14076 - An HST legacy ultraviolet spectroscopic survey of the 13pc white dwarf sample

Cycle: 23, 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) WD0009+501	STIS/CCD STIS/NUV-MAMA	1	23-Jan-2016 21:00:48.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
02	(2) WD0038-226	STIS/CCD STIS/NUV-MAMA	1	23-Jan-2016 21:00:49.0	yes
03	(3) WD0046+051	STIS/CCD STIS/NUV-MAMA	1	23-Jan-2016 21:00:50.0	yes
04	(3) WD0046+051	COS/FUV COS/NUV	2	23-Jan-2016 21:00:52.0	yes
05	(4) WD0135-052	STIS/CCD STIS/NUV-MAMA	1	23-Jan-2016 21:00:53.0	yes
06	(5) WD0141-675	STIS/CCD STIS/NUV-MAMA	1	23-Jan-2016 21:00:54.0	yes
07	(6) WD0245+541	STIS/CCD STIS/NUV-MAMA	2	23-Jan-2016 21:00:55.0	yes
08	(7) WD0310-688	STIS/CCD STIS/FUV-MAMA	1	23-Jan-2016 21:00:57.0	yes
09	(8) WD0435-088	STIS/CCD STIS/NUV-MAMA	1	23-Jan-2016 21:00:58.0	yes
10	(9) WD0548-001	STIS/CCD STIS/NUV-MAMA	2	23-Jan-2016 21:00:59.0	yes
11	(10) WD0552-041	STIS/CCD STIS/NUV-MAMA	2	23-Jan-2016 21:01:00.0	yes
12	(11) WD0553+053	STIS/CCD STIS/NUV-MAMA	1	23-Jan-2016 21:01:01.0	yes
13	(12) WD0727+482	STIS/CCD STIS/NUV-MAMA	2	23-Jan-2016 21:01:03.0	yes
14	(13) WD0752-676	STIS/CCD STIS/NUV-MAMA	1	23-Jan-2016 21:01:04.0	yes
15	(14) WD0821-669	STIS/CCD STIS/NUV-MAMA	2	23-Jan-2016 21:01:06.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
16	(15) WD0839-327	STIS/CCD STIS/NUV-MAMA	1	23-Jan-2016 21:01:08.0	yes
17	(15) WD0839-327	COS/FUV	1	23-Jan-2016 21:01:09.0	yes
18	(16) WD0912+536	STIS/CCD STIS/NUV-MAMA	1	23-Jan-2016 21:01:10.0	yes
19	(16) WD0912+536	COS/FUV COS/NUV	1	23-Jan-2016 21:01:12.0	yes
Z9	(16) WD0912+536	COS/FUV COS/NUV	1	23-Jan-2016 21:01:13.0	yes
20	(17) WD1055-072	STIS/CCD STIS/NUV-MAMA	1	23-Jan-2016 21:01:14.0	yes
21	(18) WD1121+216	STIS/CCD STIS/NUV-MAMA	1	23-Jan-2016 21:01:15.0	yes
22	(19) WD1142-645	STIS/CCD STIS/NUV-MAMA	1	23-Jan-2016 21:01:16.0	yes
23	(19) WD1142-645	COS/FUV COS/NUV	1	23-Jan-2016 21:01:18.0	yes
24	(20) WD1202-232	STIS/CCD STIS/NUV-MAMA	1	23-Jan-2016 21:01:19.0	yes
25	(20) WD1202-232	COS/FUV	1	23-Jan-2016 21:01:20.0	yes
26	(21) WD1334+039	STIS/CCD STIS/NUV-MAMA	2	23-Jan-2016 21:01:22.0	yes
27	(22) WD1345+238	STIS/CCD STIS/NUV-MAMA	2	23-Jan-2016 21:01:23.0	yes
28	(23) WD1620-391	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	23-Jan-2016 21:01:24.0	yes
29	(24) WD1647+591	COS/FUV	2	23-Jan-2016 21:01:27.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
30	(25) WD1748+708	STIS/CCD STIS/NUV-MAMA	1	23-Jan-2016 21:01:28.0	yes
31	(26) WD1900+705	STIS/CCD STIS/NUV-MAMA	1	23-Jan-2016 21:01:30.0	yes
32	(26) WD1900+705	COS/FUV	1	23-Jan-2016 21:01:31.0	yes
33	(27) WD1917-077	STIS/CCD STIS/NUV-MAMA	2	23-Jan-2016 21:01:34.0	yes
34	(27) WD1917-077	COS/FUV	2	23-Jan-2016 21:01:36.0	yes
35	(28) WD1917+386	STIS/CCD STIS/NUV-MAMA	1	23-Jan-2016 21:01:37.0	yes
36	(29) WD1953-011	STIS/CCD STIS/NUV-MAMA	1	23-Jan-2016 21:01:38.0	yes
37	(30) WD2140+207	STIS/CCD STIS/NUV-MAMA	1	23-Jan-2016 21:01:39.0	yes
38	(30) WD2140+207	COS/FUV COS/NUV	2	23-Jan-2016 21:01:40.0	yes
39	(31) WD2251-070	STIS/CCD STIS/NUV-MAMA	3	23-Jan-2016 21:01:42.0	yes
40	(32) WD2359-434	STIS/CCD STIS/NUV-MAMA	1	23-Jan-2016 21:01:43.0	yes
41	(101) GJ86A (102) WD0208-510	STIS/CCD STIS/NUV-MAMA	1	23-Jan-2016 21:01:46.0	yes
42	(103) WD0413-077	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	23-Jan-2016 21:01:48.0	yes
43	(104) WD0426+588	STIS/CCD STIS/NUV-MAMA	1	23-Jan-2016 21:01:49.0	yes
44	(104) WD0426+588	COS/FUV	2	23-Jan-2016 21:01:51.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
45	(105) GJ432AB	WFC3/UVIS	1	23-Jan-2016 21:01:56.0	yes
46	(106) WD1132-325	STIS/CCD STIS/NUV-MAMA	1	23-Jan-2016 21:01:59.0	yes
47	(7) WD0310-688	STIS/CCD STIS/NUV-MAMA	1	23-Jan-2016 21:02:00.0	yes

65 Total Orbits Used

ABSTRACT

Over 95% of all stars in the Galaxy will become white dwarfs, and this dominant population of stellar remnants plays a unique and central role for our understanding of the formation and evolution of stars, planetary systems, and the Galaxy itself. White dwarfs are fundamental for many areas of astrophysics, including post main-sequence mass loss, the local star formation history, the bulk composition of extra-solar planets, and the characterisation of dark energy.

Despite their fundamental importance for a wide range of astrophysical problems, our knowledge of the galactic white dwarf population is remarkably fragmentary: the only volume-limited and unbiased sample of white dwarfs contains 43 stars within d < 13 pc (of the Sun). This sample is dominated by cool and old stars, and an accurate determination of their temperatures, masses, and ages requires a detailed understanding of plasmas and convection at fluid-like densities.

Our team has carried out substantial theoretical and computational work on improved model atmospheres and all relevant input physics. The strongest effect of our new calculations on the emergent flux occurs at ultraviolet wavelengths, and we propose to obtain STIS and COS spectroscopy for all white dwarfs in the volume-limited 13pc sample to (1) test and calibrate our atmosphere models, which we will eventually apply to the ~200000 WDs discovered by Gaia, (2) turn the 13pc sample into the most accurate cosmic clocks reconstructing the local star formation history, and (3) probe in an unbiased way the frequency of rocky planet formation in the early ages of the Galaxy.

OBSERVING DESCRIPTION

eThe aim of this proposal is to obtain HST STIS/COS spectra for all white dwarfs within 13pc that do not yet have high quality ultraviolet spectra. Many of these stars are cool, and are only detectable in the near-UV range with STIS/G230L. We use the 52x2 aperture to ensure the best

spectrophotometric throughput. A small fraction is sufficiently hot to be observed with either COS/G140L, or COS/G130M/G160M. Where possible, we use the TIME-TAG mode.

A few targets need special considerations:

WD0727+482 (target #12, visit 13) is a white dwarf - white dwarf binary with a separation of 0.66".
This binary has been monitored for more than a decade with HST/FGS (PI Howard Bond), and we
would like to position both stars along the 52x2 long-slit, which needs a specific roll angle.

Four of our targets are part of wide common proper motion binaries / triples:

WD0208-501 = GJ86B (V=14): 2" separation from GJ86A (V=6.17, K0V) -> observed before with WFC3 and STIS/CCD. Offset acquisition necessary.

WD0413-077 = 40 Eri B (V=9.5): 80" separation from 40 Eri A (V=4.4, K0.5V), has a fainter M-dwarf component, 40 Eri C (V=11.17, M5V) -> may need roll angle to avoid diffraction spikes

WD0426+588 = Stein 2051B (V=12.44): 7.4" separation from Stein 2051A (V=11.08, M4V) -> separation sufficiently small that it may cause trouble for STIS target acq.

WD1132-325 = vB4 (V=15), ~5" separation from GJ432A (V=5.98, K0V) -> separation sufficiently small that it may cause trouble for STIS target acq.

These targets are numbered as >#100, and the assiociated visits are AA and beyond.

Visit

Proposal 14076, WD0009+501 STIS G230L (01), scheduling Sun Jan 24 02:02:02 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

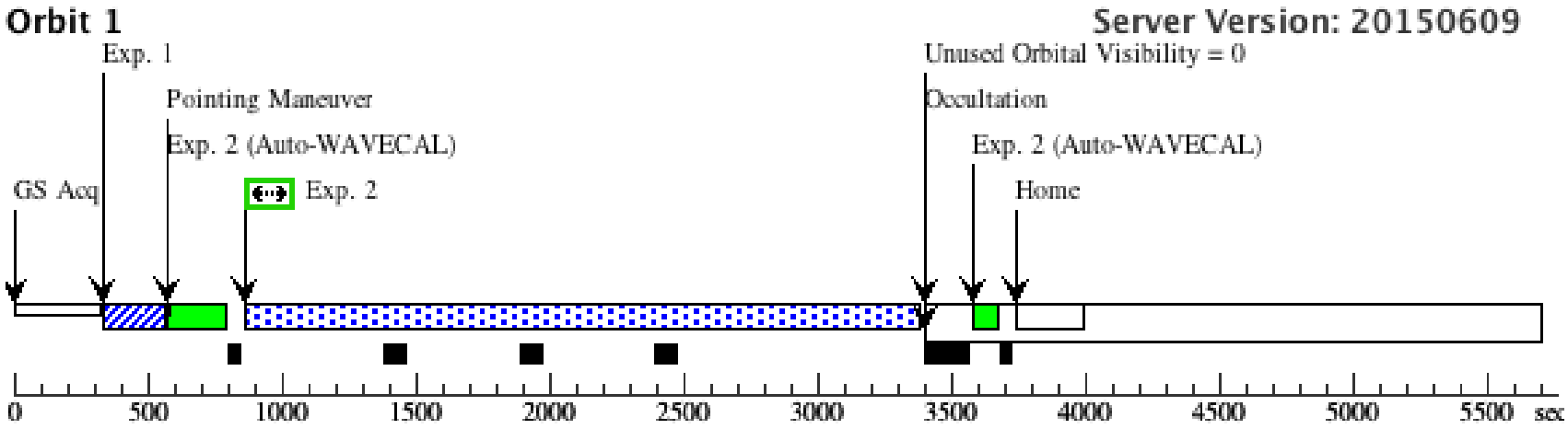
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	WD0009+501	RA: 00 12 14.0156 (3.0583983d) Dec: +50 25 12.42 (50.42012d) Equinox: J2000	Proper Motion RA: -0.448 arcsec/yr Proper Motion Dec: -0.551 arcsec/yr Epoch of Position: 2014.9956	V=14.36+/-0.03 GALEX NUV=17.36+/-0.03	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD0009+501 Acq (STIS.ta.717336)	(1) WD0009+501	STIS/CCD, ACQ, F28X50LP	MIRROR				0.2 Secs (0.2 Secs) *[==>]*	 ***[1]***
2	WD0009+501 STIS G230L (STIS.sp.717342)	(1) WD0009+501	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=500			2483 Secs (2483 Secs) *[==>]*	 ***[1]***

Orbit Structure



Visit

Proposal 14076, WD0038-226 STIS G230L (02), scheduling Sun Jan 24 02:02:03 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

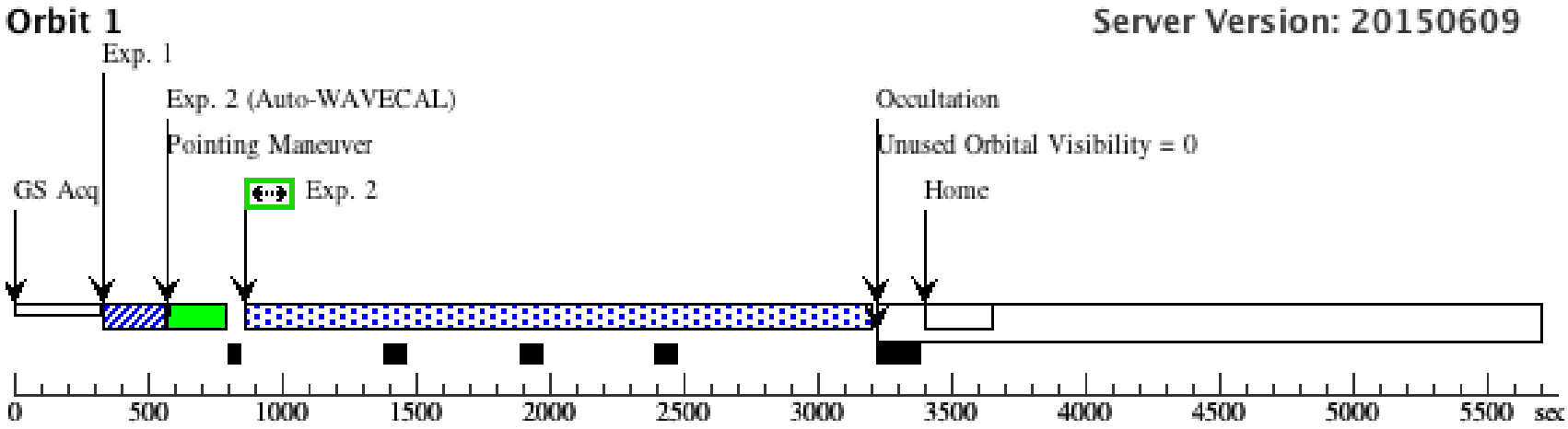
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	WD0038-226	RA: 00 41 25.5462 (10.3564425d) Dec: -22 21 8.17 (-22.35227d) Equinox: J2000	Proper Motion RA: -0.483 arcsec/yr Proper Motion Dec: -0.369 arcsec/yr Epoch of Position: 2014.8151	V=14.5+/-0.03 GALEX NUV=18.87+/-0.07	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD0038-226 Acq (STIS.ta.717488)	(2) WD0038-226	STIS/CCD, ACQ, F28X50LP	MIRROR				0.2 Secs (0.2 Secs) *[==>]*	*[1]*
2	WD0038-226 STIS G230L (STIS.sp.717490)	(2) WD0038-226	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=500			2302 Secs (2302 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14076, WD0046+051 STIS G230L (03), scheduling Sun Jan 24 02:02:03 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

