



13482 - The Evolving Gas Content of Galaxy Halos: A Complete Census of MgII Absorption Line Host Galaxies at $0.7 < z < 2.5$

Cycle: 21, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) SDSS-J091730.18+324105.5	WFC3/IR	1	22-Aug-2013 21:35:59.0	yes
02	(2) SDSS-J120342.24+102831.8	WFC3/IR	1	22-Aug-2013 21:36:06.0	yes
03	(3) SDSS-J082946.90+185222.0	WFC3/IR	1	22-Aug-2013 21:36:12.0	yes
04	(4) SDSS-J113233.63+380346.4	WFC3/IR	1	22-Aug-2013 21:36:16.0	yes
05	(5) SDSS-J083852.05+025703.7	WFC3/IR	1	22-Aug-2013 21:36:21.0	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>
06	(6) SDSS-J110742.74+102126.3	WFC3/IR	1	22-Aug-2013 21:36:26.0	yes
07	(7) SDSS-J095432.63+354027.7	WFC3/IR	1	22-Aug-2013 21:36:31.0	yes
08	(8) SDSS-J001453.19+091217.6	WFC3/IR	1	22-Aug-2013 21:36:36.0	yes
09	(10) SDSS-J120639.85+025308.3	WFC3/IR	1	22-Aug-2013 21:36:40.0	yes
10	(1) SDSS-J091730.18+324105.5	WFC3/IR	1	22-Aug-2013 21:36:45.0	yes
11	(2) SDSS-J120342.24+102831.8	WFC3/IR	1	22-Aug-2013 21:36:50.0	yes
12	(3) SDSS-J082946.90+185222.0	WFC3/IR	1	22-Aug-2013 21:36:54.0	yes
13	(4) SDSS-J113233.63+380346.4	WFC3/IR	1	22-Aug-2013 21:36:58.0	yes
14	(5) SDSS-J083852.05+025703.7	WFC3/IR	1	22-Aug-2013 21:37:03.0	yes
15	(6) SDSS-J110742.74+102126.3	WFC3/IR	1	22-Aug-2013 21:37:07.0	yes
16	(7) SDSS-J095432.63+354027.7	WFC3/IR	1	22-Aug-2013 21:37:12.0	yes
17	(8) SDSS-J001453.19+091217.6	WFC3/IR	1	22-Aug-2013 21:37:16.0	yes
18	(10) SDSS-J120639.85+025308.3	WFC3/IR	1	22-Aug-2013 21:37:21.0	yes

18 Total Orbits Used

ABSTRACT

Background quasars provide a unique tool for probing the cold gas content of galaxy halos, independent of luminosity, from $z \sim 6$. Intervening absorption from singly-ionized Magnesium (Mg II) is theoretically capable of tracing the stripping, accretion and outflows of cold, enriched gas - processes understood to be fundamental in regulating galaxy evolution. Despite the tens of thousands of Mg II absorbers now available from the SDSS spectroscopic quasar sample, their utility in aiding our understanding the evolution of galaxies has been limited due to the difficulty of detecting their luminous counterparts at high redshifts and on small angular separations from the background quasar.

To finally resolve this problem, we propose to harness the peerless sensitivity and resolving power of the WFC3/IR G141 grism in a 18 orbit program to obtain observations of galaxies around the 9 most absorber-rich quasar sight lines in the SDSS. These data will enable us to, for the first time, study the properties (morphologies, inclination angles, star formation rates, star formation rate surface densities) of a complete sample of 54 typical Mg II-selected galaxies at $z > 0.7$. Most importantly, we will observe these absorber-selected galaxies at virtually unlimited impact parameters (5 to

450 kpc) and to extremely low star formation rates (1 Msun/yr), thus eliminating the most prohibitive biases of past observations.

OBSERVING DESCRIPTION

Phase II - Observing Description

This program aims to provide two-dimensional grism spectra and direct images of galaxies in the foreground of 9 QSOs with the greatest incidence of foreground Mg II absorption in the SDSS. We have selected QSOs with an exceptionally high frequency of absorption in the range $0.7 < z_{\text{absorber}} < 2$, so that we may confirm the galaxy hosts of the absorption using the H-alpha and [OIII]/H-beta emission lines in WFC3 G141 grism observations. The primary instrument we employ is WFC3, with the G141 grism (+ F140W direct images for wavelength calibration). The program comprises 18 orbits in total.

ORIENT and mosaic strategy:

We place no orientation requirements on the first visit to each field.

Orbit / visit strategy:

Each pointing is centered on the QSO, with two visits per QSO field. Each visit consists of one orbit. In each orbit 2 dithered exposures in WFC3/G141 will be obtained, along with short direct images taken at the same position, which are necessary for the wavelength calibration.

We schedule the two orbits on each target as two different visits, with the roll angle of the second visit set to differ from that of the first visit by at least 20 degrees. We set ORIENT 20 TO 160 from the previous visit to the target, but ORIENT -20 to -160 is also acceptable.

The purpose of using different roll angles for the two orbits is to improve our ability to account for contamination by overlapping spectra. We expect our fields to be somewhat crowded, given the frequency of foreground absorption in the central QSO spectrum, so this offset in the roll angle between visits to the same target will produce two sets of data with differing contamination properties, making the overall contamination for

individual spectra easier to determine.

We follow the simple pattern:

direct, grism, offset, direct, grism

Dithering strategy:

We use POS-TARG offsets to enable rejection of hot/bad pixels and to improve sampling of the PSF. The pattern is:

POS-TARG: (0, 0) (1.355, 0.424)

pixels: (0, 0) (10.0, 3.5)

This is a larger version of the standard WFC3-IR-DITHER-BOX-MIN pattern, which has only 1-2 pixel offsets between pointings. As some bad pixels come in clumps we prefer a slightly larger pattern. No attempt is made to dither over the "dead spot", as large dithers introduce large differential distortion. We use the same dither pattern for both visits to each field, since the differing orientations will ensure that spectra of the same objects fall on different pixels.

Priorities:

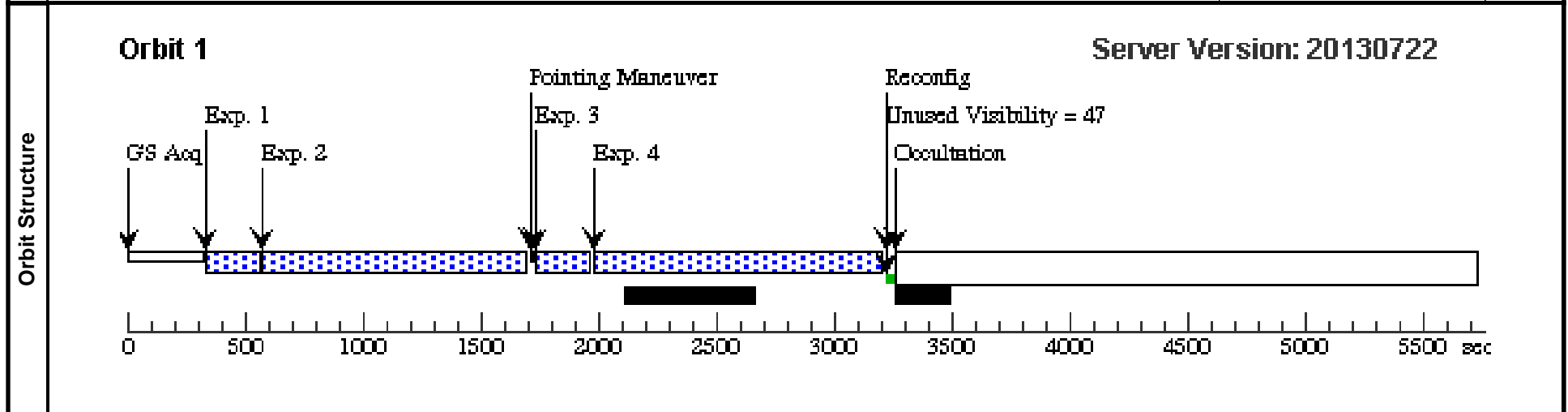
Among the 9 targets included in this program, all have equal priority.

