun-2011 21:31:18.0	yes
13	(13) QSO-B1351+6400	COS/FUV	1	24-Jun-2011 21:31:22.0	yes
14	(14) QSO-B1411+4414	COS/FUV	1	24-Jun-2011 21:31:26.0	yes
15	(15) QSO-B1435-0645	COS/FUV	1	24-Jun-2011 21:31:30.0	yes
16	(16) QSO-B1440+3539	COS/FUV	1	24-Jun-2011 21:31:35.0	yes
17	(17) QSO-B1617+1731	COS/FUV	1	24-Jun-2011 21:31:41.0	yes
18	(18) QSO-B2214+139	COS/FUV	1	24-Jun-2011 21:31:45.0	yes
19	(19) 4C--01.61	COS/FUV	1	24-Jun-2011 21:31:49.0	yes

24 Total Orbits Used

ABSTRACT

The role of galactic winds in gas-rich mergers is of crucial importance to understand galaxy and SMBH evolution. In recent months, our group has had three major scientific breakthroughs in this area: (1) The discovery with Herschel of massive molecular (OH-absorbing) outflows in several ULIRGs, including the nearest quasar, Mrk 231. (2) The independent discovery from mm-wave interferometric observations in the same object of a spatially resolved molecular (CO-emitting) wind with estimated mass outflow rate $\sim 3\times$ larger than the star formation rate and spatially coincident with blueshifted neutral (Na ID-absorbing) gas in optical long-slit spectra. (3) The unambiguous determination from recent Gemini/IFU observations that the Na ID outflow in this object is wide-angle, thus driven by a QSO wind rather than a jet. This powerful outflow may be the long-sought "smoking gun" of quasar mechanical feedback purported to transform gas-rich mergers. However, our Herschel survey excludes all FIR-faint (UV-

bright) "classic" QSOs by necessity. So here we propose a complementary FUV absorption-line survey of all FIR-bright -and- FIR-faint QSOs from the same parent sample. New (19 targets) and archival (11) spectra will be used to study, for the first time, the gaseous environments of QSOs as a function of host properties and age across the merger sequence ULIRG --> QSO. These data will allow us to distinguish between ionized & neutral quasar-driven outflows, starburst-driven winds, and tidal debris around the mergers. They will also be uniquely suited for a shallow but broad study of the warm & warm-hot intergalactic media, complementary to on-going surveys that are deeper but narrower.

OBSERVING DESCRIPTION

We requested and were allocated 24 orbits for 19 targets. Most of these targets thus require only one orbit. The only exceptions are 4C-13.41 (Visit 7, 2 orbits) and PG1254+571 = Mrk 231 (Visit 10, 5 orbits).

All of our targets have coordinates with uncertainties $\sim < 0.4''$ so we generally skip ACQ/SEARCH and go directly to ACQ/PEAKXD and ACQ/PEAKD. Mrk 231, our faintest target (5 orbits), is the only exception: in that case, we use ACQ/IMAGE before ACQ/PEAKXD and ACQ/PEAKD to obtain a nice image of this target. The Bright Object Tool was run using the GALEX catalog and returned no warning.

All of our observations are done in TIME-TAG mode. This temporal sampling will allow us to exclude poor quality data and get improved thermal correction and background removal. Since we generally spend only one orbit per target, we split our ETC-calculated exposure times into four separate segments of similar durations at two different FP_POS (#2 and #4) and two different CENWAVE separated by ~ 20 Å. This observing strategy is adopted to reduce the fixed pattern noise and fill up the wavelength hole produced by the chip gap without excessive overheads. The recommended FP_POS = ALL would roughly double the overheads so it is not adopted here.

In all cases, the requested exposure time of these four segments / orbit (~ 500 seconds) is shorter than $2/3$ of the real buffer time derived from ETC, so we set buffer-time = 500 seconds. For instance, our FUV-brightest target (Target #2, PG0026+129, FUV = 35.9×10^{-15} erg/s/cm/cm/Å) requires real buffer time of 1300 seconds (S/N ~ 20 at ~ 1300 Å; see COS.sp.181444/6). The recommended buffer time is thus $1300 \times 2/3 \sim 870$ seconds < 500 seconds. This is the worst-case scenario because it is the brightest source of our sample. Target #1, PG0007+106, is a bit fainter with FUV = 26.2×10^{-15} erg/s/cm/cm/Å and requires a real buffer time of 1800 seconds (see COS.sp.181441/2).

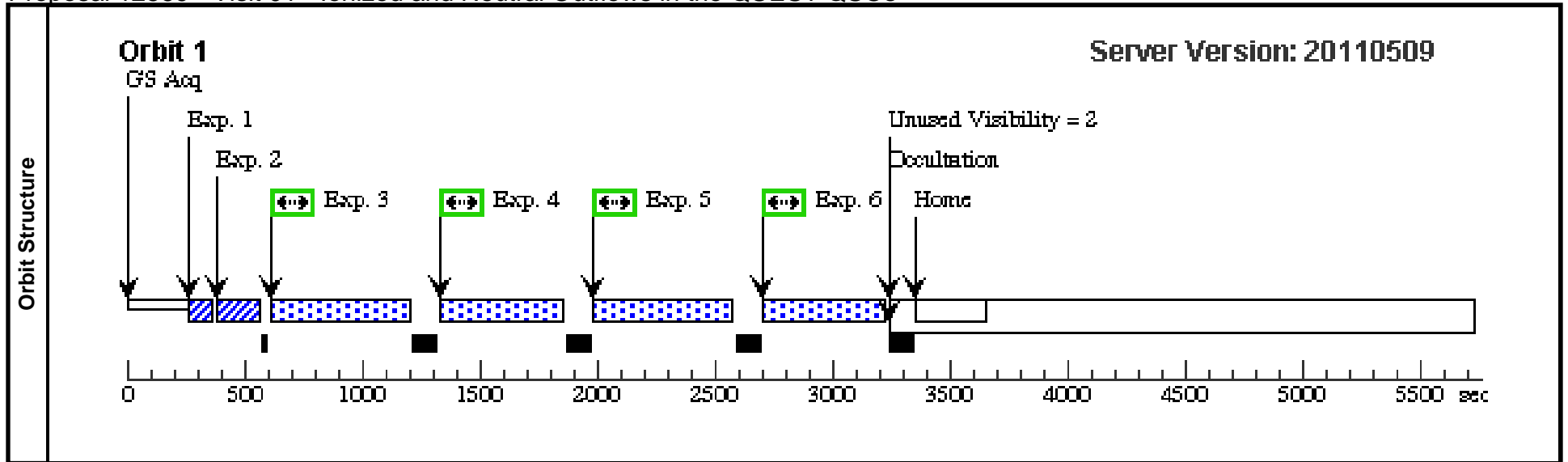
The four segments in the first of 5 orbits of PG1254+571 are shortened to make space to the aforementioned ACQ/IMAGE in the NUV. For this orbit, we set the buffer-time to 400 seconds to better match the exposure times.

Proposal 12569 - Visit 01 - Ionized and Neutral Outflows in the QUEST QSOs

Visit	Proposal 12569, Visit 01, implementation Sat Jun 25 01:31:53 GMT 2011 Diagnostic Status: Warning Scientific Instruments: COS/FUV Special Requirements: (none)																						
	Diagnostics	(Visit 01) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/PEAKXD. (Visit 01) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.																					
Fixed Targets		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th data-bbox="136 389 241 414">#</th> <th data-bbox="241 389 472 414">Name</th> <th data-bbox="472 389 892 414">Target Coordinates</th> <th data-bbox="892 389 1312 414">Targ. Coord. Corrections</th> <th data-bbox="1312 389 1606 414">Fluxes</th> <th data-bbox="1606 389 2005 414">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td data-bbox="136 422 241 446">(1)</td> <td data-bbox="241 422 472 446">QSO-B0007+107</td> <td data-bbox="472 422 892 511"> RA: 00 10 31.0200 (2.6292500d) Dec: +10 58 29.50 (10.97486d) Equinox: J2000 </td> <td data-bbox="892 422 1312 511"></td> <td data-bbox="1312 422 1606 511"> V=15.155 26.2 x 10⁻¹⁵ erg/s/cm/cm/A @ ~1300 A </td> <td data-bbox="1606 422 2005 511">Reference Frame: ICRS</td> </tr> <tr> <td colspan="6" data-bbox="136 519 2005 560"> <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> </td> </tr> </tbody> </table>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	QSO-B0007+107	RA: 00 10 31.0200 (2.6292500d) Dec: +10 58 29.50 (10.97486d) Equinox: J2000		V=15.155 26.2 x 10 ⁻¹⁵ erg/s/cm/cm/A @ ~1300 A	Reference Frame: ICRS	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>				
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																	
(1)	QSO-B0007+107	RA: 00 10 31.0200 (2.6292500d) Dec: +10 58 29.50 (10.97486d) Equinox: J2000		V=15.155 26.2 x 10 ⁻¹⁵ erg/s/cm/cm/A @ ~1300 A	Reference Frame: ICRS																		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>																							

Proposal 12569 - Visit 01 - Ionized and Neutral Outflows in the QUEST QSOs

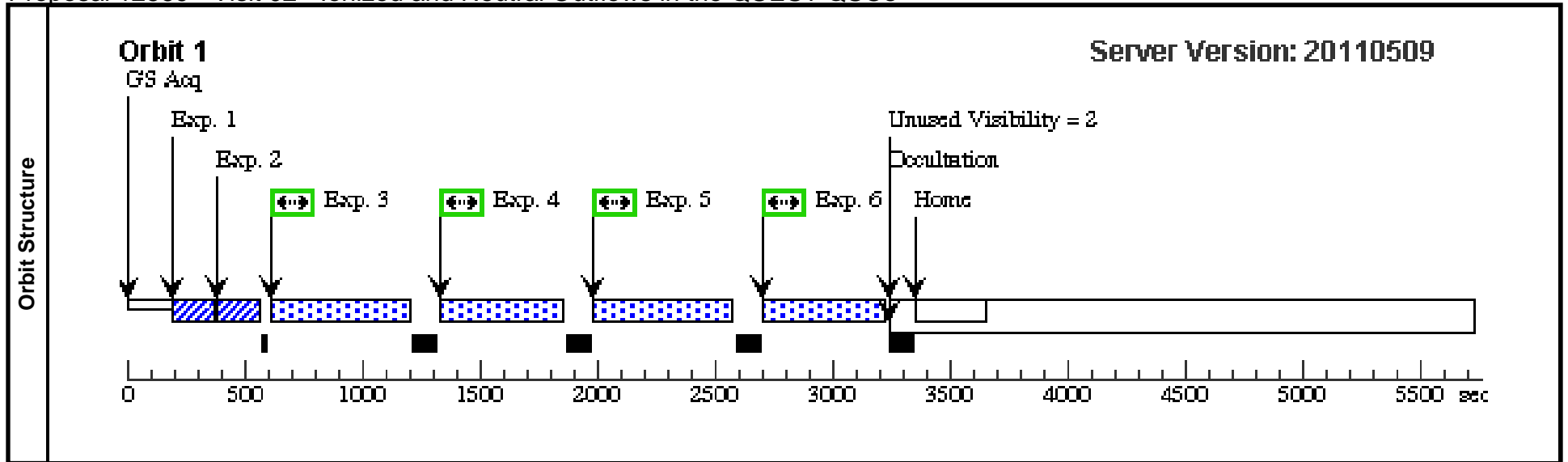
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
Exposures	1	0007m1 (COS.sa.178 713)	(1) QSO-B0007+107 COS/FUV, ACQ/PEAKXD, PSA	G130M 1309 A	SEGMENT=BOTH			5 Secs [==>]	[1]	
	<i>Comments: FUV=26.2 x 10⁻¹⁵ ergs/cm/cm/A (IUE)</i>									
	2	0007m2 (COS.sa.178 713)	(1) QSO-B0007+107 COS/FUV, ACQ/PEAKD, PSA	G130M 1309 A	CENTER=DEF; NUM-POS=5; STEP-SIZE=0.9			5 Secs [==>]	[1]	
	<i>Comments: FUV=26.2 x 10⁻¹⁵ erg/s/cm/cm/A (IUE)</i>									
	3	0007m3 (COS.sp.181 441)	(1) QSO-B0007+107 COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2			500 Secs [==>467.0 Secs]	[1]	
	<i>Comments: FUV=26.2 x 10⁻¹⁵ erg/s/cm/cm/A (IUE). Total required exposure time and buffer time calculated by ETC are 1651 and 2623 seconds for S/N ~ 20 at ~1300 A (ETC COS.sp.178717). (Remaining orbit time)/4 ~ 500 seconds is shorter than 2/3 of this buffer time, so buffer time is set to 500 seconds.</i>									
4	0007m4 (COS.sp.181 441)	(1) QSO-B0007+107 COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4			500 Secs [==>467.0 Secs]	[1]		
<i>Comments: FUV=26.2 x 10⁻¹⁵ erg/s/cm/cm/A (IUE). Total required exposure time and buffer time calculated by ETC are 1651 and 2623 seconds for S/N ~ 20 at ~1300 A (ETC COS.sp.178717). (Remaining orbit time)/4 ~ 500 seconds is shorter than 2/3 of this buffer time, so buffer time is set to 500 seconds.</i>										
5	0007m5 (COS.sp.181 442)	(1) QSO-B0007+107 COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2			500 Secs [==>467.0 Secs]	[1]		
<i>Comments: FUV=26.2 x 10⁻¹⁵ erg/s/cm/cm/A (IUE). Total required exposure time and buffer time calculated by ETC are 1651 and 2623 seconds for S/N ~ 20 at ~1300 A (ETC COS.sp.178717). (Remaining orbit time)/4 ~ 500 seconds is shorter than 2/3 of this buffer time, so buffer time is set to 500 seconds.</i>										
6	0007m6 (COS.sp.181 442)	(1) QSO-B0007+107 COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4			500 Secs [==>467.0 Secs]	[1]		
<i>Comments: FUV=26.2 x 10⁻¹⁵ erg/s/cm/cm/A (IUE). Total required exposure time and buffer time calculated by ETC are 1651 and 2623 seconds for S/N ~ 20 at ~1300 A (ETC COS.sp.178717). (Remaining orbit time)/4 ~ 500 seconds is shorter than 2/3 of this buffer time, so buffer time is set to 500 seconds.</i>										