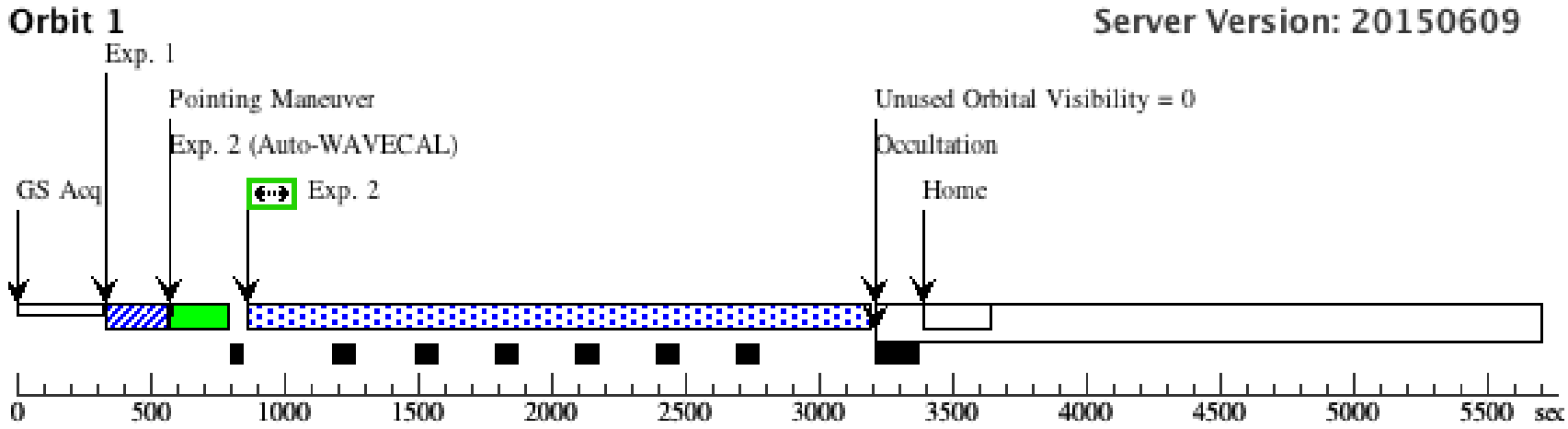
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	WD0046+051	RA: 00 49 11.0898 (12.2962075d) Dec: +05 22 38.87 (5.37746d) Equinox: J2000	Proper Motion RA: 1.165 arcsec/yr Proper Motion Dec: -2.732 arcsec/yr Epoch of Position: 2014.796	V=12.39+/-0.03 GALEX NUV=18.19+/-0.04	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD0046+051 Acq (STIS.ta.717343)	(3) WD0046+051	STIS/CCD, ACQ, F28X50LP	MIRROR		GS ACQ SCENARIO BASE1B3		0.1 Secs (0.1 Secs) *[==>]*	 ***[1]***
2	WD0046+051 STIS G230L (STIS.sp.717344)	(3) WD0046+051	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=300			2293 Secs (2293 Secs) *[==>]*	 ***[1]***

Orbit Structure



Visit

Proposal 14076, WD0046+051 COS G140L (04), scheduling Sun Jan 24 02:02:03 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

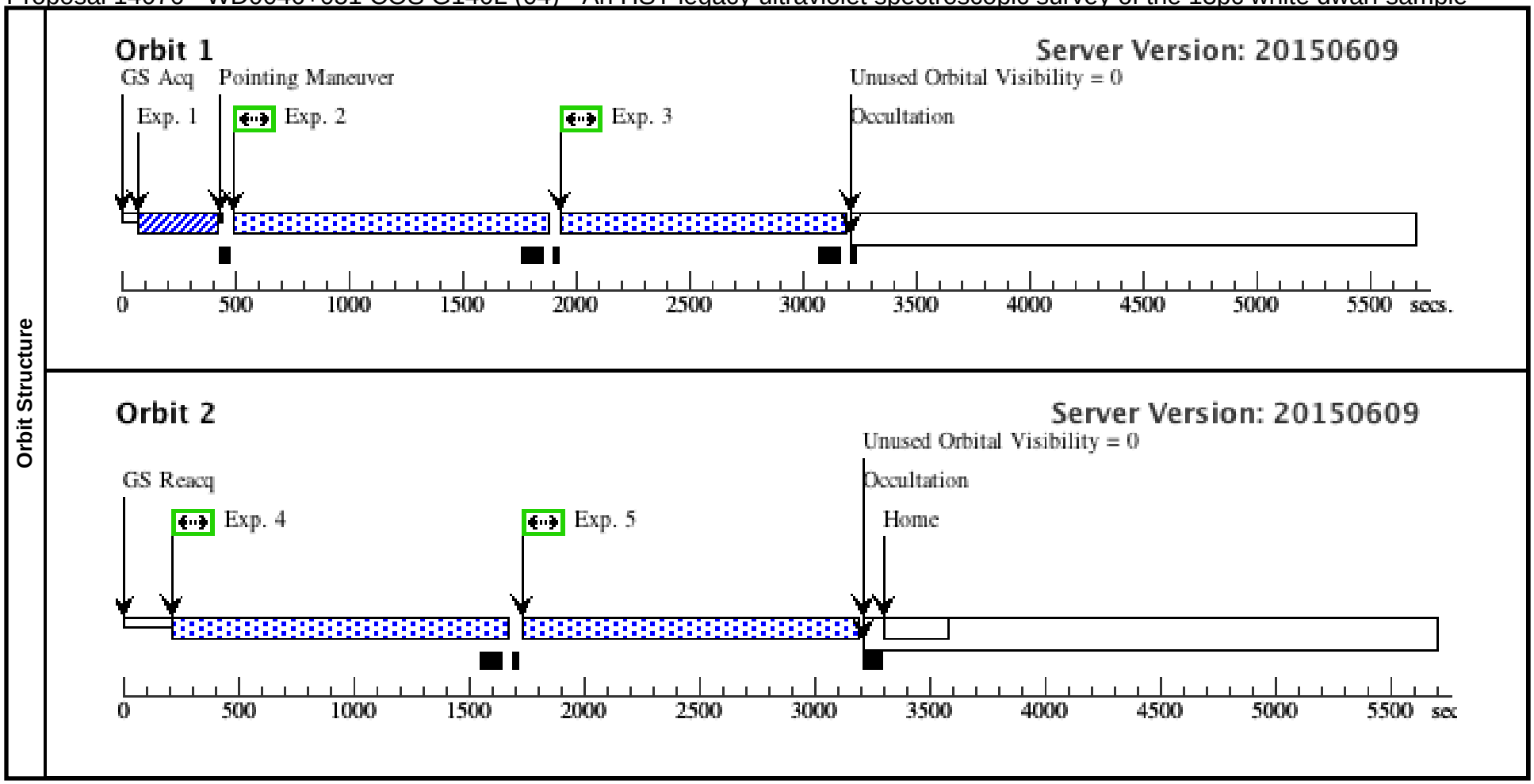
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	WD0046+051	RA: 00 49 11.0898 (12.2962075d) Dec: +05 22 38.87 (5.37746d) Equinox: J2000	Proper Motion RA: 1.165 arcsec/yr Proper Motion Dec: -2.732 arcsec/yr Epoch of Position: 2014.796	V=12.39+/-0.03 GALEX NUV=18.19+/-0.04	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD0046+051 COS Acq (COS.ta.720611)	(3) WD0046+051	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				16 Secs (16 Secs) *[==>]*	***[1]***
2	WD0046+051 COS G140L (COS.sp.720613)	(3) WD0046+051	COS/FUV, TIME-TAG, PSA	G140L 1105 A	FP-POS=1; BUFFER-TIME=1100			1210 Secs (1210 Secs) *[==>]*	***[1]***
3	WD0046+051 COS G140L (COS.sp.720613)	(3) WD0046+051	COS/FUV, TIME-TAG, PSA	G140L 1105 A	FP-POS=2; BUFFER-TIME=1100			1207 Secs (1207 Secs) *[==>]*	***[1]***
4	WD0046+051 COS G140L (COS.sp.720613)	(3) WD0046+051	COS/FUV, TIME-TAG, PSA	G140L 1105 A	FP-POS=3; BUFFER-TIME=1301			1411 Secs (1411 Secs) *[==>]*	***[2]***
5	WD0046+051 COS G140L (COS.sp.720613)	(3) WD0046+051	COS/FUV, TIME-TAG, PSA	G140L 1105 A	FP-POS=4; BUFFER-TIME=2000			1411 Secs (1411 Secs) *[==>]*	***[2]***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Pointing Maneuver
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Exp. 1
Exp. 2
Exp. 3
Occultation
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1500
2000
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3000
3500
4000
4500
5000
5500
secs.
Orbit 2
Server Version: 20150609
Unused Orbital Visibility = 0
GS Reacq
Occultation
Exp. 4
Exp. 5
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14076, WD0135-052 STIS G230L (05), scheduling Sun Jan 24 02:02:03 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

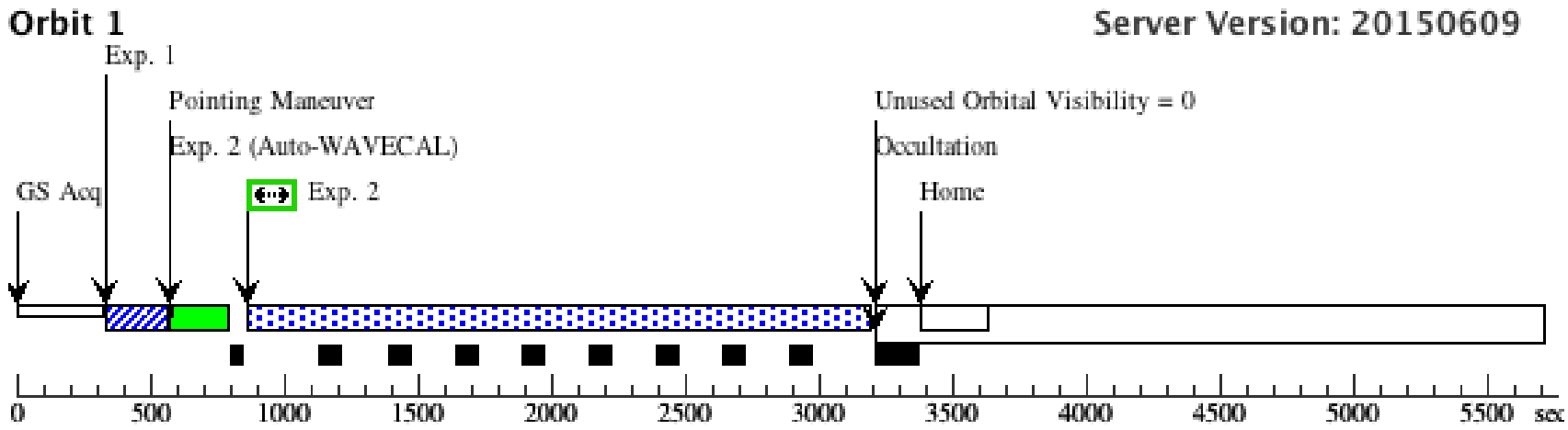
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	WD0135-052	RA: 01 37 59.7449 (24.4989371d) Dec: -04 59 47.91 (-4.99664d) Equinox: J2000	Proper Motion RA: 0.584 arcsec/yr Proper Motion Dec: -0.349 arcsec/yr Epoch of Position: 2008.9972	V=12.86+/-0.03 GALEX NUV=15.07+/-0.01	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD0135-052 Acq (STIS.ta.717491)	(4) WD0135-052	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	*[1]*
2	WD0135-052 STIS G230L (STIS.sp.717492)	(4) WD0135-052	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=250			2290 Secs (2290 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14076, WD0141-675 STIS G230L (06), scheduling Sun Jan 24 02:02:03 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

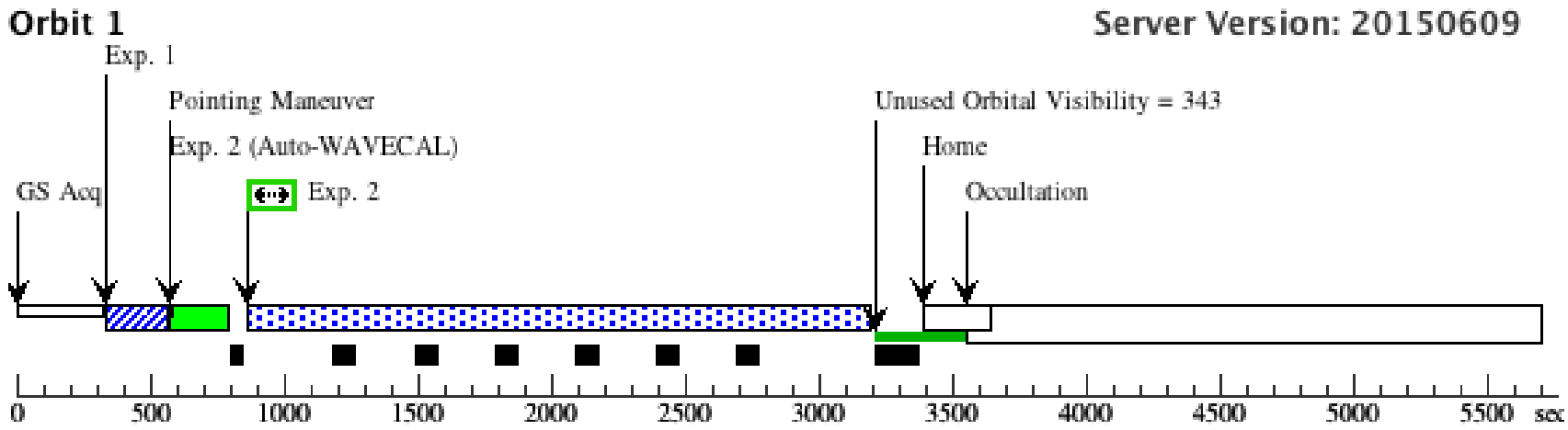
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	WD0141-675	RA: 01 43 0.1080 (25.7504500d) Dec: -67 18 45.41 (-67.31261d) Equinox: J2000	Proper Motion RA: -0.355 arcsec/yr Proper Motion Dec: -1.02 arcsec/yr Epoch of Position: 2014.8098	V=13.82+/-0.03 GALEX NUV=17.03+/-0.02	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD0141-675 Acq (STIS.ta.717498)	(5) WD0141-675	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	*[1]*
2	WD0141-675 STIS G230L (STIS.sp.717500)	(5) WD0141-675	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=300			2293 Secs (2293 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14076, WD0245+541 STIS G230L (07), completed Sun Jan 24 02:02:03 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

