13448 - The Closest Galactic Wind: UV Properties of the Milky Way's Nuclear Outflow

Cycle: 21, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(1) HD148422	STIS/CCD STIS/FUV-MAMA	1	17-Sep-2013 22:04:31.0	yes
02	(2) HD163522	STIS/CCD STIS/FUV-MAMA	1	17-Sep-2013 22:04:40.0	yes
03	(3) HD167402	STIS/CCD STIS/FUV-MAMA	1	17-Sep-2013 22:04:46.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
04	(4) HD177566	STIS/CCD STIS/FUV-MAMA	1	17-Sep-2013 22:04:52.0	yes
05	(5) HD178487	STIS/CCD STIS/FUV-MAMA	1	17-Sep-2013 22:04:58.0	yes
06	(6) HD179407	STIS/CCD STIS/FUV-MAMA	1	17-Sep-2013 22:05:04.0	yes
07	(7) ESO462-G09	COS/FUV	5	17-Sep-2013 22:05:18.0	yes
08	(8) CTS487	COS/FUV	3	17-Sep-2013 22:05:30.0	yes
09	(8) CTS487	COS/FUV	3	17-Sep-2013 22:05:39.0	yes
10	(9) RBS2000	COS/FUV	4	17-Sep-2013 22:05:53.0	yes
11	(10) RBS1666	COS/FUV	5	17-Sep-2013 22:06:09.0	yes
12	(11) MRK1392	COS/FUV	4	17-Sep-2013 22:06:28.0	yes
13	(12) PG1352+183	COS/FUV	5	17-Sep-2013 22:06:42.0	yes
14	(13) 1H1613-097	COS/FUV	5	17-Sep-2013 22:06:57.0	yes
15	(14) MRK841	COS/FUV	2	17-Sep-2013 22:07:10.0	yes
16	(15) PDS456	COS/FUV	5	17-Sep-2013 22:07:24.0	yes
17	(16) PG1435-067	COS/FUV	2	17-Sep-2013 22:07:35.0	yes

49 Total Orbits Used

ABSTRACT

Like other spiral galaxies, the Milky Way drives a biconical nuclear wind. This outflow is visible in emission in many parts of the electromagnetic spectrum, including spectacular Fermi gamma-ray bubbles and radio lobes extending to ~10 kpc above and below the Galactic Center. The nuclear wind is thought to be powered by either the central black hole or high-surface-density star formation, but our understanding is hampered by a lack of kinematic information. We propose a comprehensive spectroscopic program to survey the nuclear outflow in both the northern and southern Galactic hemispheres. This program combines high-resolution STIS E140M observations of six distant halo stars at low latitude with medium-resolution COS observations of 10 AGN at higher latitude. The halo-star spectra will constrain the plasma density distribution (mid-plane density and scale height of C IV, Si IV, and N V absorption) of the low halo within a few kpc of the plane, where the outflow is thought to be launched. The AGN spectra will

provide crucial kinematic and ionization information on the outflow away from the plane, allowing us to determine (i) how far the high-ion wind extends, (ii) whether the outflow is accelerating or decelerating, and (iii) the ionization mechanism in the outflow. This dataset will also reveal the relationship between the UV-absorbing gas and the other phases of the wind, which will aid the understanding of outflows from other galaxies and galaxy nuclei.

The unique UV capability of HST is essential to this program.

OBSERVING DESCRIPTION

This is a spectroscopic program to study the gaseous outflow from the Galactic center in UV absorption. It combines high-resolution STIS E140M observations of six distant halo stars at low Galactic latitude with medium-resolution COS G130M and G160M observations of 10 AGN at high latitude. The STIS halo star observations all use one orbit per target. The COS AGN observations vary between 2 and 6 orbits per target depending on UV brightness, split between the two gratings. The targets are spread over both the Northern and Southern Galactic hemispheres. The absorption profiles of metal lines including C IV 1548,1550 and Si IV 1393,1402 will be measured and analyzed, and their properties correlated with Galactic latitude to determine how the outflowing gas behaves as it enters the halo.

Visit

Proposal 13448, HD148422 (01), implementation Wed Sep 18 02:07:45 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: (none)

Fixed Targets

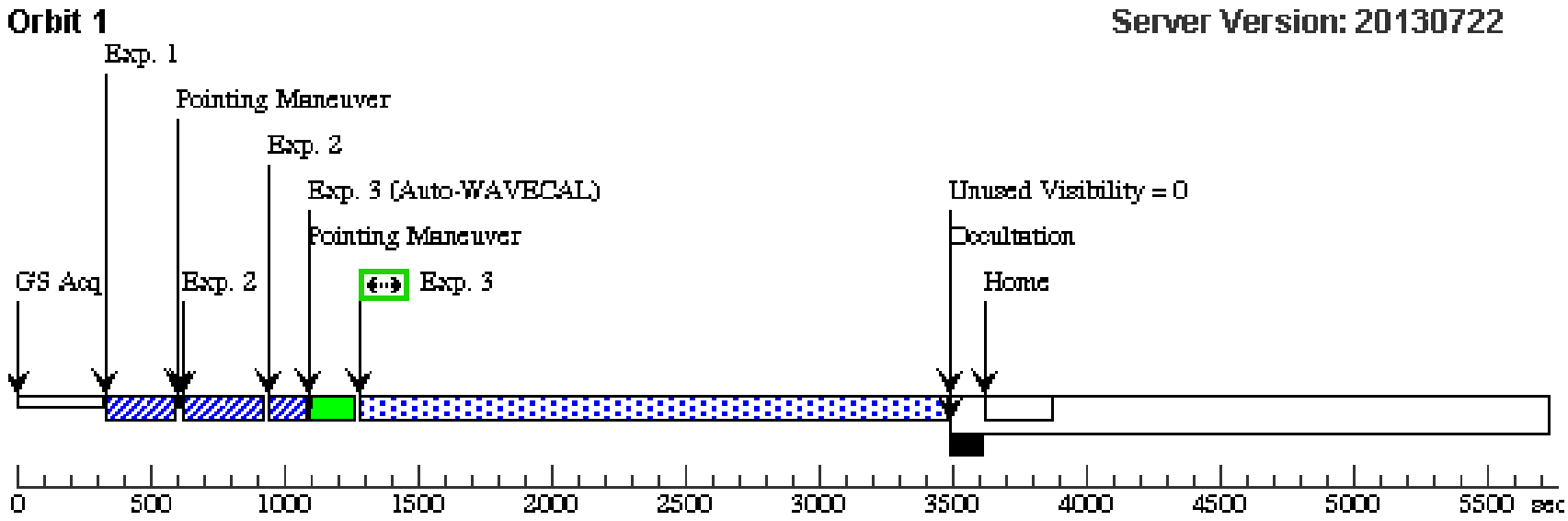
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HD148422	RA: 16 30 59.9900 (247.7499583d) Dec: -56 29 43.60 (-56.49544d) Equinox: J2000		V=8.64 F_1500=4.5e-12 measured by IUE	Reference Frame: ICRS

Comments: This object was generated by the targetselector and initially retrieved from the SIMBAD database.
Coordinates were tweaked after discussion with CS, since there is a slight (~1") offset between SIMBAD coordinates and the target in the GSC/POSS2 confirmation chart.
This is not a proper motion effect since the PM vector is in a different direction.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(510056)	(1) HD148422	STIS/CCD, ACQ, F28X50OII	MIRROR	ACQTYPE=POINT			0.5 Secs (0.5 Secs) *[==>]*	*[1]*
2	(510060)	(1) HD148422	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				0.5 Secs (0.5 Secs) *[==>]*	*[1]*
3	(510777)	(1) HD148422	STIS/FUV-MAMA, ACCUM, 0.2X0.06	E140M 1425 A				2180 Secs (2180 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 13448, HD163522 (02), implementation Wed Sep 18 02:07:46 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: (none)

Fixed Targets

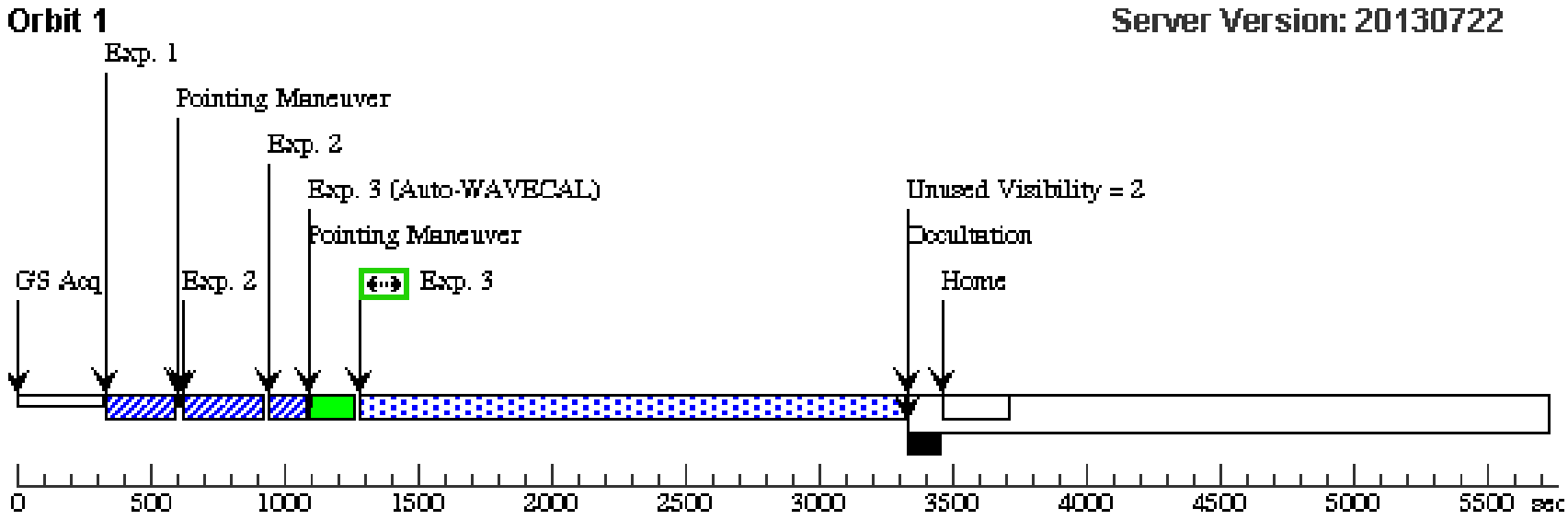
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	HD163522	RA: 17 58 35.2335 (269.6468062d) Dec: -42 29 10.10 (-42.48614d) Equinox: J2000	Proper Motion RA: 2.79 mas/yr Proper Motion Dec: -0.17 mas/yr Epoch of Position: 2000	V=8.42 F_1500=7.0e-12 measured by IUE	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(510069)	(2) HD163522	STIS/CCD, ACQ, F28X50OII	MIRROR	ACQTYPE=POINT			0.5 Secs (0.5 Secs)	
								[==>]	***[1]***
2	(510070)	(2) HD163522	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				0.5 Secs (0.5 Secs)	
								[==>]	***[1]***
3	(510778)	(2) HD163522	STIS/FUV-MAMA, ACCUM, 0.2X0.06	E140M 1425 A				2020 Secs (2020 Secs)	
								[==>]	***[1]***

Orbit Structure



Visit

Proposal 13448, HD167402 (03), implementation Wed Sep 18 02:07:47 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: (none)

Fixed Targets

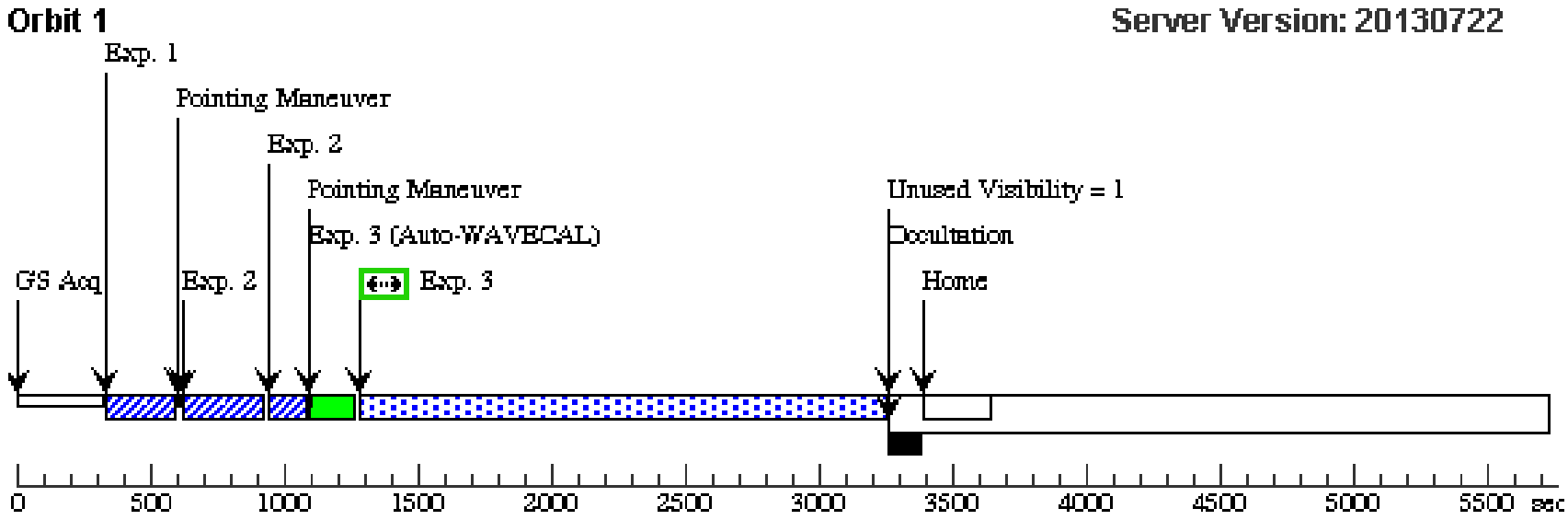
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	HD167402	RA: 18 16 18.6913 (274.0778804d) Dec: -30 07 29.62 (-30.12489d) Equinox: J2000	Proper Motion RA: 3.4 mas/yr Proper Motion Dec: 0.1 mas/yr Epoch of Position: 2000	V=9.09 F_1500=1.0e-11 measured by IUE	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(510073)	(3) HD167402	STIS/CCD, ACQ, F28X50OII	MIRROR	ACQTYPE=POINT			0.5 Secs (0.5 Secs) *[==>]*	 ***[1]***
2	(510075)	(3) HD167402	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				0.5 Secs (0.5 Secs) *[==>]*	 ***[1]***
3	(512194)	(3) HD167402	STIS/FUV-MAMA, ACCUM, 0.2X0.06	E140M 1425 A				1955 Secs (1955 Secs) *[==>]*	 ***[1]***

Orbit Structure



Visit

Proposal 13448, HD177566 (04), implementation Wed Sep 18 02:07:48 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: (none)