Proposal 12569 - Visit 02 - Ionized and Neutral Outflows in the QUEST QSOs

Sat Jun 25 01:31:55 GMT 2011

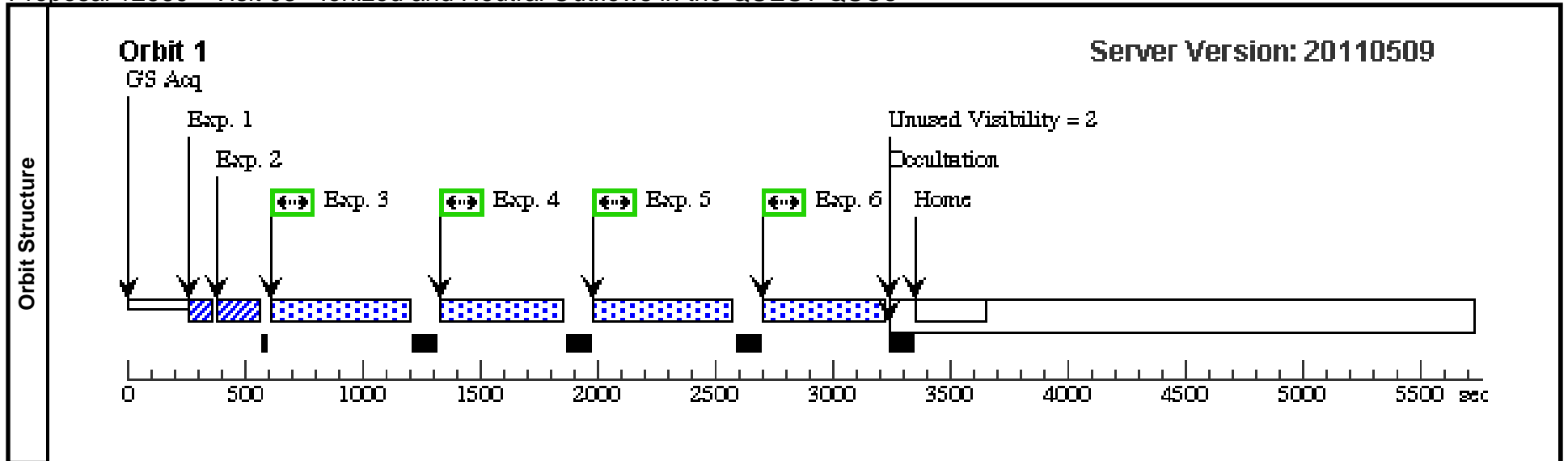
Visit	Proposal 12569, Visit 02, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV Special Requirements: (none)										
	(Visit 02) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting. (Visit 02) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/PEAKXD.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(2)	QSO-B0026+129	RA: 00 29 13.7100 (7.3071250d) Dec: +13 16 4.00 (13.26778d) Equinox: J2000		V=14.78 35.9 x 10 ⁻¹⁵ erg/s/cm/cm/A @ ~1300 A	Reference Frame: ICRS					
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	0026m1 (COS.sa.178 713)	(2) QSO-B0026+129	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A	SEGMENT=BOTH			5 Secs [==>]	[1]	
	<i>Comments: FUV=35.9 x 10⁻¹⁵ ergs/cm/cm/A (IUE)</i>										
	2	0026m2 (COS.sa.178 713)	(2) QSO-B0026+129	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	CENTER=DEF; NUM-POS=5; STEP-SIZE=0.9				5 Secs [==>]	[1]
	<i>Comments: FUV=35.9 x 10⁻¹⁵ erg/s/cm/cm/A (IUE)</i>										
	3	0026m3 (COS.sp.181 446)	(2) QSO-B0026+129	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2				500 Secs [==>467.0 Secs]	[1]
	<i>Comments: FUV=35.9 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>										
4	0026m4 (COS.sp.181 446)	(2) QSO-B0026+129	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4				500 Secs [==>467.0 Secs]	[1]	
<i>Comments: FUV=35.9 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											
5	0026m5 (COS.sp.181 447)	(2) QSO-B0026+129	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2				500 Secs [==>467.0 Secs]	[1]	
<i>Comments: FUV=35.9 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											
6	0026m6 (COS.sp.181 447)	(2) QSO-B0026+129	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4				500 Secs [==>467.0 Secs]	[1]	
<i>Comments: FUV=35.9 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											



Proposal 12569 - Visit 03 - Ionized and Neutral Outflows in the QUEST QSOs

Sat Jun 25 01:31:55 GMT 2011

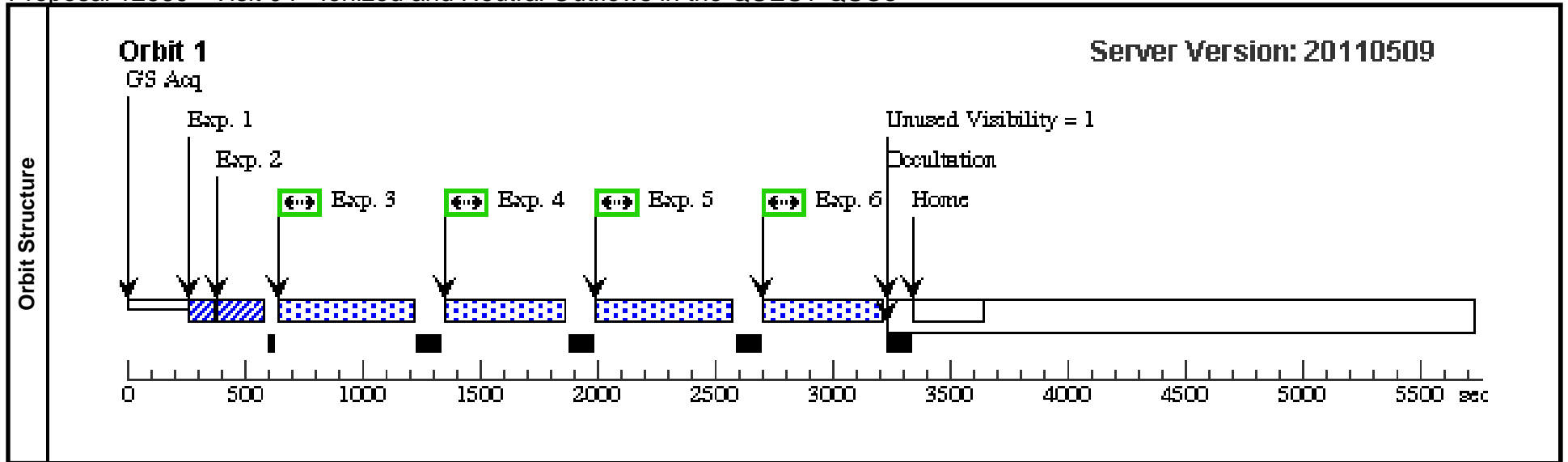
Visit	Proposal 12569, Visit 03, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV Special Requirements: (none)										
	(Visit 03) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/PEAKXD. (Visit 03) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(3)	QSO-B0050+124	RA: 00 53 34.9600 (13.3956667d) Dec: +12 41 35.90 (12.69331d) Equinox: J2000		V=14.07 25.5 x 10 ⁻¹⁵ erg/s/cm/cm/A @ ~1300 A	Reference Frame: ICRS					
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	0050m1 (COS.sa.178 713)	(3) QSO-B0050+124	COS/FUV, ACQ/PEAKXD, PSA	G130M 1309 A	SEGMENT=BOTH			5 Secs [==>]	[1]	
	<i>Comments: FUV=25.5 x 10⁻¹⁵ ergs/cm/cm/A (IUE)</i>										
	2	0050m2 (COS.sa.178 713)	(3) QSO-B0050+124	COS/FUV, ACQ/PEAKD, PSA	G130M 1309 A	CENTER=DEF; NUM-POS=5; STEP-SIZE=0.9			5 Secs [==>]	[1]	
	<i>Comments: FUV=25.5 x 10⁻¹⁵ erg/s/cm/cm/A (IUE)</i>										
	3	0050m3 (COS.sp.181 447)	(3) QSO-B0050+124	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2			500 Secs [==>467.0 Secs]	[1]	
	<i>Comments: FUV=25.5 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>										
4	0050m4 (COS.sp.181 448)	(3) QSO-B0050+124	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4			500 Secs [==>467.0 Secs]	[1]		
<i>Comments: FUV=25.5 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											
5	0050m5 (COS.sp.181 448)	(3) QSO-B0050+124	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2			500 Secs [==>467.0 Secs]	[1]		
<i>Comments: FUV=25.5 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											
6	0050m6 (COS.sp.178 717)	(3) QSO-B0050+124	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4			500 Secs [==>467.0 Secs]	[1]		
<i>Comments: FUV=25.5 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											



Proposal 12569 - Visit 04 - Ionized and Neutral Outflows in the QUEST QSOs

Sat Jun 25 01:31:55 GMT 2011

Visit	Proposal 12569, Visit 04, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV Special Requirements: (none)										
	(Visit 04) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/PEAKXD. (Visit 04) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(4)	QSO-B0157+001	RA: 01 59 50.2500 (29.9593750d) Dec: +00 23 41.30 (.39481d) Equinox: J2000		V=15.69 12.7 x 10 ⁻¹⁵ erg/s/cm/cm/A @ ~1300 A	Reference Frame: ICRS					
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	0157m1 (COS.sa.179 989)	(4) QSO-B0157+001	COS/FUV, ACQ/PEAKXD, PSA	G130M 1309 A	SEGMENT=BOTH			10 Secs [==>]	[1]	
	<i>Comments: FUV=12.7 x 10⁻¹⁵ ergs/cm/cm/A (IUE)</i>										
	2	0157m2 (COS.sa.179 989)	(4) QSO-B0157+001	COS/FUV, ACQ/PEAKD, PSA	G130M 1309 A	CENTER=DEF; NUM-POS=5; STEP-SIZE=0.9				10 Secs [==>]	[1]
	<i>Comments: FUV=12.7 x 10⁻¹⁵ erg/s/cm/cm/A (IUE)</i>										
	3	0157m3 (COS.sp.181 450)	(4) QSO-B0157+001	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2				500 Secs [==>457.0 Secs]	[1]
	<i>Comments: FUV=12.7 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>										
4	0157m4 (COS.sp.181 450)	(4) QSO-B0157+001	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4				500 Secs [==>457.0 Secs]	[1]	
<i>Comments: FUV=12.7 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											
5	0157m5 (COS.sp.181 451)	(4) QSO-B0157+001	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2				500 Secs [==>457.0 Secs]	[1]	
<i>Comments: FUV=12.7 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											
6	0157m6 (COS.sp.181 451)	(4) QSO-B0157+001	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4				500 Secs [==>457.0 Secs]	[1]	
<i>Comments: FUV=12.7 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											



Proposal 12569 - Visit 05 - Ionized and Neutral Outflows in the QUEST QSOs

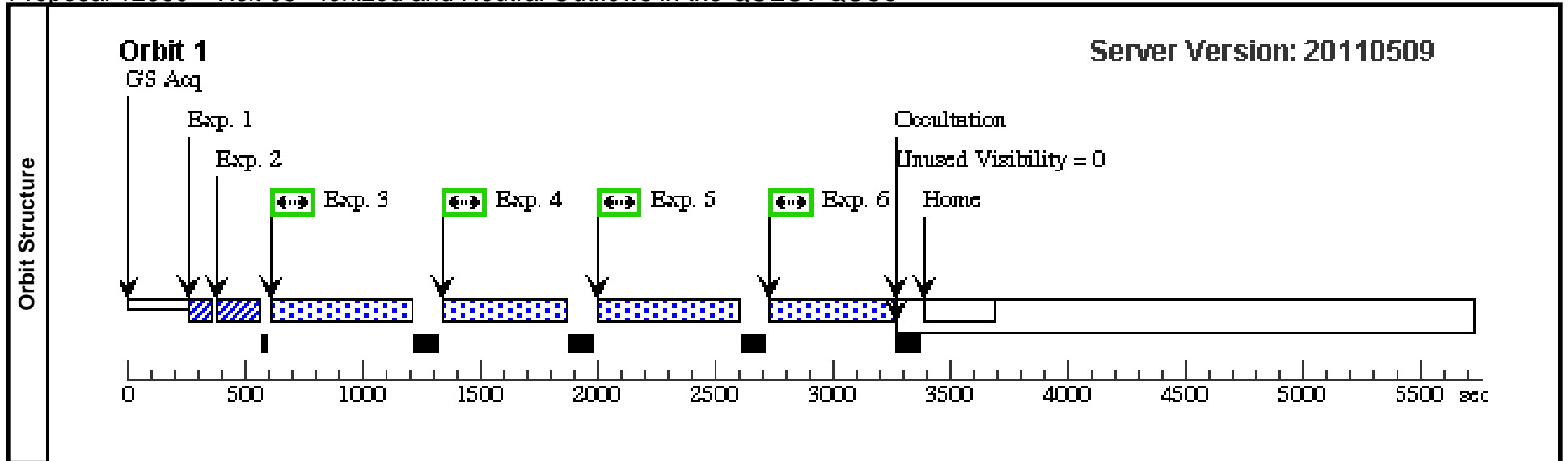
Sat Jun 25 01:31:56 GMT 2011

Visit	Proposal 12569, Visit 05, implementation				
	Diagnostic Status: Warning				
	Scientific Instruments: COS/FUV Special Requirements: (none)				