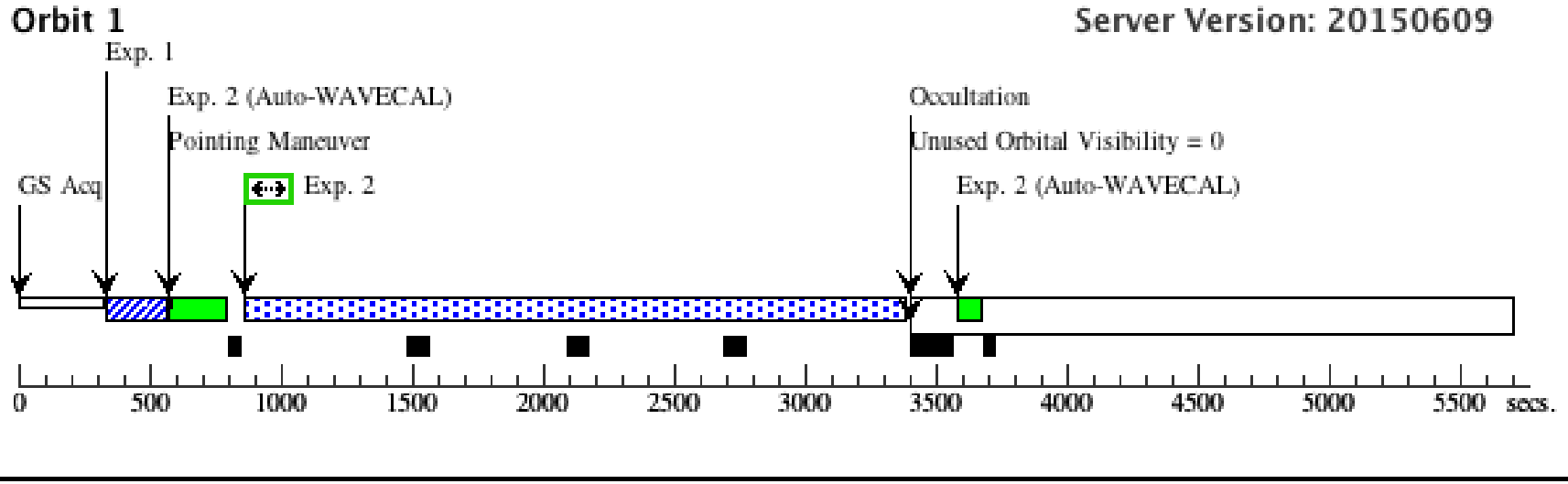
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	WD0245+541	RA: 02 48 35.6866 (42.1486942d) Dec: +54 23 16.60 (54.38794d) Equinox: J2000	Proper Motion RA: -0.425 arcsec/yr Proper Motion Dec: -0.385 arcsec/yr Epoch of Position: 2015.0532	V=15.36+/-0.03 GALEX NUV=22.08+/-0.40	Reference Frame: ICRS

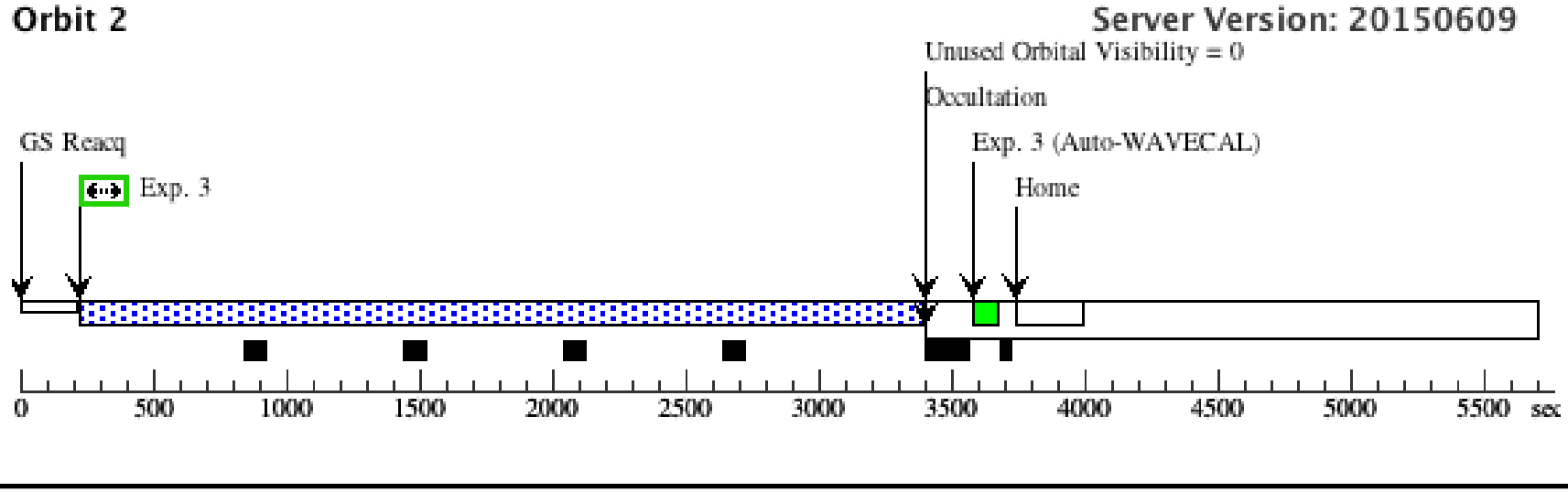
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD0245+541 Acq (STIS.ta.717519)	(6) WD0245+541	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	***[1]***
2	WD0245+541 STIS G230L (STIS.sp.717522)	(6) WD0245+541	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=600			2483 Secs (2483 Secs) *[==>]*	***[1]***
3	WD0245+541 STIS G230L (STIS.sp.717522)	(6) WD0245+541	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=600			3128 Secs (3128 Secs) *[==>]*	***[2]***

Orbit Structure





Visit

Proposal 14076, WD0310-688 STIS E140M (08), implementation Sun Jan 24 02:02:03 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Comments: 11/11/2015: this visit was problematic because of the total number of buffer dumps. Given up on the TIME-TAG mode would impact the potential scientific return. The best choice seems to be to split the E140M and E230M observations into two separate visits, reducing the number of buffer dumps per visit, while keeping the TIME-TAG mode. This results in a small loss of on-target time, but given that this is a bright target, the loss in S/N is negligible. Visit 08 is now only the E140M observation, and the new visit 47 contains the E230M observations.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	WD0310-688	RA: 03 10 31.0693 (47.6294554d) Dec: -68 36 4.57 (-68.60127d) Equinox: J2000	Proper Motion RA: 0.042 arcsec/yr Proper Motion Dec: -0.104 arcsec/yr Epoch of Position: 2015.0558	V=11.4+/-0.03 GALEX FUV=11.422+/-0.003 GALEX NUV=12.985+/-0.003	Reference Frame: ICRS

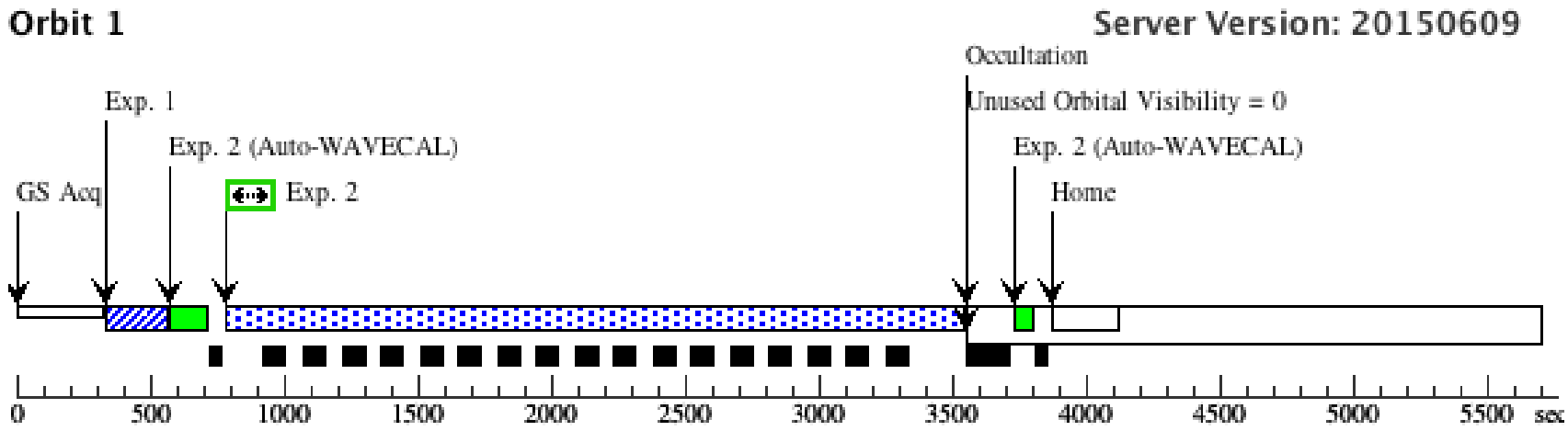
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD0310-688 Acq (STIS.ta.720643)	(7) WD0310-688	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	*[1]*
2	WD0310-688 STIS E140M (STIS.sp.752487)	(7) WD0310-688	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=145			2742 Secs (2742 Secs) *[==>]*	*[1]*

Comments: 11/11/2015: For the E140M observations in Visit 08, the ETC simulation gives a "countrate entire detector" of 11381, i.e. a buffer time of 175sec. The IUE spectrum of WD0310-688 (SWP15471) suggests that the WD model used for the ETC simulation overpredicts the flux by ~20%. Allowing an additional 20% safety margin ontop of the model prediction, we end with a BUFFER-TIME of 145sec, or a total of 20 buffer dumps in this visit, including the WAVECALs.

Orbit Structure



Visit

Proposal 14076, WD0435-088 STIS G230L (09), scheduled Sun Jan 24 02:02:03 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

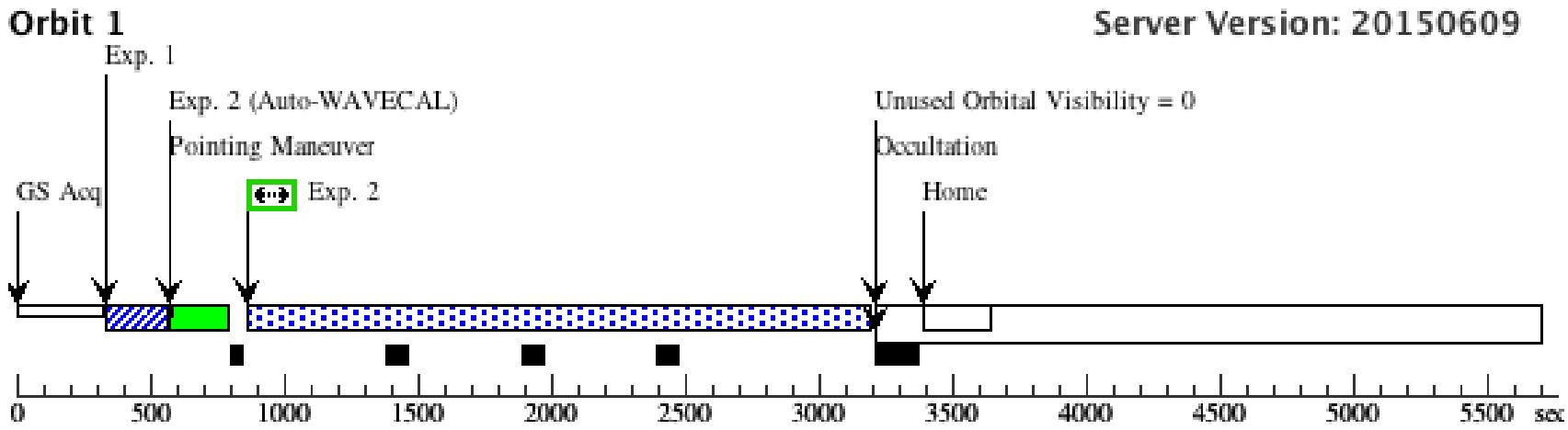
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(8)	WD0435-088	RA: 04 37 47.6386 (69.4484942d) Dec: -08 49 34.09 (-8.82614d) Equinox: J2000	Proper Motion RA: 0.226 arcsec/yr Proper Motion Dec: -1.551 arcsec/yr Epoch of Position: 2015.0586	V=13.75+/-0.03 GALEX NUV=16.24+/-0.02	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD0435-088 Acq (STIS.ta.717527)	(8) WD0435-088	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	*[1]*
2	WD0435-088 STIS G230L (STIS.sp.717528)	(8) WD0435-088	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=500			2293 Secs (2293 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14076, WD0548-001 STIS G230L (10), scheduled Sun Jan 24 02:02:03 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