Visit	Proposal 13482, QSO-1-1 (01), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: (none)
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Diagnostics	(QSO-1-1 (01)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE (QSO-1-1 (01)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE
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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>SDSS-J091730.18+324105.5</td> <td>RA: 09 17 30.1700 (139.3757083d) Dec: +32 41 5.30 (32.68481d) Equinox: J2000</td> <td>Redshift: 2.0178</td> <td>V=19.13</td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	SDSS-J091730.18+324105.5	RA: 09 17 30.1700 (139.3757083d) Dec: +32 41 5.30 (32.68481d) Equinox: J2000	Redshift: 2.0178	V=19.13	Reference Frame: SIMBAD
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous								
(1)	SDSS-J091730.18+324105.5	RA: 09 17 30.1700 (139.3757083d) Dec: +32 41 5.30 (32.68481d) Equinox: J2000	Redshift: 2.0178	V=19.13	Reference Frame: SIMBAD								

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SDSS-J0917 30.18+3241 05.5	(1) SDSS-J091730.1 8+324105.5	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.0,0.0		202.934095 Secs (202.934 Secs) [==>]	[1]
	2	SDSS-J0917 30.18+3241 05.5	(1) SDSS-J091730.1 8+324105.5	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S100	SAME POS AS 1		1102.935844 Secs (1102.936 Secs) [==>]	[1]
	3	SDSS-J0917 30.18+3241 05.5	(1) SDSS-J091730.1 8+324105.5	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 1.355,0. 424		202.934095 Secs (202.934 Secs) [==>]	[1]
4	SDSS-J0917 30.18+3241 05.5	(1) SDSS-J091730.1 8+324105.5	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	SAME POS AS 3		1202.936167 Secs (1202.936 Secs) [==>]	[1]	

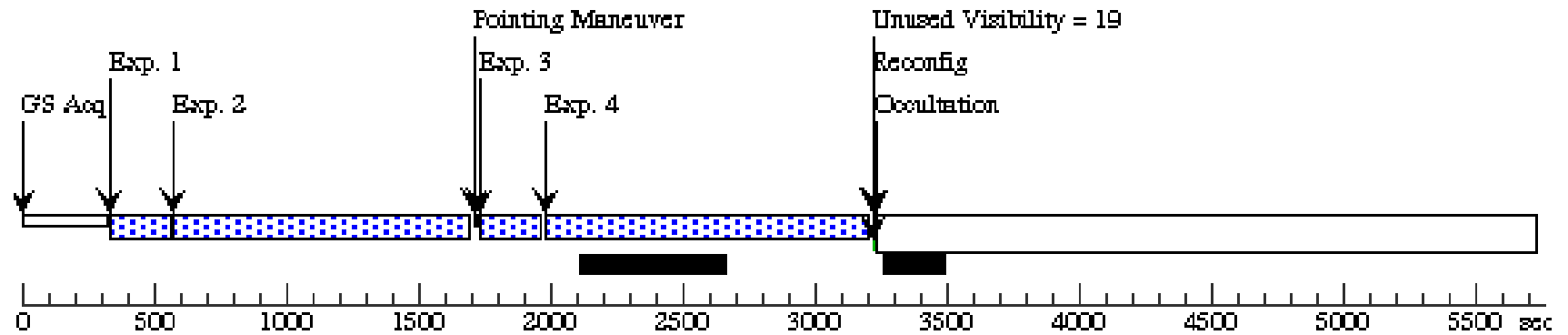


Visit	Proposal 13482, QSO-2-1 (02), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: (none)									
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	SDSS-J120342.24+102831.8	RA: 12 03 42.2400 (180.9260000d) Dec: +10 28 31.70 (10.47547d) Equinox: J2000	Redshift: 1.8976	V=18.13	Reference Frame: SIMBAD				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SDSS-J1203 42.24+1028 31.8	(2) SDSS-J120342.2 4+102831.8	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.0,0.0		202.934095 Secs (202.934 Secs)	
									[==>]	[1]
	2	SDSS-J1203 42.24+1028 31.8	(2) SDSS-J120342.2 4+102831.8	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S100	SAME POS AS 1		1102.935844 Secs (1102.936 Secs)	
									[==>]	[1]
3	SDSS-J1203 42.24+1028 31.8	(2) SDSS-J120342.2 4+102831.8	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 1.355,0.424		202.934095 Secs (202.934 Secs)		
								[==>]	[1]	
4	SDSS-J1203 42.24+1028 31.8	(2) SDSS-J120342.2 4+102831.8	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	SAME POS AS 3		1202.936167 Secs (1202.936 Secs)		
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Orbit 1

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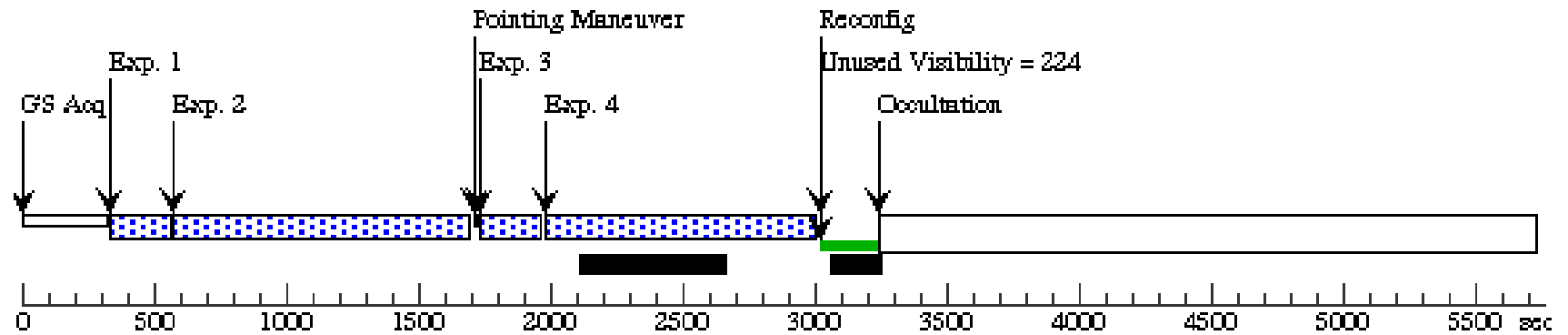
Orbit Structure



Visit	Proposal 13482, QSO-3-1 (03), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: (none)									
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	SDSS-J082946.90+185222.0	RA: 08 29 46.8200 (127.4450833d) Dec: +18 52 22.50 (18.87292d) Equinox: J2000	Redshift: 1.8008	V=18.79	Reference Frame: SIMBAD				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SDSS-J0829 46.90+1852 22.0	(3) SDSS-J082946.9 0+185222.0	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.0,0.0		202.934095 Secs (202.934 Secs)	
									[==>]	[1]
	2	SDSS-J0829 46.90+1852 22.0	(3) SDSS-J082946.9 0+185222.0	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S100	SAME POS AS 1		1102.935844 Secs (1102.936 Secs)	
									[==>]	[1]
3	SDSS-J0829 46.90+1852 22.0	(3) SDSS-J082946.9 0+185222.0	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 1.355,0.424		202.934095 Secs (202.934 Secs)		
								[==>]	[1]	
4	SDSS-J0829 46.90+1852 22.0	(3) SDSS-J082946.9 0+185222.0	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=11; SAMP-SEQ=SPAR S100	SAME POS AS 3		1002.935521 Secs (1002.936 Secs)		
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Orbit 1