Diagnostics	(Visit 05) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/PEAKXD.				
	(Visit 05) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	QSO-B0844+349	RA: 08 47 42.4500 (131.9268750d) Dec: +34 45 4.40 (34.75122d) Equinox: J2000		V=14.5 31.0 x 10 ⁻¹⁵ erg/s/cm/cm/A @ ~1300 A	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>						

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	0844m1 (COS.sa.178 713)	(5) QSO-B0844+349	COS/FUV, ACQ/PEAKXD, PSA	G130M 1309 A	SEGMENT=BOTH			5 Secs [==>]	[1]	
	<i>Comments: FUV=31.0 x 10⁻¹⁵ ergs/cm/cm/A (IUE)</i>										
	2	0844m2 (COS.sa.178 713)	(5) QSO-B0844+349	COS/FUV, ACQ/PEAKD, PSA	G130M 1309 A	CENTER=DEF; NUM-POS=5; STEP-SIZE=0.9				5 Secs [==>]	[1]
	<i>Comments: FUV=31.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE)</i>										
	3	0844m3 (COS.sp.181 452)	(5) QSO-B0844+349	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2				500 Secs [==>475.0 Secs]	[1]
	<i>Comments: FUV=31.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>										
4	0844m4 (COS.sp.181 452)	(5) QSO-B0844+349	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4				500 Secs [==>475.0 Secs]	[1]	
<i>Comments: FUV=31.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											
5	0844m5 (COS.sp.181 453)	(5) QSO-B0844+349	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2				500 Secs [==>475.0 Secs]	[1]	
<i>Comments: FUV=31.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											
6	0844m6 (COS.sp.181 453)	(5) QSO-B0844+349	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4				500 Secs [==>475.0 Secs]	[1]	
<i>Comments: FUV=31.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											



Proposal 12569 - Visit 06 - Ionized and Neutral Outflows in the QUEST QSOs

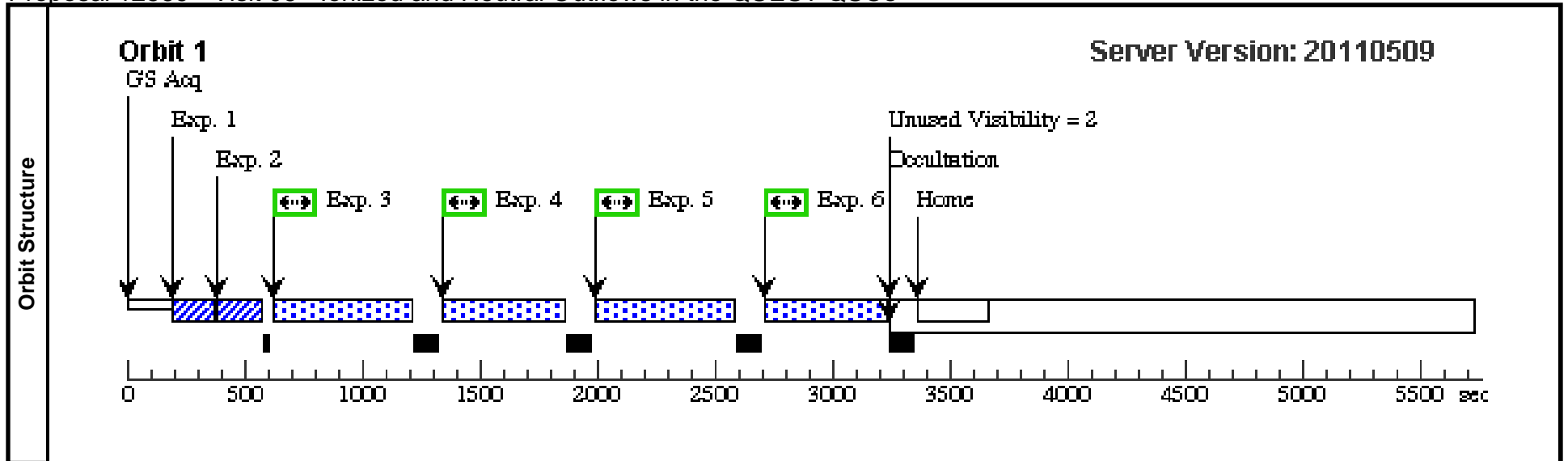
Sat Jun 25 01:31:56 GMT 2011

Visit	Proposal 12569, Visit 06, implementation				
	Diagnostic Status: Warning				
	Scientific Instruments: COS/FUV Special Requirements: (none)				

Diagnostics	(Visit 06) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/PEAKXD.				
	(Visit 06) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(6)	QSO-B0923+201	RA: 09 25 54.7200 (141.4780000d) Dec: +19 54 5.00 (19.90139d) Equinox: J2000		V=15.83 17.3 x 10 ⁻¹⁵ erg/s/cm/cm/A @ ~1300 A	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>						

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	0923m1 (COS.sa.179 990)	(6) QSO-B0923+201	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A	SEGMENT=BOTH			7 Secs [==>]	[1]	
	<i>Comments: FUV=17.3 x 10⁻¹⁵ ergs/cm/cm/A (IUE)</i>										
	2	0923m2 (COS.sa.179 990)	(6) QSO-B0923+201	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	CENTER=DEF; NUM-POS=5; STEP-SIZE=0.9				7 Secs [==>]	[1]
	<i>Comments: FUV=17.3 x 10⁻¹⁵ erg/s/cm/cm/A (IUE)</i>										
	3	0923m3 (COS.sp.181 454)	(6) QSO-B0923+201	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2				500 Secs [==>465.0 Secs]	[1]
	<i>Comments: FUV=17.3 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>										
4	0923m4 (COS.sp.181 454)	(6) QSO-B0923+201	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4				500 Secs [==>465.0 Secs]	[1]	
<i>Comments: FUV=17.3 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											
5	0923m5 (COS.sp.181 455)	(6) QSO-B0923+201	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2				500 Secs [==>465.0 Secs]	[1]	
<i>Comments: FUV=17.3 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											
6	0923m6 (COS.sp.181 455)	(6) QSO-B0923+201	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4				500 Secs [==>465.0 Secs]	[1]	
<i>Comments: FUV=17.3 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											



Proposal 12569 - Visit 07 - Ionized and Neutral Outflows in the QUEST QSOs

Sat Jun 25 01:31:56 GMT 2011

Visit	<p>Proposal 12569, Visit 07, implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV</p> <p>Special Requirements: (none)</p>					
Diagnostics	<p>(Visit 07) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/PEAKXD.</p>					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(7)	4C-13.41	RA: 10 07 26.1100 (151.8587917d)		V=15.15	Reference Frame: ICRS
		Alt Name1: PG1004+130	Dec: +12 48 56.10 (12.81558d)		09.0 x 10 ⁻¹⁵ erg/s/cm/cm/A @	
			Equinox: J2000		~1300 A	
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p>					

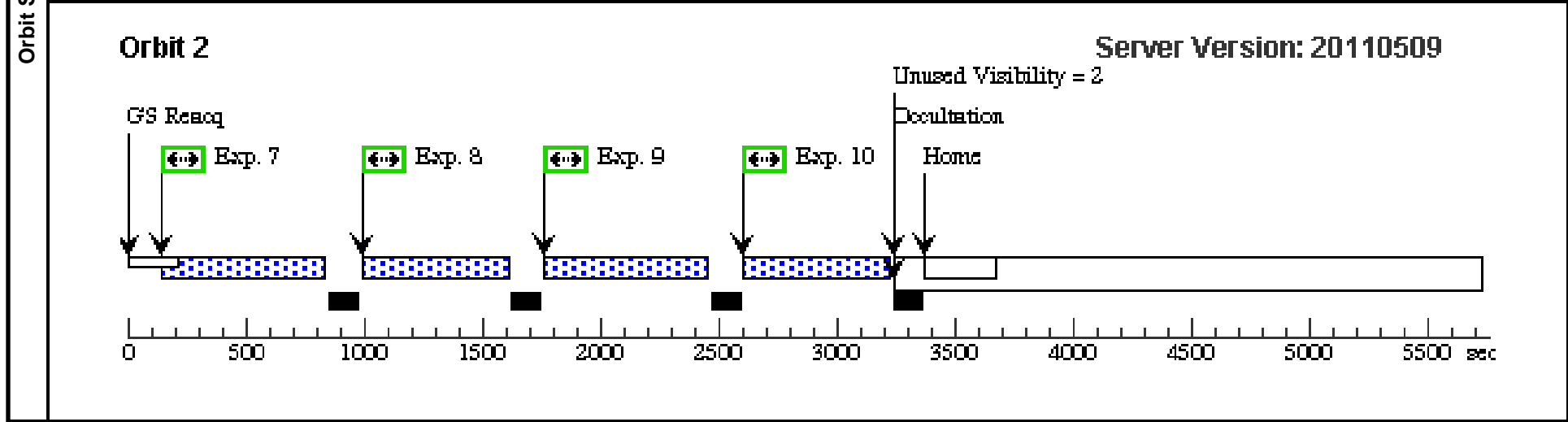
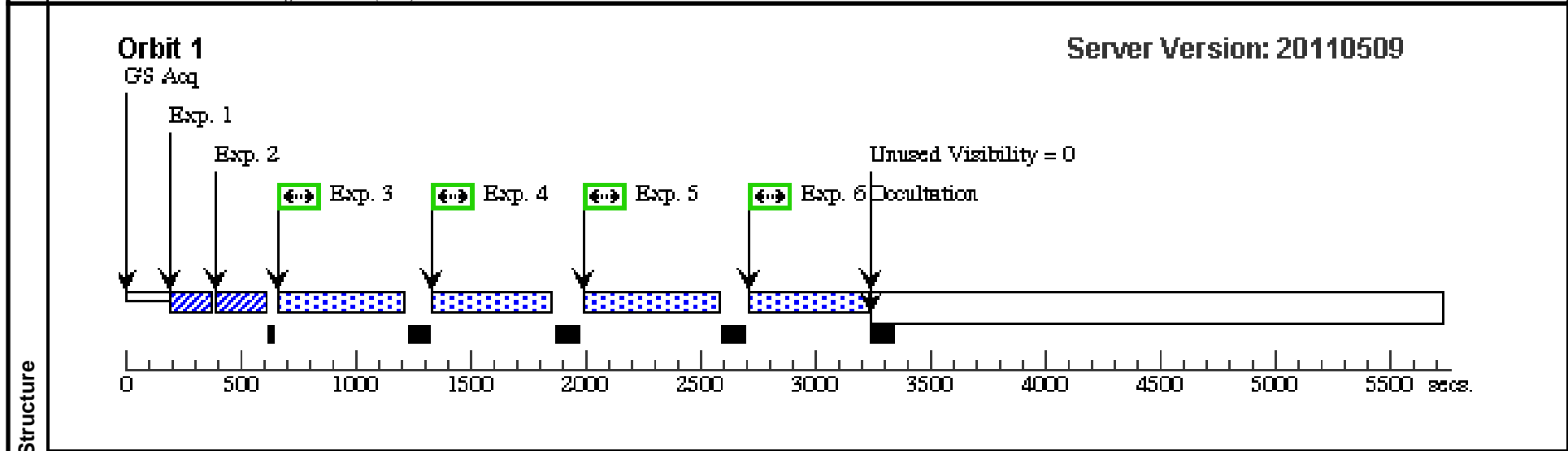
Proposal 12569 - Visit 07 - Ionized and Neutral Outflows in the QUEST QSOs

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
Exposures	1	4c1341m1 (COS.sa.179 991)	(7) 4C-13.41	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A	SEGMENT=BOTH	GS ACQ SCENARI O BASE1B3	13 Secs [==>]	[1]	
	<i>Comments: FUV=9.0 x 10⁻¹⁵ ergs/cm/cm/A (IUE)</i>									
	2	4c1341m2 (COS.sa.179 991)	(7) 4C-13.41	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	CENTER=DEF; NUM-POS=5; STEP-SIZE=0.9		13 Secs [==>]	[1]	
	<i>Comments: FUV=9.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE)</i>									
	3	4c1341m3 (COS.sp.181 457)	(7) 4C-13.41	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2		500 Secs [==>433.0 Secs]	[1]	
	<i>Comments: FUV=9.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>									
	4	4c1341m4 (COS.sp.181 457)	(7) 4C-13.41	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4		500 Secs [==>466.0 Secs]	[1]	
	<i>Comments: FUV=9.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>									
	5	4c1341m5 (COS.sp.181 458)	(7) 4C-13.41	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2		500 Secs [==>466.0 Secs]	[1]	
<i>Comments: FUV=9.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>										
6	4c1341m6 (COS.sp.181 458)	(7) 4C-13.41	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4		500 Secs [==>466.0 Secs]	[1]		
<i>Comments: FUV=9.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>										
7	4c1341m7 (COS.sp.181 457)	(7) 4C-13.41	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=1		500 Secs [==>569.0 Secs]	[2]		
<i>Comments: FUV=9.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>										
8	4c1341m8 (COS.sp.181 457)	(7) 4C-13.41	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=3		500 Secs [==>569.0 Secs]	[2]		
<i>Comments: FUV=9.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>										
9	4c1341m9 (COS.sp.181 458)	(7) 4C-13.41	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=1		500 Secs [==>569.0 Secs]	[2]		
<i>Comments: FUV=9.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>										