Fixed Targets

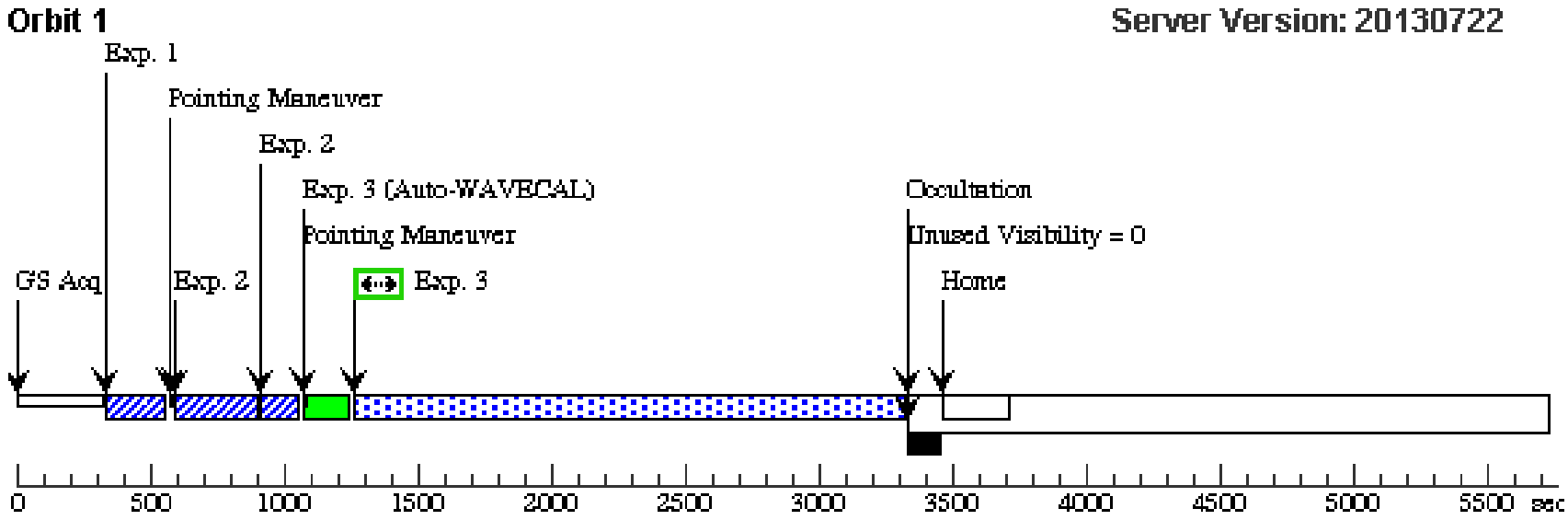
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	HD177566	RA: 19 07 7.8857 (286.7828571d) Dec: -41 43 16.03 (-41.72112d) Equinox: J2000	Proper Motion RA: -2.82 mas/yr Proper Motion Dec: -44.59 mas/yr Epoch of Position: 2000	V=10.17 F_1500=1.5e-11 measured by IUE	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(510093)	(4) HD177566	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs)	
								[==>]	***[1]***
2	(513590)	(4) HD177566	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				1.0 Secs (1 Secs)	
								[==>]	***[1]***
3	(512195)	(4) HD177566	STIS/FUV-MAMA, ACCUM, 0.2X0.06	E140M 1425 A				2043 Secs (2043 Secs)	
								[==>]	***[1]***

Orbit Structure



Visit

Proposal 13448, HD178487 (05), implementation Wed Sep 18 02:07:49 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: (none)

Fixed Targets

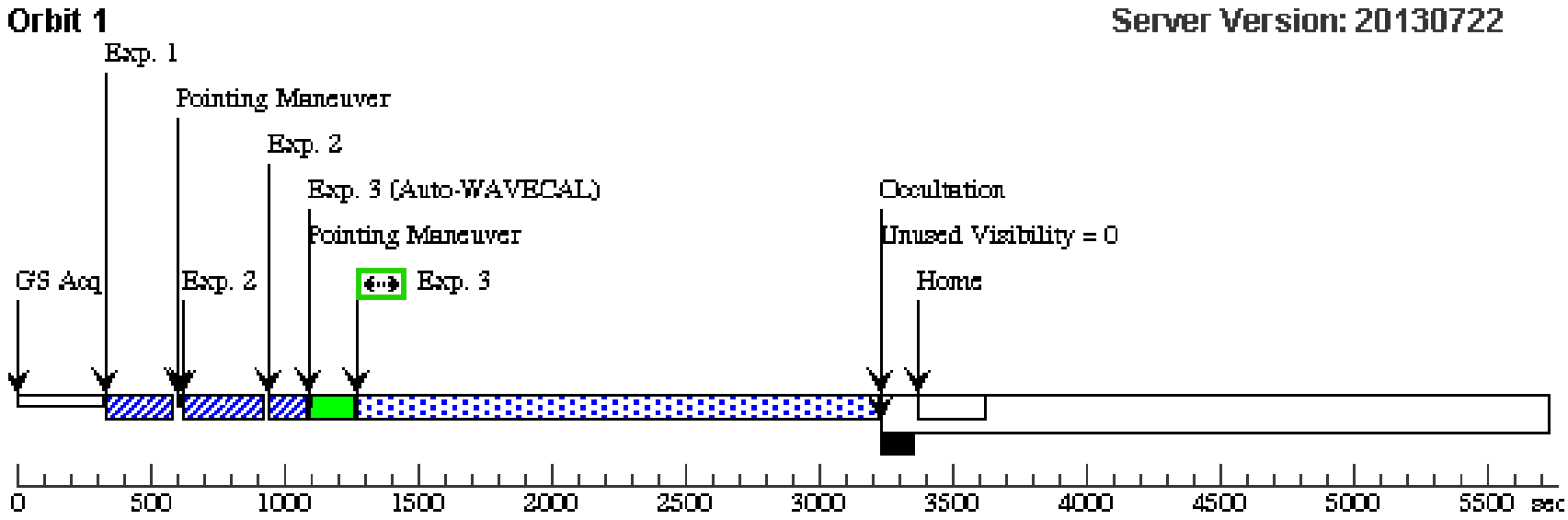
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	HD178487	RA: 19 09 14.8391 (287.3118296d) Dec: -10 13 3.94 (-10.21776d) Equinox: J2000	Proper Motion RA: 4.42 mas/yr Proper Motion Dec: -5.84 mas/yr Epoch of Position: 2000	V=8.69 F_1500=7.5e-12 measured by IUE	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(510102)	(5) HD178487	STIS/CCD, ACQ, F28X50OII	MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs)	
								[==>]	***[1]***
2	(510121)	(5) HD178487	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				0.5 Secs (0.5 Secs)	
								[==>]	***[1]***
3	(512196)	(5) HD178487	STIS/FUV-MAMA, ACCUM, 0.2X0.06	E140M 1425 A				1930 Secs (1930 Secs)	
								[==>]	***[1]***

Orbit Structure



Visit

Proposal 13448, HD179407 (06), implementation Wed Sep 18 02:07:50 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: (none)

Fixed Targets

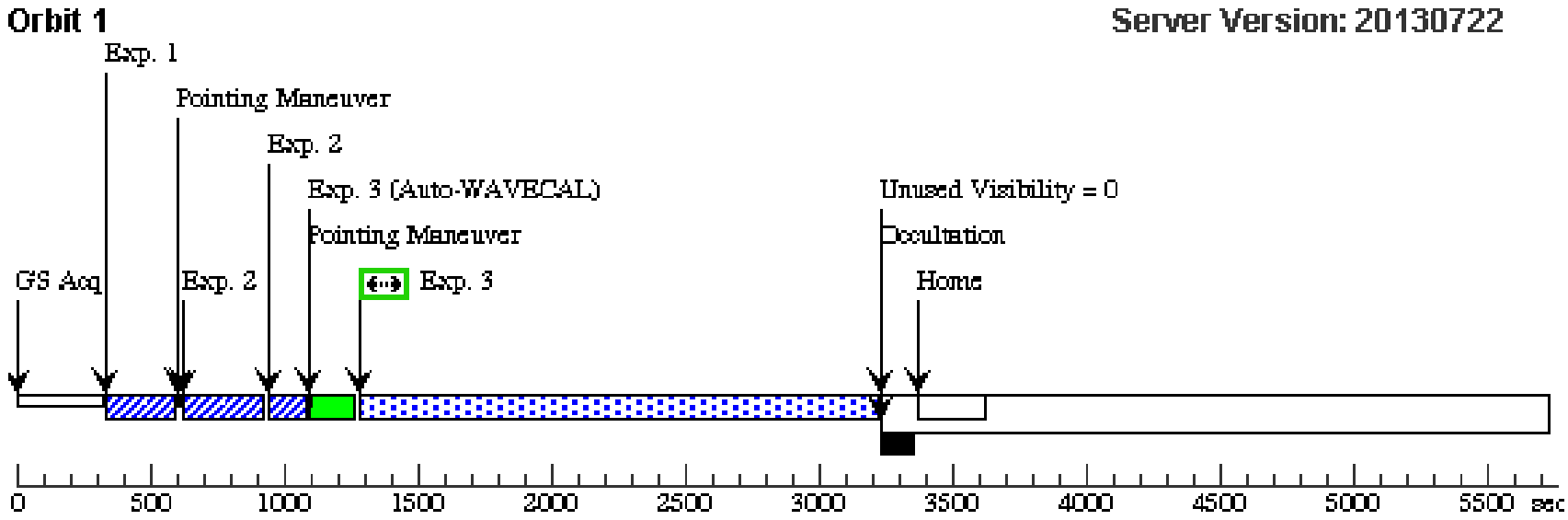
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	HD179407	RA: 19 12 53.0002 (288.2208342d) Dec: -12 34 58.33 (-12.58287d) Equinox: J2000	Proper Motion RA: -3.54 mas/yr Proper Motion Dec: -7.73 mas/yr Epoch of Position: 2000	V=9.44 F_1500=3.5e-12 measured by IUE	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(510116)	(6) HD179407	STIS/CCD, ACQ, F28X50OII	MIRROR	ACQTYPE=POINT			0.5 Secs (0.5 Secs)	
								[==>]	***[1]***
2	(510121)	(6) HD179407	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				0.5 Secs (0.5 Secs)	
								[==>]	***[1]***
3	(512197)	(6) HD179407	STIS/FUV-MAMA, ACCUM, 0.2X0.06	E140M 1425 A				1928 Secs (1928 Secs)	
								[==>]	***[1]***

Orbit Structure



Visit

Proposal 13448, ESO462-G09 (07), implementation Wed Sep 18 02:07:50 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV

Special Requirements: (none)

Fixed Targets

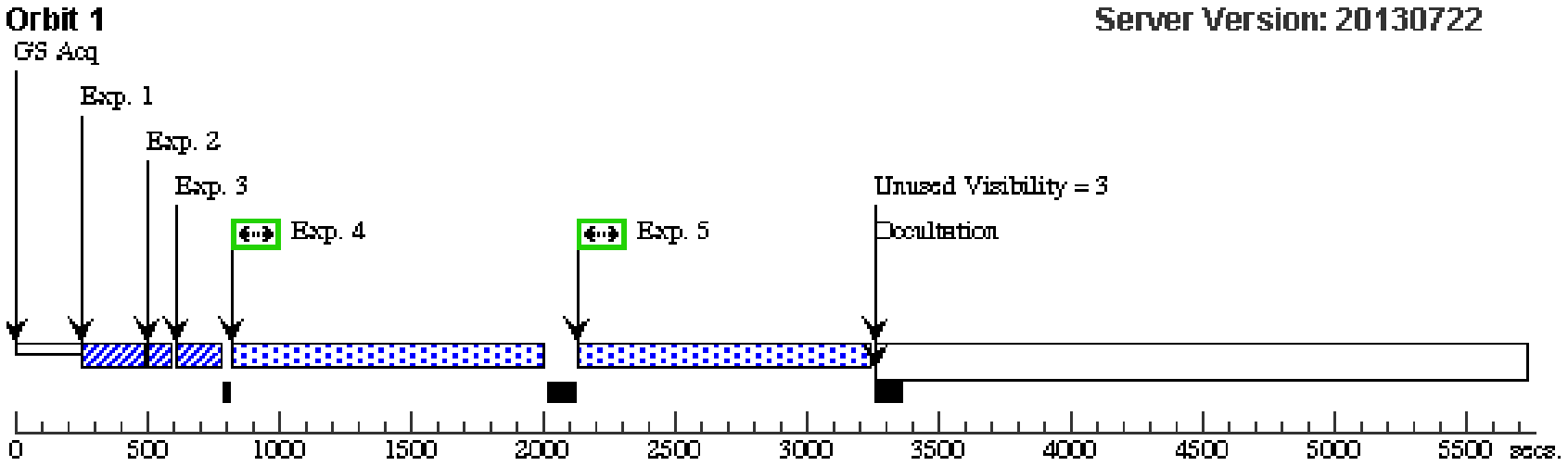
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	ESO462-G09	RA: 20 21 51.5600 (305.4648333d) Dec: -31 17 23.10 (-31.28975d) Equinox: J2000		V=14.70 F_1400=1.0e-14	Reference Frame: ICRS

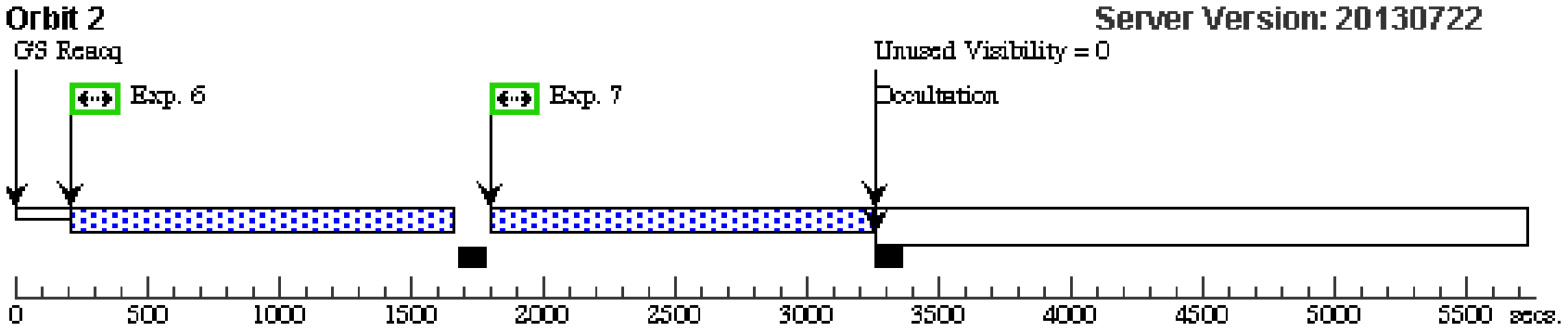
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

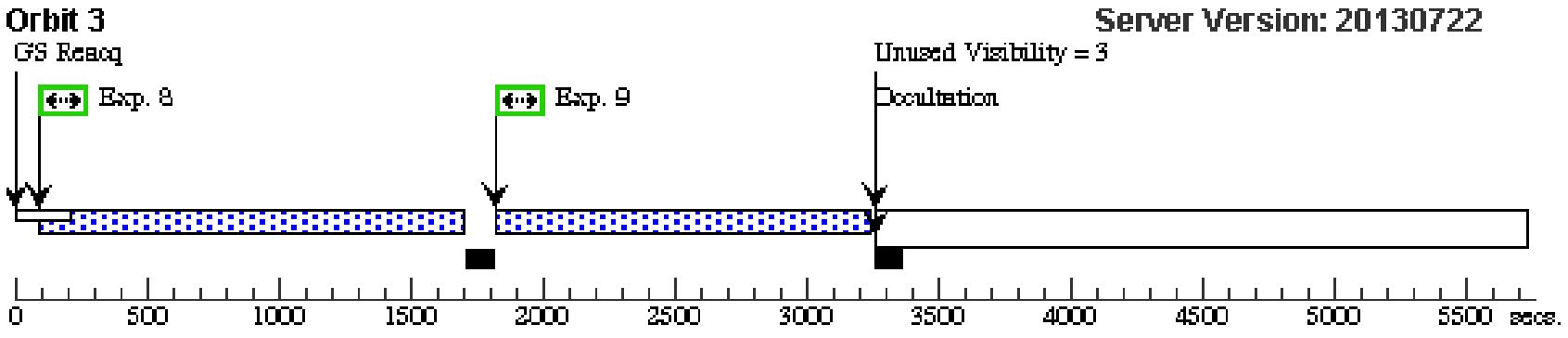
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(510542)	(7) ESO462-G09	COS/FUV, ACQ/SEARCH, PSA	G130M 1291 A	SCAN-SIZE=2; CENTER=FLUX-WT			3 Secs (3 Secs) *[==>]*	 ***[1]***
2	(510542)	(7) ESO462-G09	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				3 Secs (3 Secs) *[==>]*	 ***[1]***
3	(510542)	(7) ESO462-G09	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	NUM-POS=5.0; STEP-SIZE=0.9; CENTER=FLUX-WT-FLR			3 Secs (3 Secs) *[==>]*	 ***[1]***
4	(510471)	(7) ESO462-G09	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=1060			1060 Secs (1060 Secs) *[==>]*	 ***[1]***
5	(510471)	(7) ESO462-G09	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=1060			1060 Secs (1060 Secs) *[==>]*	 ***[1]***
6	(510471)	(7) ESO462-G09	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=1400			1400 Secs (1400 Secs) *[==>]*	 ***[2]***
7	(510471)	(7) ESO462-G09	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=1400			1400 Secs (1400 Secs) *[==>]*	 ***[2]***
8	(510498)	(7) ESO462-G09	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=1; BUFFER-TIME=1425			1425 Secs (1425 Secs) *[==>]*	 ***[3]***
9	(510498)	(7) ESO462-G09	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=2; BUFFER-TIME=1370			1370 Secs (1370 Secs) *[==>]*	 ***[3]***
10	(510473)	(7) ESO462-G09	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=2980			2980 Secs (2980 Secs) *[==>]*	 ***[4]***
11	(510473)	(7) ESO462-G09	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=4; BUFFER-TIME=2980			2980 Secs (2980 Secs) *[==>]*	 ***[5]***