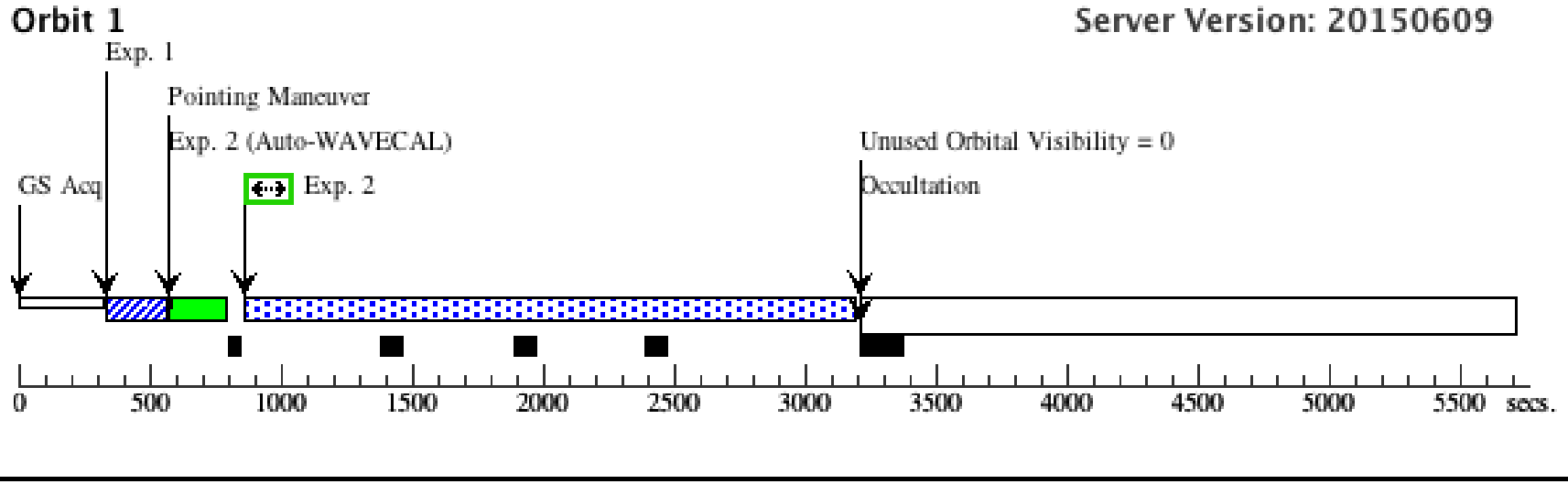
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(9)	WD0548-001	RA: 05 51 19.5648 (87.8315200d) Dec: -00 10 18.24 (-.17173d) Equinox: J2000	Proper Motion RA: 0.113 arcsec/yr Proper Motion Dec: 0.228 arcsec/yr Epoch of Position: 2015.0587	V=14.56+/-0.03	Reference Frame: ICRS

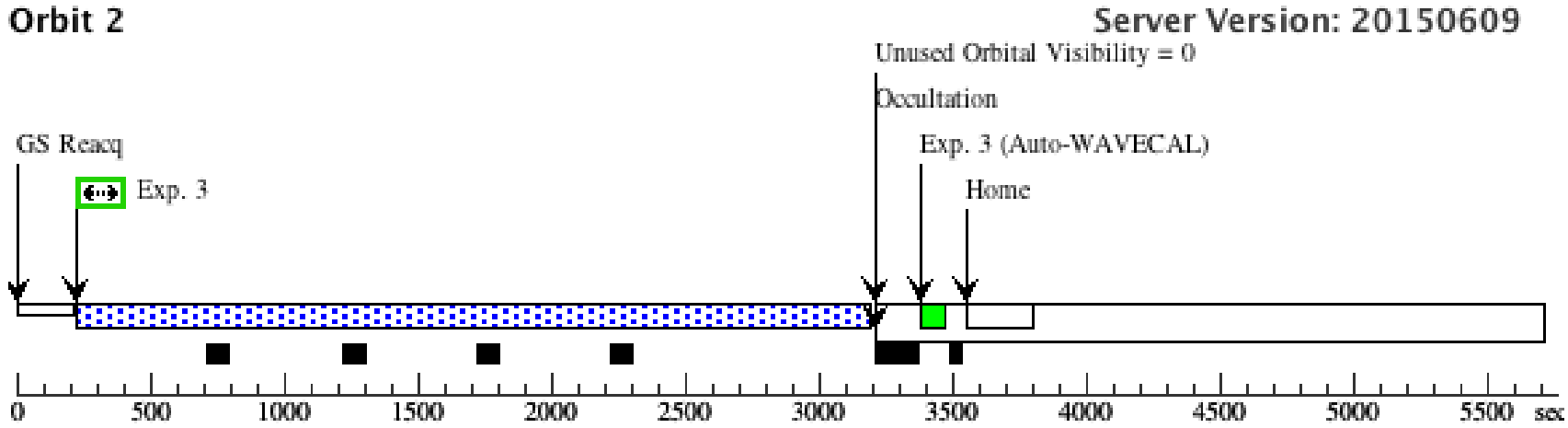
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD0548-001 Acq (STIS.ta.717531)	(9) WD0548-001	STIS/CCD, ACQ, F28X50LP	MIRROR				0.2 Secs (0.2 Secs) *[==>]*	***[1]***
2	WD0548-001 STIS G230L (STIS.sp.717530)	(9) WD0548-001	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=500			2290 Secs (2290 Secs) *[==>]*	***[1]***
3	WD0548-001 STIS G230L (STIS.sp.717530)	(9) WD0548-001	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=500			2960 Secs (2960 Secs) *[==>]*	***[2]***

Orbit Structure





Visit

Proposal 14076, WD0552-041 STIS G230L (11), scheduling Sun Jan 24 02:02:03 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

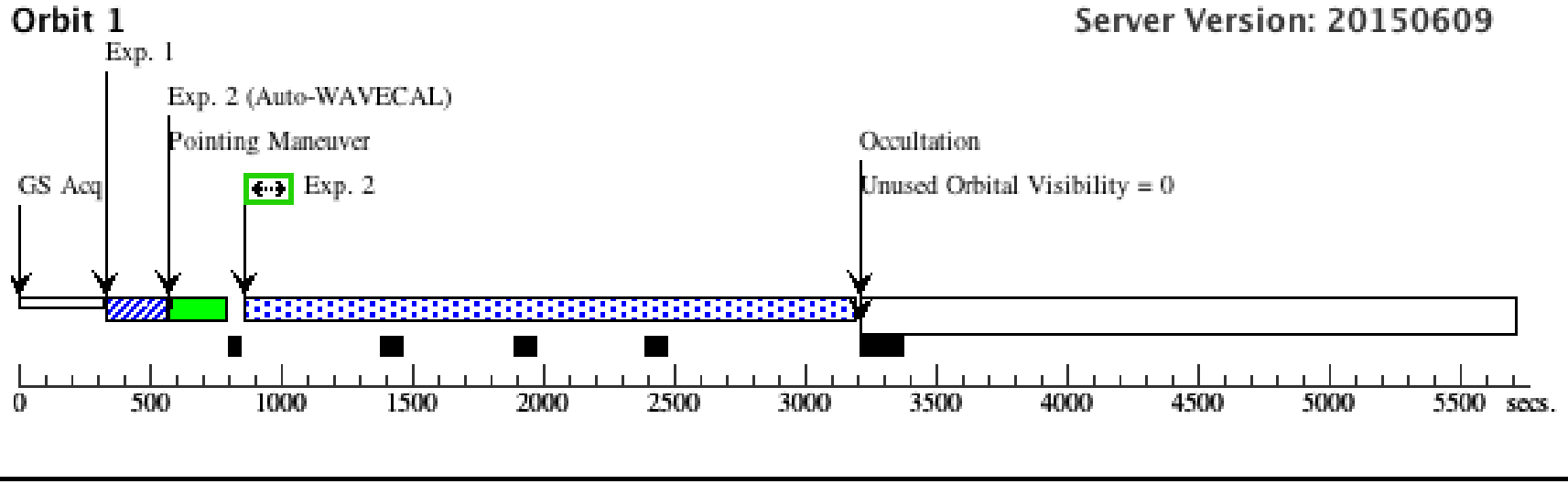
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(10)	WD0552-041	RA: 05 55 10.0627 (88.7919279d) Dec: -04 10 42.02 (-4.17834d) Equinox: J2000	Proper Motion RA: 0.506 arcsec/yr Proper Motion Dec: -2.321 arcsec/yr Epoch of Position: 2015.0697	V=14.47+/-0.03	Reference Frame: ICRS

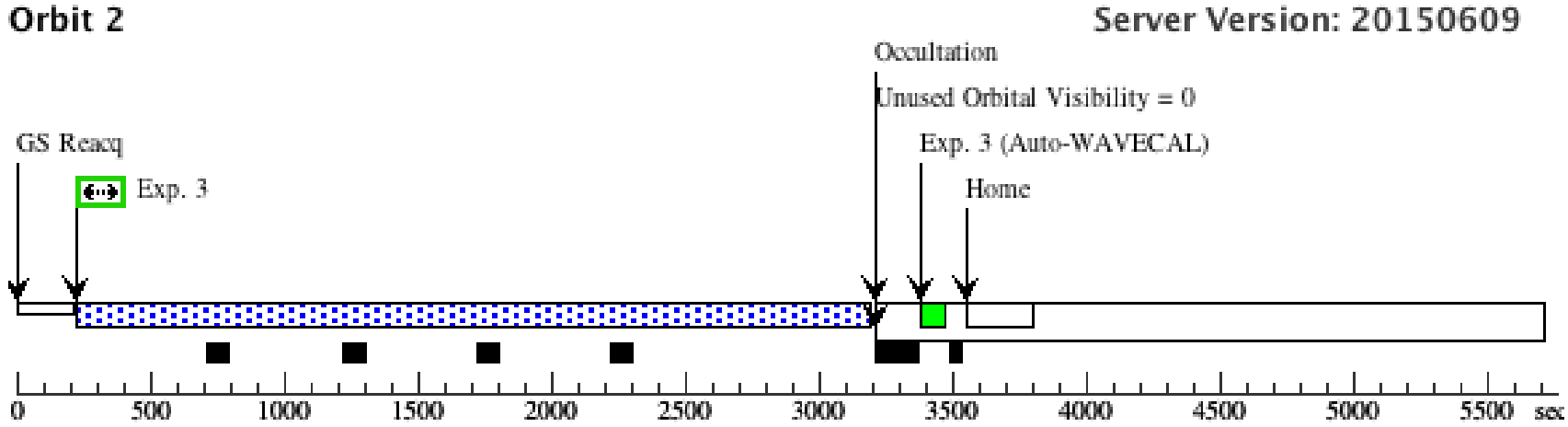
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD0552-041 Acq (STIS.ta.717532)	(10) WD0552-041	STIS/CCD, ACQ, F28X50LP	MIRROR				0.2 Secs (0.2 Secs) *[==>]*	***[1]***
2	WD0552-041 STIS G230L (STIS.sp.717533)	(10) WD0552-041	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=500			2290 Secs (2290 Secs) *[==>]*	***[1]***
3	WD0552-041 STIS G230L (STIS.sp.717533)	(10) WD0552-041	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=500			2960 Secs (2960 Secs) *[==>]*	***[2]***

Orbit Structure





Visit

Proposal 14076, WD0553+053 STIS G230L (12), scheduling Sun Jan 24 02:02:03 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

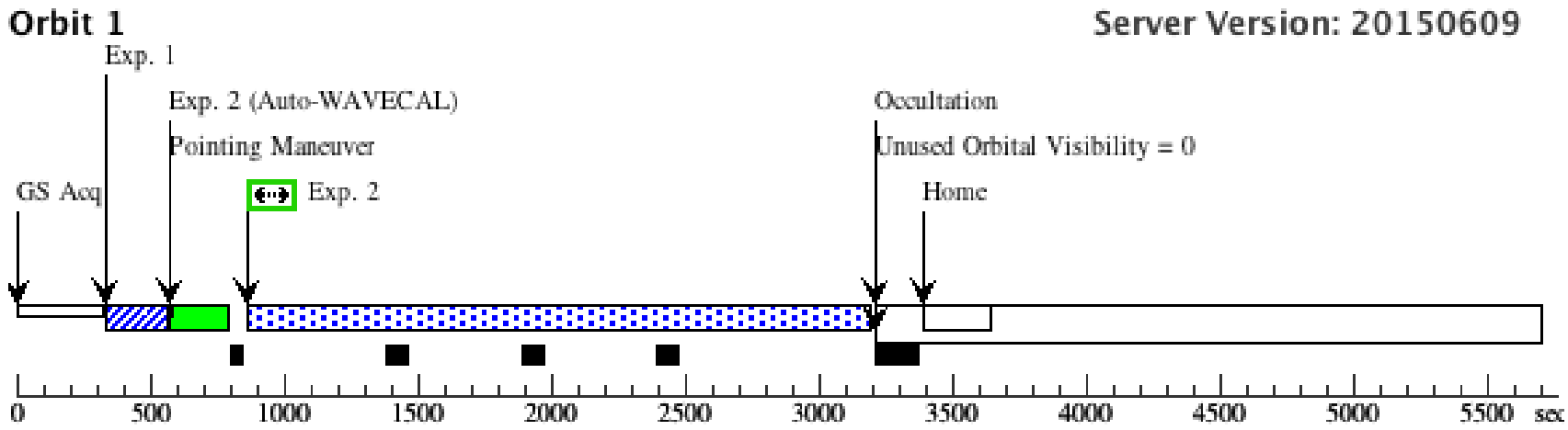
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(11)	WD0553+053	RA: 05 56 25.0032 (89.1041800d) Dec: +05 21 34.58 (5.35961d) Equinox: J2000	Proper Motion RA: -0.434 arcsec/yr Proper Motion Dec: -0.931 arcsec/yr Epoch of Position: 2015.0481	V=14.16+/-0.03	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD0553+053 Acq (STIS.ta.717540)	(11) WD0553+053	STIS/CCD, ACQ, F28X50LP	MIRROR				0.2 Secs (0.2 Secs) *[==>]*	 ***[1]***
2	WD0553+053 STIS G230L (STIS.sp.717541)	(11) WD0553+053	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=500			2293 Secs (2293 Secs) *[==>]*	 ***[1]***

Orbit Structure



Visit

Proposal 14076, WD0727+482AB STIS G230L (13), completed Sun Jan 24 02:02:03 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: ORIENT 15.9D TO 25.9 D; ORIENT 195.9D TO 205.9 D

Comments: This is a close white dwarf + white dwarf binary, with a projected orbital separation of ~0.7", and a period of ~19 years. This binary is monitored with HST/FGS for more than a decade (PI Howard Bond). The aim of this visit should be observe both white dwarfs simultanesoulsy by acquiring the binary along the cross-dispersion direction on the 52x2 slit.

12 Sep 2015:
J. Farihi has updated the roll angle so that there is a good chance to get both stars on the STIS slit; Ed Nelan and Gail Schaefer have provided a detailed, month by month ephemeris for the binary over cycle 23. The only viable scheduling period is during a 10 day window in January(!).