Proposal 12569 - Visit 07 - Ionized and Neutral Outflows in the QUEST QSOs

10	4c1341m10 (7) 4C-13.41 (COS.sp.181 458)	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=3	500 Secs	[2]
					[=>569.0 Secs]	

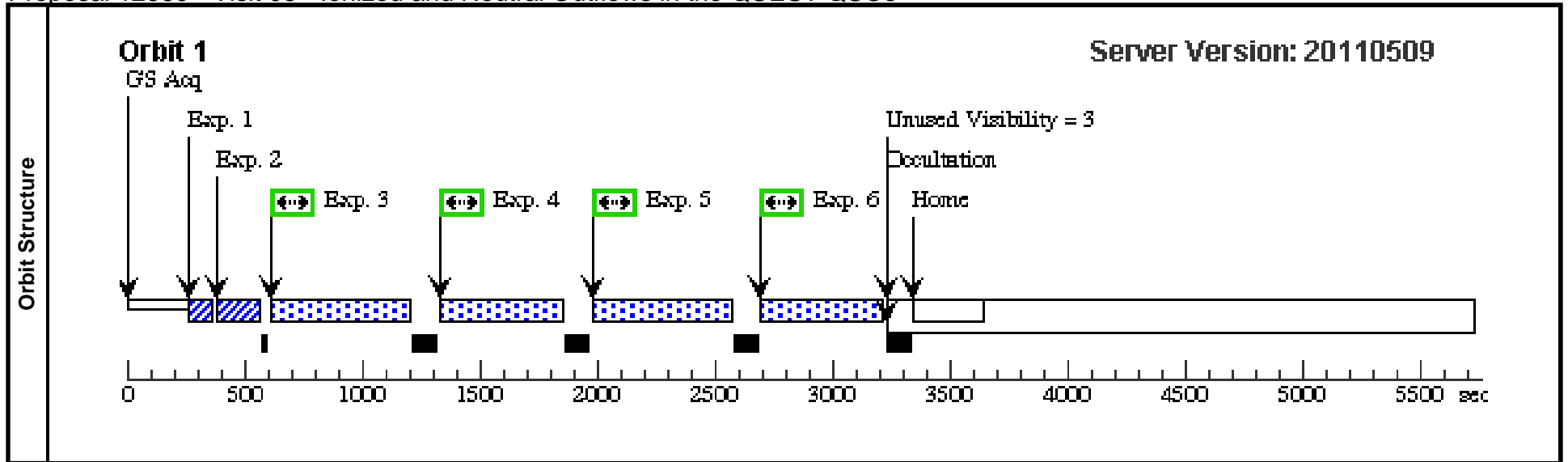
Comments: FUV=9.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).



Proposal 12569 - Visit 08 - Ionized and Neutral Outflows in the QUEST QSOs

Sat Jun 25 01:31:57 GMT 2011

Visit	Proposal 12569, Visit 08, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV Special Requirements: (none)										
	(Visit 08) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting. (Visit 08) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/PEAKXD.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(8)	QSO-B1126-041	RA: 11 29 16.7300 (172.3197083d) Dec: -04 24 7.50 (-4.40208d) Equinox: J2000		V=14.6 23.3 x 10 ⁻¹⁵ erg/s/cm/cm/A @ ~1300 A	Reference Frame: ICRS					
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	1126m1 (COS.sa.178 713)	(8) QSO-B1126-041	COS/FUV, ACQ/PEAKXD, PSA	G130M 1309 A	SEGMENT=BOTH			5 Secs [==>]	[1]	
	<i>Comments: FUV=23.3 x 10⁻¹⁵ ergs/cm/cm/A (IUE)</i>										
	2	1126m2 (COS.sa.178 713)	(8) QSO-B1126-041	COS/FUV, ACQ/PEAKD, PSA	G130M 1309 A	CENTER=DEF; NUM-POS=5; STEP-SIZE=0.9				5 Secs [==>]	[1]
	<i>Comments: FUV=23.3 x 10⁻¹⁵ erg/s/cm/cm/A (IUE)</i>										
	3	1126m3 (COS.sp.181 459)	(8) QSO-B1126-041	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2				500 Secs [==>464.0 Secs]	[1]
	<i>Comments: FUV=23.3 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>										
4	1126m4 (COS.sp.181 459)	(8) QSO-B1126-041	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4				500 Secs [==>464.0 Secs]	[1]	
<i>Comments: FUV=23.3 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											
5	1126m5 (COS.sp.181 460)	(8) QSO-B1126-041	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2				500 Secs [==>464.0 Secs]	[1]	
<i>Comments: FUV=23.3 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											
6	1126m6 (COS.sp.181 460)	(8) QSO-B1126-041	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4				500 Secs [==>464.0 Secs]	[1]	
<i>Comments: FUV=23.3 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											



Proposal 12569 - Visit 09 - Ionized and Neutral Outflows in the QUEST QSOs

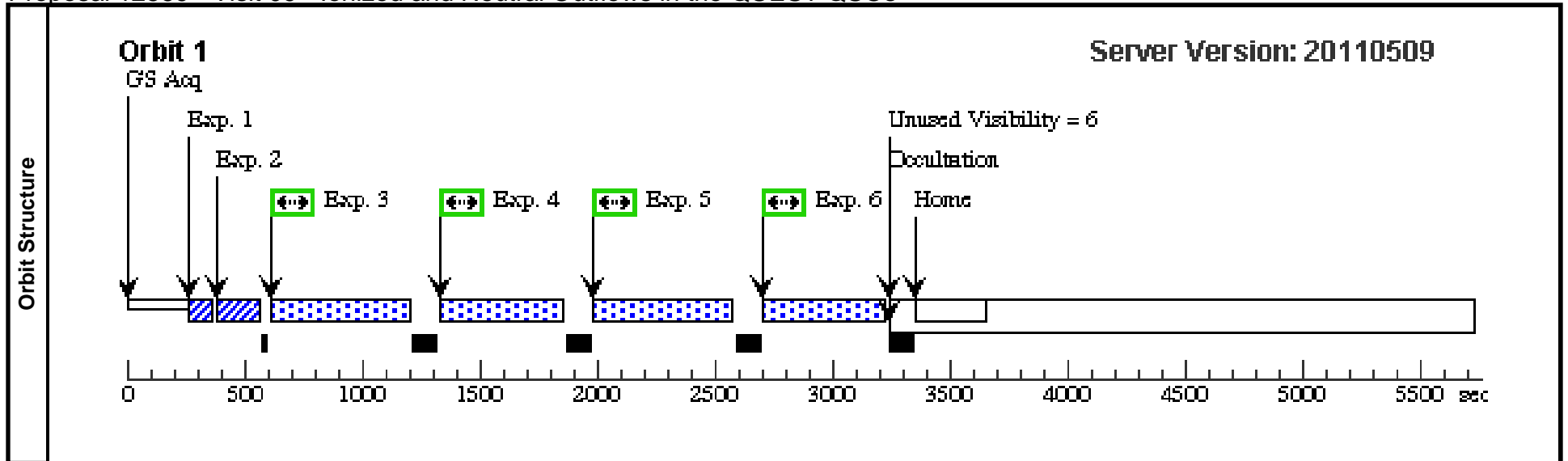
Sat Jun 25 01:31:57 GMT 2011

Visit	Proposal 12569, Visit 09, implementation				
	Diagnostic Status: Warning				
	Scientific Instruments: COS/FUV Special Requirements: (none)				

Diagnostics	(Visit 09) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/PEAKXD.				
	(Visit 09) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(9)	QSO-B1229+204	RA: 12 32 3.6100 (188.0150417d) Dec: +20 09 29.40 (20.15817d) Equinox: J2000		V=15.3 29.9 x 10 ⁻¹⁵ erg/s/cm/cm/A @ ~1300 A	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>						

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	1229m1 (COS.sa.178 713)	(9) QSO-B1229+204	COS/FUV, ACQ/PEAKXD, PSA	G130M 1309 A	SEGMENT=BOTH			5 Secs [==>]	[1]	
	<i>Comments: FUV=29.9 x 10⁻¹⁵ ergs/cm/cm/A (IUE)</i>										
	2	1229m2 (COS.sa.178 713)	(9) QSO-B1229+204	COS/FUV, ACQ/PEAKD, PSA	G130M 1309 A	CENTER=DEF; NUM-POS=5; STEP-SIZE=0.9				5 Secs [==>]	[1]
	<i>Comments: FUV=29.9 x 10⁻¹⁵ erg/s/cm/cm/A (IUE)</i>										
	3	1229m3 (COS.sp.181 461)	(9) QSO-B1229+204	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2				500 Secs [==>467.0 Secs]	[1]
	<i>Comments: FUV=29.9 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>										
4	1229m4 (COS.sp.181 461)	(9) QSO-B1229+204	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4				500 Secs [==>467.0 Secs]	[1]	
<i>Comments: FUV=29.9 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											
5	1229m5 (COS.sp.181 462)	(9) QSO-B1229+204	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2				500 Secs [==>467.0 Secs]	[1]	
<i>Comments: FUV=29.9 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											
6	1229m6 (COS.sp.181 462)	(9) QSO-B1229+204	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4				500 Secs [==>467.0 Secs]	[1]	
<i>Comments: FUV=29.9 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											



Proposal 12569 - Visit 10 - Ionized and Neutral Outflows in the QUEST QSOs

Sat Jun 25 01:31:57 GMT 2011

Visit	Proposal 12569, Visit 10, implementation Diagnostic Status: Warning Scientific Instruments: COS/NUV, COS/FUV Special Requirements: (none)					
Diagnostics	(Visit 10) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/PEAKXD. (Visit 10) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(10)	QSO-B1254+571	RA: 12 56 14.1100 (194.0587917d)		V=13.84	Reference Frame: ICRS
		Alt Name1: MRK231	Dec: +56 52 24.70 (56.87353d)		03.0 x 10 ⁻¹⁵ erg/s/cm/cm/A @ ~1300 A	
			Equinox: J2000			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					