Orbit Structure



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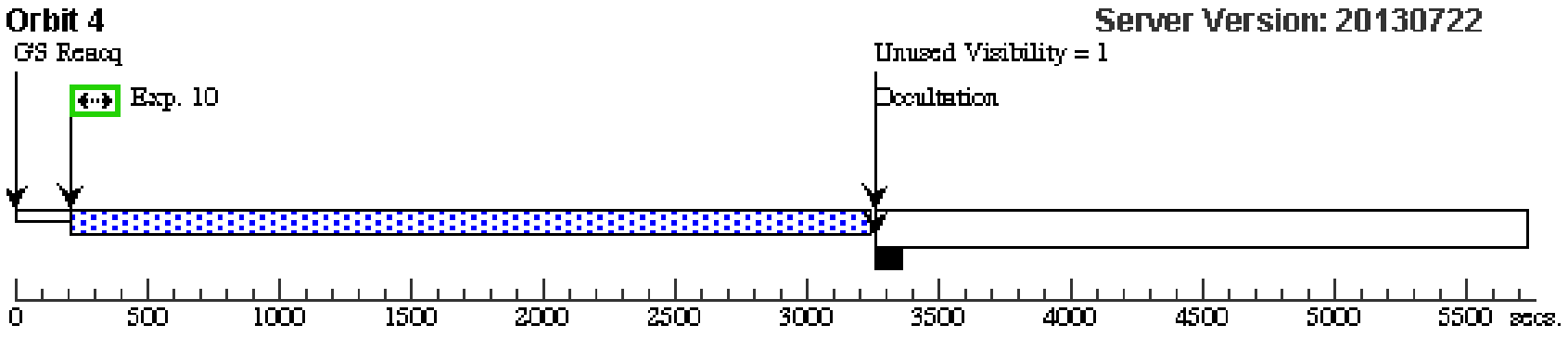
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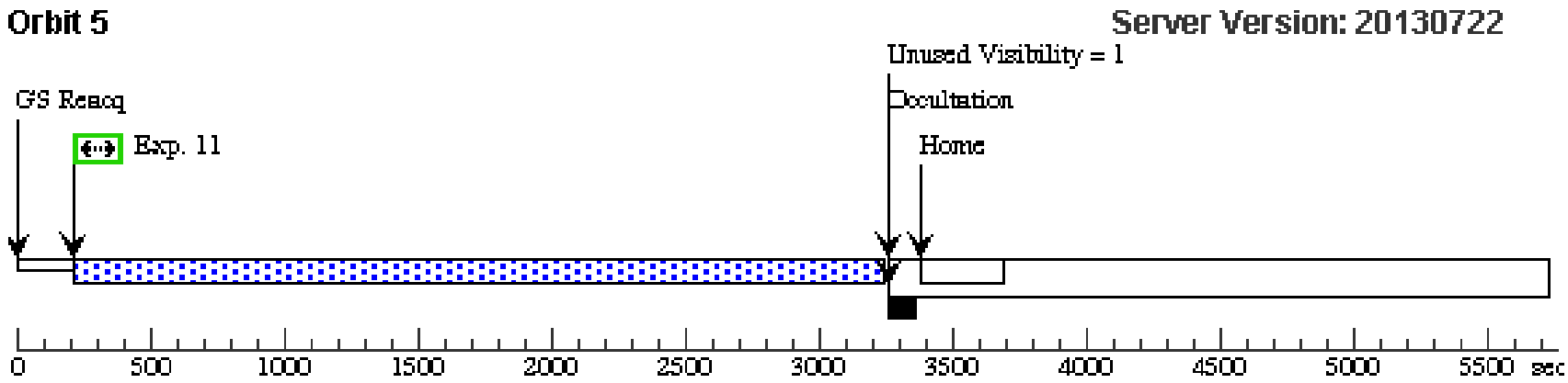
secs.


Orbit 5
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GS Reacq
Exp. 11
Occultation
Home
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1000
1500
2000
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3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 13448, CTS487-G130M (08), implementation Wed Sep 18 02:07:52 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV

Special Requirements: (none)

Fixed Targets

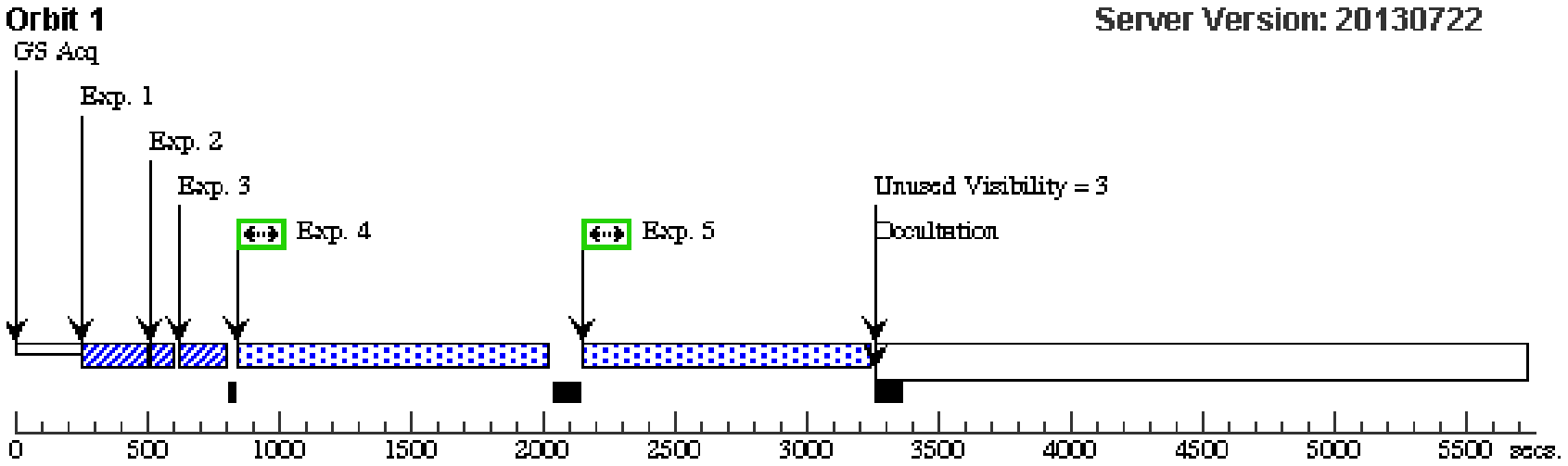
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(8)	CTS487	RA: 23 22 10.9693 (350.5457054d) Dec: -34 47 57.17 (-34.79921d) Equinox: J2000		V=16.5 F_1400=0.7e-14	Reference Frame: ICRS

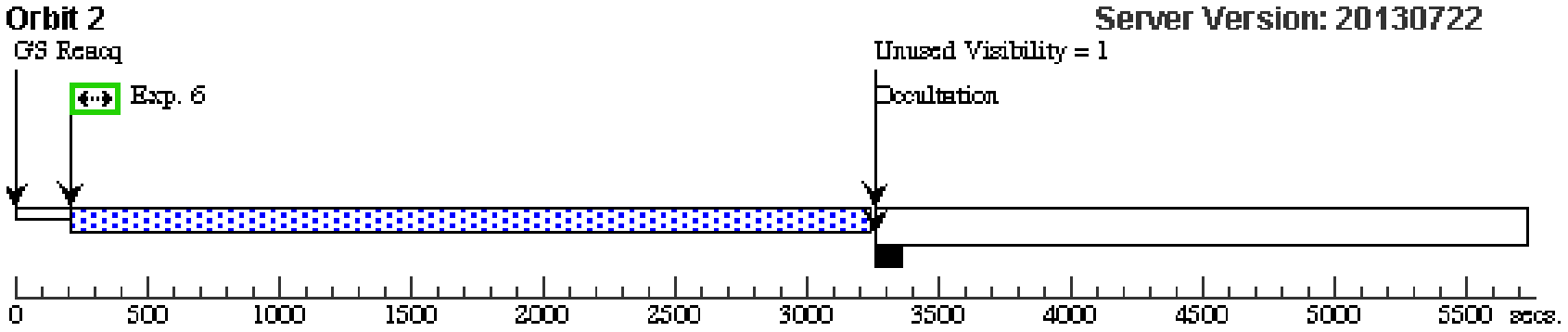
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

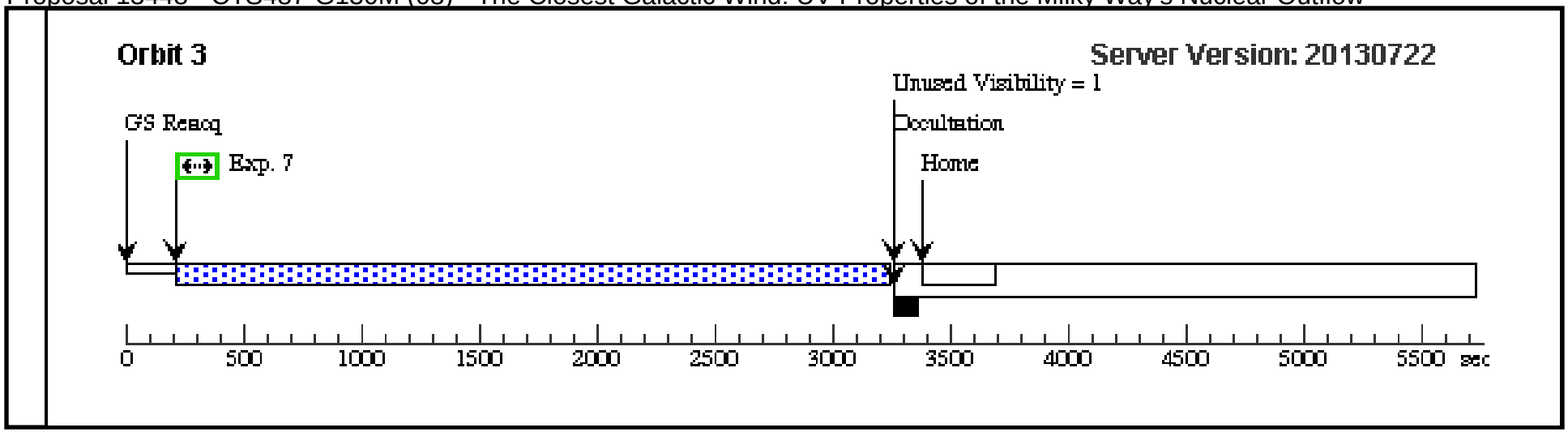
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(510460)	(8) CTS487	COS/FUV, ACQ/SEARCH, PSA	G130M 1291 A	SCAN-SIZE=2; CENTER=FLUX-WT			5 Secs (5 Secs) *[==>]*	***[1]***
2	(510460)	(8) CTS487	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				5 Secs (5 Secs) *[==>]*	***[1]***
3	(510460)	(8) CTS487	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	NUM-POS=5.0; STEP-SIZE=0.9; CENTER=FLUX-WT-FLR			5 Secs (5 Secs) *[==>]*	***[1]***
4	(510501)	(8) CTS487	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=1060			1060 Secs (1060 Secs) *[==>]*	***[1]***
5	(510501)	(8) CTS487	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=1040			1040 Secs (1040 Secs) *[==>]*	***[1]***
6	(510492)	(8) CTS487	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=2980			2980 Secs (2980 Secs) *[==>]*	***[2]***
7	(510492)	(8) CTS487	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=2980			2980 Secs (2980 Secs) *[==>]*	***[3]***

Orbit Structure






Orbit 3
Server Version: 20130722
Unused Visibility = 1
GS Reacq
Occultation
Exp. 7
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 13448, CTS487-G160M (09), implementation Wed Sep 18 02:07:53 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV

Special Requirements: (none)

Fixed Targets

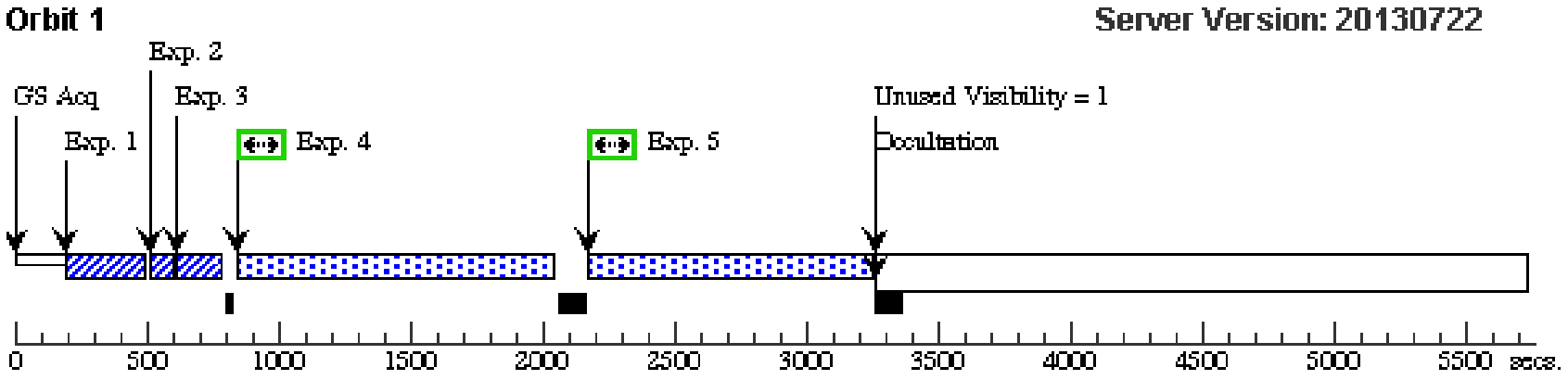
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(8)	CTS487	RA: 23 22 10.9693 (350.5457054d) Dec: -34 47 57.17 (-34.79921d) Equinox: J2000		V=16.5 F_1400=0.7e-14	Reference Frame: ICRS

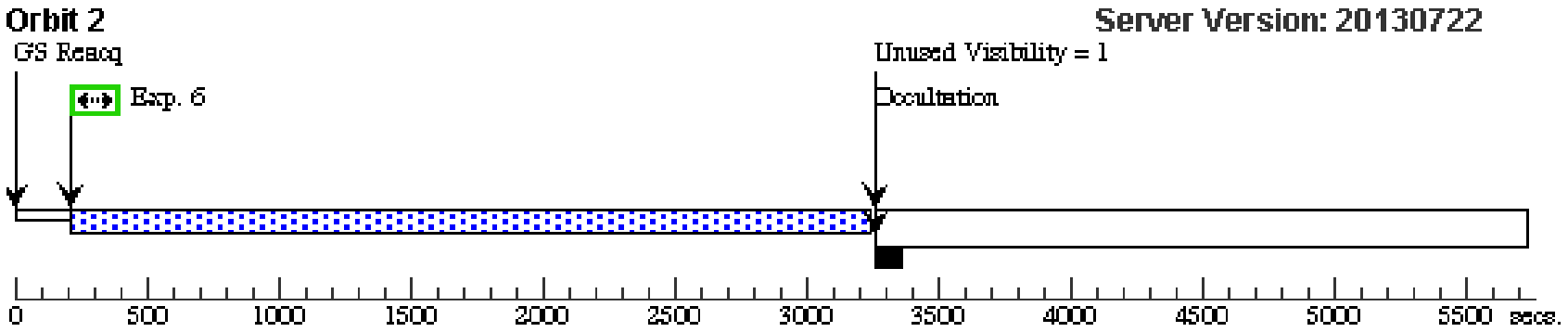
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