ORIENT required to avoid diffraction spikes of primary. Target is expected at PA=335.9 deg on 2016 Jan 12 (middle of 10-day window), and thus optimal slit alignment is 335.9 deg, and U3 axis at 20.9 deg or 200.9 deg

11 Nov 2015: Removed "on hold" flag, as Jay already implemented the PA constraints.

Fixed Targets

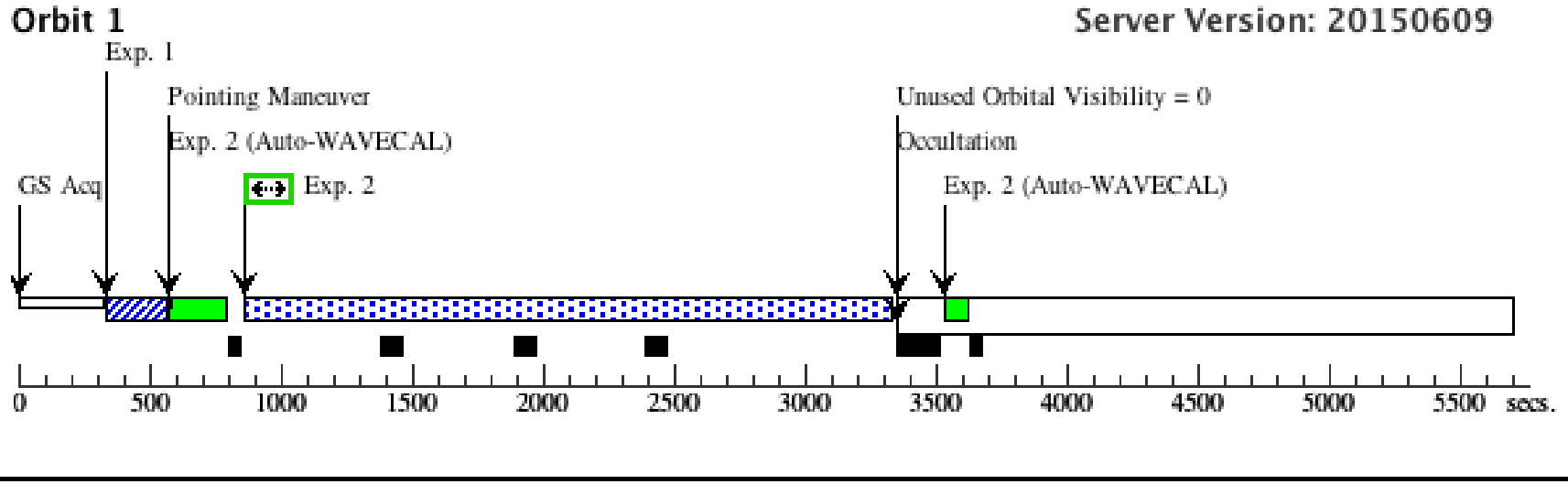
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(12)	WD0727+482	RA: 07 30 46.9988 (112.6958283d) Dec: +48 10 7.44 (48.16873d) Equinox: J2000	Proper Motion RA: -0.225 arcsec/yr Proper Motion Dec: -1.267 arcsec/yr Epoch of Position: 2015.0455	V=15.26+/-0.03	Reference Frame: ICRS

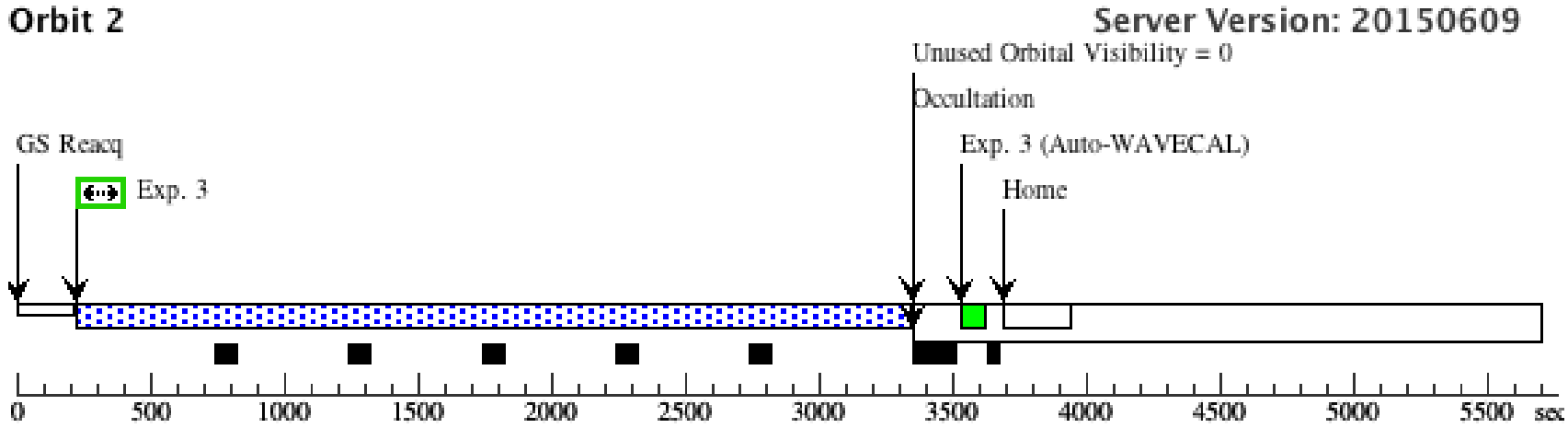
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD0727+482AB Acq (STIS.ta.717545)	(12) WD0727+482	STIS/CCD, ACQ, F28X50LP	MIRROR				0.3 Secs (0.3 Secs) *[==>]*	***[1]***
2	WD0727+482AB STIS G230L (STIS.sp.717544)	(12) WD0727+482	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=500			2432 Secs (2432 Secs) *[==>]*	***[1]***
3	WD0727+482AB STIS G230L (STIS.sp.717544)	(12) WD0727+482	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=500			3077 Secs (3077 Secs) *[==>]*	***[2]***

Orbit Structure





Visit

Proposal 14076, WD0752-676 STIS G230L (14), completed Sun Jan 24 02:02:03 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

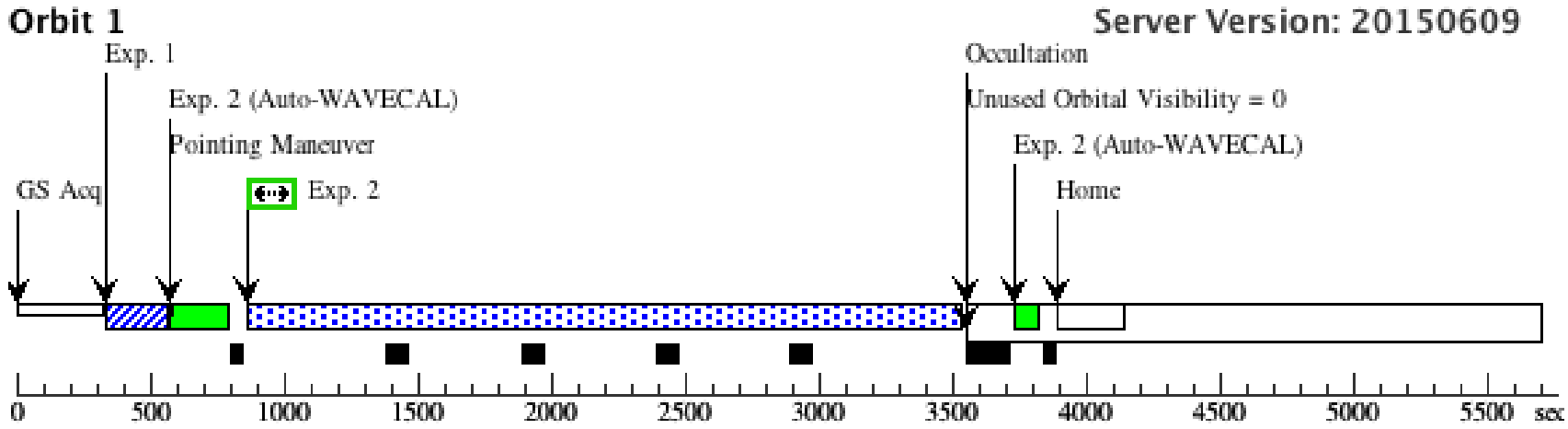
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(13)	WD0752-676	RA: 07 53 12.0275 (118.3001146d) Dec: -67 47 53.80 (-67.79828d) Equinox: J2000	Proper Motion RA: 1.477 arcsec/yr Proper Motion Dec: -1.488 arcsec/yr Epoch of Position: 2014.9279	V=13.95+/-0.03 GALEX NUV=18.96+/-0.08	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD0752-676 Acq (STIS.ta.717549)	(13) WD0752-676	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	*[1]*
2	WD0752-676 STIS G230L (STIS.sp.717550)	(13) WD0752-676	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=500			2636 Secs (2636 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14076, WD0821-669 STIS G230L (15), scheduling Sun Jan 24 02:02:03 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

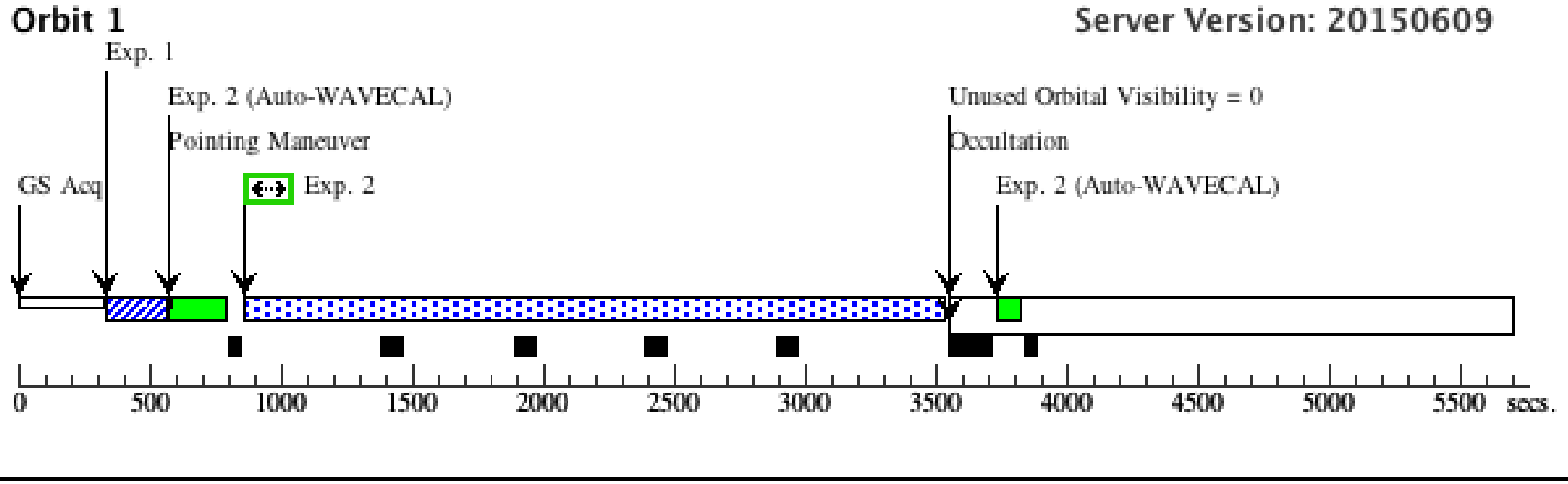
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(14)	WD0821-669	RA: 08 21 25.6944 (125.3570600d) Dec: -67 03 10.18 (-67.05283d) Equinox: J2000	Proper Motion RA: -0.387 arcsec/yr Proper Motion Dec: 0.655 arcsec/yr Epoch of Position: 2015.0699	V=15.34+/-0.03 GALEX NUV=22.07+/-0.42	Reference Frame: ICRS

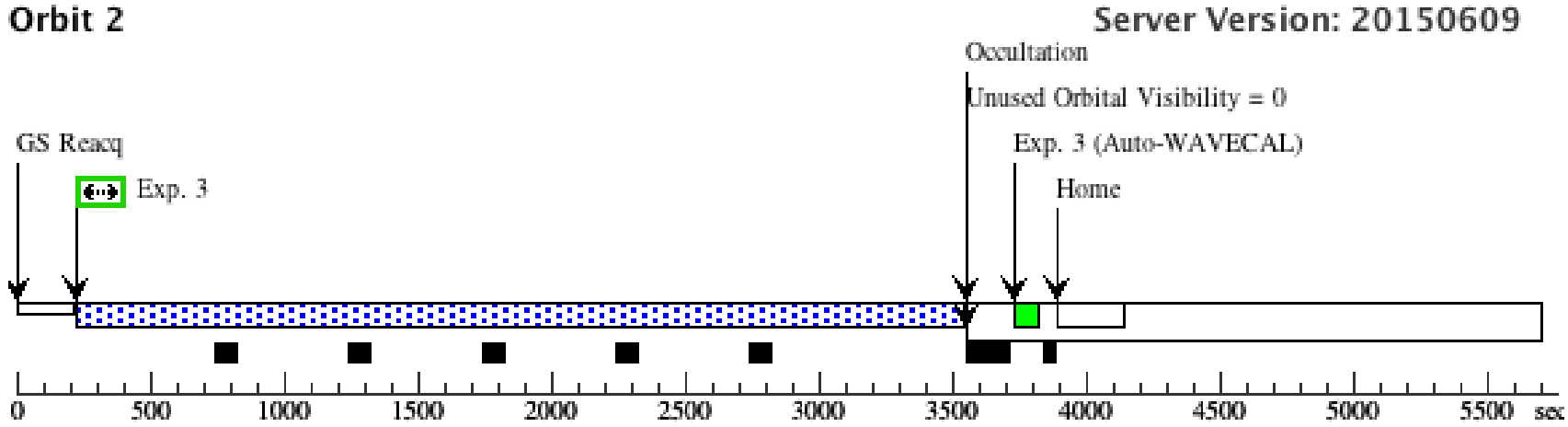
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD0821-669 Acq (STIS.ta.717552)	(14) WD0821-669	STIS/CCD, ACQ, F28X50LP	MIRROR				0.4 Secs (0.4 Secs) *[==>]*	***[1]***
2	WD0821-669 STIS G230L (STIS.sp.717553)	(14) WD0821-669	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=500			2636 Secs (2636 Secs) *[==>]*	***[1]***
3	WD0821-669 STIS G230L (STIS.sp.717553)	(14) WD0821-669	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=500			3281 Secs (3281 Secs) *[==>]*	***[2]***

Orbit Structure





Visit

Proposal 14076, WD0839-327 STIS G230L (16), scheduling Sun Jan 24 02:02:03 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