Proposal 12569 - Visit 10 - Ionized and Neutral Outflows in the QUEST QSOs

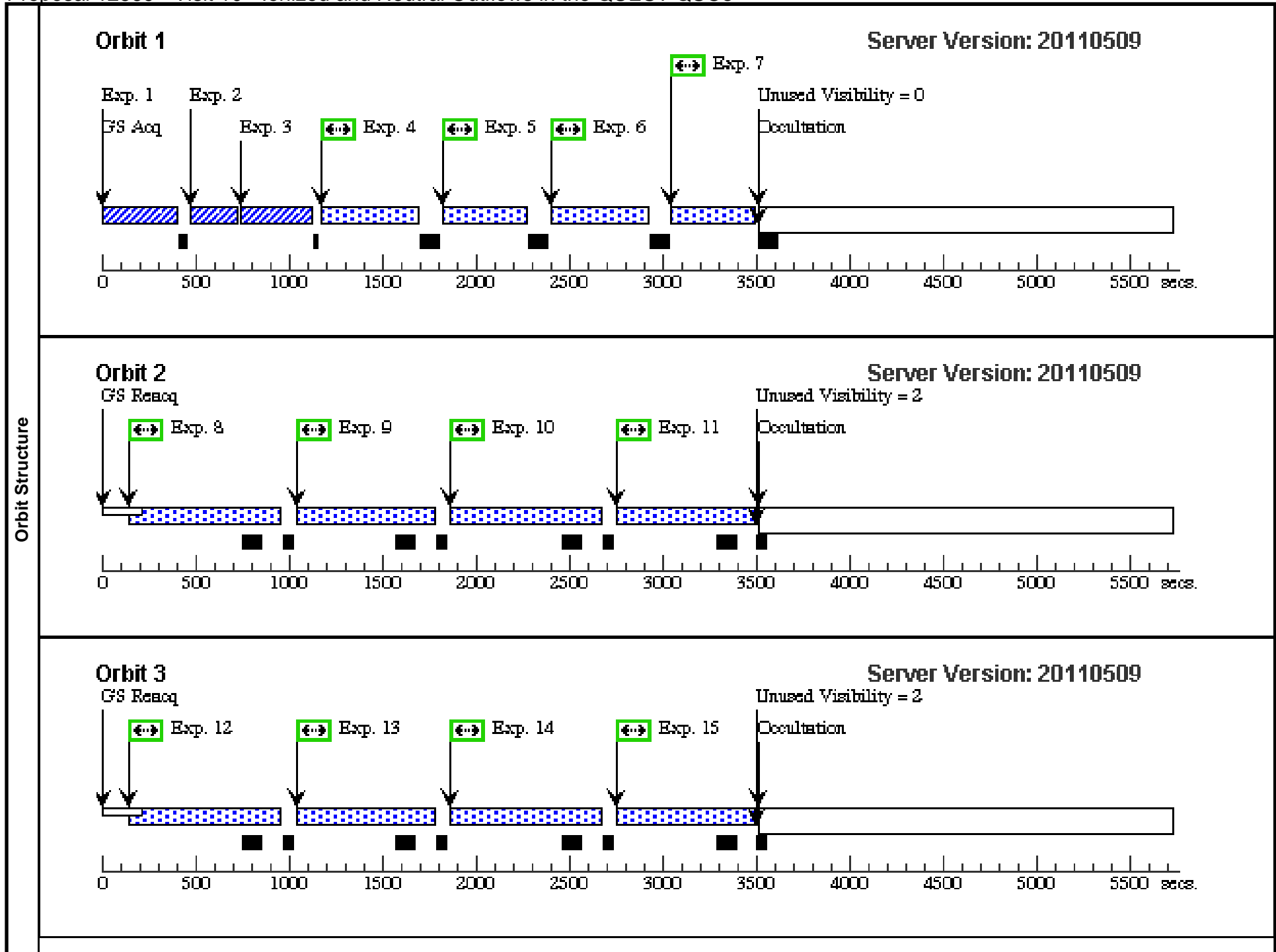
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
Exposures	1	1254m1 (COS.ta.179 1 994)	(10) QSO-B1254+57 COS/NUV, ACQ/IMAGE, PSA	MIRRORA				6 Secs [==>]	[1]	
	<i>Comments: FUV=3.0 x 10⁻¹⁵ ergs/cm/cm/A (IUE)</i>									
	2	1254m2 (COS.sa.179 1 992)	(10) QSO-B1254+57 COS/FUV, ACQ/PEAKXD, PSA	G130M 1309 A	SEGMENT=BOTH			45 Secs [==>]	[1]	
	<i>Comments: FUV=3.0 x 10⁻¹⁵ ergs/cm/cm/A (IUE)</i>									
	3	1254m3 (COS.sa.179 1 992)	(10) QSO-B1254+57 COS/FUV, ACQ/PEAKD, PSA	G130M 1309 A	CENTER=DEF; NUM-POS=5; STEP-SIZE=0.9			45 Secs [==>]	[1]	
	<i>Comments: FUV=3.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE)</i>									
	4	1254m4 (COS.sp.181 1 463)	(10) QSO-B1254+57 COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=40 0; FLASH=YES; FP-POS=2			400 Secs [==>394.0 Secs]	[1]	
	<i>Comments: FUV=3.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>									
	5	1254m5 (COS.sp.181 1 463)	(10) QSO-B1254+57 COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=40 0; FLASH=YES; FP-POS=4			400 Secs [==>394.0 Secs]	[1]	
	<i>Comments: FUV=3.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>									
6	1254m6 (COS.sp.181 1 464)	(10) QSO-B1254+57 COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=40 0; FLASH=YES; FP-POS=2			400 Secs [==>394.0 Secs]	[1]		
<i>Comments: FUV=3.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>										
7	1254m7 (COS.sp.181 1 464)	(10) QSO-B1254+57 COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=40 0; FLASH=YES; FP-POS=4			400 Secs [==>394.0 Secs]	[1]		
<i>Comments: FUV=3.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>										
8	1254m8 (COS.sp.181 1 463)	(10) QSO-B1254+57 COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=1			500 Secs [==>685.0 Secs]	[2]		
<i>Comments: FUV=3.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>										
9	1254m9 (COS.sp.181 1 463)	(10) QSO-B1254+57 COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=3			500 Secs [==>685.0 Secs]	[2]		
<i>Comments: FUV=3.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>										
10	1254m10 (COS.sp.181 1 464)	(10) QSO-B1254+57 COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=1			500 Secs [==>685.0 Secs]	[2]		
<i>Comments: FUV=3.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>										

Proposal 12569 - Visit 10 - Ionized and Neutral Outflows in the QUEST QSOs

11	1254m11 (COS.sp.181 1 464)	(10) QSO-B1254+57 COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=3	500 Secs [==>685.0 Secs]	[2]
<i>Comments: FUV=3.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>						
12	1254m12 (COS.sp.181 1 463)	(10) QSO-B1254+57 COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2	500 Secs [==>685.0 Secs]	[3]
<i>Comments: FUV=3.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>						
13	1254m13 (COS.sp.181 1 463)	(10) QSO-B1254+57 COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4	500 Secs [==>685.0 Secs]	[3]
<i>Comments: FUV=3.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>						
14	1254m14 (COS.sp.181 1 464)	(10) QSO-B1254+57 COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2	500 Secs [==>685.0 Secs]	[3]
<i>Comments: FUV=3.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>						
15	1254m15 (COS.sp.181 1 464)	(10) QSO-B1254+57 COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4	500 Secs [==>685.0 Secs]	[3]
<i>Comments: FUV=3.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>						
16	1254m16 (COS.sp.181 1 463)	(10) QSO-B1254+57 COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=1	500 Secs [==>685.0 Secs]	[4]
<i>Comments: FUV=3.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>						
17	1254m17 (COS.sp.181 1 463)	(10) QSO-B1254+57 COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=3	500 Secs [==>685.0 Secs]	[4]
<i>Comments: FUV=3.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>						
18	1254m18 (COS.sp.181 1 464)	(10) QSO-B1254+57 COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=1	500 Secs [==>685.0 Secs]	[4]
<i>Comments: FUV=3.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>						
19	1254m19 (COS.sp.181 1 464)	(10) QSO-B1254+57 COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=3	500 Secs [==>685.0 Secs]	[4]
<i>Comments: FUV=3.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>						

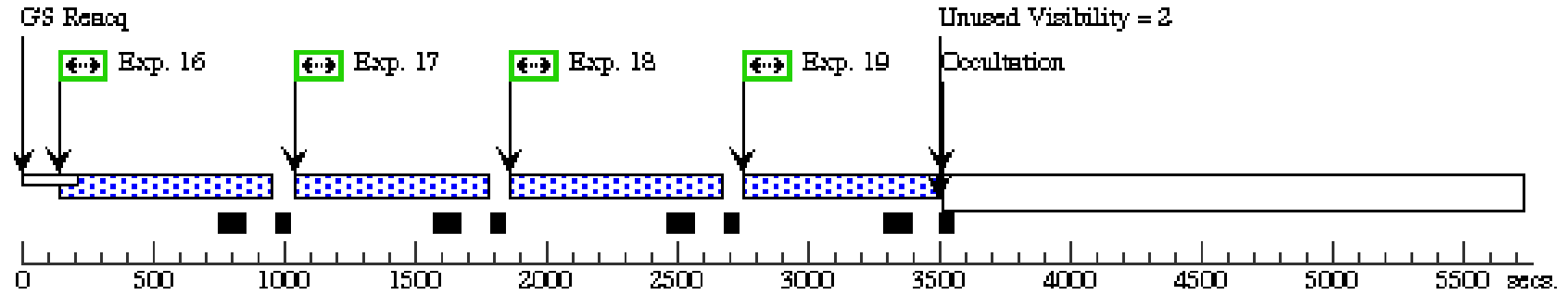
Proposal 12569 - Visit 10 - Ionized and Neutral Outflows in the QUEST QSOs

20	1254m20 (COS.sp.181 1 463)	(10) QSO-B1254+57	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2	500 Secs	
						[==>685.0 Secs]	[5]
<i>Comments: FUV=3.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>							
21	1254m21 (COS.sp.181 1 463)	(10) QSO-B1254+57	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4	500 Secs	
						[==>685.0 Secs]	[5]
<i>Comments: FUV=3.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>							
22	1254m22 (COS.sp.181 1 464)	(10) QSO-B1254+57	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2	500 Secs	
						[==>685.0 Secs]	[5]
<i>Comments: FUV=3.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>							
23	1254m23 (COS.sp.181 1 464)	(10) QSO-B1254+57	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4	500 Secs	
						[==>685.0 Secs]	[5]
<i>Comments: FUV=3.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>							