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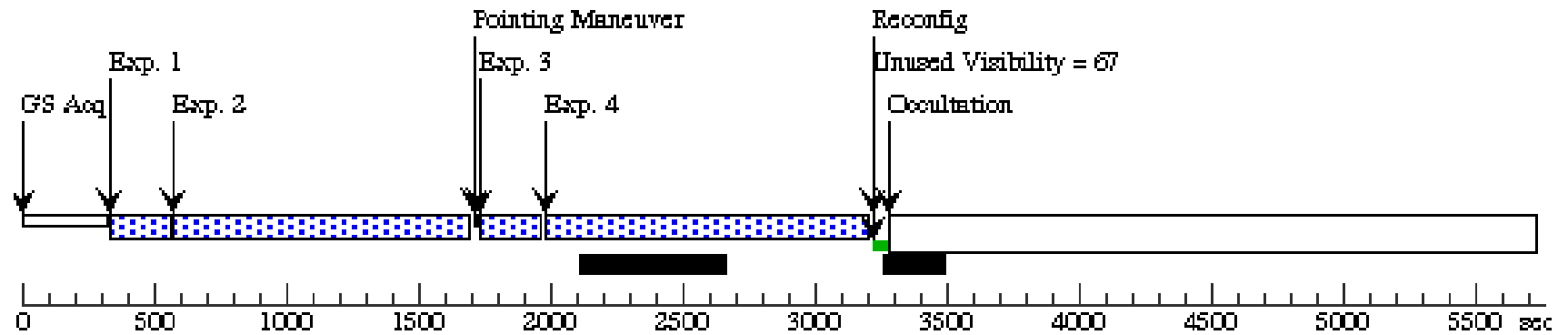


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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	SDSS-J113233.63+380346.4	RA: 11 32 33.6329 (173.1401371d) Dec: +38 03 46.37 (38.06288d) Equinox: J2000	Redshift: 2.302	V=18.86	Reference Frame: SIMBAD				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SDSS-J1132 33.63+3803 46.4	(4) SDSS-J113233.6 3+380346.4	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.0,0.0		202.934095 Secs (202.934 Secs)	
									[==>]	[1]
	2	SDSS-J1132 33.63+3803 46.4	(4) SDSS-J113233.6 3+380346.4	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S100	SAME POS AS 1		1102.935844 Secs (1102.936 Secs)	
									[==>]	[1]
3	SDSS-J1132 33.63+3803 46.4	(4) SDSS-J113233.6 3+380346.4	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 1.355,0.424		202.934095 Secs (202.934 Secs)		
								[==>]	[1]	
4	SDSS-J1132 33.63+3803 46.4	(4) SDSS-J113233.6 3+380346.4	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	SAME POS AS 3		1202.936167 Secs (1202.936 Secs)		
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Orbit 1

Server Version: 20130722

Orbit Structure

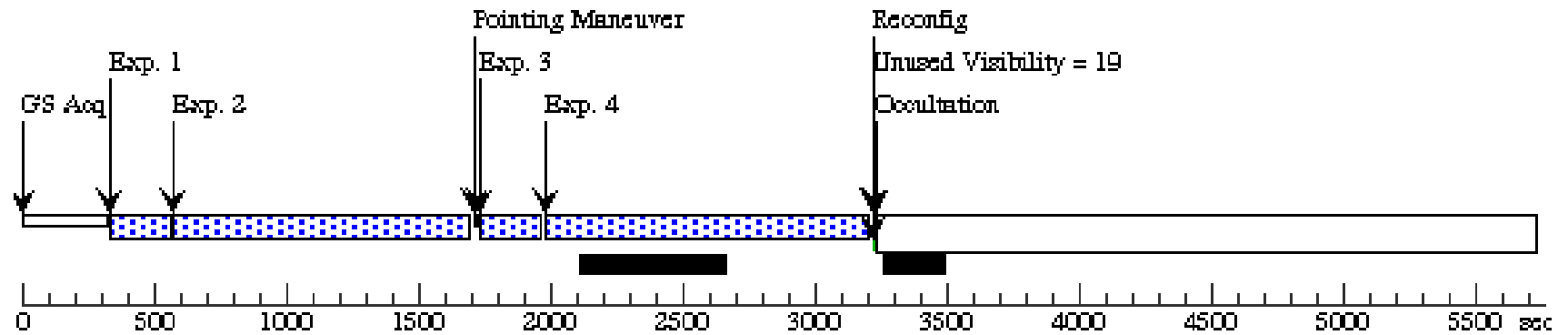


Visit	Proposal 13482, QSO-5-1 (05), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: (none)									
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	SDSS-J083852.05+025703.7	RA: 08 38 52.0536 (129.7168900d) Dec: +02 57 3.67 (2.95102d) Equinox: J2000	Redshift: 1.771	V=18.04	Reference Frame: SIMBAD				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SDSS-J083852.05+025703.7	(5) SDSS-J083852.05+025703.7	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.0,0.0		202.934095 Secs (202.934 Secs) [==>]	[1]
	2	SDSS-J083852.05+025703.7	(5) SDSS-J083852.05+025703.7	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S100	SAME POS AS 1		1102.935844 Secs (1102.936 Secs) [==>]	[1]
	3	SDSS-J083852.05+025703.7	(5) SDSS-J083852.05+025703.7	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 1.355,0.424		202.934095 Secs (202.934 Secs) [==>]	[1]
	4	SDSS-J083852.05+025703.7	(5) SDSS-J083852.05+025703.7	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	SAME POS AS 3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
Orbit Structure	Server Version: 20130722									

Visit	Proposal 13482, QSO-6-1 (06), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: (none)									
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	SDSS-J110742.74+102126.3	RA: 11 07 42.7389 (166.9280788d) Dec: +10 21 26.33 (10.35731d) Equinox: J2000	Redshift: 1.925	V=18.09	Reference Frame: SIMBAD				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SDSS-J1107 42.74+1021 26.3	(6) SDSS-J110742.7 4+102126.3	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.0,0.0		202.934095 Secs (202.934 Secs)	
									[==>]	[1]
	2	SDSS-J1107 42.74+1021 26.3	(6) SDSS-J110742.7 4+102126.3	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S100	SAME POS AS 1		1102.935844 Secs (1102.936 Secs)	
									[==>]	[1]
3	SDSS-J1107 42.74+1021 26.3	(6) SDSS-J110742.7 4+102126.3	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 1.355,0.424		202.934095 Secs (202.934 Secs)		
								[==>]	[1]	
4	SDSS-J1107 42.74+1021 26.3	(6) SDSS-J110742.7 4+102126.3	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	SAME POS AS 3		1202.936167 Secs (1202.936 Secs)		
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Orbit 1