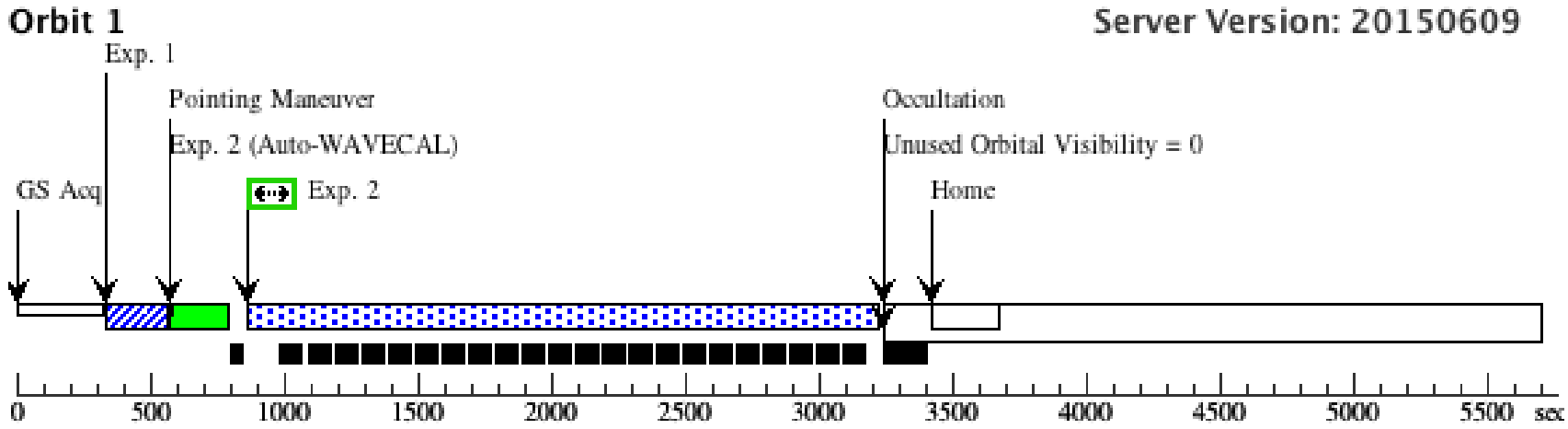
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(15)	WD0839-327	RA: 08 41 31.1404 (130.3797517d) Dec: -32 56 12.33 (-32.93676d) Equinox: J2000	Proper Motion RA: -1.046 arcsec/yr Proper Motion Dec: 1.348 arcsec/yr Epoch of Position: 2015.302	V=11.86+/-0.03 F(1800A)=1e-13erg/cm2/s/A (IUE SWP17286)	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD0839-327 Acq (STIS.ta.717554)	(15) WD0839-327	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	*[1]*
2	WD0839-327 STIS G230L (STIS.sp.717555)	(15) WD0839-327	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=100			2325 Secs (2325 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14076, WD0839-327 COS G140L (17), scheduled Sun Jan 24 02:02:03 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV

Special Requirements: (none)

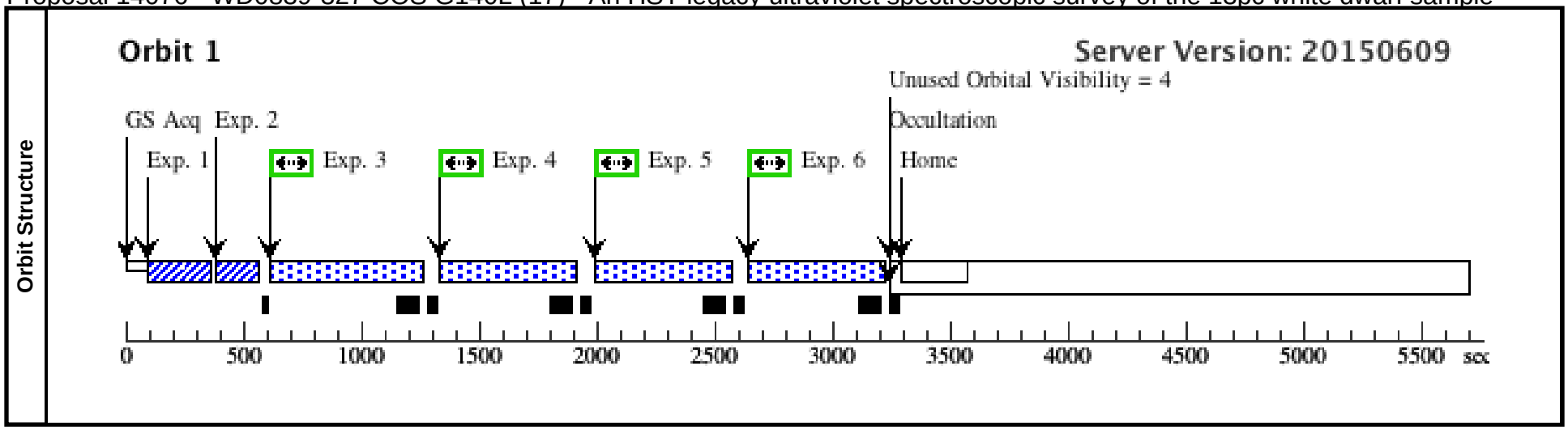
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(15)	WD0839-327	RA: 08 41 31.1404 (130.3797517d) Dec: -32 56 12.33 (-32.93676d) Equinox: J2000	Proper Motion RA: -1.046 arcsec/yr Proper Motion Dec: 1.348 arcsec/yr Epoch of Position: 2015.302	V=11.86+/-0.03 F(1800A)=1e-13erg/cm2/s/A (IUE SWP17286)	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD0839-327 COS Acq (COS.sa.726344)	(15) WD0839-327	COS/FUV, ACQ/PEAKXD, PSA	G140L 1105 A				6.5 Secs (6.5 Secs) *[==>]*	*[1]*
2	WD0839-327 COS Acq (COS.sa.726344)	(15) WD0839-327	COS/FUV, ACQ/PEAKD, PSA	G140L 1105 A	STEP-SIZE=0.9; CENTER=DEF; NUM-POS=5			6.5 Secs (6.5 Secs) *[==>]*	*[1]*
3	WD0839-327 COS G140L (COS.sp.717556)	(15) WD0839-327	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=430; FP-POS=1			530 Secs (530 Secs) *[==>]*	*[1]*
4	WD0839-327 COS G140L (COS.sp.717556)	(15) WD0839-327	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=430; FP-POS=2			530 Secs (530 Secs) *[==>]*	*[1]*
5	WD0839-327 COS G140L (COS.sp.717556)	(15) WD0839-327	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=430; FP-POS=3			529 Secs (529 Secs) *[==>]*	*[1]*
6	WD0839-327 COS G140L (COS.sp.717556)	(15) WD0839-327	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=430; FP-POS=4			529 Secs (529 Secs) *[==>]*	*[1]*


Orbit Structure
Orbit 1
Server Version: 20150609
Unused Orbital Visibility = 4
GS Acq
Exp. 2
Occultation
Exp. 1
Exp. 3
Exp. 4
Exp. 5
Exp. 6
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14076, WD0912+536 STIS G230L (18), completed Sun Jan 24 02:02:04 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

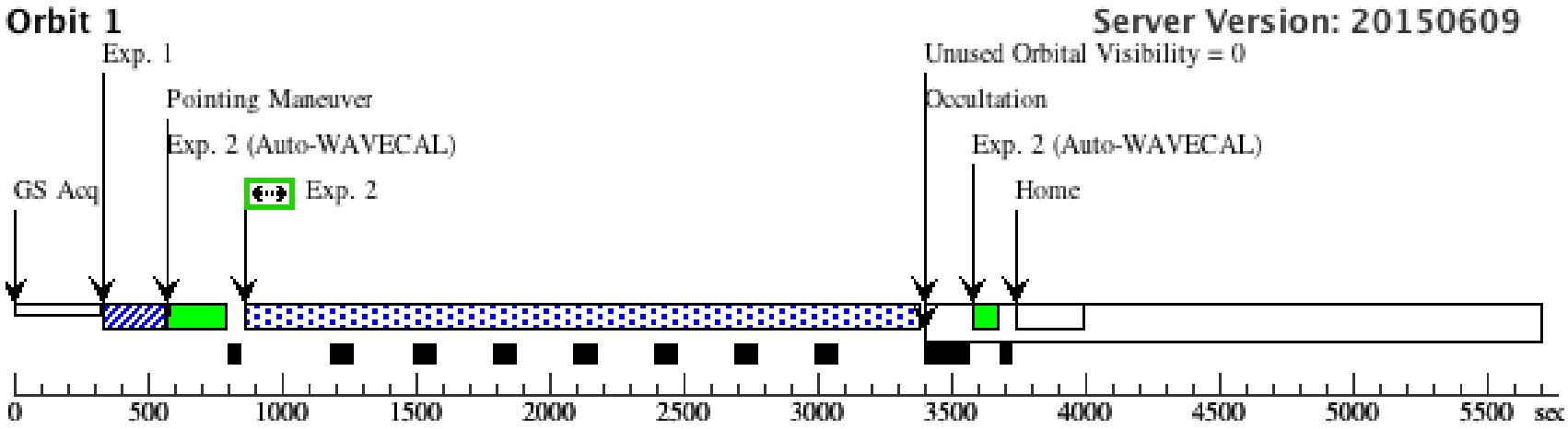
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(16)	WD0912+536	RA: 09 15 54.2572 (138.9760717d) Dec: +53 25 7.09 (53.41864d) Equinox: J2000	Proper Motion RA: -1.091 arcsec/yr Proper Motion Dec: -1.127 arcsec/yr Epoch of Position: 2015.1987	V=13.84+/-0.03 GALEX FUV=18.98+/-0.02 GA LEX NUV=16.096+/-0.004	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD0912+536 Acq (STIS.ta.717557)	(16) WD0912+536	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	 ***[1]***
2	WD0912+536 STIS G230L (STIS.sp.717558)	(16) WD0912+536	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=300			2483 Secs (2483 Secs) *[==>]*	 ***[1]***

Orbit Structure



Visit

Proposal 14076, WD0912+536 COS G140L (19), failed Sun Jan 24 02:02:04 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Comments: 11/11/2015: changed label of the visit and exposures in the visit, as there was a typo in the WD number.

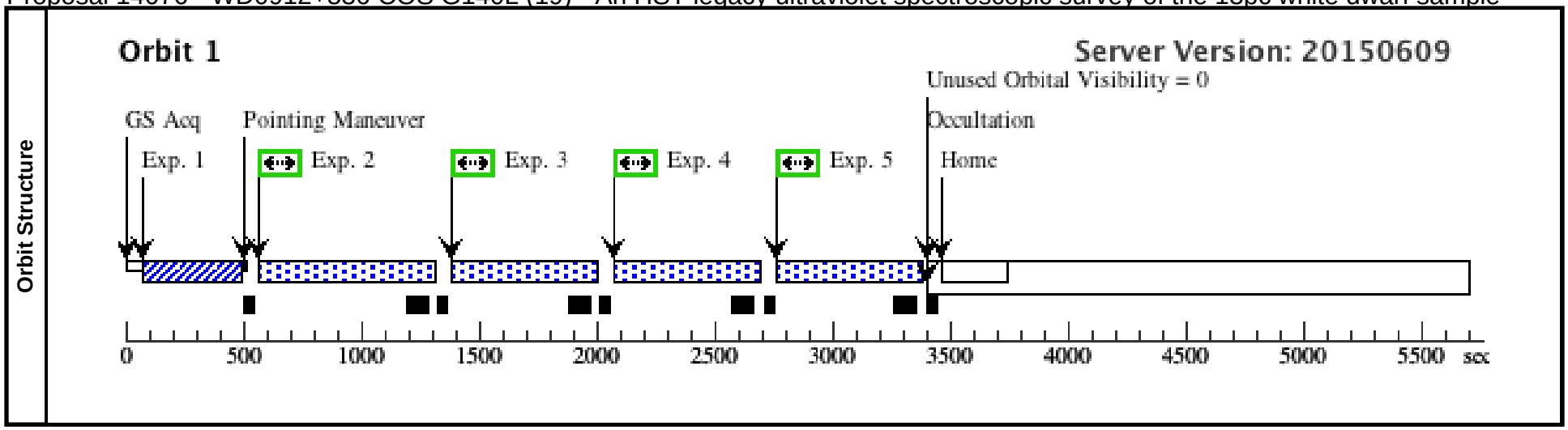
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(16)	WD0912+536	RA: 09 15 54.2572 (138.9760717d) Dec: +53 25 7.09 (53.41864d) Equinox: J2000	Proper Motion RA: -1.091 arcsec/yr Proper Motion Dec: -1.127 arcsec/yr Epoch of Position: 2015.1987	V=13.84+/-0.03 GALEX FUV=18.98+/-0.02 GALEX NUV=16.096+/-0.004	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD0912+536 COS Acq (COS.ta.727381)	(16) WD0912+536	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				50 Secs (50 Secs) *[==>]*	***[1]***
2	WD0912+536 COS G140L (COS.sp.717559)	(16) WD0912+536	COS/FUV, TIME-TAG, PSA	G140L 1105 A	FP-POS=1; BUFFER-TIME=464			568 Secs (568 Secs) *[==>]*	***[1]***
3	WD0912+536 COS G140L (COS.sp.717559)	(16) WD0912+536	COS/FUV, TIME-TAG, PSA	G140L 1105 A	FP-POS=2; BUFFER-TIME=464			568 Secs (568 Secs) *[==>]*	***[1]***
4	WD0912+536 COS G140L (COS.sp.717559)	(16) WD0912+536	COS/FUV, TIME-TAG, PSA	G140L 1105 A	FP-POS=3; BUFFER-TIME=464			568 Secs (568 Secs) *[==>]*	***[1]***
5	WD0912+536 COS G140L (COS.sp.717559)	(16) WD0912+536	COS/FUV, TIME-TAG, PSA	G140L 1105 A	FP-POS=4; BUFFER-TIME=464			568 Secs (568 Secs) *[==>]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20150609
Unused Orbital Visibility = 0
GS Acq
Pointing Maneuver
Occultation
Exp. 1
Exp. 2
Exp. 3
Exp. 4
Exp. 5
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14076, WD0912+536 COS G140L (Z9) Sun Jan 24 02:02:04 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Comments: This is a HOPR repeat of failed visit 19.