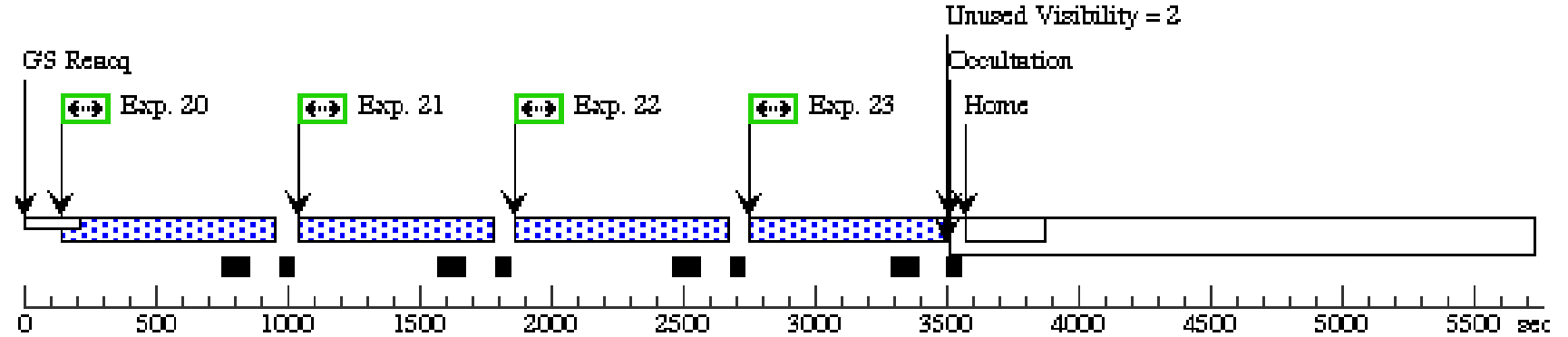
Orbit 4

Server Version: 20110509



Orbit 5

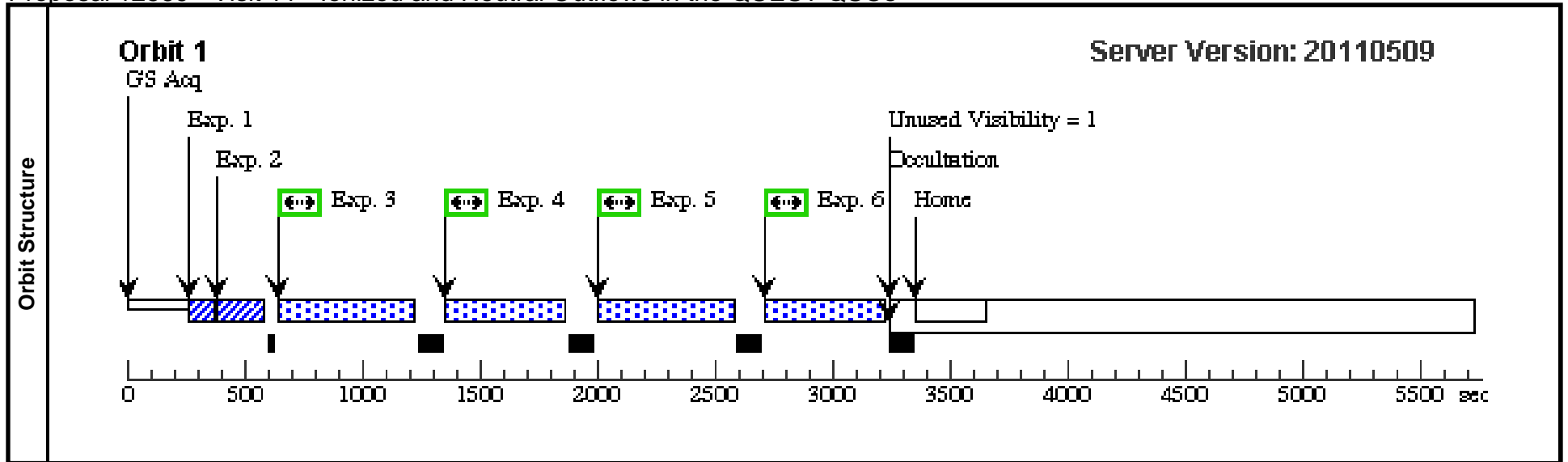
Server Version: 20110509



Proposal 12569 - Visit 11 - Ionized and Neutral Outflows in the QUEST QSOs

Sat Jun 25 01:31:58 GMT 2011

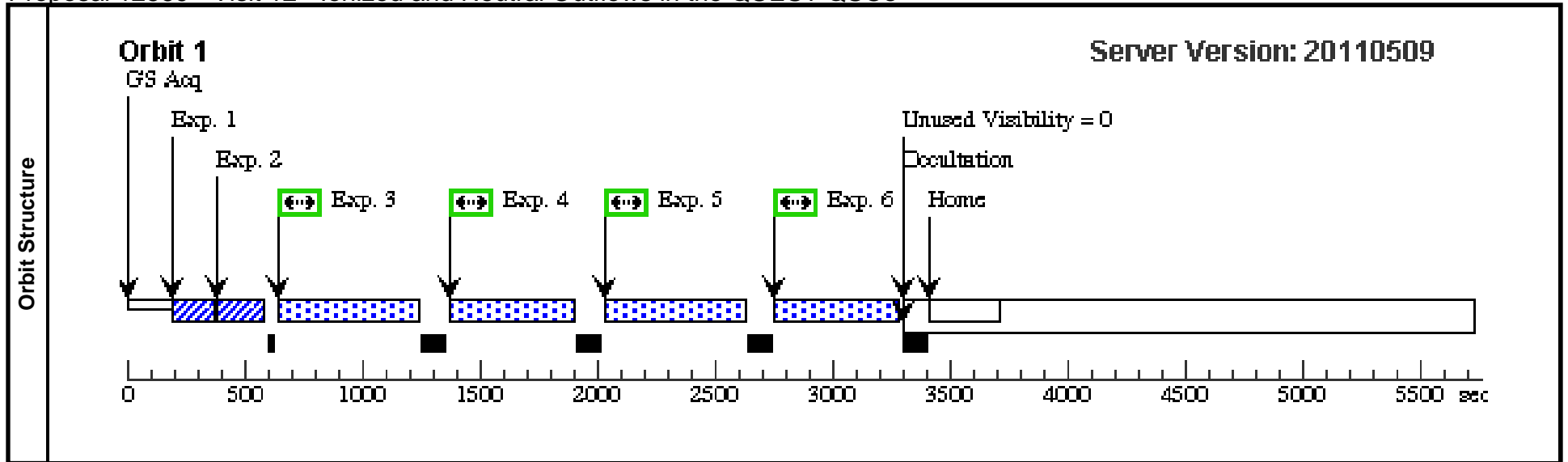
Visit	Proposal 12569, Visit 11, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV Special Requirements: (none)										
	(Visit 11) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/PEAKXD. (Visit 11) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(11)	QSO-B1307+085	RA: 13 09 47.0100 (197.4458750d) Dec: +08 19 48.30 (8.33008d) Equinox: J2000		V=15.32 11.0 x 10 ⁻¹⁵ erg/s/cm/cm/A @ ~1300 A	Reference Frame: ICRS					
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	1307m1 (COS.sa.179 5 989)	(11) QSO-B1307+08	COS/FUV, ACQ/PEAKXD, PSA	G130M 1309 A	SEGMENT=BOTH			10 Secs [==>]	[1]	
	<i>Comments: FUV=11.0 x 10⁻¹⁵ ergs/cm/cm/A (IUE)</i>										
	2	1307m2 (COS.sa.179 5 989)	(11) QSO-B1307+08	COS/FUV, ACQ/PEAKD, PSA	G130M 1309 A	CENTER=DEF; NUM-POS=5; STEP-SIZE=0.9			10 Secs [==>]	[1]	
	<i>Comments: FUV=11.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE)</i>										
	3	1307m3 (COS.sp.181 5 465)	(11) QSO-B1307+08	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2			500 Secs [==>459.0 Secs]	[1]	
	<i>Comments: FUV=11.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>										
	4	1307m4 (COS.sp.181 5 465)	(11) QSO-B1307+08	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4			500 Secs [==>459.0 Secs]	[1]	
<i>Comments: FUV=11.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											
5	1307m5 (COS.sp.181 5 466)	(11) QSO-B1307+08	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2			500 Secs [==>459.0 Secs]	[1]		
<i>Comments: FUV=11.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											
6	1307m6 (COS.sp.181 5 466)	(11) QSO-B1307+08	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4			500 Secs [==>459.0 Secs]	[1]		
<i>Comments: FUV=11.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											



Proposal 12569 - Visit 12 - Ionized and Neutral Outflows in the QUEST QSOs

Sat Jun 25 01:31:59 GMT 2011

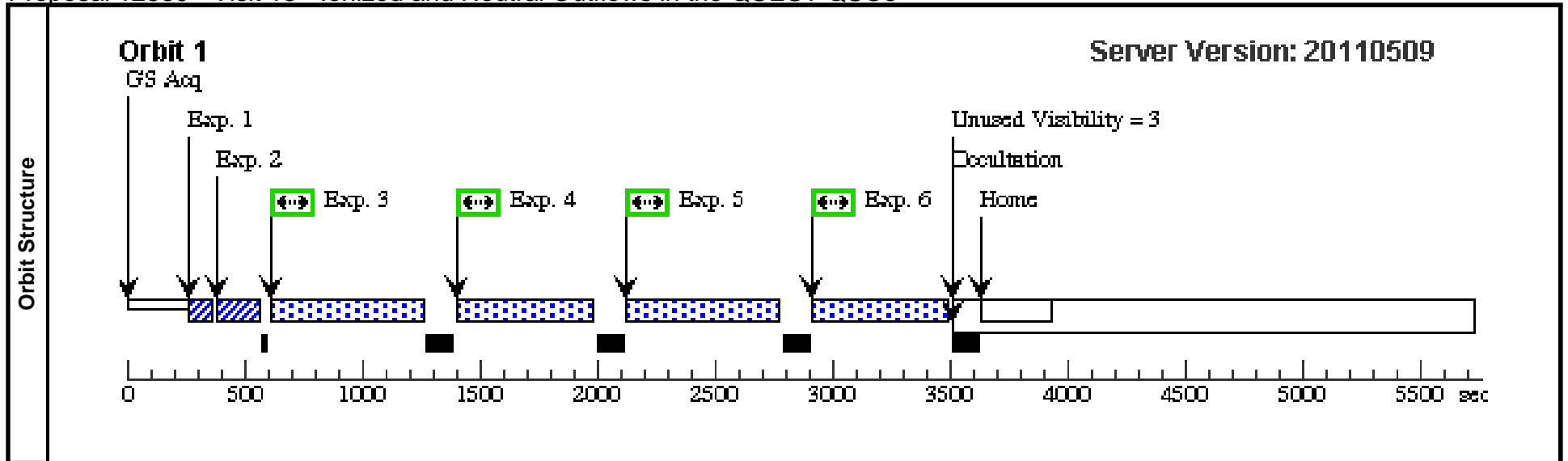
Visit	Proposal 12569, Visit 12, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV Special Requirements: (none)										
	(Visit 12) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/PEAKXD. (Visit 12) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(12)	QSO-B1309+3531	RA: 13 12 17.7500 (198.0739583d) Dec: +35 15 21.10 (35.25586d) Equinox: J2000		V=15.6 11.3 x 10 ⁻¹⁵ erg/s/cm/cm/A @ ~1300 A	Reference Frame: ICRS					
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	1309m1 (COS.sa.179 31 989)	(12) QSO-B1309+35	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A	SEGMENT=BOTH			10 Secs [==>]	[1]	
	<i>Comments: FUV=11.3 x 10⁻¹⁵ ergs/cm/cm/A (IUE)</i>										
	2	1309m2 (COS.sa.179 31 989)	(12) QSO-B1309+35	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	CENTER=DEF; NUM-POS=5; STEP-SIZE=0.9			10 Secs [==>]	[1]	
	<i>Comments: FUV=11.3 x 10⁻¹⁵ erg/s/cm/cm/A (IUE)</i>										
	3	1309m3 (COS.sp.181 31 467)	(12) QSO-B1309+35	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2			500 Secs [==>474.0 Secs]	[1]	
	<i>Comments: FUV=11.3 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>										
4	1309m4 (COS.sp.181 31 467)	(12) QSO-B1309+35	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4			500 Secs [==>474.0 Secs]	[1]		
<i>Comments: FUV=11.3 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											
5	1309m5 (COS.sp.181 31 468)	(12) QSO-B1309+35	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2			500 Secs [==>474.0 Secs]	[1]		
<i>Comments: FUV=11.3 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											
6	1309m6 (COS.sp.181 31 468)	(12) QSO-B1309+35	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4			500 Secs [==>474.0 Secs]	[1]		
<i>Comments: FUV=11.3 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											



Proposal 12569 - Visit 13 - Ionized and Neutral Outflows in the QUEST QSOs

Sat Jun 25 01:31:59 GMT 2011

Visit	Proposal 12569, Visit 13, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV Special Requirements: (none)										
	(Visit 13) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/PEAKXD. (Visit 13) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(13)	QSO-B1351+6400	RA: 13 53 15.8400 (208.3160000d) Dec: +63 45 45.60 (63.76267d) Equinox: J2000		V=14.84 20.4 x 10 ⁻¹⁵ erg/s/cm/cm/A @ ~1300 A	Reference Frame: ICRS					
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	1351m1 (COS.sa.178 00 713)	(13) QSO-B1351+64	COS/FUV, ACQ/PEAKXD, PSA	G130M 1309 A	SEGMENT=BOTH			5 Secs [==>]	[1]	
	<i>Comments: FUV=20.4 x 10⁻¹⁵ ergs/cm/cm/A (IUE)</i>										
	2	1351m2 (COS.sa.178 00 713)	(13) QSO-B1351+64	COS/FUV, ACQ/PEAKD, PSA	G130M 1309 A	CENTER=DEF; NUM-POS=5; STEP-SIZE=0.9			5 Secs [==>]	[1]	
	<i>Comments: FUV=20.4 x 10⁻¹⁵ erg/s/cm/cm/A (IUE)</i>										
	3	1351m3 (COS.sp.181 00 469)	(13) QSO-B1351+64	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2			500 Secs [==>527.0 Secs]	[1]	
	<i>Comments: FUV=20.4 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>										
4	1351m4 (COS.sp.181 00 469)	(13) QSO-B1351+64	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4			500 Secs [==>527.0 Secs]	[1]		
<i>Comments: FUV=20.4 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											
5	1351m5 (COS.sp.181 00 470)	(13) QSO-B1351+64	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2			500 Secs [==>527.0 Secs]	[1]		
<i>Comments: FUV=20.4 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											
6	1351m6 (COS.sp.181 00 470)	(13) QSO-B1351+64	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4			500 Secs [==>527.0 Secs]	[1]		
<i>Comments: FUV=20.4 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											



Proposal 12569 - Visit 14 - Ionized and Neutral Outflows in the QUEST QSOs

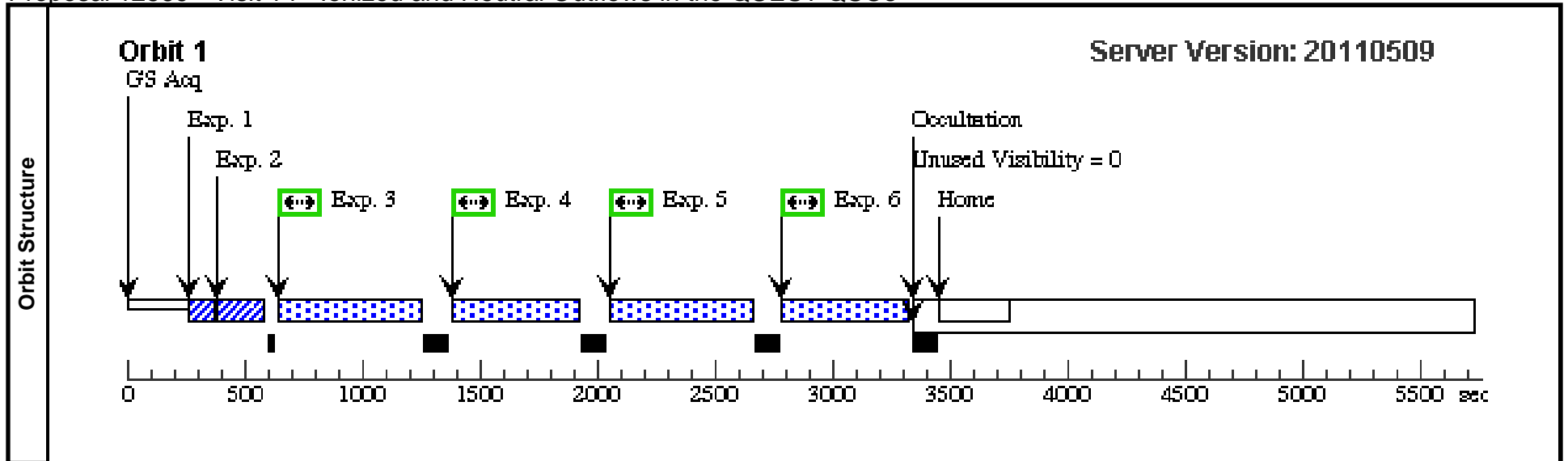
Sat Jun 25 01:31:59 GMT 2011

Visit	Proposal 12569, Visit 14, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV Special Requirements: (none)
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Diagnostics	(Visit 14) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/PEAKXD.
	(Visit 14) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

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>(14)</td> <td>QSO-B1411+4414</td> <td>RA: 14 13 48.3300 (213.4513750d) Dec: +44 00 14.00 (44.00389d) Equinox: J2000</td> <td></td> <td>V=14.99 11.5 x 10⁻¹⁵ erg/s/cm/cm/A @ ~1300 A</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(14)	QSO-B1411+4414	RA: 14 13 48.3300 (213.4513750d) Dec: +44 00 14.00 (44.00389d) Equinox: J2000		V=14.99 11.5 x 10 ⁻¹⁵ erg/s/cm/cm/A @ ~1300 A	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(14)	QSO-B1411+4414	RA: 14 13 48.3300 (213.4513750d) Dec: +44 00 14.00 (44.00389d) Equinox: J2000		V=14.99 11.5 x 10 ⁻¹⁵ erg/s/cm/cm/A @ ~1300 A	Reference Frame: ICRS								
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>													