Server Version: 20130722

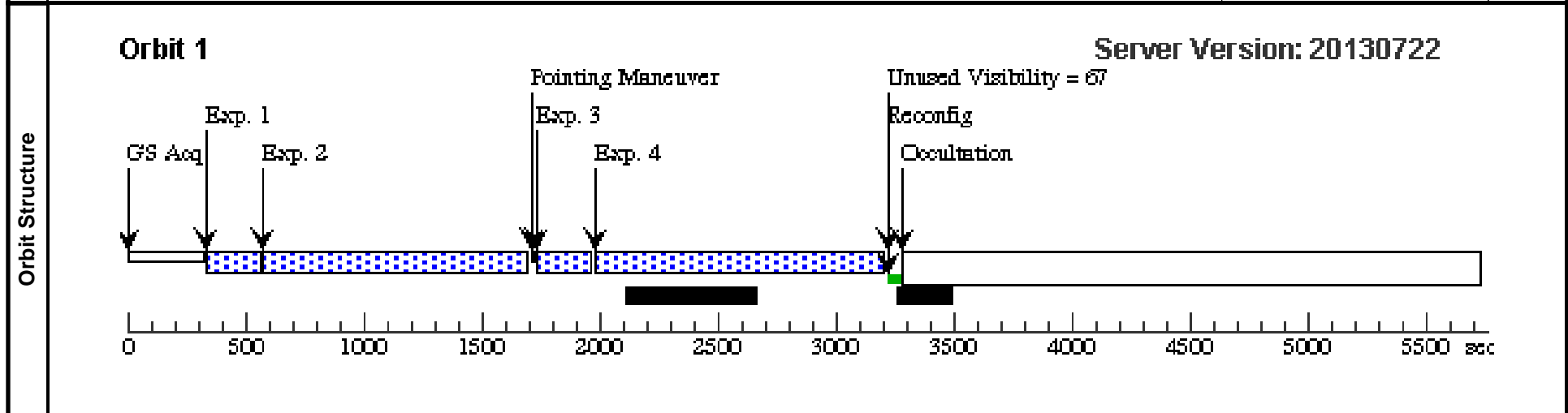


Visit	Proposal 13482, QSO-7-1 (07), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: (none)
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Diagnostics	(QSO-7-1 (07)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE (QSO-7-1 (07)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE
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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>(7)</td> <td>SDSS-J095432.63+354027.7</td> <td> RA: 09 54 32.6376 (148.6359900d) Dec: +35 40 27.80 (35.67439d) Equinox: J2000 </td> <td>Redshift: 2.715</td> <td>V=18.5</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	(7)	SDSS-J095432.63+354027.7	RA: 09 54 32.6376 (148.6359900d) Dec: +35 40 27.80 (35.67439d) Equinox: J2000	Redshift: 2.715	V=18.5	Reference Frame: NED
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous								
(7)	SDSS-J095432.63+354027.7	RA: 09 54 32.6376 (148.6359900d) Dec: +35 40 27.80 (35.67439d) Equinox: J2000	Redshift: 2.715	V=18.5	Reference Frame: NED								

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SDSS-J0954 32.63+3540 27.7	(7) SDSS-J095432.6 3+354027.7	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.0,0.0		202.934095 Secs (202.934 Secs) [==>]	[1]
	2	SDSS-J0954 32.63+3540 27.7	(7) SDSS-J095432.6 3+354027.7	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S100	SAME POS AS 1		1102.935844 Secs (1102.936 Secs) [==>]	[1]
	3	SDSS-J0954 32.63+3540 27.7	(7) SDSS-J095432.6 3+354027.7	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 1.355,0. 424		202.934095 Secs (202.934 Secs) [==>]	[1]
4	SDSS-J0954 32.63+3540 27.7	(7) SDSS-J095432.6 3+354027.7	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	SAME POS AS 3		1202.936167 Secs (1202.936 Secs) [==>]	[1]	

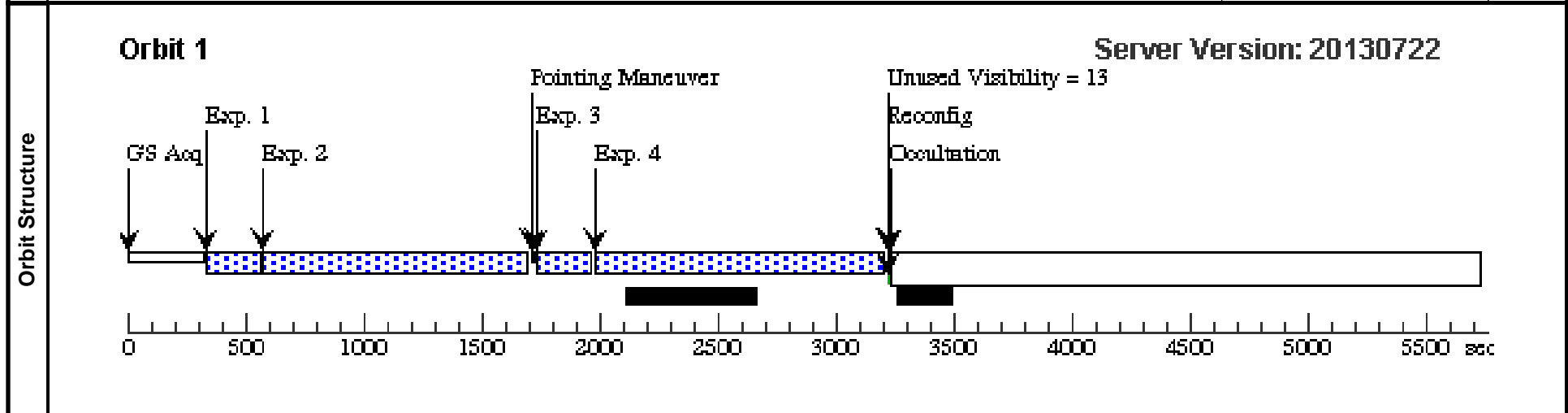


Visit	Proposal 13482, QSO-8-1 (08), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: (none)
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Diagnostics	(QSO-8-1 (08)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE (QSO-8-1 (08)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE
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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>(8)</td> <td>SDSS-J001453.19+091217.6</td> <td>RA: 00 14 53.1882 (3.7216175d) Dec: +09 12 17.63 (9.20490d) Equinox: J2000</td> <td>Redshift: 2.338</td> <td>V=18.5</td> <td>Reference Frame: GALEX</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the GALEX database.</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(8)	SDSS-J001453.19+091217.6	RA: 00 14 53.1882 (3.7216175d) Dec: +09 12 17.63 (9.20490d) Equinox: J2000	Redshift: 2.338	V=18.5	Reference Frame: GALEX
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous								
(8)	SDSS-J001453.19+091217.6	RA: 00 14 53.1882 (3.7216175d) Dec: +09 12 17.63 (9.20490d) Equinox: J2000	Redshift: 2.338	V=18.5	Reference Frame: GALEX								

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	SDSS-J0014 53.19+0912 17.6	(8) SDSS-J001453.1 9+091217.6	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.0,0.0		202.934095 Secs (202.934 Secs) [==>]	[1]
2	SDSS-J0014 53.19+0912 17.6	(8) SDSS-J001453.1 9+091217.6	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S100	SAME POS AS 1		1102.935844 Secs (1102.936 Secs) [==>]	[1]
3	SDSS-J0014 53.19+0912 17.6	(8) SDSS-J001453.1 9+091217.6	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 1.355,0.424		202.934095 Secs (202.934 Secs) [==>]	[1]
4	SDSS-J0014 53.19+0912 17.6	(8) SDSS-J001453.1 9+091217.6	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	SAME POS AS 3		1202.936167 Secs (1202.936 Secs) [==>]	[1]



Visit	Proposal 13482, QSO-9-1 (09), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: (none)									
	(QSO-9-1 (09)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE (QSO-9-1 (09)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	SDSS-J120639.85+025308.3	RA: 12 06 39.8500 (181.6660417d) Dec: +02 53 8.30 (2.88564d) Equinox: J2000		V=18.5	Reference Frame: NED				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SDSS-J120639.85+025308.3	(10) SDSS-J120639.85+025308.3	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.0,0.0		202.934095 Secs (202.934 Secs) [==>]	[1]
	2	SDSS-J120639.85+025308.3	(10) SDSS-J120639.85+025308.3	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S100	SAME POS AS 1		1102.935844 Secs (1102.936 Secs) [==>]	[1]
	3	SDSS-J120639.85+025308.3	(10) SDSS-J120639.85+025308.3	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 1.355,0.424		202.934095 Secs (202.934 Secs) [==>]	[1]
	4	SDSS-J120639.85+025308.3	(10) SDSS-J120639.85+025308.3	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	SAME POS AS 3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
Orbit Structure	<p style="text-align: right;">Server Version: 20130722</p> <p>The diagram shows a timeline from 0 to 5500 seconds. Key events include: GS Acq at ~100s, Exp. 1 at ~300s, Exp. 2 at ~500s, Pointing Maneuver at ~1700s, Exp. 3 at ~1800s, Exp. 4 at ~2000s, Reconfig at ~3200s, and Occultation at ~3300s. A shaded region from ~300s to ~3200s indicates the observation period. A label 'Unused Visibility = 9' is present near the occultation event.</p>									
	<p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 sec</p>									