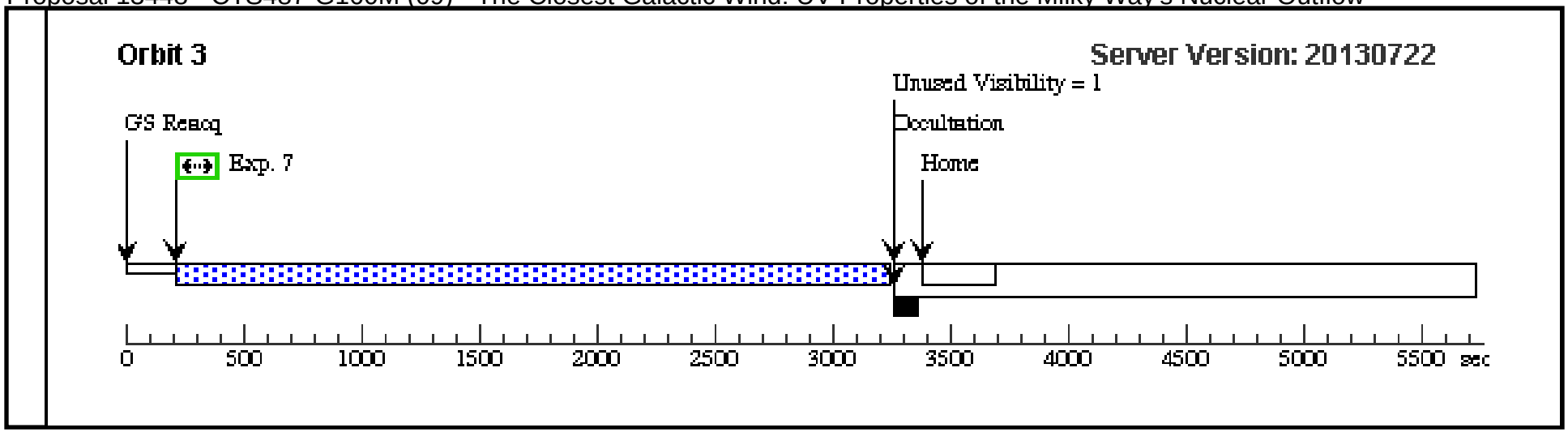
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(510460)	(8) CTS487	COS/FUV, ACQ/SEARCH, PSA	G160M 1600 A	SCAN-SIZE=2; CENTER=FLUX-WT			5 Secs (5 Secs) *[==>]*	***[1]***
2	(510460)	(8) CTS487	COS/FUV, ACQ/PEAKXD, PSA	G160M 1600 A				5 Secs (5 Secs) *[==>]*	***[1]***
3	(510460)	(8) CTS487	COS/FUV, ACQ/PEAKD, PSA	G160M 1600 A	NUM-POS=5.0; STEP-SIZE=0.9; CENTER=FLUX-WT-FLR			5 Secs (5 Secs) *[==>]*	***[1]***
4	(510500)	(8) CTS487	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=1; BUFFER-TIME=1085			1085 Secs (1085 Secs) *[==>]*	***[1]***
5	(510500)	(8) CTS487	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=2; BUFFER-TIME=1025			1025 Secs (1025 Secs) *[==>]*	***[1]***
6	(510491)	(8) CTS487	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=2980			2980 Secs (2980 Secs) *[==>]*	***[2]***
7	(510491)	(8) CTS487	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=4; BUFFER-TIME=2980			2980 Secs (2980 Secs) *[==>]*	***[3]***

Orbit Structure






Orbit 3
Server Version: 20130722
Unused Visibility = 1
GS Reacq
Occultation
Exp. 7
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 13448, RBS2000 (10), implementation Wed Sep 18 02:07:54 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV

Special Requirements: (none)

Fixed Targets

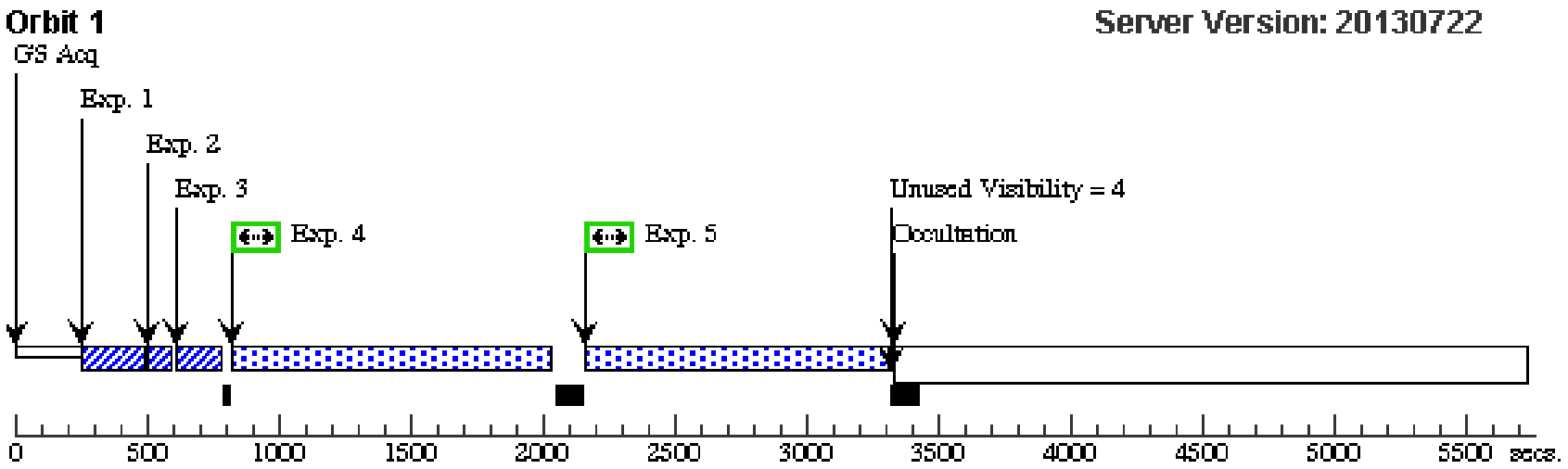
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(9)	RBS2000	RA: 23 24 44.6700 (351.1861250d) Dec: -40 40 49.30 (-40.68036d) Equinox: J2000		V=15.5 F_1500=1.8e-14	Reference Frame: ICRS

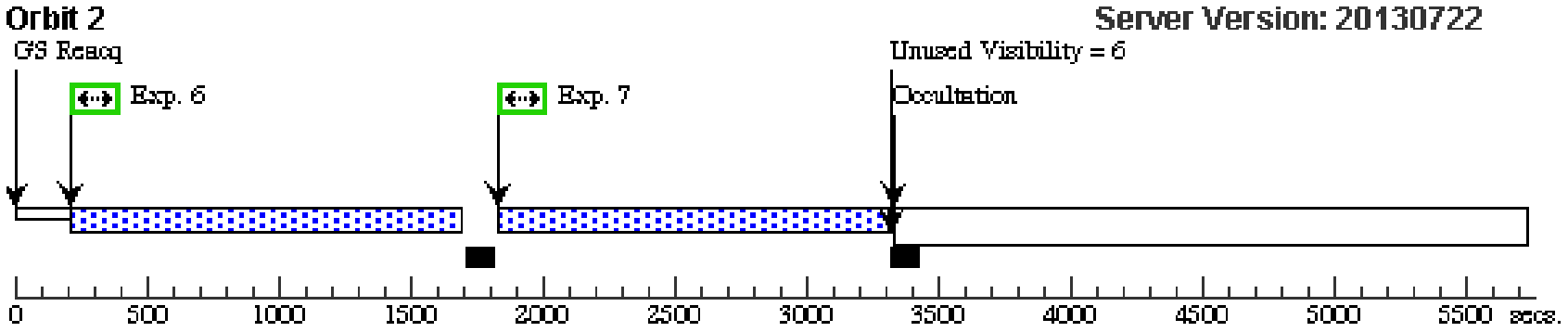
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

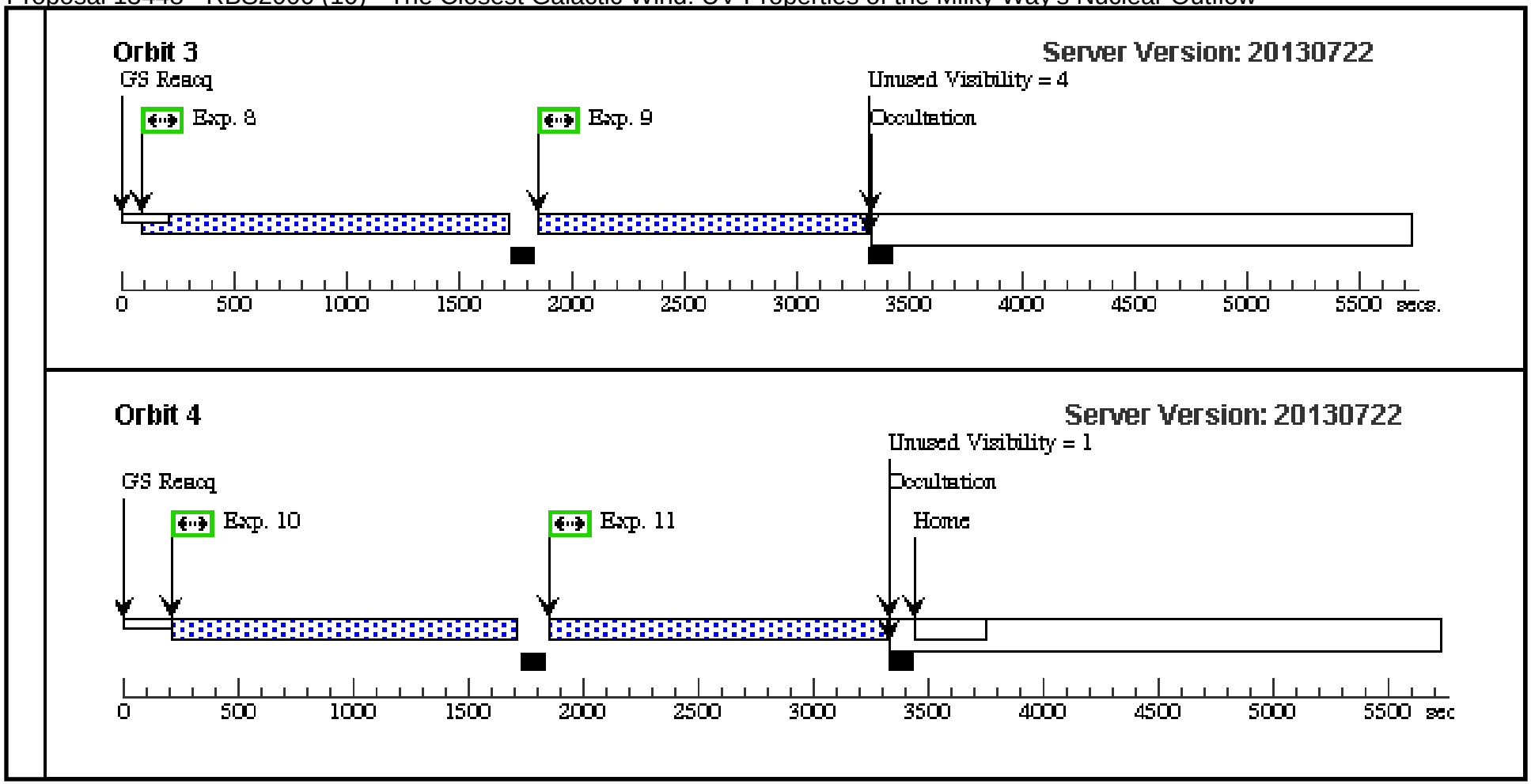
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(510459)	(9) RBS2000	COS/FUV, ACQ/SEARCH, PSA	G130M 1291 A	SCAN-SIZE=2; CENTER=FLUX-WT			3 Secs (3 Secs) *[==>]*	***[1]***
2	(510459)	(9) RBS2000	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				3 Secs (3 Secs) *[==>]*	***[1]***
3	(510459)	(9) RBS2000	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	NUM-POS=5.0; STEP-SIZE=0.9; CENTER=FLUX-WT-FLR			3 Secs (3 Secs) *[==>]*	***[1]***
4	(510489)	(9) RBS2000	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=1090			1090 Secs (1090 Secs) *[==>]*	***[1]***
5	(510489)	(9) RBS2000	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=1095			1095 Secs (1095 Secs) *[==>]*	***[1]***
6	(510489)	(9) RBS2000	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=1430			1430 Secs (1430 Secs) *[==>]*	***[2]***
7	(510489)	(9) RBS2000	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=1430			1430 Secs (1430 Secs) *[==>]*	***[2]***
8	(510490)	(9) RBS2000	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=1; BUFFER-TIME=1450			1450 Secs (1450 Secs) *[==>]*	***[3]***
9	(510490)	(9) RBS2000	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=2; BUFFER-TIME=1410			1410 Secs (1410 Secs) *[==>]*	***[3]***
10	(510490)	(9) RBS2000	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=1450			1450 Secs (1450 Secs) *[==>]*	***[4]***
11	(510490)	(9) RBS2000	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=4; BUFFER-TIME=1415			1415 Secs (1415 Secs) *[==>]*	***[4]***

Orbit Structure






Orbit 3
Server Version: 20130722
GS Reacq
Exp. 8
Exp. 9
Unused Visibility = 4
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.
Orbit 4
Server Version: 20130722
Unused Visibility = 1
GS Reacq
Occultation
Exp. 10
Exp. 11
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 13448, RBS1666 (11), implementation Wed Sep 18 02:07:56 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV

Special Requirements: (none)

Fixed Targets

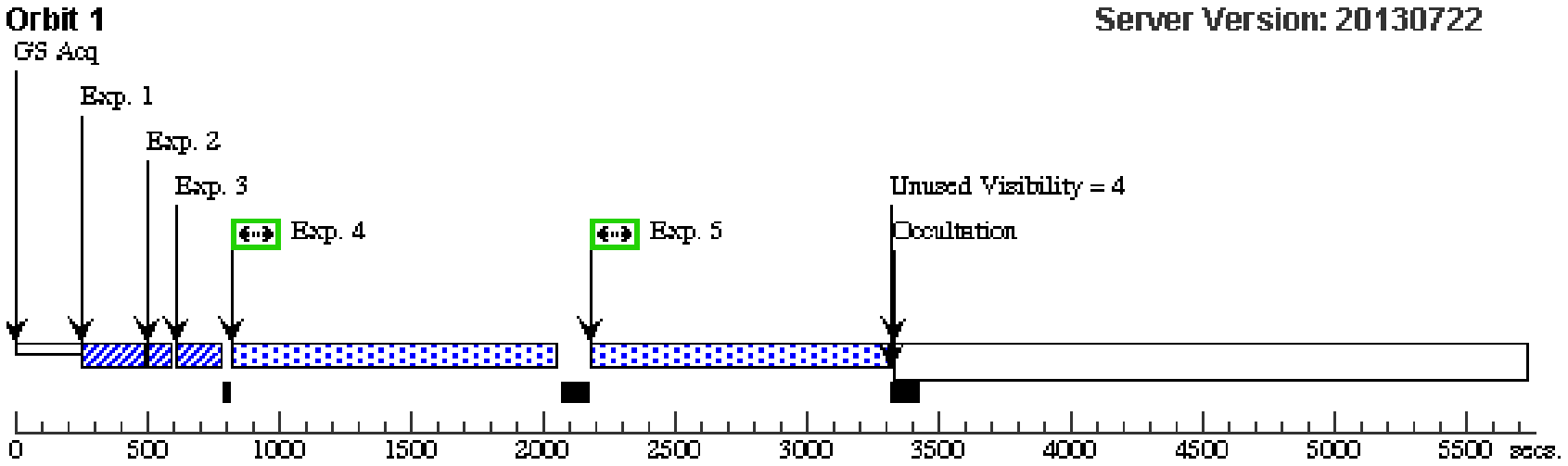
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(10)	RBS1666	RA: 20 05 53.0000 (301.4708333d) Dec: -41 34 42.10 (-41.57836d) Equinox: J2000		V=17.00 F_1400=0.9e-14	Reference Frame: ICRS