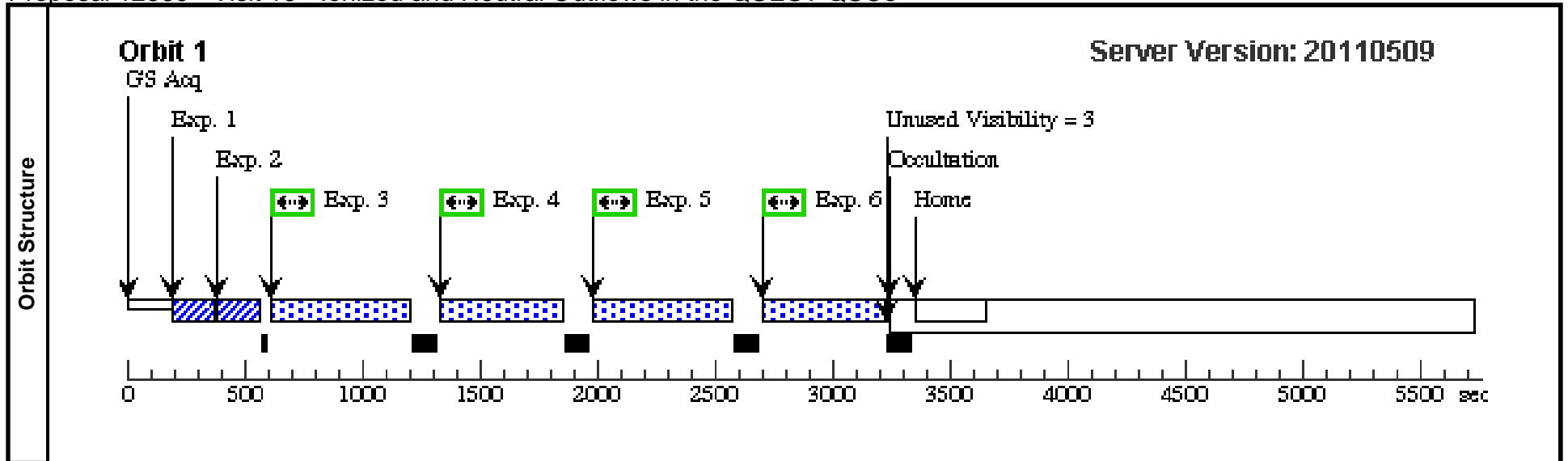
Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1411m1 (COS.sa.179 14 989)</td> <td>(14) QSO-B1411+44</td> <td>COS/FUV, ACQ/PEAKXD, PSA</td> <td>G130M 1309 A</td> <td>SEGMENT=BOTH</td> <td></td> <td></td> <td>10 Secs [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"><i>Comments: FUV=11.5 x 10⁻¹⁵ ergs/cm/cm/A (IUE)</i></td> </tr> <tr> <td>2</td> <td>1411m2 (COS.sa.179 14 989)</td> <td>(14) QSO-B1411+44</td> <td>COS/FUV, ACQ/PEAKD, PSA</td> <td>G130M 1309 A</td> <td>CENTER=DEF; NUM-POS=5; STEP-SIZE=0.9</td> <td></td> <td></td> <td>10 Secs [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"><i>Comments: FUV=11.5 x 10⁻¹⁵ erg/s/cm/cm/A (IUE)</i></td> </tr> <tr> <td>3</td> <td>1411m3 (COS.sp.181 14 474)</td> <td>(14) QSO-B1411+44</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1309 A</td> <td>BUFFER-TIME=50 0; FLASH=YES; FP-POS=2</td> <td></td> <td></td> <td>500 Secs [==>484.0 Secs]</td> <td>[1]</td> </tr> <tr> <td colspan="10"><i>Comments: FUV=11.5 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i></td> </tr> <tr> <td>4</td> <td>1411m4 (COS.sp.181 14 474)</td> <td>(14) QSO-B1411+44</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1309 A</td> <td>BUFFER-TIME=50 0; FLASH=YES; FP-POS=4</td> <td></td> <td></td> <td>500 Secs [==>484.0 Secs]</td> <td>[1]</td> </tr> <tr> <td colspan="10"><i>Comments: FUV=11.5 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i></td> </tr> <tr> <td>5</td> <td>1411m5 (COS.sp.181 14 475)</td> <td>(14) QSO-B1411+44</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1327 A</td> <td>BUFFER-TIME=50 0; FLASH=YES; FP-POS=2</td> <td></td> <td></td> <td>500 Secs [==>484.0 Secs]</td> <td>[1]</td> </tr> <tr> <td colspan="10"><i>Comments: FUV=11.5 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i></td> </tr> <tr> <td>6</td> <td>1411m6 (COS.sp.181 14 475)</td> <td>(14) QSO-B1411+44</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1327 A</td> <td>BUFFER-TIME=50 0; FLASH=YES; FP-POS=4</td> <td></td> <td></td> <td>500 Secs [==>484.0 Secs]</td> <td>[1]</td> </tr> <tr> <td colspan="10"><i>Comments: FUV=11.5 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i></td> </tr> </tbody> </table>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	1	1411m1 (COS.sa.179 14 989)	(14) QSO-B1411+44	COS/FUV, ACQ/PEAKXD, PSA	G130M 1309 A	SEGMENT=BOTH			10 Secs [==>]	[1]	<i>Comments: FUV=11.5 x 10⁻¹⁵ ergs/cm/cm/A (IUE)</i>										2	1411m2 (COS.sa.179 14 989)	(14) QSO-B1411+44	COS/FUV, ACQ/PEAKD, PSA	G130M 1309 A	CENTER=DEF; NUM-POS=5; STEP-SIZE=0.9			10 Secs [==>]	[1]	<i>Comments: FUV=11.5 x 10⁻¹⁵ erg/s/cm/cm/A (IUE)</i>										3	1411m3 (COS.sp.181 14 474)	(14) QSO-B1411+44	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2			500 Secs [==>484.0 Secs]	[1]	<i>Comments: FUV=11.5 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>										4	1411m4 (COS.sp.181 14 474)	(14) QSO-B1411+44	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4			500 Secs [==>484.0 Secs]	[1]	<i>Comments: FUV=11.5 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>										5	1411m5 (COS.sp.181 14 475)	(14) QSO-B1411+44	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2			500 Secs [==>484.0 Secs]	[1]	<i>Comments: FUV=11.5 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>										6	1411m6 (COS.sp.181 14 475)	(14) QSO-B1411+44	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4			500 Secs [==>484.0 Secs]	[1]	<i>Comments: FUV=11.5 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>									
	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit																																																																																																																									
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	2	1411m2 (COS.sa.179 14 989)	(14) QSO-B1411+44	COS/FUV, ACQ/PEAKD, PSA	G130M 1309 A	CENTER=DEF; NUM-POS=5; STEP-SIZE=0.9			10 Secs [==>]	[1]																																																																																																																									
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	3	1411m3 (COS.sp.181 14 474)	(14) QSO-B1411+44	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2			500 Secs [==>484.0 Secs]	[1]																																																																																																																									
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4	1411m4 (COS.sp.181 14 474)	(14) QSO-B1411+44	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4			500 Secs [==>484.0 Secs]	[1]																																																																																																																										
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6	1411m6 (COS.sp.181 14 475)	(14) QSO-B1411+44	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4			500 Secs [==>484.0 Secs]	[1]																																																																																																																										
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Proposal 12569 - Visit 15 - Ionized and Neutral Outflows in the QUEST QSOs

Sat Jun 25 01:31:59 GMT 2011

Visit	Proposal 12569, Visit 15, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV Special Requirements: (none)										
	(Visit 15) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting. (Visit 15) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/PEAKXD.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(15)	QSO-B1435-0645	RA: 14 38 16.1500 (219.5672917d) Dec: -06 58 20.70 (-6.97242d) Equinox: J2000		V=16.01 21.1 x 10 ⁻¹⁵ erg/s/cm/cm/A @ ~1300 A	Reference Frame: ICRS					
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	1435m1 (COS.sa.178 45 713)	(15) QSO-B1435-06	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A	SEGMENT=BOTH			5 Secs [==>]	[1]	
	<i>Comments: FUV=21.1 x 10⁻¹⁵ ergs/cm/cm/A (IUE)</i>										
	2	1435m2 (COS.sa.178 45 713)	(15) QSO-B1435-06	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	CENTER=DEF; NUM-POS=5; STEP-SIZE=0.9			5 Secs [==>]	[1]	
	<i>Comments: FUV=21.1 x 10⁻¹⁵ erg/s/cm/cm/A (IUE)</i>										
	3	1435m3 (COS.sp.181 45 476)	(15) QSO-B1435-06	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2			500 Secs [==>466.0 Secs]	[1]	
	<i>Comments: FUV=21.1 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>										
	4	1435m4 (COS.sp.181 45 476)	(15) QSO-B1435-06	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4			500 Secs [==>466.0 Secs]	[1]	
<i>Comments: FUV=21.1 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											
5	1435m5 (COS.sp.181 45 477)	(15) QSO-B1435-06	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2			500 Secs [==>466.0 Secs]	[1]		
<i>Comments: FUV=21.1 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											
6	1435m6 (COS.sp.181 45 477)	(15) QSO-B1435-06	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4			500 Secs [==>466.0 Secs]	[1]		
<i>Comments: FUV=21.1 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											



Proposal 12569 - Visit 16 - Ionized and Neutral Outflows in the QUEST QSOs

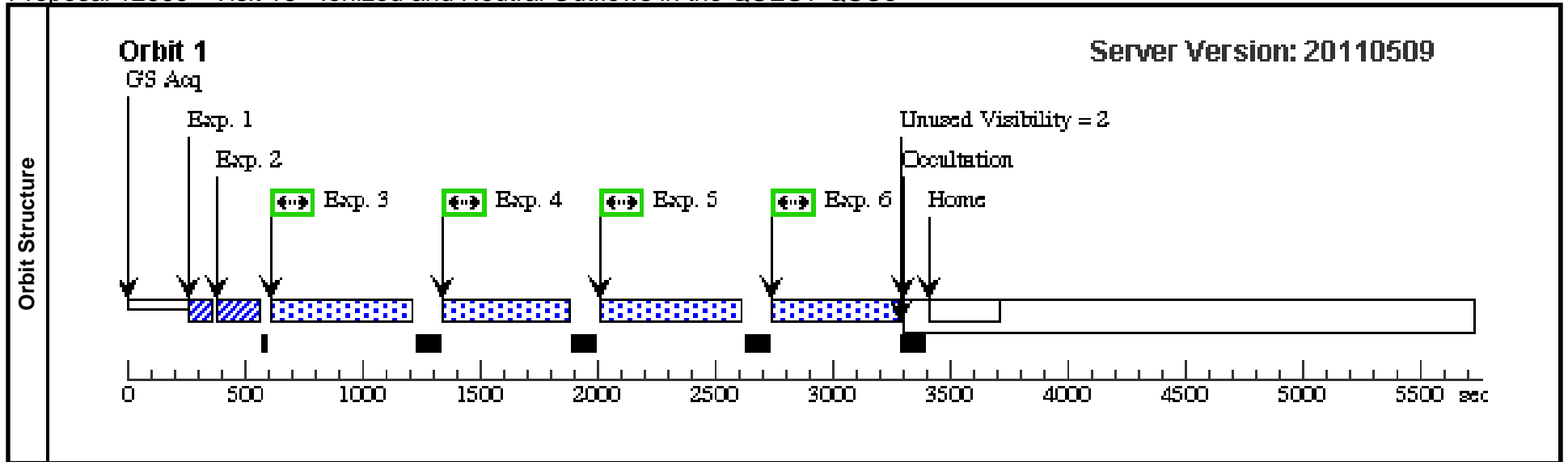
Sat Jun 25 01:32:00 GMT 2011

Visit	Proposal 12569, Visit 16, implementation
	Diagnostic Status: Warning
	Scientific Instruments: COS/FUV Special Requirements: (none)

Diagnostics	(Visit 16) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/PEAKXD.
	(Visit 16) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(16)	QSO-B1440+3539	RA: 14 42 7.4700 (220.5311250d) Dec: +35 26 23.00 (35.43972d) Equinox: J2000		V=14.58 29.4 x 10 ⁻¹⁵ erg/s/cm/cm/A @ ~1300 A	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>						

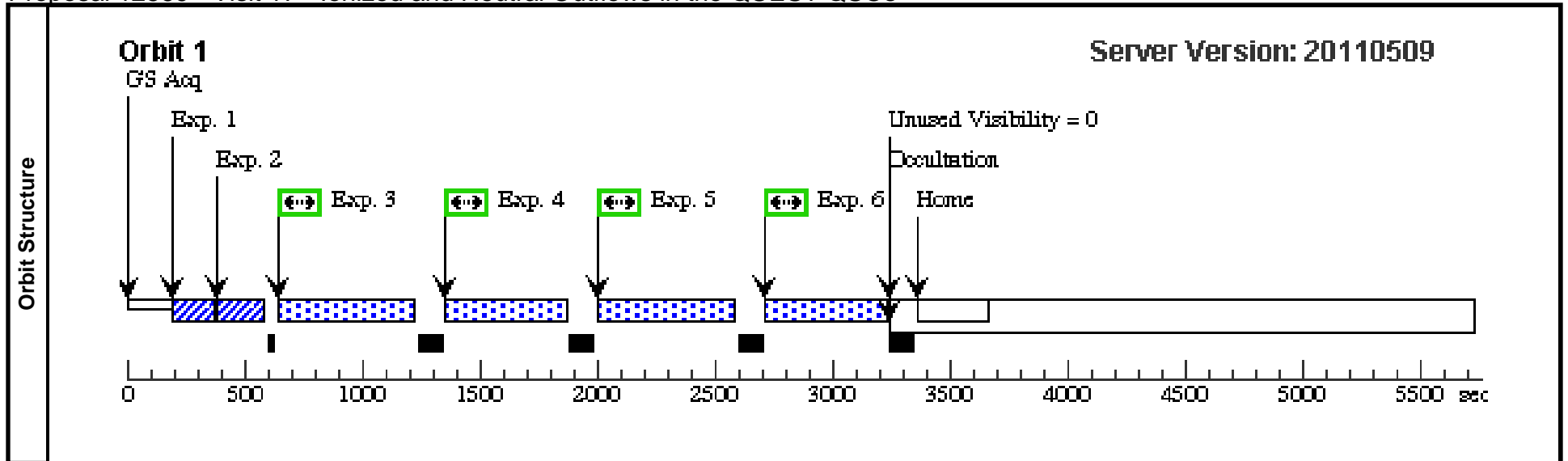
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	1440m1 (COS.sa.178 39 713)	(16) QSO-B1440+35	COS/FUV, ACQ/PEAKXD, PSA	G130M 1309 A	SEGMENT=BOTH			5 Secs [==>]	[1]	
	<i>Comments: FUV=29.4 x 10⁻¹⁵ ergs/cm/cm/A (IUE)</i>										
	2	1440m2 (COS.sa.178 39 713)	(16) QSO-B1440+35	COS/FUV, ACQ/PEAKD, PSA	G130M 1309 A	CENTER=DEF; NUM-POS=5; STEP-SIZE=0.9				5 Secs [==>]	[1]
	<i>Comments: FUV=29.4 x 10⁻¹⁵ erg/s/cm/cm/A (IUE)</i>										
	3	1440m3 (COS.sp.181 39 478)	(16) QSO-B1440+35	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2				500 Secs [==>481.0 Secs]	[1]
	<i>Comments: FUV=29.4 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>										
4	1440m4 (COS.sp.181 39 478)	(16) QSO-B1440+35	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4				500 Secs [==>481.0 Secs]	[1]	
<i>Comments: FUV=29.4 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											
5	1440m5 (COS.sp.181 39 479)	(16) QSO-B1440+35	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2				500 Secs [==>481.0 Secs]	[1]	
<i>Comments: FUV=29.4 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											
6	1440m6 (COS.sp.181 39 479)	(16) QSO-B1440+35	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4				500 Secs [==>481.0 Secs]	[1]	
<i>Comments: FUV=29.4 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											