Visit	Proposal 13482, QSO-1-2 (10), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: ORIENT 20D TO 160D FROM 01 <i>Comments: We specify Orient from Visit 1 by 20D to 160D. Orient from Visit 1 by -20D to -160D is also acceptable.</i>																																																							
	(QSO-1-2 (10)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE (QSO-1-2 (10)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE																																																							
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>SDSS-J091730.18+324105.5</td> <td>RA: 09 17 30.1700 (139.3757083d) Dec: +32 41 5.30 (32.68481d) Equinox: J2000</td> <td>Redshift: 2.0178</td> <td>V=19.13</td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	SDSS-J091730.18+324105.5	RA: 09 17 30.1700 (139.3757083d) Dec: +32 41 5.30 (32.68481d) Equinox: J2000	Redshift: 2.0178	V=19.13	Reference Frame: SIMBAD																																						
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Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</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 (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SDSS-J0917 30.18+3241 05.5</td> <td>(1) SDSS-J091730.1 8+324105.5</td> <td>WFC3/IR, MULTIACCUM, GRISM1024</td> <td>F140W</td> <td>NSAMP=5; SAMP-SEQ=SPAR S50</td> <td>POS TARG 0.0,0.0</td> <td></td> <td>202.934095 Secs (202.934 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>SDSS-J0917 30.18+3241 05.5</td> <td>(1) SDSS-J091730.1 8+324105.5</td> <td>WFC3/IR, MULTIACCUM, GRISM1024</td> <td>G141</td> <td>NSAMP=12; SAMP-SEQ=SPAR S100</td> <td>SAME POS AS 1</td> <td></td> <td>1102.935844 Secs (1102.936 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>SDSS-J0917 30.18+3241 05.5</td> <td>(1) SDSS-J091730.1 8+324105.5</td> <td>WFC3/IR, MULTIACCUM, GRISM1024</td> <td>F140W</td> <td>NSAMP=5; SAMP-SEQ=SPAR S50</td> <td>POS TARG 1.355,0.424</td> <td></td> <td>202.934095 Secs (202.934 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>SDSS-J0917 30.18+3241 05.5</td> <td>(1) SDSS-J091730.1 8+324105.5</td> <td>WFC3/IR, MULTIACCUM, GRISM1024</td> <td>G141</td> <td>NSAMP=13; SAMP-SEQ=SPAR S100</td> <td>SAME POS AS 3</td> <td></td> <td>1202.936167 Secs (1202.936 Secs) [==>]</td> <td>[1]</td> </tr> </tbody> </table>						#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	SDSS-J0917 30.18+3241 05.5	(1) SDSS-J091730.1 8+324105.5	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.0,0.0		202.934095 Secs (202.934 Secs) [==>]	[1]	2	SDSS-J0917 30.18+3241 05.5	(1) SDSS-J091730.1 8+324105.5	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S100	SAME POS AS 1		1102.935844 Secs (1102.936 Secs) [==>]	[1]	3	SDSS-J0917 30.18+3241 05.5	(1) SDSS-J091730.1 8+324105.5	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 1.355,0.424		202.934095 Secs (202.934 Secs) [==>]	[1]	4	SDSS-J0917 30.18+3241 05.5	(1) SDSS-J091730.1 8+324105.5	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	SAME POS AS 3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																														
	1	SDSS-J0917 30.18+3241 05.5	(1) SDSS-J091730.1 8+324105.5	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.0,0.0		202.934095 Secs (202.934 Secs) [==>]	[1]																																														
	2	SDSS-J0917 30.18+3241 05.5	(1) SDSS-J091730.1 8+324105.5	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S100	SAME POS AS 1		1102.935844 Secs (1102.936 Secs) [==>]	[1]																																														
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4	SDSS-J0917 30.18+3241 05.5	(1) SDSS-J091730.1 8+324105.5	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	SAME POS AS 3		1202.936167 Secs (1202.936 Secs) [==>]	[1]																																															
Orbit Structure	<p>Orbit 1 Server Version: 20130722</p> <p>The diagram shows a horizontal timeline from 0 to 5500 seconds. Key events are marked with arrows: GS Acq at ~100s, Exp. 1 at ~300s, Exp. 2 at ~500s, Pointing Maneuver at ~1700s, Exp. 3 at ~1800s, Exp. 4 at ~2000s, Reconfig at ~3200s, Occultation at ~3300s, and Unused Visibility = 47 at ~3400s. A blue checkered bar highlights the observation period from approximately 300s to 3200s. A black bar below the timeline indicates a period of inactivity from ~2100s to ~2600s.</p>																																																							
	<p>Timeline labels: 0, 500, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500 sec</p>																																																							

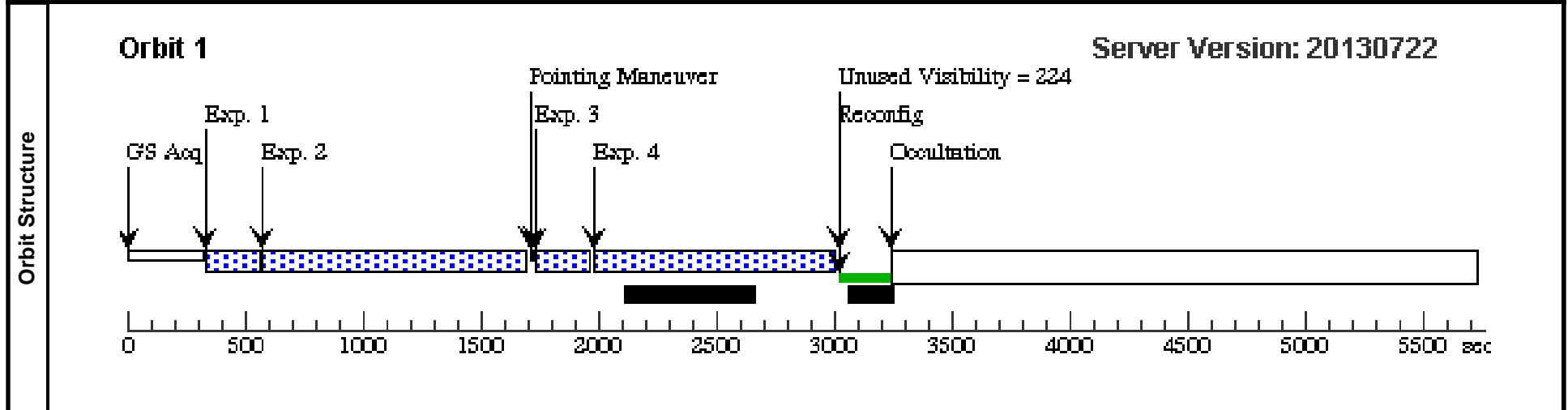
Visit	Proposal 13482, QSO-2-2 (11), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: ORIENT 20D TO 160D FROM 02 <i>Comments: We specify Orient from Visit 2 by 20D to 160D. Orient from Visit 2 by -20D to -160D is also acceptable.</i>									
	(QSO-2-2 (11)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE (QSO-2-2 (11)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	SDSS-J120342.24+102831.8	RA: 12 03 42.2400 (180.9260000d) Dec: +10 28 31.70 (10.47547d) Equinox: J2000	Redshift: 1.8976	V=18.13	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SDSS-J1203 42.24+1028 31.8	(2) SDSS-J120342.2 4+102831.8	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.0,0.0		202.934095 Secs (202.934 Secs)	[1]
	2	SDSS-J1203 42.24+1028 31.8	(2) SDSS-J120342.2 4+102831.8	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S100	SAME POS AS 1		1102.935844 Secs (1102.936 Secs)	[1]
	3	SDSS-J1203 42.24+1028 31.8	(2) SDSS-J120342.2 4+102831.8	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 1.355,0.424		202.934095 Secs (202.934 Secs)	[1]
	4	SDSS-J1203 42.24+1028 31.8	(2) SDSS-J120342.2 4+102831.8	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	SAME POS AS 3		1202.936167 Secs (1202.936 Secs)	[1]
Orbit Structure	<p style="text-align: right;">Server Version: 20130722</p>									
	<p>Unused Visibility = 19</p>									