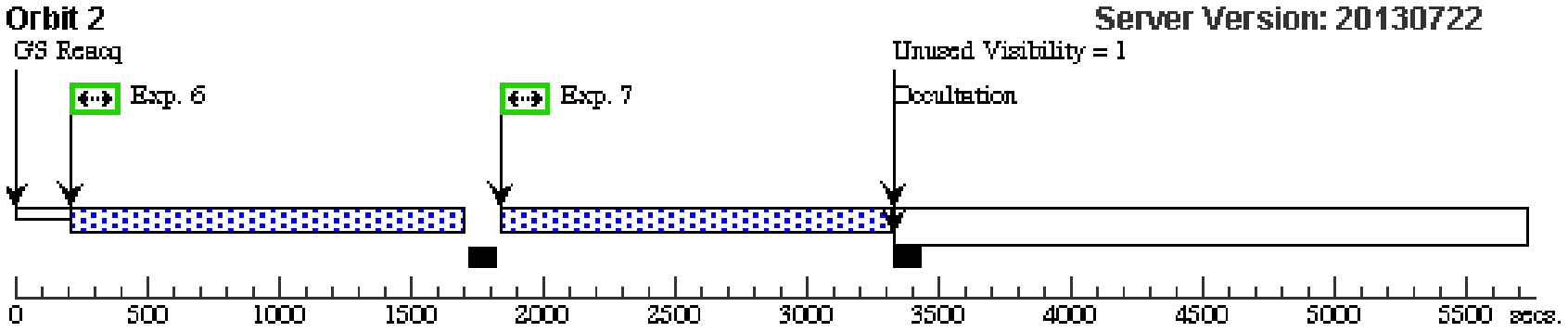
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

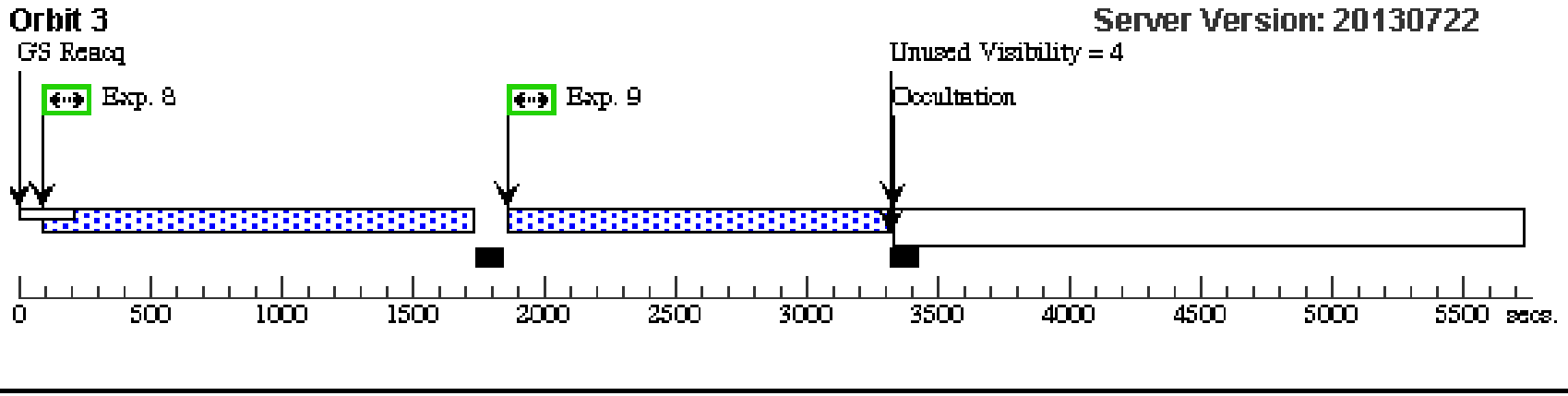
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(510458)	(10) RBS1666	COS/FUV, ACQ/SEARCH, PSA	G130M 1291 A	SCAN-SIZE=2; CENTER=FLUX-WT			3 Secs (3 Secs) *[==>]*	***[1]***
2	(510458)	(10) RBS1666	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				3 Secs (3 Secs) *[==>]*	***[1]***
3	(510458)	(10) RBS1666	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	NUM-POS=5.0; STEP-SIZE=0.9; CENTER=FLUX-WT-FLR			3 Secs (3 Secs) *[==>]*	***[1]***
4	(510487)	(10) RBS1666	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=1110			1110 Secs (1110 Secs) *[==>]*	***[1]***
5	(510487)	(10) RBS1666	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=1075			1075 Secs (1075 Secs) *[==>]*	***[1]***
6	(510487)	(10) RBS1666	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=1440			1440 Secs (1440 Secs) *[==>]*	***[2]***
7	(510487)	(10) RBS1666	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=1425			1425 Secs (1425 Secs) *[==>]*	***[2]***
8	(510499)	(10) RBS1666	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=1; BUFFER-TIME=1460			1460 Secs (1460 Secs) *[==>]*	***[3]***
9	(510499)	(10) RBS1666	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=2; BUFFER-TIME=1400			1400 Secs (1400 Secs) *[==>]*	***[3]***
10	(510486)	(10) RBS1666	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=3040			3040 Secs (3040 Secs) *[==>]*	***[4]***
11	(510486)	(10) RBS1666	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=4; BUFFER-TIME=3040			3040 Secs (3040 Secs) *[==>]*	***[5]***

Orbit Structure






Orbit 3
Server Version: 20130722
GS Reacq
Exp. 8
Exp. 9
Unused Visibility = 4
Occultation
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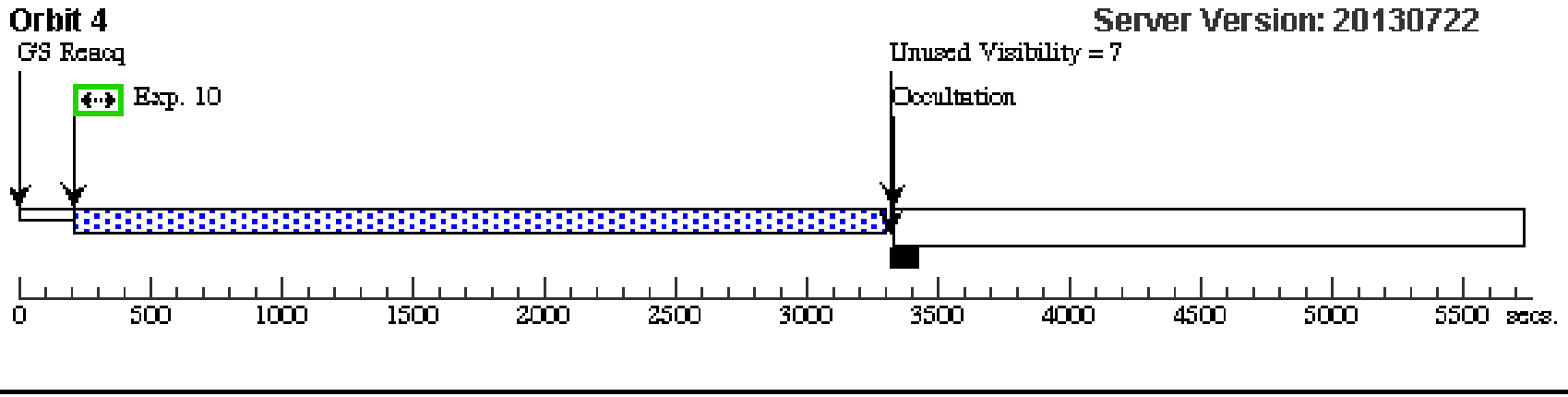
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 4
Server Version: 20130722
GS Reacq
Exp. 10
Unused Visibility = 7
Occultation
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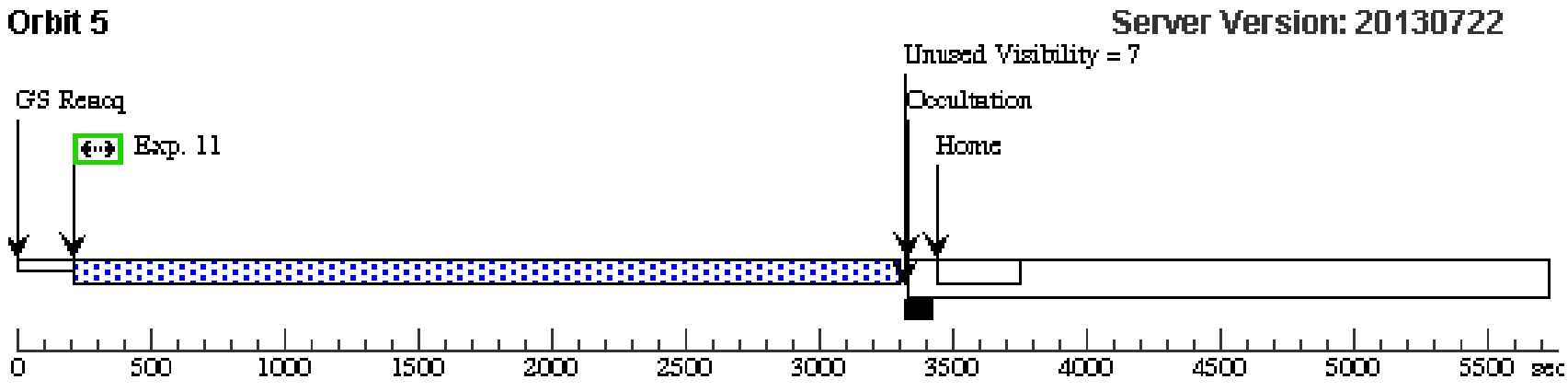
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 5
Server Version: 20130722
Unused Visibility = 7
GS Reacq
Occultation
Exp. 11
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 13448, MRK1392 (12), implementation Wed Sep 18 02:07:57 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV

Special Requirements: (none)

Fixed Targets

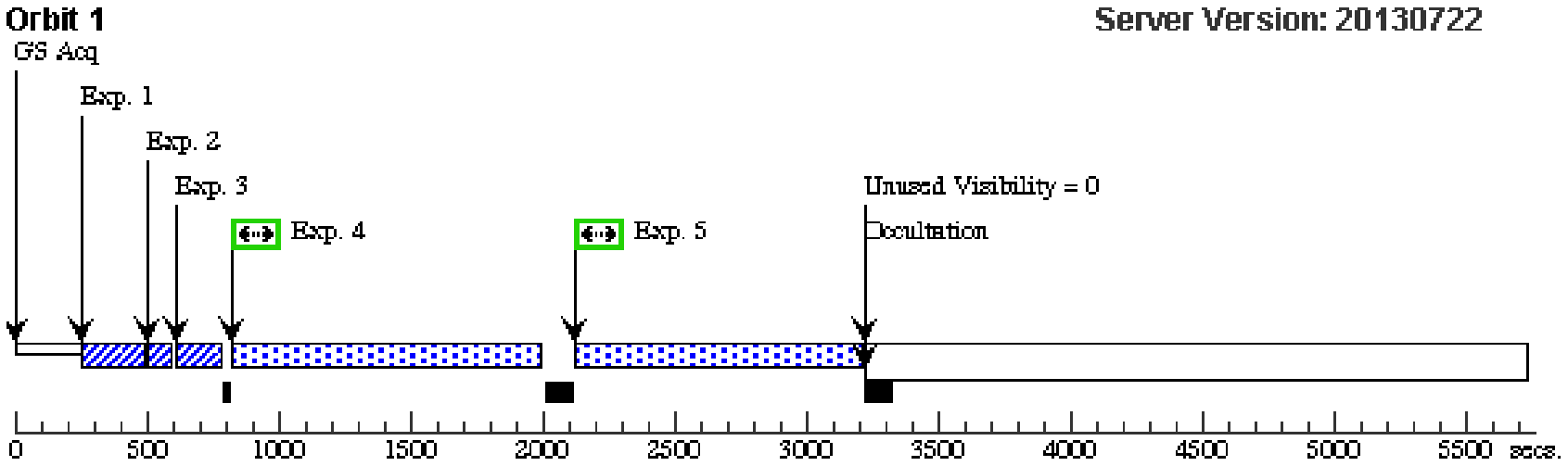
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(11)	MRK1392	RA: 15 05 56.5529 (226.4856371d) Dec: +03 42 26.21 (3.70728d) Equinox: J2000		V=15.50 F_1400=1.3e-14	Reference Frame: ICRS

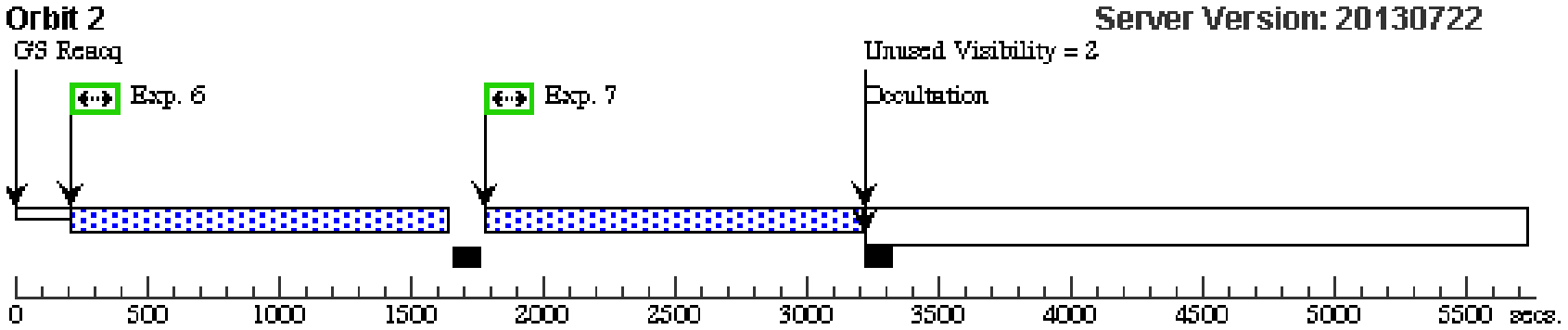
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