Proposal 12569 - Visit 17 - Ionized and Neutral Outflows in the QUEST QSOs

Sat Jun 25 01:32:00 GMT 2011

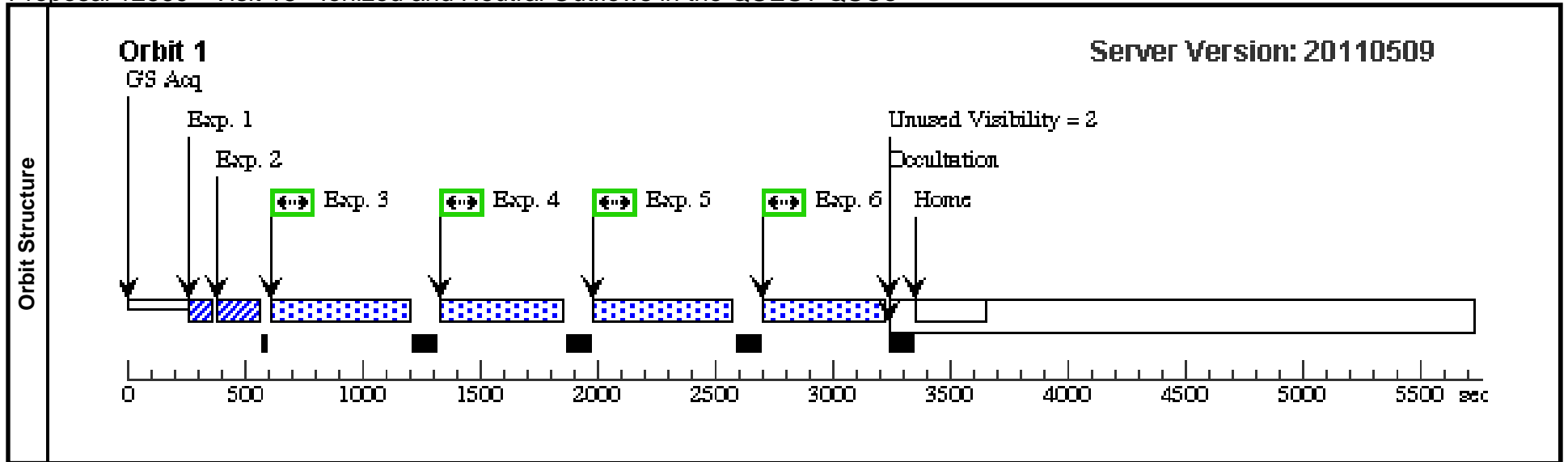
Visit	Proposal 12569, Visit 17, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV Special Requirements: (none)										
	(Visit 17) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting. (Visit 17) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/PEAKXD.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(17)	QSO-B1617+1731	RA: 16 20 11.2900 (245.0470417d) Dec: +17 24 27.50 (17.40764d) Equinox: J2000		V=15.39 11.9 x 10 ⁻¹⁵ erg/s/cm/cm/A @ ~1300 A	Reference Frame: ICRS					
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	1617m1 (COS.sa.179 31 989)	(17) QSO-B1617+17	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A	SEGMENT=BOTH			10 Secs [==>]	[1]	
	<i>Comments: FUV=11.9 x 10⁻¹⁵ ergs/cm/cm/A (IUE)</i>										
	2	1617m2 (COS.sa.179 31 989)	(17) QSO-B1617+17	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	CENTER=DEF; NUM-POS=5; STEP-SIZE=0.9				10 Secs [==>]	[1]
	<i>Comments: FUV=11.9 x 10⁻¹⁵ erg/s/cm/cm/A (IUE)</i>										
	3	1617m3 (COS.sp.181 31 480)	(17) QSO-B1617+17	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2				500 Secs [==>461.0 Secs]	[1]
	<i>Comments: FUV=11.9 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>										
	4	1617m4 (COS.sp.181 31 480)	(17) QSO-B1617+17	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4				500 Secs [==>461.0 Secs]	[1]
<i>Comments: FUV=11.9 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											
5	1617m5 (COS.sp.181 31 481)	(17) QSO-B1617+17	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2				500 Secs [==>461.0 Secs]	[1]	
<i>Comments: FUV=11.9 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											
6	1617m6 (COS.sp.181 31 481)	(17) QSO-B1617+17	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4				500 Secs [==>461.0 Secs]	[1]	
<i>Comments: FUV=11.9 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											



Proposal 12569 - Visit 18 - Ionized and Neutral Outflows in the QUEST QSOs

Sat Jun 25 01:32:00 GMT 2011

Visit	Proposal 12569, Visit 18, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV Special Requirements: (none)																																																																																																																																						
	(Visit 18) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/PEAKXD. (Visit 18) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.																																																																																																																																						
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>(18)</td> <td>QSO-B2214+139</td> <td>RA: 22 17 12.2800 (334.3011667d) Dec: +14 14 21.00 (14.23917d) Equinox: J2000</td> <td></td> <td>V=14.66 28.1 x 10⁻¹⁵ erg/s/cm/cm/A @ ~1300 A</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(18)	QSO-B2214+139	RA: 22 17 12.2800 (334.3011667d) Dec: +14 14 21.00 (14.23917d) Equinox: J2000		V=14.66 28.1 x 10 ⁻¹⁵ erg/s/cm/cm/A @ ~1300 A	Reference Frame: ICRS																																																																																																																						
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																																																																																																	
(18)	QSO-B2214+139	RA: 22 17 12.2800 (334.3011667d) Dec: +14 14 21.00 (14.23917d) Equinox: J2000		V=14.66 28.1 x 10 ⁻¹⁵ erg/s/cm/cm/A @ ~1300 A	Reference Frame: ICRS																																																																																																																																		
<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2214m1 (COS.sa.178 9 713)</td> <td>(18) QSO-B2214+13</td> <td>COS/FUV, ACQ/PEAKXD, PSA</td> <td>G130M 1309 A</td> <td>SEGMENT=BOTH</td> <td></td> <td></td> <td>5 Secs [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10">Comments: FUV=28.1 x 10⁻¹⁵ ergs/cm/cm/A (IUE)</td> </tr> <tr> <td>2</td> <td>2214m2 (COS.sa.178 9 713)</td> <td>(18) QSO-B2214+13</td> <td>COS/FUV, ACQ/PEAKD, PSA</td> <td>G130M 1309 A</td> <td>CENTER=DEF; NUM-POS=5; STEP-SIZE=0.9</td> <td></td> <td></td> <td>5 Secs [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10">Comments: FUV=28.1 x 10⁻¹⁵ erg/s/cm/cm/A (IUE)</td> </tr> <tr> <td>3</td> <td>2214m3 (COS.sp.181 9 482)</td> <td>(18) QSO-B2214+13</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1309 A</td> <td>BUFFER-TIME=50 0; FLASH=YES; FP-POS=2</td> <td></td> <td></td> <td>500 Secs [==>467.0 Secs]</td> <td>[1]</td> </tr> <tr> <td colspan="10">Comments: FUV=28.1 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</td> </tr> <tr> <td>4</td> <td>2214m4 (COS.sp.181 9 482)</td> <td>(18) QSO-B2214+13</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1309 A</td> <td>BUFFER-TIME=50 0; FLASH=YES; FP-POS=4</td> <td></td> <td></td> <td>500 Secs [==>467.0 Secs]</td> <td>[1]</td> </tr> <tr> <td colspan="10">Comments: FUV=28.1 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</td> </tr> <tr> <td>5</td> <td>2214m5 (COS.sp.181 9 483)</td> <td>(18) QSO-B2214+13</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1327 A</td> <td>BUFFER-TIME=50 0; FLASH=YES; FP-POS=2</td> <td></td> <td></td> <td>500 Secs [==>467.0 Secs]</td> <td>[1]</td> </tr> <tr> <td colspan="10">Comments: FUV=28.1 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</td> </tr> <tr> <td>6</td> <td>2214m6 (COS.sp.181 9 483)</td> <td>(18) QSO-B2214+13</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1327 A</td> <td>BUFFER-TIME=50 0; FLASH=YES; FP-POS=4</td> <td></td> <td></td> <td>500 Secs [==>467.0 Secs]</td> <td>[1]</td> </tr> <tr> <td colspan="10">Comments: FUV=28.1 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</td> </tr> </tbody> </table>						#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	1	2214m1 (COS.sa.178 9 713)	(18) QSO-B2214+13	COS/FUV, ACQ/PEAKXD, PSA	G130M 1309 A	SEGMENT=BOTH			5 Secs [==>]	[1]	Comments: FUV=28.1 x 10 ⁻¹⁵ ergs/cm/cm/A (IUE)										2	2214m2 (COS.sa.178 9 713)	(18) QSO-B2214+13	COS/FUV, ACQ/PEAKD, PSA	G130M 1309 A	CENTER=DEF; NUM-POS=5; STEP-SIZE=0.9			5 Secs [==>]	[1]	Comments: FUV=28.1 x 10 ⁻¹⁵ erg/s/cm/cm/A (IUE)										3	2214m3 (COS.sp.181 9 482)	(18) QSO-B2214+13	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2			500 Secs [==>467.0 Secs]	[1]	Comments: FUV=28.1 x 10 ⁻¹⁵ erg/s/cm/cm/A (IUE).										4	2214m4 (COS.sp.181 9 482)	(18) QSO-B2214+13	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4			500 Secs [==>467.0 Secs]	[1]	Comments: FUV=28.1 x 10 ⁻¹⁵ erg/s/cm/cm/A (IUE).										5	2214m5 (COS.sp.181 9 483)	(18) QSO-B2214+13	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2			500 Secs [==>467.0 Secs]	[1]	Comments: FUV=28.1 x 10 ⁻¹⁵ erg/s/cm/cm/A (IUE).										6	2214m6 (COS.sp.181 9 483)	(18) QSO-B2214+13	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4			500 Secs [==>467.0 Secs]	[1]	Comments: FUV=28.1 x 10 ⁻¹⁵ erg/s/cm/cm/A (IUE).									
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Proposal 12569 - Visit 19 - Ionized and Neutral Outflows in the QUEST QSOs

Sat Jun 25 01:32:00 GMT 2011

Visit	Proposal 12569, Visit 19, implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV Special Requirements: (none)										
	(Visit 19) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/PEAKXD. (Visit 19) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(19)	4C--01.61 Alt Name1: PG2349-014	RA: 23 51 56.1200 (357.9838333d) Dec: -01 09 13.10 (-1.15364d) Equinox: J2000		V=15.3 17.0 x 10 ⁻¹⁵ erg/s/cm/cm/A @ ~1300 A	Reference Frame: ICRS					
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	4c0161m1 (COS.sa.179 990)	(19) 4C--01.61	COS/FUV, ACQ/PEAKXD, PSA	G130M 1309 A	SEGMENT=BOTH			7 Secs [==>]	[1]	
	<i>Comments: FUV=17.0 x 10⁻¹⁵ ergs/cm/cm/A (IUE)</i>										
	2	4c0161m2 (COS.sa.179 90)	(19) 4C--01.61	COS/FUV, ACQ/PEAKD, PSA	G130M 1309 A	CENTER=DEF; NUM-POS=5; STEP-SIZE=0.9				7 Secs [==>]	[1]
	<i>Comments: FUV=17.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE)</i>										
	3	4c0161m3 (COS.sp.181 484)	(19) 4C--01.61	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2				500 Secs [==>461.0 Secs]	[1]
	<i>Comments: FUV=17.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>										
	4	4c0161m4 (COS.sp.181 484)	(19) 4C--01.61	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4				500 Secs [==>461.0 Secs]	[1]
<i>Comments: FUV=17.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											
5	4c0161m5 (COS.sp.181 485)	(19) 4C--01.61	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=2				500 Secs [==>461.0 Secs]	[1]	
<i>Comments: FUV=17.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											
6	4c0161m6 (COS.sp.181 485)	(19) 4C--01.61	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=50 0; FLASH=YES; FP-POS=4				500 Secs [==>461.0 Secs]	[1]	
<i>Comments: FUV=17.0 x 10⁻¹⁵ erg/s/cm/cm/A (IUE).</i>											