Visit	<p>Proposal 13482, QSO-3-2 (12), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/IR</p> <p>Special Requirements: ORIENT 20D TO 160D FROM 03</p> <p><i>Comments: We specify Orient from Visit 3 by 20D to 160D. Orient from Visit 3 by -20D to -160D is also acceptable.</i></p>
	<p>(QSO-3-2 (12)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE</p> <p>(QSO-3-2 (12)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE</p>

Diagnosics	<p>(QSO-3-2 (12)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE</p> <p>(QSO-3-2 (12)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE</p>
	<p>(QSO-3-2 (12)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE</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>(3)</td> <td>SDSS-J082946.90+185222.0</td> <td>RA: 08 29 46.8200 (127.4450833d) Dec: +18 52 22.50 (18.87292d) Equinox: J2000</td> <td>Redshift: 1.8008</td> <td>V=18.79</td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(3)	SDSS-J082946.90+185222.0	RA: 08 29 46.8200 (127.4450833d) Dec: +18 52 22.50 (18.87292d) Equinox: J2000	Redshift: 1.8008	V=18.79	Reference Frame: SIMBAD
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(3)	SDSS-J082946.90+185222.0	RA: 08 29 46.8200 (127.4450833d) Dec: +18 52 22.50 (18.87292d) Equinox: J2000	Redshift: 1.8008	V=18.79	Reference Frame: SIMBAD								
<p>#</p> <p>Name</p> <p>Target Coordinates</p> <p>Targ. Coord. Corrections</p> <p>Fluxes</p> <p>Miscellaneous</p>													

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SDSS-J0829 46.90+1852 22.0	(3) SDSS-J082946.9 0+185222.0	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.0,0.0			202.934095 Secs (202.934 Secs)
2	SDSS-J0829 46.90+1852 22.0	(3) SDSS-J082946.9 0+185222.0	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S100	SAME POS AS 1			1102.935844 Secs (1102.936 Secs)	[1]
3	SDSS-J0829 46.90+1852 22.0	(3) SDSS-J082946.9 0+185222.0	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 1.355,0.424			202.934095 Secs (202.934 Secs)	[1]
4	SDSS-J0829 46.90+1852 22.0	(3) SDSS-J082946.9 0+185222.0	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=11; SAMP-SEQ=SPAR S100	SAME POS AS 3			1002.935521 Secs (1002.936 Secs)	[1]

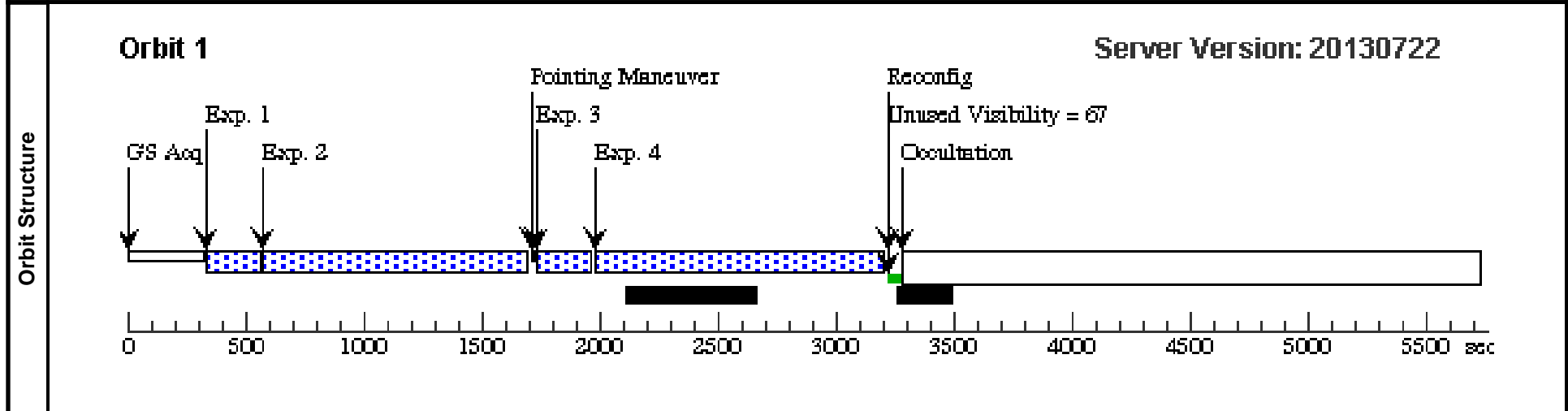


Visit	<p>Proposal 13482, QSO-4-2 (13), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/IR</p> <p>Special Requirements: ORIENT 20D TO 160D FROM 04</p> <p><i>Comments: We specify Orient from Visit 4 by 20D to 160D. Orient from Visit 4 by -20D to -160D is also acceptable.</i></p>
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Diagnostics	<p>(QSO-4-2 (13)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE</p> <p>(QSO-4-2 (13)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE</p>
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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>(4)</td> <td>SDSS-J113233.63+380346.4</td> <td>RA: 11 32 33.6329 (173.1401371d) Dec: +38 03 46.37 (38.06288d) Equinox: J2000</td> <td>Redshift: 2.302</td> <td>V=18.86</td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(4)	SDSS-J113233.63+380346.4	RA: 11 32 33.6329 (173.1401371d) Dec: +38 03 46.37 (38.06288d) Equinox: J2000	Redshift: 2.302	V=18.86	Reference Frame: SIMBAD
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous								
(4)	SDSS-J113233.63+380346.4	RA: 11 32 33.6329 (173.1401371d) Dec: +38 03 46.37 (38.06288d) Equinox: J2000	Redshift: 2.302	V=18.86	Reference Frame: SIMBAD								

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	SDSS-J1132 33.63+3803 46.4	(4) SDSS-J113233.6 3+380346.4	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.0,0.0		202.934095 Secs (202.934 Secs) [==>]	[1]
2	SDSS-J1132 33.63+3803 46.4	(4) SDSS-J113233.6 3+380346.4	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S100	SAME POS AS 1		1102.935844 Secs (1102.936 Secs) [==>]	[1]
3	SDSS-J1132 33.63+3803 46.4	(4) SDSS-J113233.6 3+380346.4	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 1.355,0. 424		202.934095 Secs (202.934 Secs) [==>]	[1]
4	SDSS-J1132 33.63+3803 46.4	(4) SDSS-J113233.6 3+380346.4	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	SAME POS AS 3		1202.936167 Secs (1202.936 Secs) [==>]	[1]