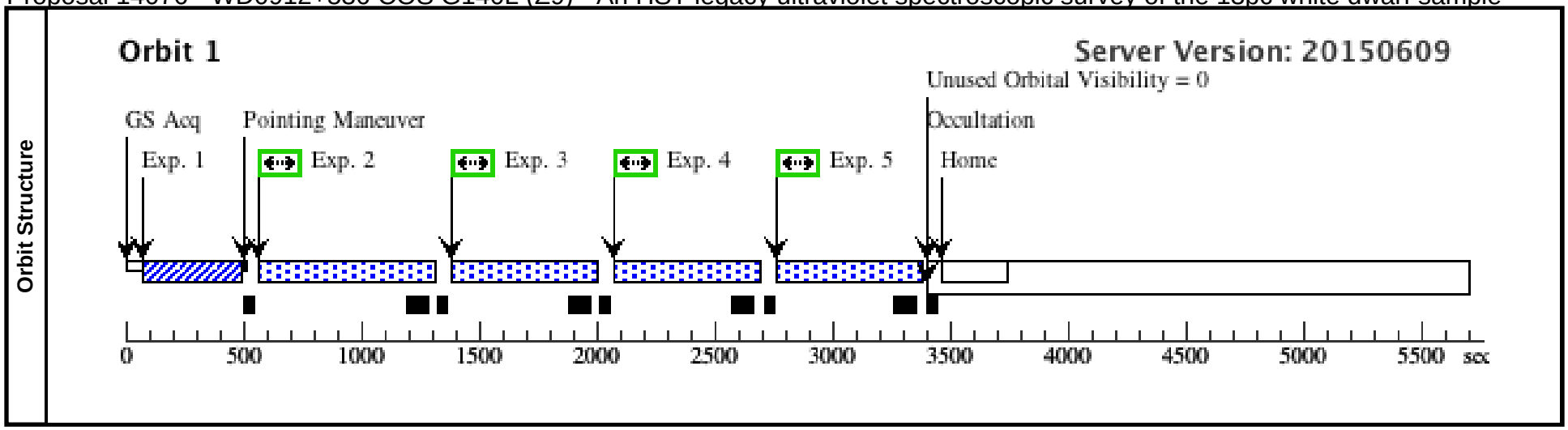
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(16)	WD0912+536	RA: 09 15 54.2572 (138.9760717d) Dec: +53 25 7.09 (53.41864d) Equinox: J2000	Proper Motion RA: -1.091 arcsec/yr Proper Motion Dec: -1.127 arcsec/yr Epoch of Position: 2015.1987	V=13.84+/-0.03 GALEX FUV=18.98+/-0.02 GALEX NUV=16.096+/-0.004	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD0912+536 COS Acq (COS.ta.727381)	(16) WD0912+536	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				50 Secs (50 Secs) *[==>]*	***[1]***
2	WD0912+536 COS G140L (COS.sp.717559)	(16) WD0912+536	COS/FUV, TIME-TAG, PSA	G140L 1105 A	FP-POS=1; BUFFER-TIME=464			568 Secs (568 Secs) *[==>]*	***[1]***
3	WD0912+536 COS G140L (COS.sp.717559)	(16) WD0912+536	COS/FUV, TIME-TAG, PSA	G140L 1105 A	FP-POS=2; BUFFER-TIME=464			568 Secs (568 Secs) *[==>]*	***[1]***
4	WD0912+536 COS G140L (COS.sp.717559)	(16) WD0912+536	COS/FUV, TIME-TAG, PSA	G140L 1105 A	FP-POS=3; BUFFER-TIME=464			568 Secs (568 Secs) *[==>]*	***[1]***
5	WD0912+536 COS G140L (COS.sp.717559)	(16) WD0912+536	COS/FUV, TIME-TAG, PSA	G140L 1105 A	FP-POS=4; BUFFER-TIME=464			568 Secs (568 Secs) *[==>]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20150609
Unused Orbital Visibility = 0
GS Acq
Pointing Maneuver
Occultation
Exp. 1
Exp. 2
Exp. 3
Exp. 4
Exp. 5
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14076, WD1055-072 STIS G230L (20), scheduled Sun Jan 24 02:02:04 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

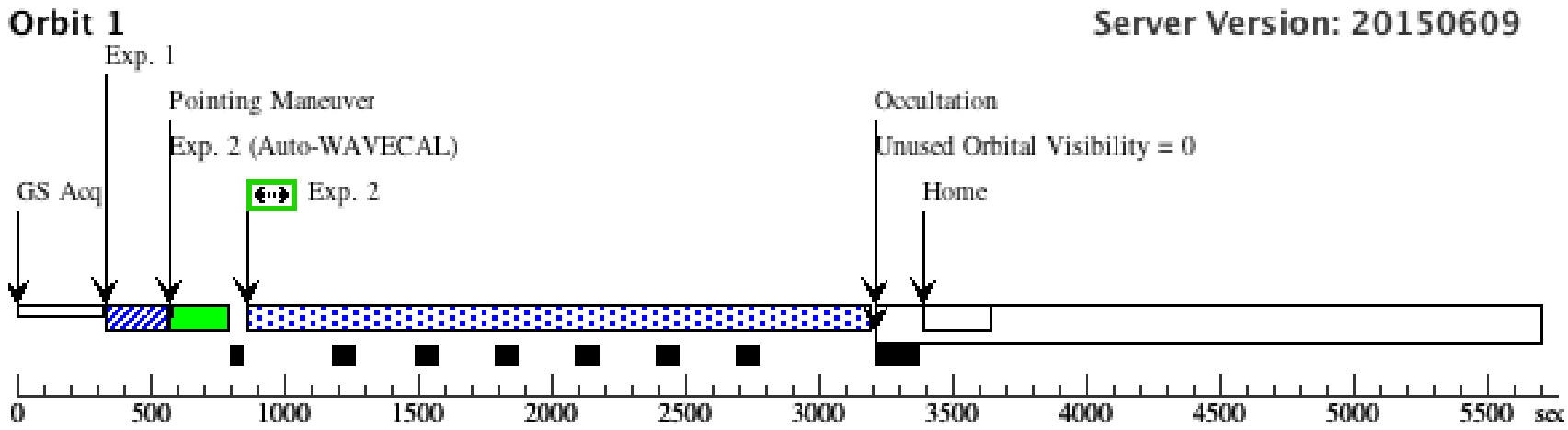
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(17)	WD1055-072	RA: 10 57 34.3500 (164.3931250d) Dec: -07 31 21.82 (-7.52273d) Equinox: J2000	Proper Motion RA: -0.822 arcsec/yr Proper Motion Dec: 0.091 arcsec/yr Epoch of Position: 2014.257	V=14.33+/-0.03 F(2800A)=8e-14erg/cm2/s/A (IUE: LWP08043)	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD1055-072 Acq (STIS.ta.717561)	(17) WD1055-072	STIS/CCD, ACQ, F28X50LP	MIRROR				0.2 Secs (0.2 Secs) *[==>]*	 ***[1]***
2	WD1055-072 STIS G230L (STIS.sp.717562)	(17) WD1055-072	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=300			2293 Secs (2293 Secs) *[==>]*	 ***[1]***

Orbit Structure



Visit

Proposal 14076, WD1121+216 STIS G230L (21), scheduling Sun Jan 24 02:02:04 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

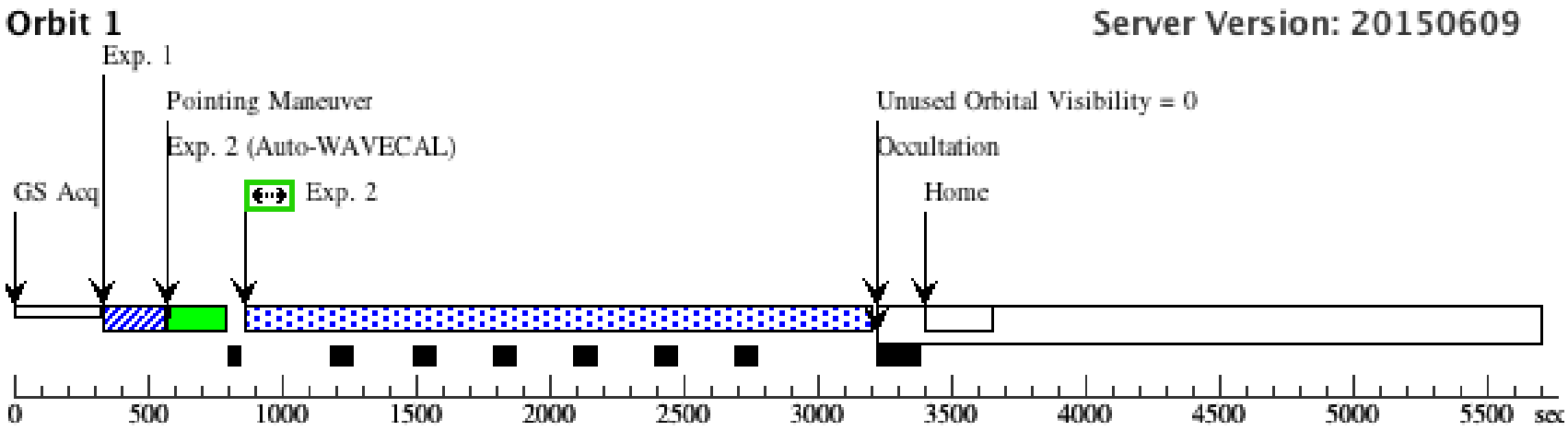
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(18)	WD1121+216	RA: 11 24 11.8632 (171.0494300d) Dec: +21 21 35.45 (21.35985d) Equinox: J2000	Proper Motion RA: -1.041 arcsec/yr Proper Motion Dec: -0.019 arcsec/yr Epoch of Position: 2015.2071	V=14.21+/-0.03 GALEX FUV=21.24+/-0.24 GA LEX NUV=16.21+/-0.01	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD1121+216 Acq (STIS.ta.717641)	(18) WD1121+216	STIS/CCD, ACQ, F28X50LP	MIRROR				0.2 Secs (0.2 Secs) *[==>]*	 ***[1]***
2	WD1121+216 STIS G230L (STIS.sp.717642)	(18) WD1121+216	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=300			2302 Secs (2302 Secs) *[==>]*	 ***[1]***

Orbit Structure



Visit

Proposal 14076, WD1142-645 STIS G230L (22), implementation Sun Jan 24 02:02:04 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(19)	WD1142-645	RA: 11 45 49.3206 (176.4555025d) Dec: -64 50 34.86 (-64.84302d) Equinox: J2000	Proper Motion RA: 2.67 arcsec/yr Proper Motion Dec: -0.351 arcsec/yr Epoch of Position: 2015.3925	V=11.49+/-0.03 F(1800A)=8e-14erg/cm2/s/A (IUE: SWP50283)	Reference Frame: ICRS

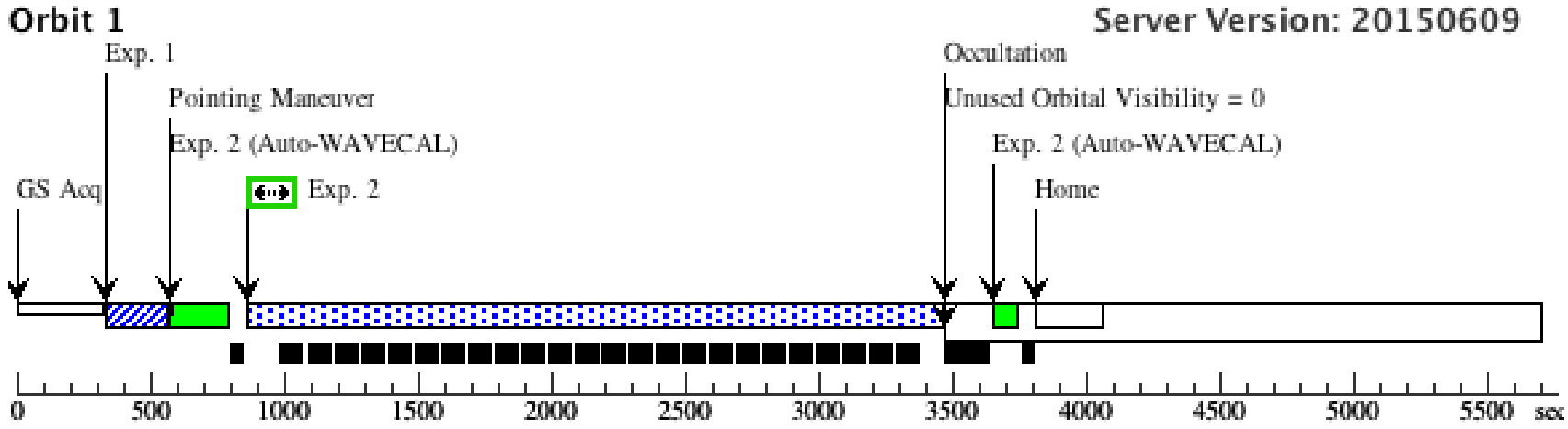
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD1142-645 Acq (STIS.ta.717738)	(19) WD1142-645	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	*[1]*
2	WD1142-645 STIS G230L (STIS.sp.752499)	(19) WD1142-645	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=100			2558 Secs (2558 Secs) *[==>]*	*[1]*

Comments: 11/11/2015: The buffer time estimated from the ETC is ~120s, which is only 20% above the minimum buffer time for uninterrupted observations. I re-ran the ETC calculation, and check the available IUE spectra (LWR06454, LWR06455, LWP27752), which are consistent with the model used as ETC input, maybe even a few % lower. Thus, let's stick to the TIME-TAG mode, as we should have 20% headroom.