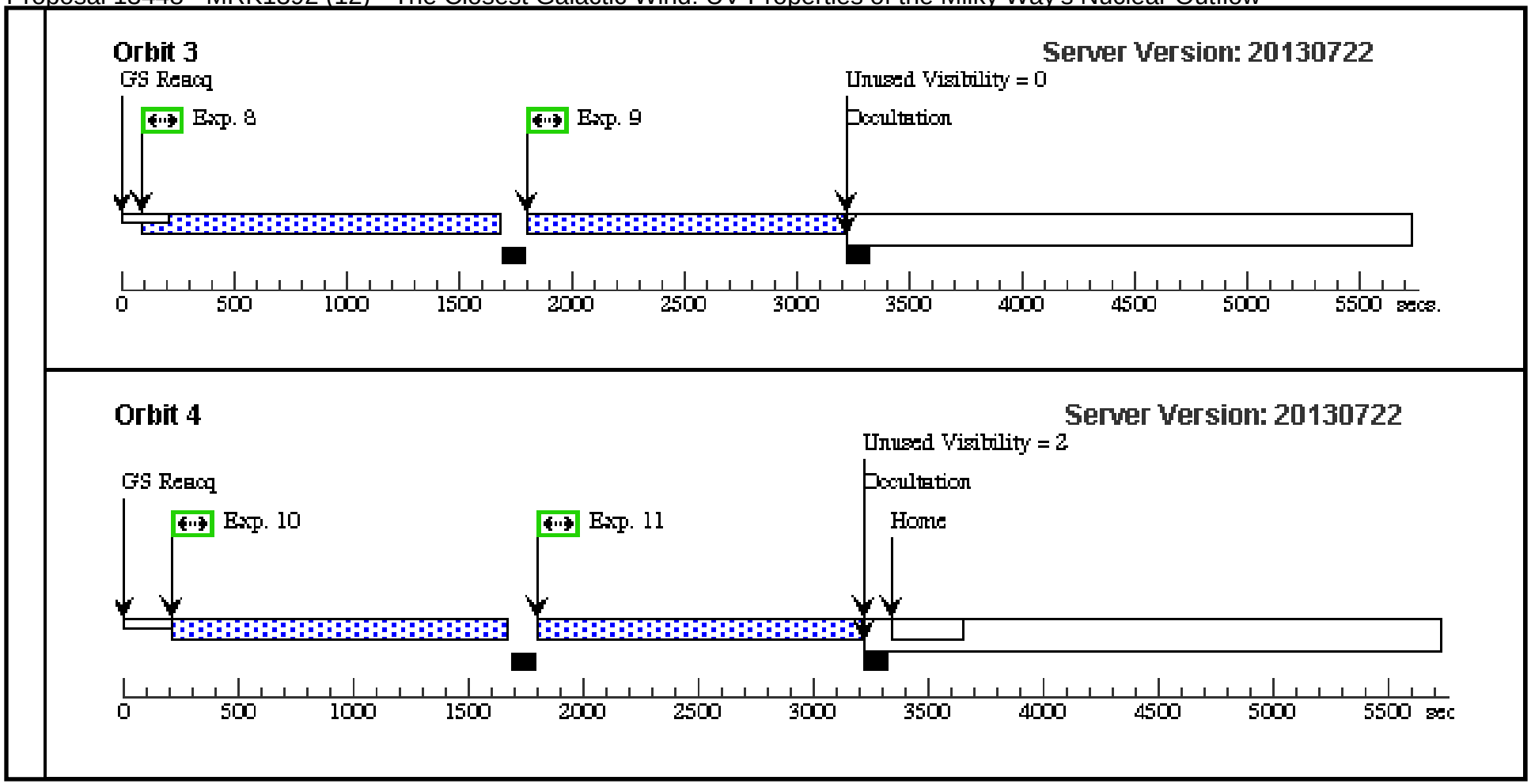
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(510465)	(11) MRK1392	COS/FUV, ACQ/SEARCH, PSA	G130M 1291 A	SCAN-SIZE=2; CENTER=FLUX-WT			3 Secs (3 Secs) *[==>]*	***[1]***
2	(510465)	(11) MRK1392	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				3 Secs (3 Secs) *[==>]*	***[1]***
3	(510465)	(11) MRK1392	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	NUM-POS=5.0; STEP-SIZE=0.9; CENTER=FLUX-WT-FLR			3 Secs (3 Secs) *[==>]*	***[1]***
4	(510512)	(11) MRK1392	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=1050			1050 Secs (1050 Secs) *[==>]*	***[1]***
5	(510512)	(11) MRK1392	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=1035			1035 Secs (1035 Secs) *[==>]*	***[1]***
6	(510512)	(11) MRK1392	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=1380			1380 Secs (1380 Secs) *[==>]*	***[2]***
7	(510512)	(11) MRK1392	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=1380			1380 Secs (1380 Secs) *[==>]*	***[2]***
8	(510513)	(11) MRK1392	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=1; BUFFER-TIME=1405			1405 Secs (1405 Secs) *[==>]*	***[3]***
9	(510513)	(11) MRK1392	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=2; BUFFER-TIME=1355			1355 Secs (1355 Secs) *[==>]*	***[3]***
10	(510513)	(11) MRK1392	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=1405			1405 Secs (1405 Secs) *[==>]*	***[4]***
11	(510513)	(11) MRK1392	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=4; BUFFER-TIME=1355			1355 Secs (1355 Secs) *[==>]*	***[4]***

Orbit Structure






Orbit 3
Server Version: 20130722
GS Reacq
Exp. 8
Exp. 9
Unused Visibility = 0
Occultation
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1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.
Orbit 4
Server Version: 20130722
Unused Visibility = 2
GS Reacq
Occultation
Exp. 10
Exp. 11
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 13448, PG1352+183 (13), implementation Wed Sep 18 02:07:59 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV

Special Requirements: (none)

Fixed Targets

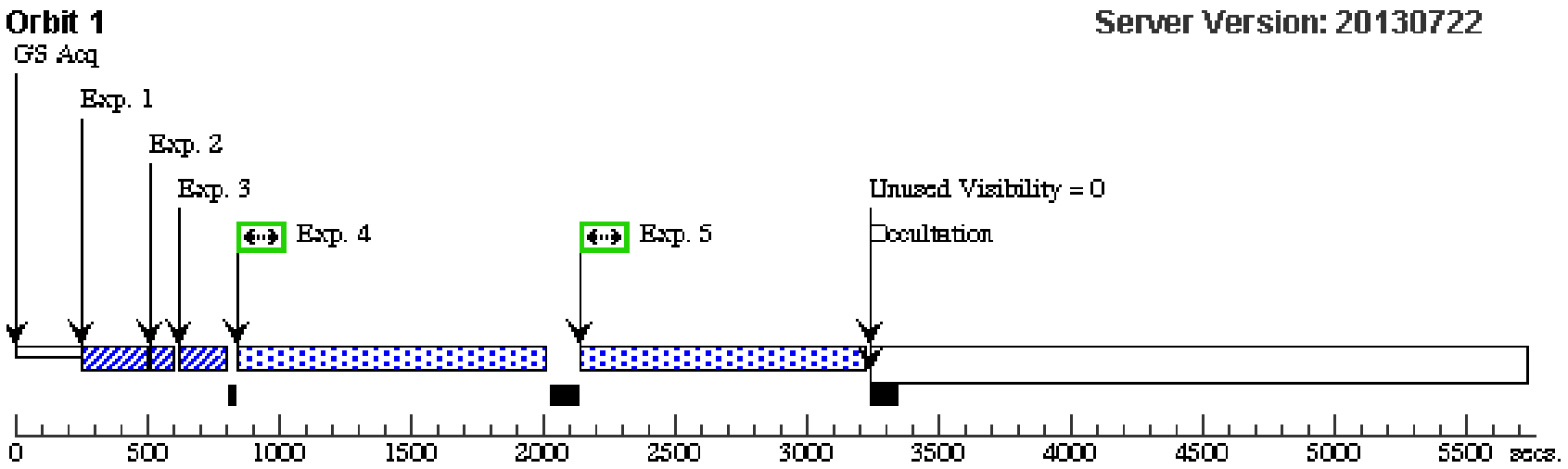
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(12)	PG1352+183	RA: 13 54 35.6890 (208.6487042d) Dec: +18 05 17.48 (18.08819d) Equinox: J2000		V=16.68 F_1400=0.8e-14	Reference Frame: ICRS

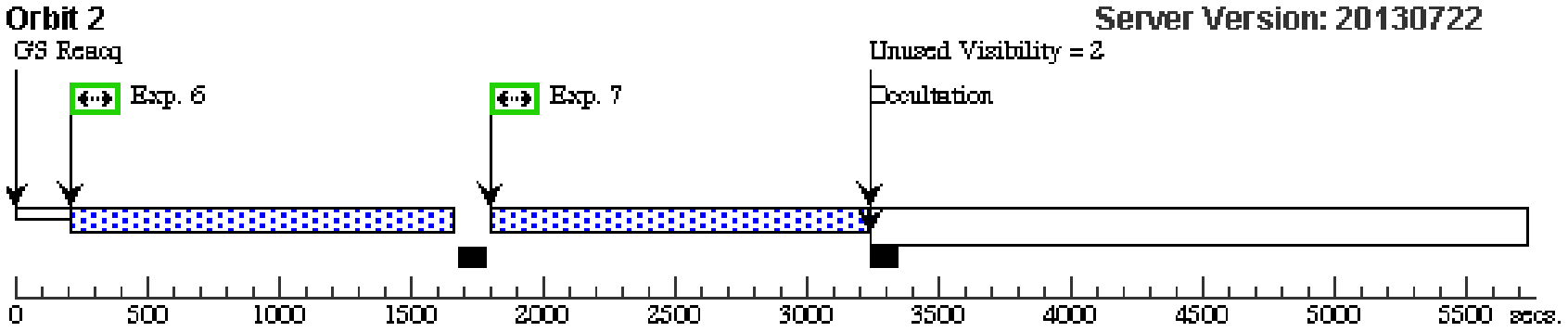
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

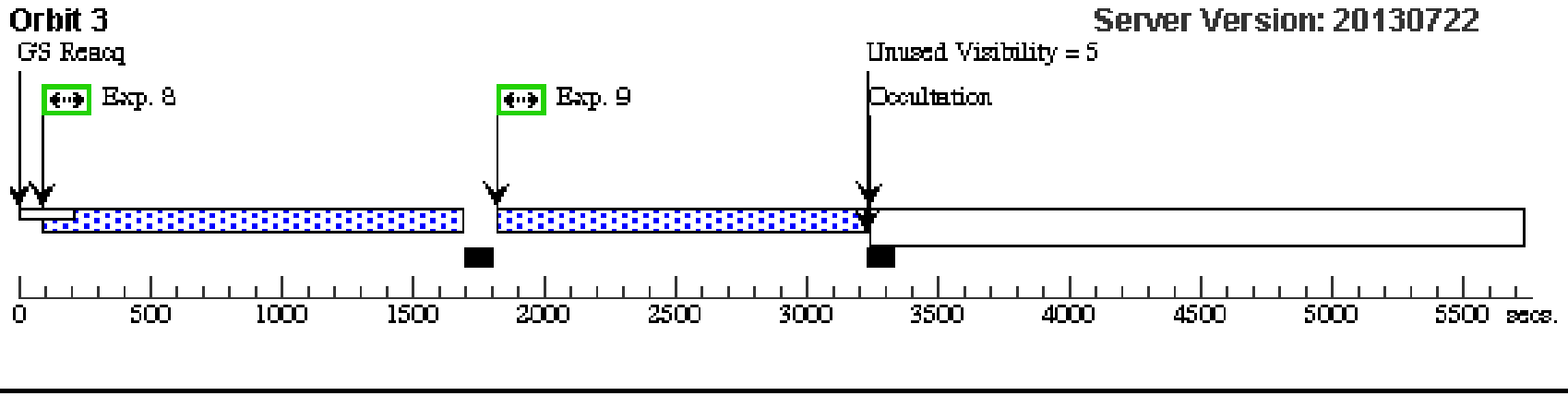
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(510462)	(12) PG1352+183	COS/FUV, ACQ/SEARCH, PSA	G130M 1291 A	SCAN-SIZE=2; CENTER=FLUX-WT			5 Secs (5 Secs) *[==>]*	*[1]*
2	(510462)	(12) PG1352+183	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				5 Secs (5 Secs) *[==>]*	*[1]*
3	(510462)	(12) PG1352+183	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	NUM-POS=5.0; STEP-SIZE=0.9; CENTER=FLUX-WT-FLR			5 Secs (5 Secs) *[==>]*	*[1]*
4	(510494)	(12) PG1352+183	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=1050			1050 Secs (1050 Secs) *[==>]*	*[1]*
5	(510494)	(12) PG1352+183	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=1030			1030 Secs (1030 Secs) *[==>]*	*[1]*
6	(510494)	(12) PG1352+183	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=1400			1400 Secs (1400 Secs) *[==>]*	*[2]*
7	(510494)	(12) PG1352+183	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=1375			1375 Secs (1375 Secs) *[==>]*	*[2]*
8	(510496)	(12) PG1352+183	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=1; BUFFER-TIME=1420			1420 Secs (1420 Secs) *[==>]*	*[3]*
9	(510496)	(12) PG1352+183	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=2; BUFFER-TIME=1350			1350 Secs (1350 Secs) *[==>]*	*[3]*
10	(510495)	(12) PG1352+183	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=2950			2950 Secs (2950 Secs) *[==>]*	*[4]*
11	(510495)	(12) PG1352+183	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=4; BUFFER-TIME=2950			2950 Secs (2950 Secs) *[==>]*	*[5]*

Orbit Structure






Orbit 3
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GS Reacq
Exp. 8
Exp. 9
Unused Visibility = 5
Occultation
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500
1000
1500
2000
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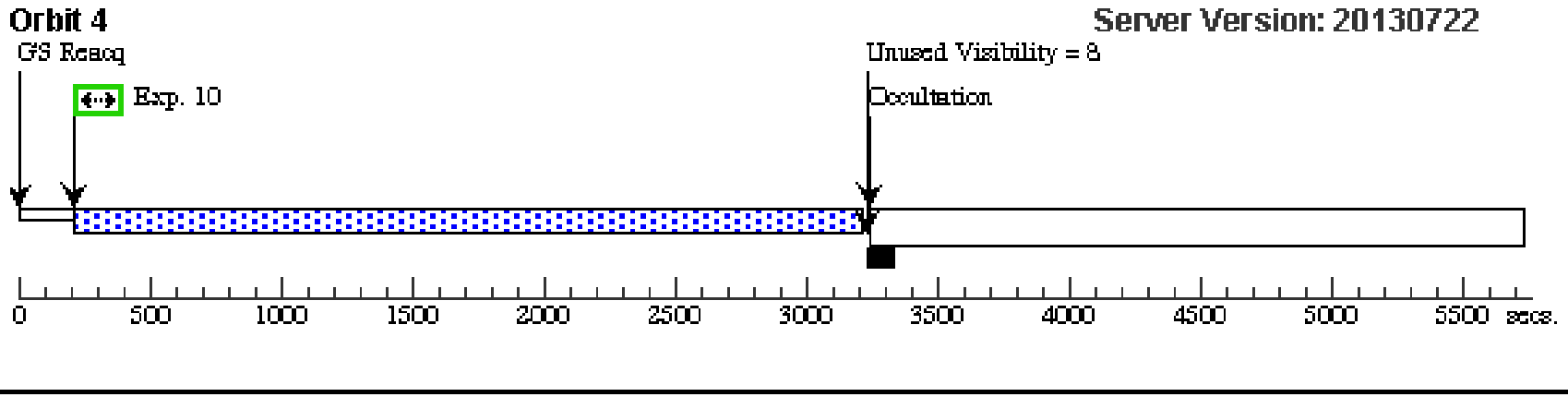
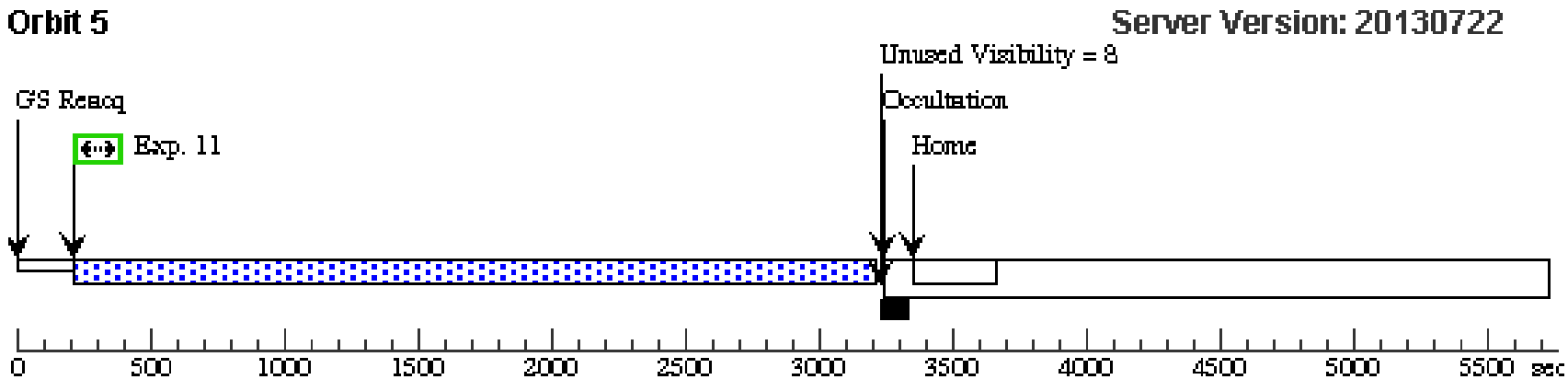
3500
4000
4500
5000
5500
secs.