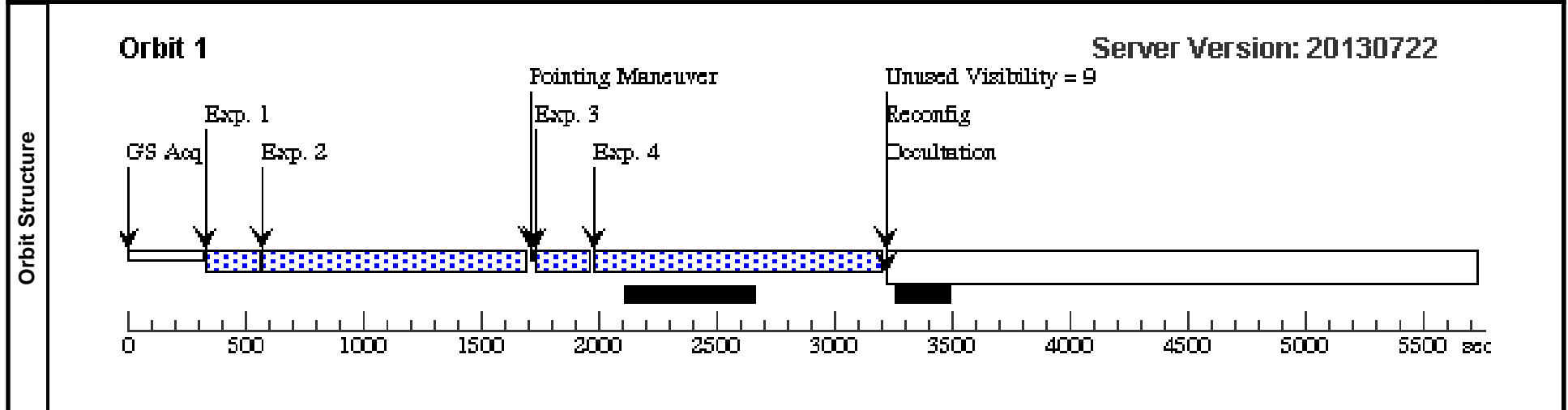


Visit	<p>Proposal 13482, QSO-5-2 (14), implementation</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/IR</p> <p>Special Requirements: ORIENT 20D TO 160D FROM 05</p> <p><i>Comments: We specify Orient from Visit 5 by 20D to 160D. Orient from Visit 5 by -20D to -160D is also acceptable.</i></p>
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Diagnostics	<p>(QSO-5-2 (14)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE</p> <p>(QSO-5-2 (14)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE</p>
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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>(5)</td> <td>SDSS-J083852.05+025703.7</td> <td>RA: 08 38 52.0536 (129.7168900d) Dec: +02 57 3.67 (2.95102d) Equinox: J2000</td> <td>Redshift: 1.771</td> <td>V=18.04</td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(5)	SDSS-J083852.05+025703.7	RA: 08 38 52.0536 (129.7168900d) Dec: +02 57 3.67 (2.95102d) Equinox: J2000	Redshift: 1.771	V=18.04	Reference Frame: SIMBAD
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous								
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SDSS-J0838 52.05+0257 03.7	(5) SDSS-J083852.0 5+025703.7	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.0,0.0		202.934095 Secs (202.934 Secs) [==>]	[1]
	2	SDSS-J0838 52.05+0257 03.7	(5) SDSS-J083852.0 5+025703.7	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S100	SAME POS AS 1		1102.935844 Secs (1102.936 Secs) [==>]	[1]
	3	SDSS-J0838 52.05+0257 03.7	(5) SDSS-J083852.0 5+025703.7	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 1.355,0.424		202.934095 Secs (202.934 Secs) [==>]	[1]
4	SDSS-J0838 52.05+0257 03.7	(5) SDSS-J083852.0 5+025703.7	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	SAME POS AS 3		1202.936167 Secs (1202.936 Secs) [==>]	[1]	

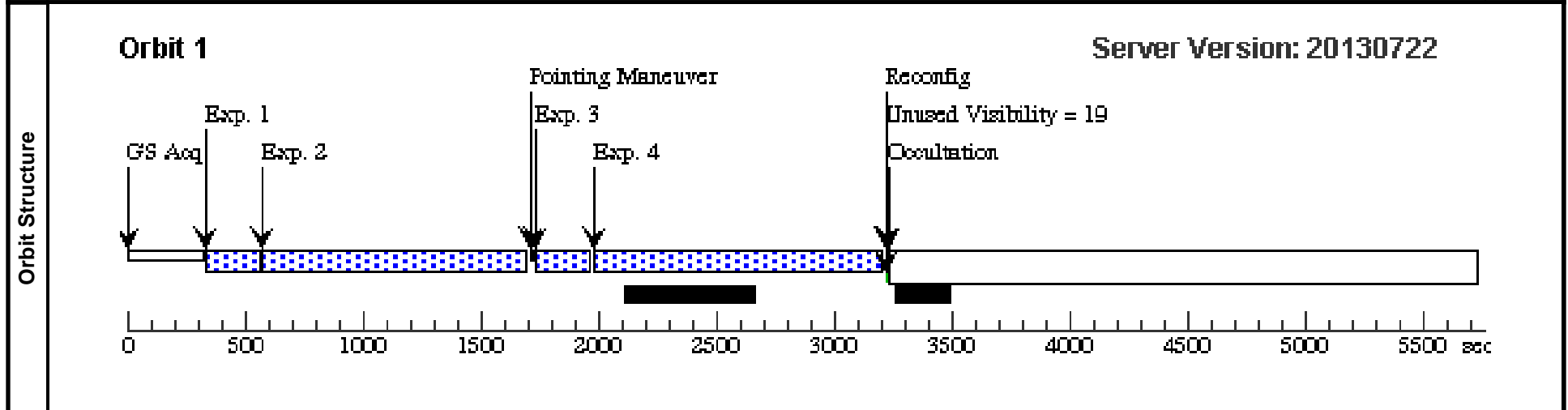


Visit	Proposal 13482, QSO-6-2 (15), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: ORIENT 20D TO 160D FROM 06 <i>Comments: We specify Orient from Visit 6 by 20D to 160D. Orient from Visit 6 by -20D to -160D is also acceptable.</i>
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Diagnostics	(QSO-6-2 (15)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE
	(QSO-6-2 (15)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE

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>(6)</td> <td>SDSS-J110742.74+102126.3</td> <td>RA: 11 07 42.7389 (166.9280788d) Dec: +10 21 26.33 (10.35731d) Equinox: J2000</td> <td>Redshift: 1.925</td> <td>V=18.09</td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(6)	SDSS-J110742.74+102126.3	RA: 11 07 42.7389 (166.9280788d) Dec: +10 21 26.33 (10.35731d) Equinox: J2000	Redshift: 1.925	V=18.09	Reference Frame: SIMBAD
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous							
(6)	SDSS-J110742.74+102126.3	RA: 11 07 42.7389 (166.9280788d) Dec: +10 21 26.33 (10.35731d) Equinox: J2000	Redshift: 1.925	V=18.09	Reference Frame: SIMBAD								
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>													

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SDSS-J1107 42.74+1021 26.3	(6) SDSS-J110742.7 4+102126.3	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.0,0.0			202.934095 Secs (202.934 Secs) [==>]
2	SDSS-J1107 42.74+1021 26.3	(6) SDSS-J110742.7 4+102126.3	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S100	SAME POS AS 1			1102.935844 Secs (1102.936 Secs) [==>]	[1]
3	SDSS-J1107 42.74+1021 26.3	(6) SDSS-J110742.7 4+102126.3	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 1.355,0. 424			202.934095 Secs (202.934 Secs) [==>]	[1]
4	SDSS-J1107 42.74+1021 26.3	(6) SDSS-J110742.7 4+102126.3	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	SAME POS AS 3			1202.936167 Secs (1202.936 Secs) [==>]	[1]



Visit	Proposal 13482, QSO-7-2 (16), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: ORIENT 20D TO 160D FROM 07 <i>Comments: We specify Orient from Visit 7 by 20D to 160D. Orient from Visit 7 by -20D to -160D is also acceptable.</i>																																																							
	(QSO-7-2 (16)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE (QSO-7-2 (16)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE																																																							
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>(7)</td> <td>SDSS-J095432.63+354027.7</td> <td>RA: 09 54 32.6376 (148.6359900d) Dec: +35 40 27.80 (35.67439d) Equinox: J2000</td> <td>Redshift: 2.715</td> <td>V=18.5</td> <td>Reference Frame: NED</td> </tr> </tbody> </table>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(7)	SDSS-J095432.63+354027.7	RA: 09 54 32.6376 (148.6359900d) Dec: +35 40 27.80 (35.67439d) Equinox: J2000	Redshift: 2.715	V=18.5	Reference Frame: NED																																						
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<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>																																																								
Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</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 (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SDSS-J0954 32.63+3540 27.7</td> <td>(7) SDSS-J095432.6 3+354027.7</td> <td>WFC3/IR, MULTIACCUM, GRISM1024</td> <td>F140W</td> <td>NSAMP=5; SAMP-SEQ=SPAR S50</td> <td>POS TARG 0.0,0.0</td> <td></td> <td>202.934095 Secs (202.934 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>SDSS-J0954 32.63+3540 27.7</td> <td>(7) SDSS-J095432.6 3+354027.7</td> <td>WFC3/IR, MULTIACCUM, GRISM1024</td> <td>G141</td> <td>NSAMP=12; SAMP-SEQ=SPAR S100</td> <td>SAME POS AS 1</td> <td></td> <td>1102.935844 Secs (1102.936 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>SDSS-J0954 32.63+3540 27.7</td> <td>(7) SDSS-J095432.6 3+354027.7</td> <td>WFC3/IR, MULTIACCUM, GRISM1024</td> <td>F140W</td> <td>NSAMP=5; SAMP-SEQ=SPAR S50</td> <td>POS TARG 1.355,0. 424</td> <td></td> <td>202.934095 Secs (202.934 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>SDSS-J0954 32.63+3540 27.7</td> <td>(7) SDSS-J095432.6 3+354027.7</td> <td>WFC3/IR, MULTIACCUM, GRISM1024</td> <td>G141</td> <td>NSAMP=13; SAMP-SEQ=SPAR S100</td> <td>SAME POS AS 3</td> <td></td> <td>1202.936167 Secs (1202.936 Secs) [==>]</td> <td>[1]</td> </tr> </tbody> </table>						#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	SDSS-J0954 32.63+3540 27.7	(7) SDSS-J095432.6 3+354027.7	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.0,0.0		202.934095 Secs (202.934 Secs) [==>]	[1]	2	SDSS-J0954 32.63+3540 27.7	(7) SDSS-J095432.6 3+354027.7	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S100	SAME POS AS 1		1102.935844 Secs (1102.936 Secs) [==>]	[1]	3	SDSS-J0954 32.63+3540 27.7	(7) SDSS-J095432.6 3+354027.7	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 1.355,0. 424		202.934095 Secs (202.934 Secs) [==>]	[1]	4	SDSS-J0954 32.63+3540 27.7	(7) SDSS-J095432.6 3+354027.7	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	SAME POS AS 3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																														
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	2	SDSS-J0954 32.63+3540 27.7	(7) SDSS-J095432.6 3+354027.7	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S100	SAME POS AS 1		1102.935844 Secs (1102.936 Secs) [==>]	[1]																																														
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4	SDSS-J0954 32.63+3540 27.7	(7) SDSS-J095432.6 3+354027.7	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	SAME POS AS 3		1202.936167 Secs (1202.936 Secs) [==>]	[1]																																															
Orbit Structure	<p>Orbit 1 Server Version: 20130722</p>																																																							
	<p>Timeline labels: GS Acq, Exp. 1, Exp. 2, Pointing Maneuver, Exp. 3, Exp. 4, Reconfig, Occultation, Unused Visibility = 67</p>																																																							

Visit	Proposal 13482, QSO-8-2 (17), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: ORIENT 20D TO 160D FROM 08 <i>Comments: We specify Orient from Visit 8 by 20D to 160D. Orient from Visit 8 by -20D to -160D is also acceptable.</i>									
	(QSO-8-2 (17)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE (QSO-8-2 (17)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	SDSS-J001453.19+091217.6	RA: 00 14 53.1882 (3.7216175d) Dec: +09 12 17.63 (9.20490d) Equinox: J2000	Redshift: 2.338	V=18.5	Reference Frame: GALEX				
<i>Comments: This object was generated by the targetselector and retrieved from the GALEX database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SDSS-J0014 53.19+0912 17.6	(8) SDSS-J001453.1 9+091217.6	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.0,0.0		202.934095 Secs (202.934 Secs)	[1]
	2	SDSS-J0014 53.19+0912 17.6	(8) SDSS-J001453.1 9+091217.6	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S100	SAME POS AS 1		1102.935844 Secs (1102.936 Secs)	[1]
	3	SDSS-J0014 53.19+0912 17.6	(8) SDSS-J001453.1 9+091217.6	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 1.355,0.424		202.934095 Secs (202.934 Secs)	[1]
	4	SDSS-J0014 53.19+0912 17.6	(8) SDSS-J001453.1 9+091217.6	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	SAME POS AS 3		1202.936167 Secs (1202.936 Secs)	[1]
Orbit Structure	<div style="text-align: right;">Server Version: 20130722</div>									
	<p>Unused Visibility = 13</p>									

Visit	Proposal 13482, QSO-9-2 (18), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: ORIENT 20D TO 160D FROM 09 <i>Comments: We specify Orient from Visit 9 by 20D to 160D. Orient from Visit 9 by -20D to -160D is also acceptable.</i>									
	(QSO-9-2 (18)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE (QSO-9-2 (18)) Warning (Orbit Planner): SAME POS MAY NOT BE APPROPRIATE									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	SDSS-J120639.85+025308.3	RA: 12 06 39.8500 (181.6660417d) Dec: +02 53 8.30 (2.88564d) Equinox: J2000		V=18.5	Reference Frame: NED				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	SDSS-J120639.85+025308.3	(10) SDSS-J120639.85+025308.3	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.0,0.0		202.934095 Secs (202.934 Secs) [==>]	[1]
	2	SDSS-J120639.85+025308.3	(10) SDSS-J120639.85+025308.3	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S100	SAME POS AS 1		1102.935844 Secs (1102.936 Secs) [==>]	[1]
	3	SDSS-J120639.85+025308.3	(10) SDSS-J120639.85+025308.3	WFC3/IR, MULTIACCUM, GRISM1024	F140W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 1.355,0.424		202.934095 Secs (202.934 Secs) [==>]	[1]
	4	SDSS-J120639.85+025308.3	(10) SDSS-J120639.85+025308.3	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	SAME POS AS 3		1202.936167 Secs (1202.936 Secs) [==>]	[1]
Orbit Structure	<p>Orbit 1 Server Version: 20130722</p> <p>The diagram shows a timeline from 0 to 5500 seconds. Key events include: GS Acq at ~100s, Exp. 1 at ~300s, Exp. 2 at ~500s, a Pointing Maneuver at ~1700s, Exp. 3 at ~1800s, Exp. 4 at ~2000s, another Pointing Maneuver at ~3200s, Reconfig at ~3300s, and Occultation at ~3400s. A period of Unused Visibility = 9 is shown from ~3500s to ~5500s. A blue and white checkered bar highlights the exposure periods from approximately 300s to 2000s.</p>									
	<p>Timeline labels: GS Acq, Exp. 1, Exp. 2, Pointing Maneuver, Exp. 3, Exp. 4, Pointing Maneuver, Reconfig, Occultation, Unused Visibility = 9. X-axis: 0, 500, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500 sec.</p>									