Orbit 4
Server Version: 20130722
GS Reacq
Exp. 10
Unused Visibility = 8
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 5
Server Version: 20130722
Unused Visibility = 8
GS Reacq
Occultation
Exp. 11
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 13448, 1H1613-097 (14), implementation Wed Sep 18 02:08:00 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV

Special Requirements: (none)

Fixed Targets

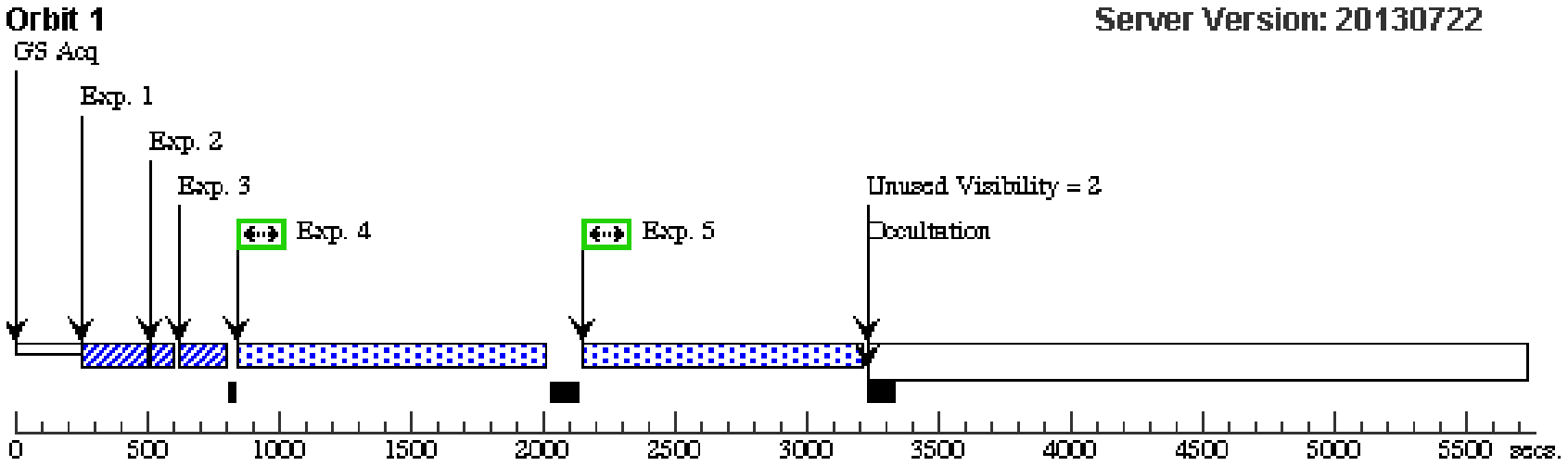
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(13)	1H1613-097	RA: 16 15 19.0800 (243.8295000d) Dec: -09 36 13.30 (-9.60369d) Equinox: J2000		V=14.80 F_1400=0.8e-14	Reference Frame: ICRS

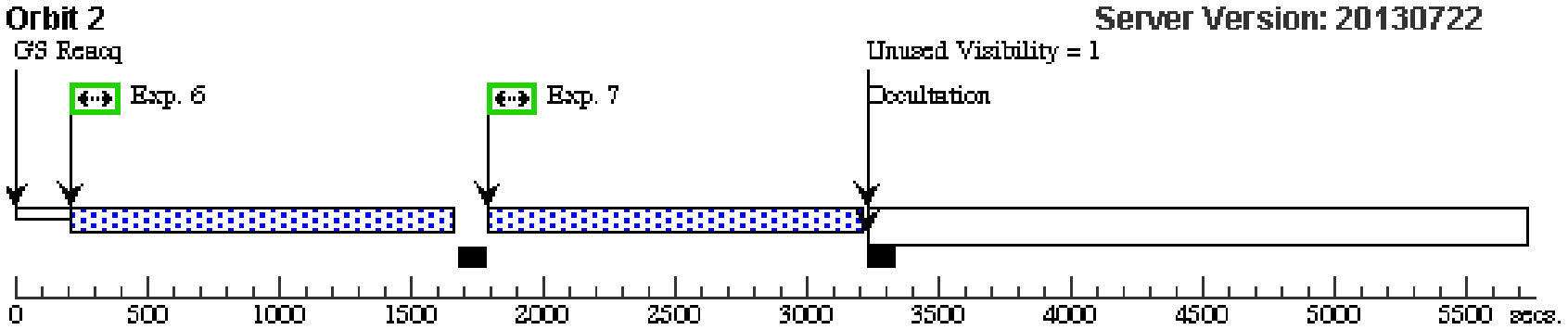
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

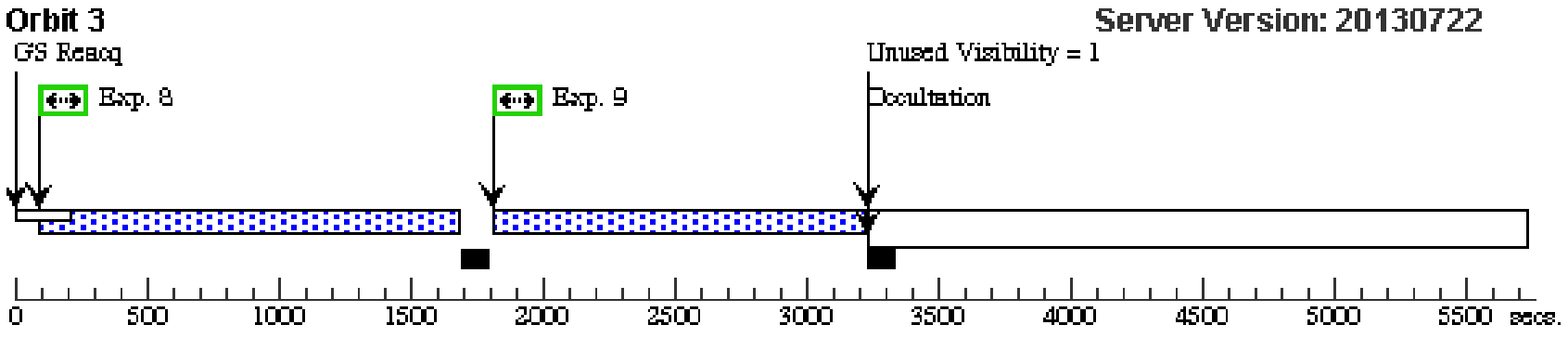
Exposures

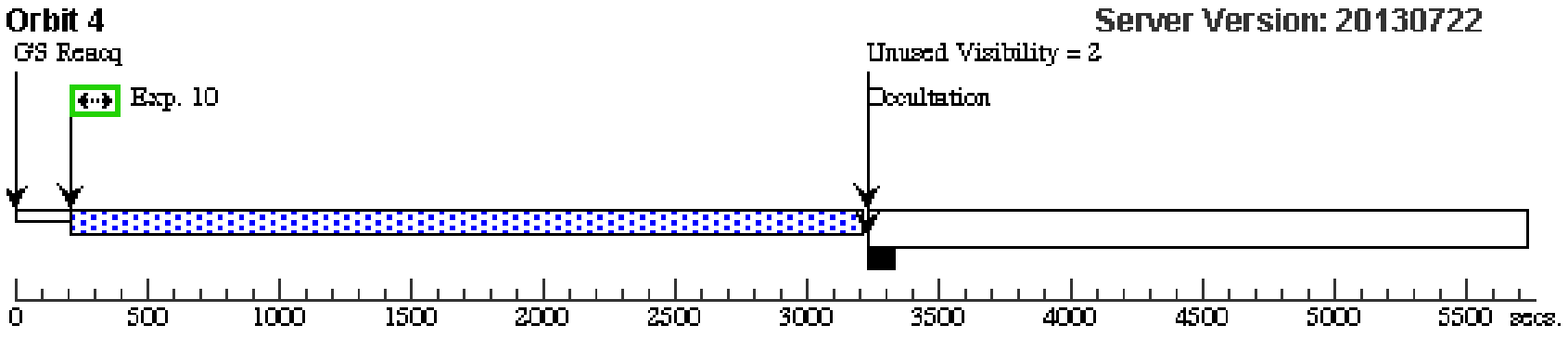
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(510463)	(13) 1H1613-097	COS/FUV, ACQ/SEARCH, PSA	G130M 1291 A	SCAN-SIZE=2; CENTER=FLUX-WT			5 Secs (5 Secs) *[==>]*	***[1]***
2	(510463)	(13) 1H1613-097	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				5 Secs (5 Secs) *[==>]*	***[1]***
3	(510463)	(13) 1H1613-097	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	NUM-POS=5.0; STEP-SIZE=0.9; CENTER=FLUX-WT-FLR			5 Secs (5 Secs) *[==>]*	***[1]***
4	(510516)	(13) 1H1613-097	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=1055			1055 Secs (1055 Secs) *[==>]*	***[1]***
5	(510516)	(13) 1H1613-097	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=1012			1012 Secs (1012 Secs) *[==>]*	***[1]***
6	(510516)	(13) 1H1613-097	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=1395			1395 Secs (1395 Secs) *[==>]*	***[2]***
7	(510516)	(13) 1H1613-097	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=1370			1370 Secs (1370 Secs) *[==>]*	***[2]***
8	(510514)	(13) 1H1613-097	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=1; BUFFER-TIME=1410			1410 Secs (1410 Secs) *[==>]*	***[3]***
9	(510514)	(13) 1H1613-097	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=2; BUFFER-TIME=1353			1353 Secs (1353 Secs) *[==>]*	***[3]***
10	(510515)	(13) 1H1613-097	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=2945			2945 Secs (2945 Secs) *[==>]*	***[4]***
11	(510515)	(13) 1H1613-097	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=4; BUFFER-TIME=2945			2945 Secs (2945 Secs) *[==>]*	***[5]***

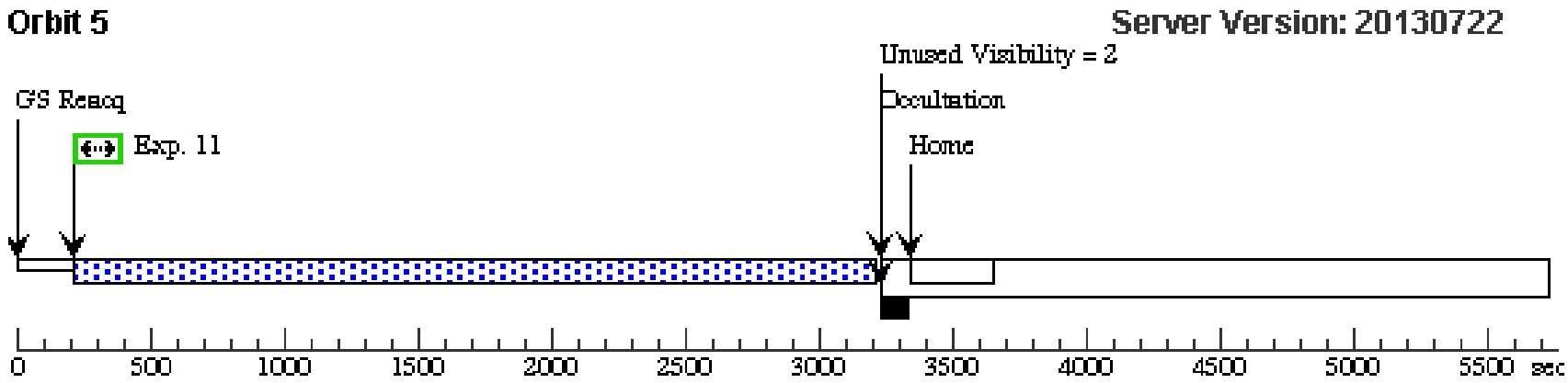
Orbit Structure






Orbit 3
Server Version: 20130722
GS Reacq
Exp. 8
Exp. 9
Unused Visibility = 1
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 4
Server Version: 20130722
GS Reacq
Exp. 10
Unused Visibility = 2
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 5
Server Version: 20130722
Unused Visibility = 2
GS Reacq
Occultation
Exp. 11
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 13448, MRK841 (15), implementation Wed Sep 18 02:08:02 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV

Special Requirements: (none)

Fixed Targets

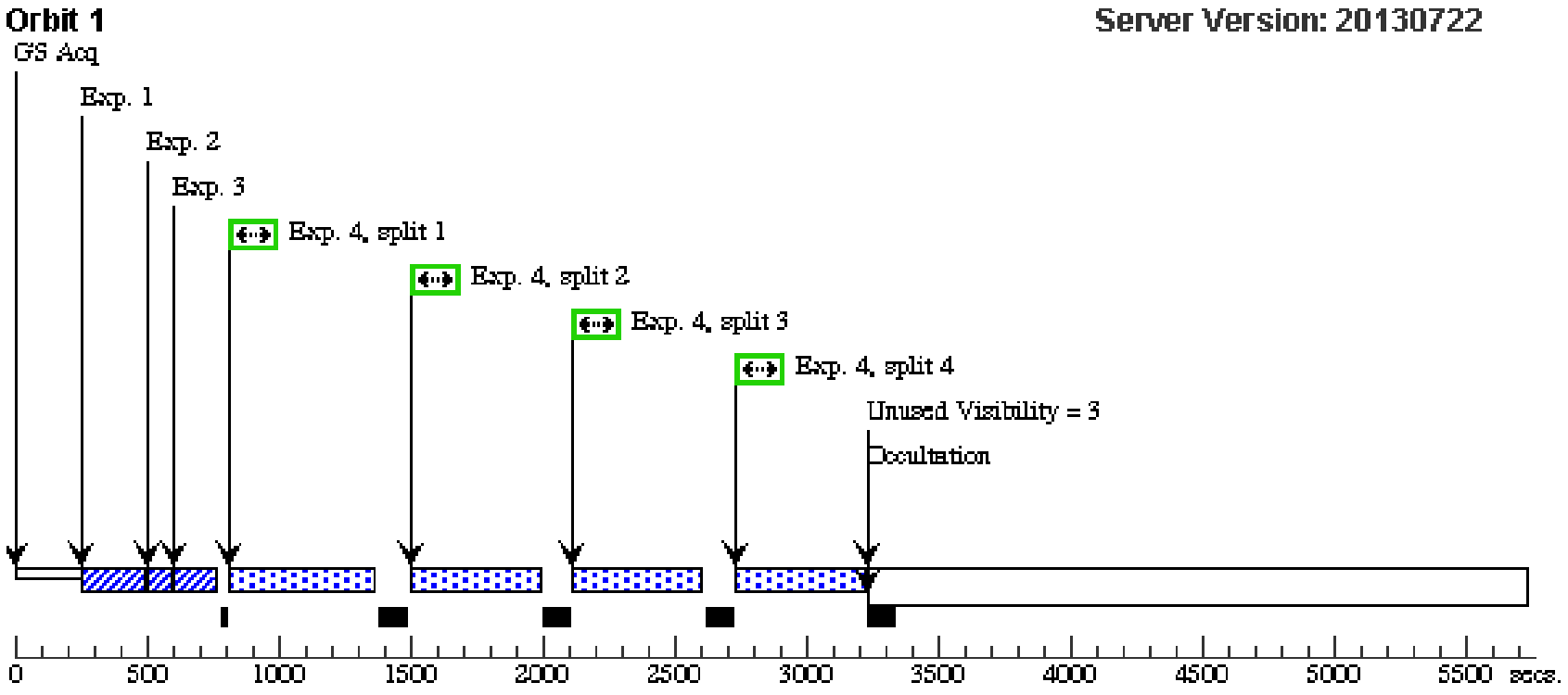
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(14)	MRK841	RA: 15 04 1.2000 (226.0050000d) Dec: +10 26 16.20 (10.43783d) Equinox: J2000		V=14.27 F_1400=3.0e-14	Reference Frame: ICRS

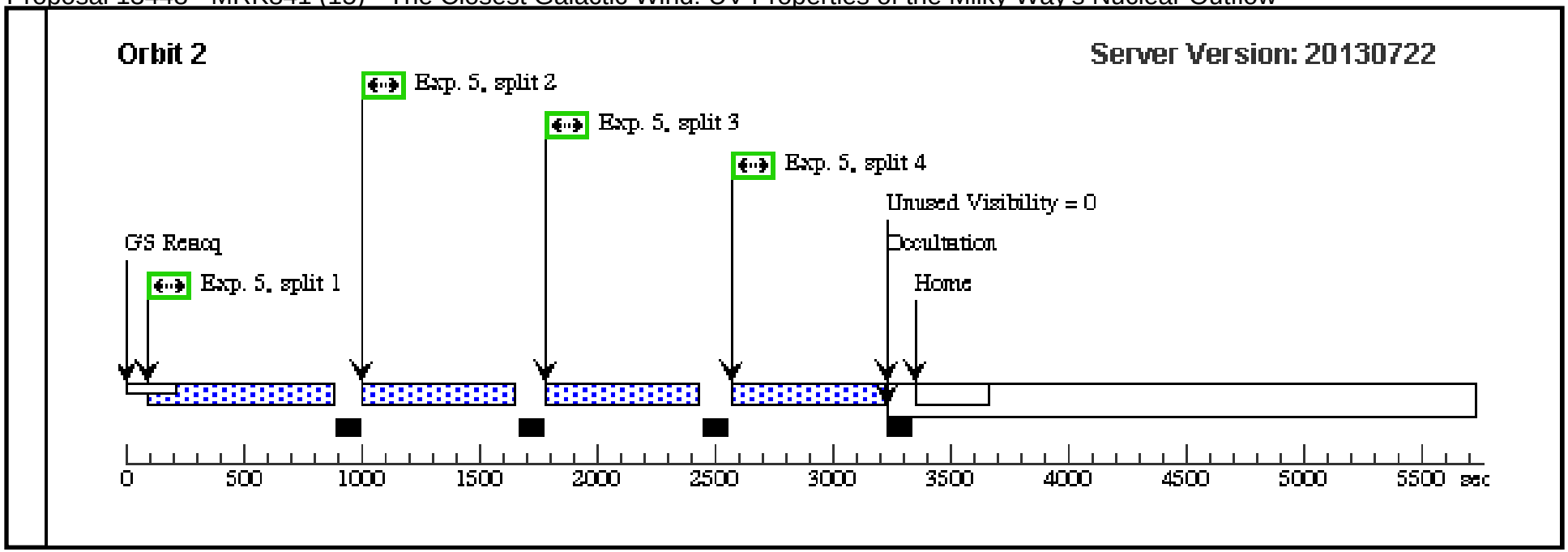
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(510464)	(14) MRK841	COS/FUV, ACQ/SEARCH, PSA	G130M 1291 A	SCAN-SIZE=2; CENTER=FLUX-WT			2 Secs (2 Secs) *[==>]*	 ***[1]***
2	(510464)	(14) MRK841	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				2 Secs (2 Secs) *[==>]*	 ***[1]***
3	(510464)	(14) MRK841	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	NUM-POS=5.0; STEP-SIZE=0.9; CENTER=FLUX-WT-FLR			2 Secs (2 Secs) *[==>]*	 ***[1]***
4	(510504)	(14) MRK841	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=ALL; BUFFER-TIME=435			435 Secs (1740 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	 ***[1]***
5	(510505)	(14) MRK841	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=ALL; BUFFER-TIME=640			602 Secs (2408 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	 ***[2]***

Orbit Structure




Orbit 2
Server Version: 20130722
Exp. 5, split 2
Exp. 5, split 3
Exp. 5, split 4
Unused Visibility = 0
Occultation
GS Reacq
Exp. 5, split 1
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 13448, PDS456 (16), implementation Wed Sep 18 02:08:02 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV

Special Requirements: (none)

Fixed Targets

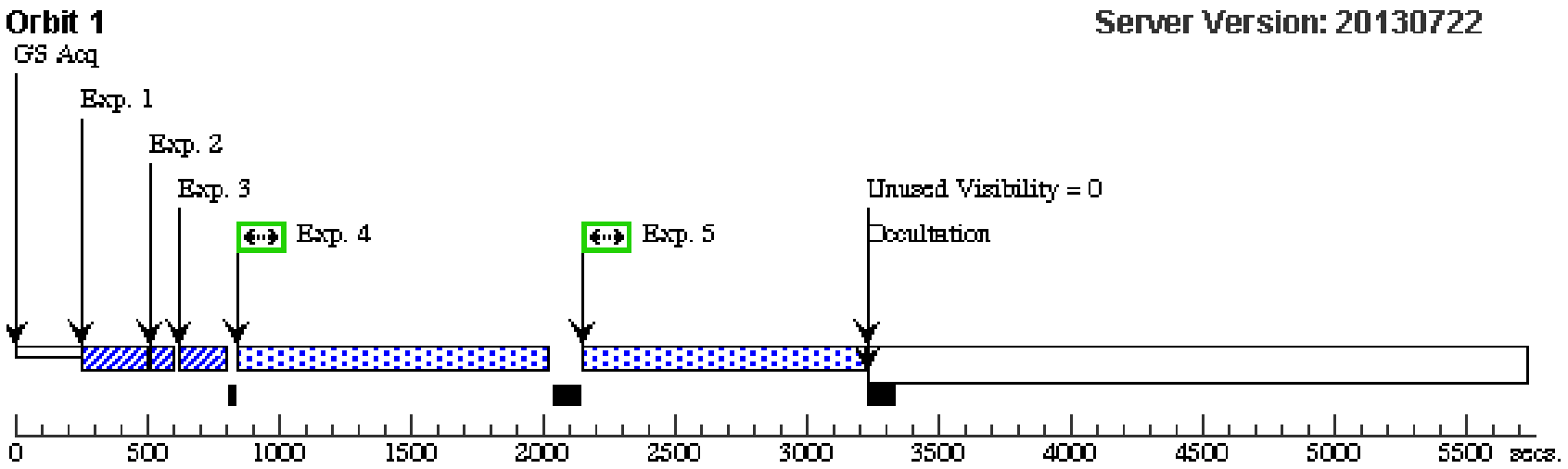
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(15)	PDS456	RA: 17 28 19.7600 (262.0823333d) Dec: -14 15 56.00 (-14.26556d) Equinox: J2000		V=14.03 F_1400=0.8e-14	Reference Frame: ICRS

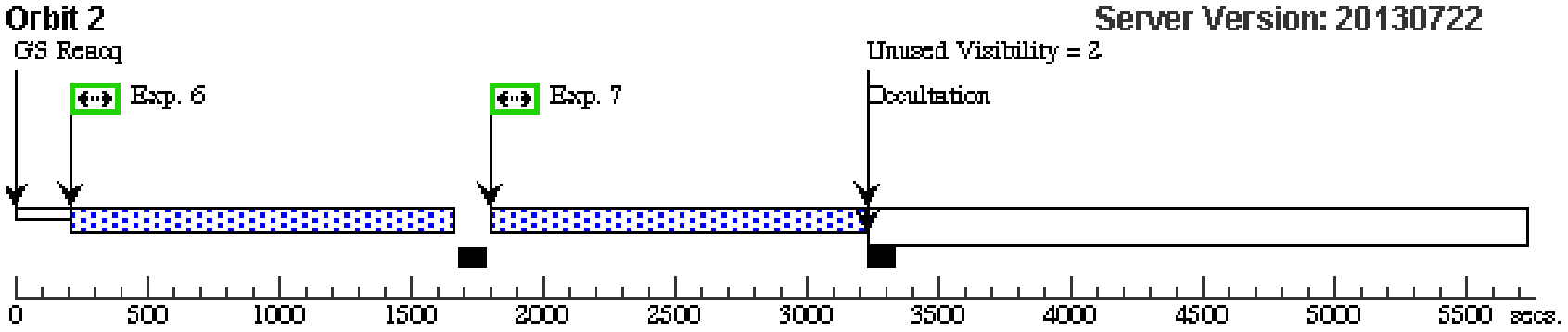
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

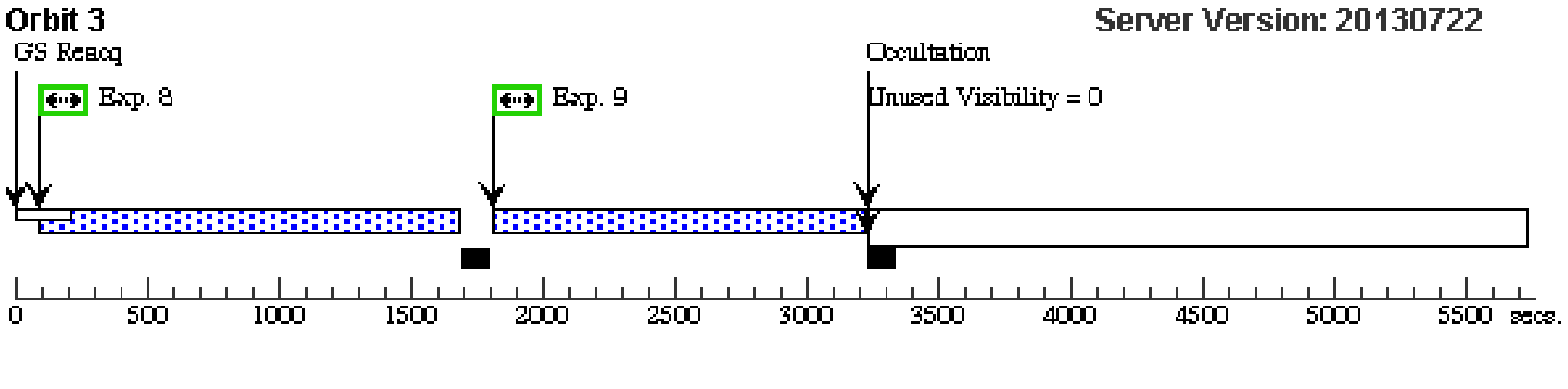
Exposures

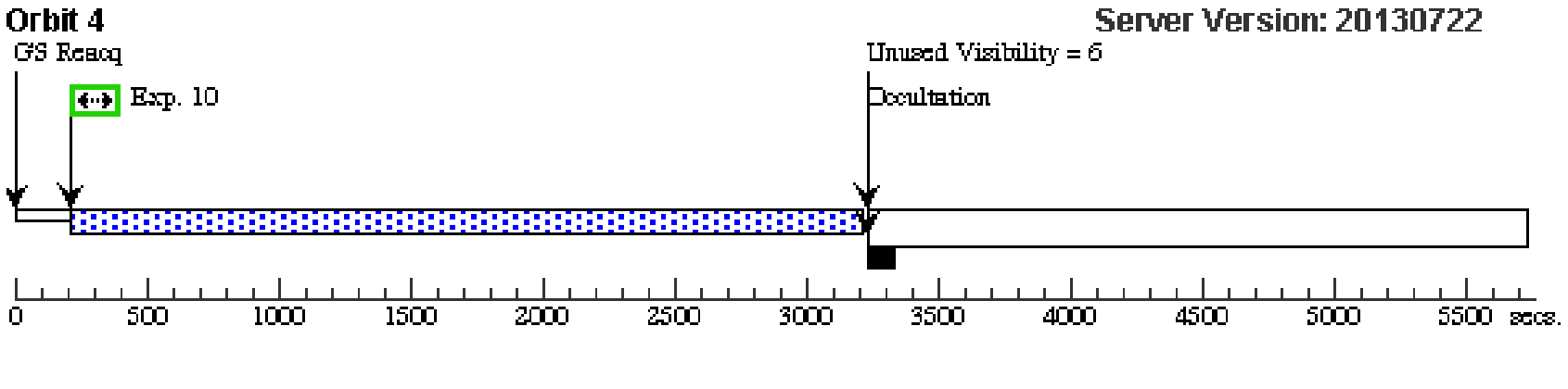
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(510466)	(15) PDS456	COS/FUV, ACQ/SEARCH, PSA	G130M 1291 A	SCAN-SIZE=2; CENTER=FLUX-WT			5 Secs (5 Secs) *[==>]*	***[1]***
2	(510466)	(15) PDS456	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A				5 Secs (5 Secs) *[==>]*	***[1]***
3	(510466)	(15) PDS456	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	NUM-POS=5.0; STEP-SIZE=0.9; CENTER=FLUX-WT-FLR			5 Secs (5 Secs) *[==>]*	***[1]***
4	(510509)	(15) PDS456	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=1060			1060 Secs (1060 Secs) *[==>]*	***[1]***
5	(510509)	(15) PDS456	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=1015			1015 Secs (1015 Secs) *[==>]*	***[1]***
6	(510509)	(15) PDS456	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=1400			1400 Secs (1400 Secs) *[==>]*	***[2]***
7	(510509)	(15) PDS456	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=1370			1370 Secs (1370 Secs) *[==>]*	***[2]***
8	(510506)	(15) PDS456	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=1; BUFFER-TIME=1410			1410 Secs (1410 Secs) *[==>]*	***[3]***
9	(510506)	(15) PDS456	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=2; BUFFER-TIME=1360			1360 Secs (1360 Secs) *[==>]*	***[3]***
10	(510507)	(15) PDS456	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=2947			2947 Secs (2947 Secs) *[==>]*	***[4]***
11	(510507)	(15) PDS456	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=4; BUFFER-TIME=2947			2947 Secs (2947 Secs) *[==>]*	***[5]***

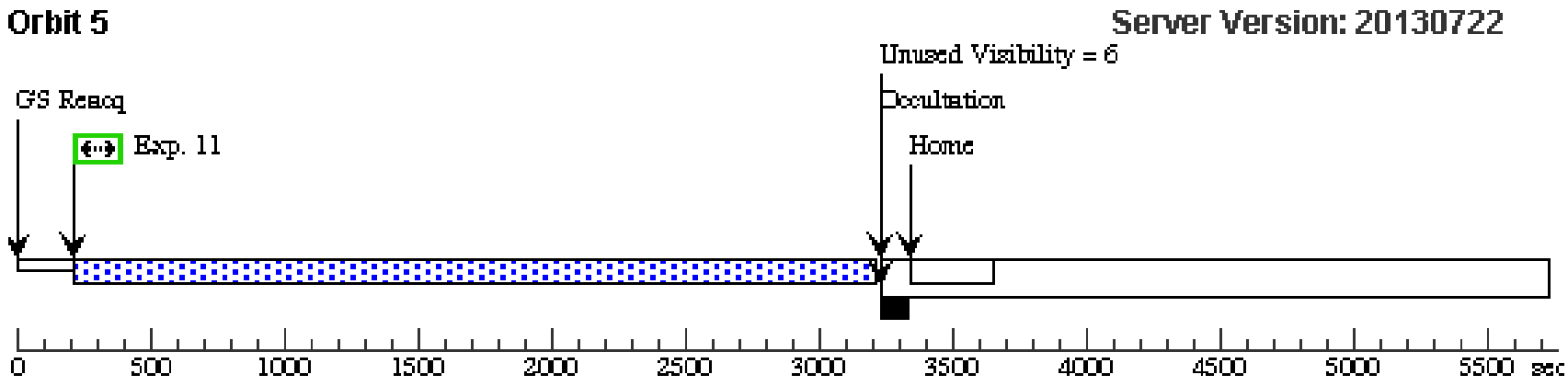
Orbit Structure






Orbit 3
Server Version: 20130722
GS Reacq
Exp. 8
Exp. 9
Occultation
Unused Visibility = 0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 4
Server Version: 20130722
GS Reacq
Exp. 10
Unused Visibility = 6
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 5
Server Version: 20130722
GS Reacq
Exp. 11
Unused Visibility = 6
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 13448, PG1435-067 (17), implementation Wed Sep 18 02:08:04 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV

Special Requirements: (none)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(16)	PG1435-067	RA: 14 38 16.1600 (219.5673333d) Dec: -06 58 20.60 (-6.97239d) Equinox: J2000		V=16.01 F_1400=1.7e-14	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(510469)	(16) PG1435-067	COS/FUV, ACQ/SEARCH, PSA	G160M 1600 A	SCAN-SIZE=2; CENTER=FLUX-WT			4 Secs (4 Secs) *[==>]*	***[1]***
2	(510469)	(16) PG1435-067	COS/FUV, ACQ/PEAKXD, PSA	G160M 1600 A				4 Secs (4 Secs) *[==>]*	***[1]***
3	(510469)	(16) PG1435-067	COS/FUV, ACQ/PEAKD, PSA	G160M 1600 A	NUM-POS=5.0; STEP-SIZE=0.9; CENTER=FLUX-WT-FLR			4 Secs (4 Secs) *[==>]*	***[1]***
4	(510517)	(16) PG1435-067	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=1; BUFFER-TIME=1070			1070 Secs (1070 Secs) *[==>]*	***[1]***
5	(510517)	(16) PG1435-067	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=2; BUFFER-TIME=1015			1015 Secs (1015 Secs) *[==>]*	***[1]***
6	(510517)	(16) PG1435-067	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=1405			1405 Secs (1405 Secs) *[==>]*	***[2]***
7	(510517)	(16) PG1435-067	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=4; BUFFER-TIME=1360			1360 Secs (1360 Secs) *[==>]*	***[2]***

Orbit Structure