Orbit Structure



Visit

Proposal 14076, WD1142-645 COS G140L (23), completed Sun Jan 24 02:02:04 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

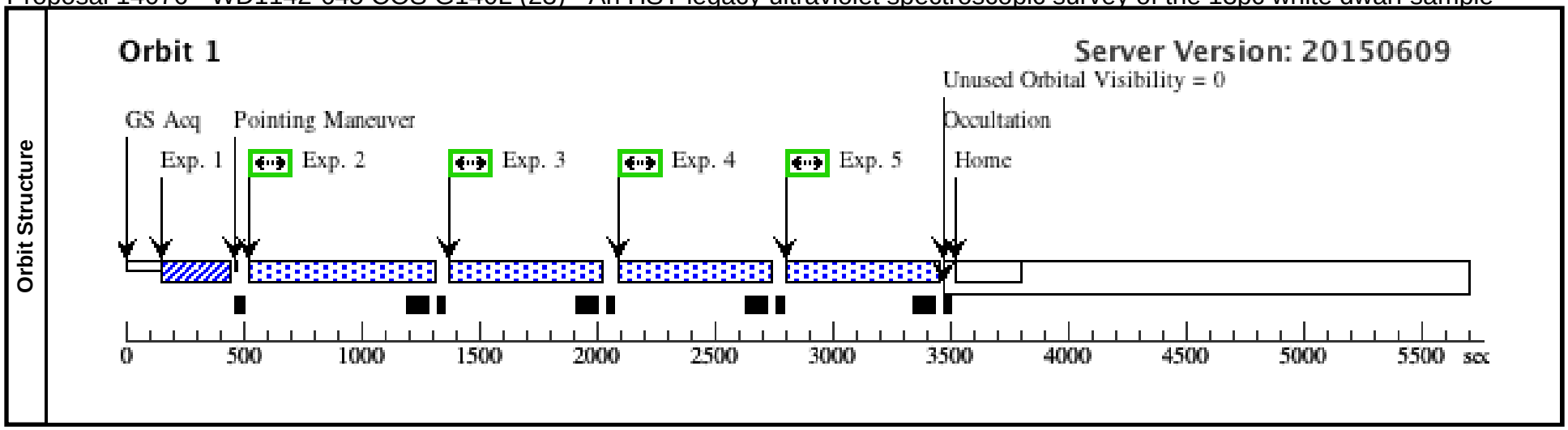
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(19)	WD1142-645	RA: 11 45 49.3206 (176.4555025d) Dec: -64 50 34.86 (-64.84302d) Equinox: J2000	Proper Motion RA: 2.67 arcsec/yr Proper Motion Dec: -0.351 arcsec/yr Epoch of Position: 2015.3925	V=11.49+/-0.03 F(1800A)=8e-14erg/cm2/s/A (IUE: SWP50283)	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD1142-645 COS Acq (COS.ta.727444)	(19) WD1142-645	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				30 Secs (30 Secs) *[==>]*	*[1]*
2	WD1142-645 COS G140L (COS.sp.717745)	(19) WD1142-645	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=502; FP-POS=1			602 Secs (602 Secs) *[==>]*	*[1]*
3	WD1142-645 COS G140L (COS.sp.717745)	(19) WD1142-645	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=502; FP-POS=2			602 Secs (602 Secs) *[==>]*	*[1]*
4	WD1142-645 COS G140L (COS.sp.717745)	(19) WD1142-645	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=502; FP-POS=3			602 Secs (602 Secs) *[==>]*	*[1]*
5	WD1142-645 COS G140L (COS.sp.717745)	(19) WD1142-645	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=502; FP-POS=4			602 Secs (602 Secs) *[==>]*	*[1]*


Orbit Structure
Orbit 1
Server Version: 20150609
Unused Orbital Visibility = 0
GS Acq
Pointing Maneuver
Occultation
Exp. 1
Exp. 2
Exp. 3
Exp. 4
Exp. 5
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14076, WD1202-232 STIS G230L (24), scheduling Sun Jan 24 02:02:04 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

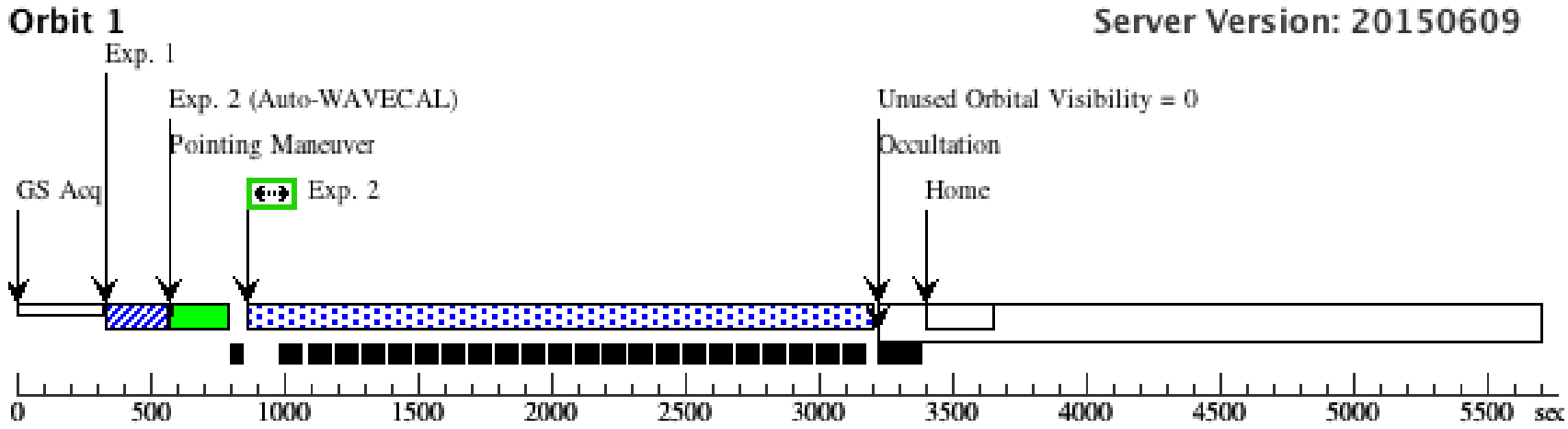
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(20)	WD1202-232	RA: 12 05 26.7293 (181.3613721d) Dec: -23 33 8.77 (-23.55244d) Equinox: J2000	Proper Motion RA: 0.076 arcsec/yr Proper Motion Dec: 0.234 arcsec/yr Epoch of Position: 2015.3161	V=12.8+/-0.03 GALEX FUV=18.32+/-0.08 GA LEX NUV=14.181+/-0.005	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD1202-232 Acq (STIS.ta.720445)	(20) WD1202-232	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	*[1]*
2	WD1202-232 STIS G230L (STIS.sp.720446)	(20) WD1202-232	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=100			2302 Secs (2302 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14076, WD1202-232 COS G140L (25), completed Sun Jan 24 02:02:04 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV

Special Requirements: (none)

Fixed Targets

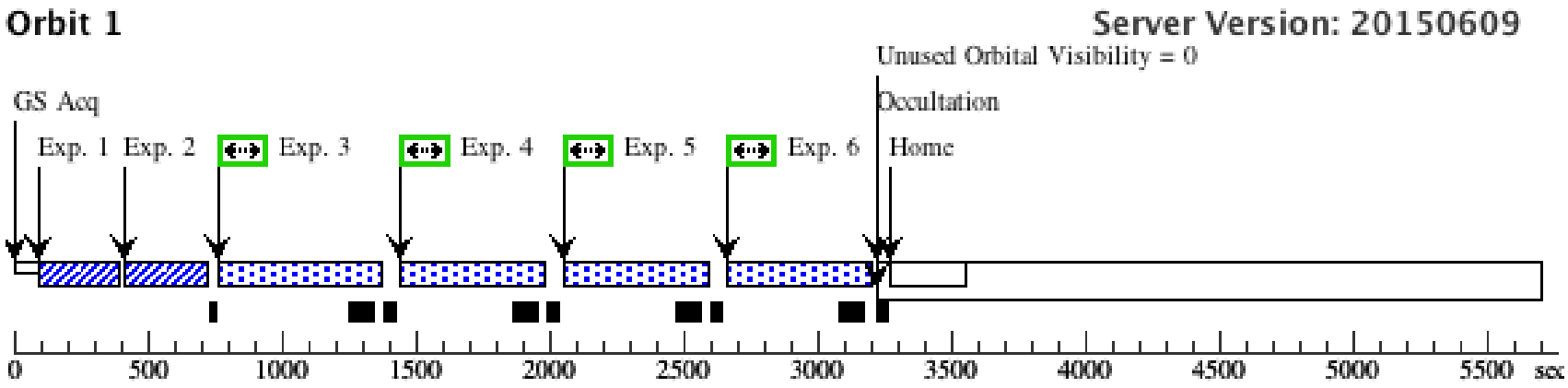
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(20)	WD1202-232	RA: 12 05 26.7293 (181.3613721d) Dec: -23 33 8.77 (-23.55244d) Equinox: J2000	Proper Motion RA: 0.076 arcsec/yr Proper Motion Dec: 0.234 arcsec/yr Epoch of Position: 2015.3161	V=12.8+/-0.03 GALEX FUV=18.32+/-0.08 GALEX NUV=14.181+/-0.005	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD1202-232 COS Acq (COS.sa.727463)	(20) WD1202-232	COS/FUV, ACQ/PEAKXD, PSA	G140L 1105 A				32 Secs (32 Secs) *[==>]*	*[1]*
2	WD1202-232 COS Acq (COS.sa.727463)	(20) WD1202-232	COS/FUV, ACQ/PEAKD, PSA	G140L 1105 A	STEP-SIZE=0.9; CENTER=DEF; NUM-POS=5			32 Secs (32 Secs) *[==>]*	*[1]*
3	WD1202-232 COS G140L (COS.sp.720455)	(20) WD1202-232	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=386; FP-POS=1			486 Secs (486 Secs) *[==>]*	*[1]*
4	WD1202-232 COS G140L (COS.sp.720455)	(20) WD1202-232	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=386; FP-POS=2			486 Secs (486 Secs) *[==>]*	*[1]*
5	WD1202-232 COS G140L (COS.sp.720455)	(20) WD1202-232	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=386; FP-POS=3			486 Secs (486 Secs) *[==>]*	*[1]*
6	WD1202-232 COS G140L (COS.sp.720455)	(20) WD1202-232	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=386; FP-POS=4			489 Secs (489 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14076, WD1334+039 STIS G230L (26), implementation Sun Jan 24 02:02:04 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

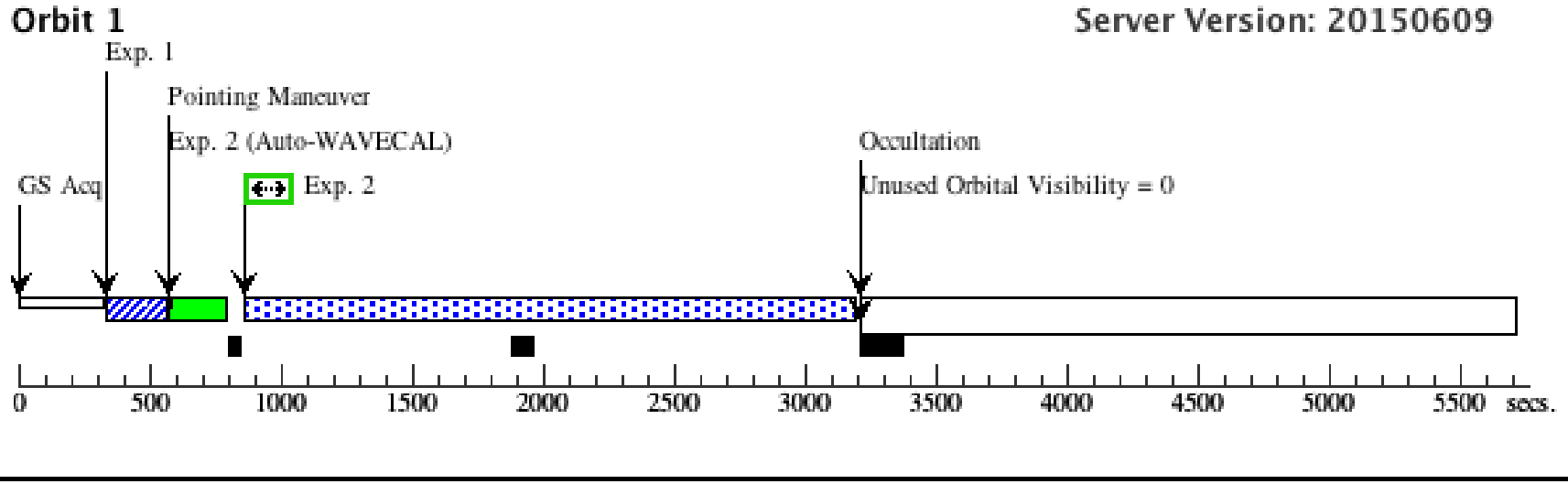
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(21)	WD1334+039	RA: 13 36 28.0692 (204.1169550d) Dec: +03 40 29.48 (3.67486d) Equinox: J2000	Proper Motion RA: -3.706 arcsec/yr Proper Motion Dec: -1.149 arcsec/yr Epoch of Position: 2015.2074	V=14.63+/-0.03 GALEX NUV=21.27+/-0.10	Reference Frame: ICRS

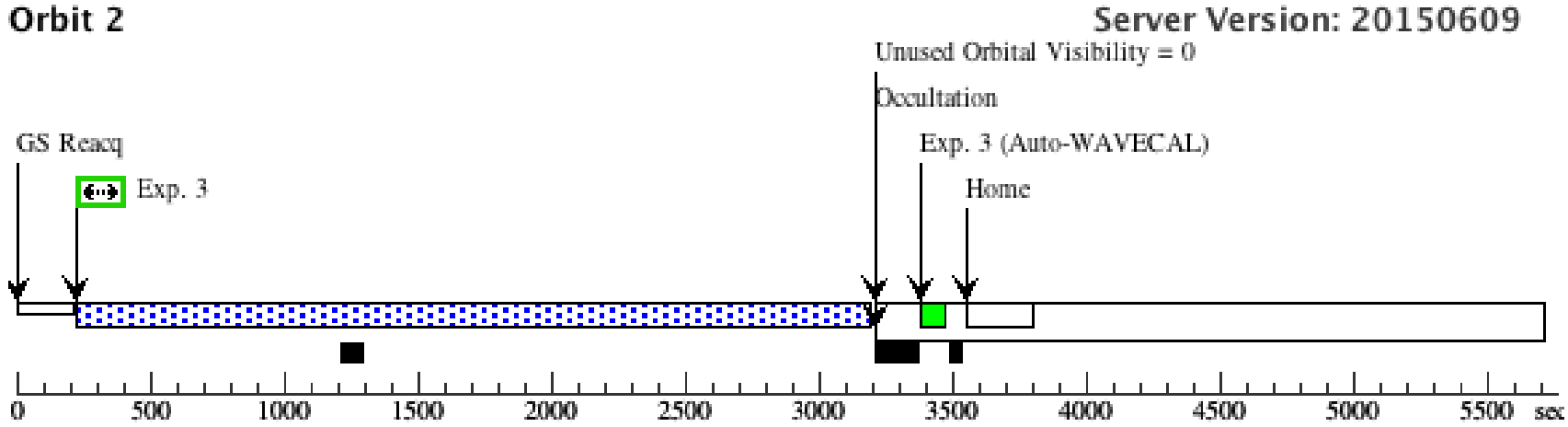
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD1334+039 Acq (STIS.ta.720488)	(21) WD1334+039	STIS/CCD, ACQ, F28X50LP	MIRROR				0.2 Secs (0.2 Secs) *[==>]*	***[1]***
2	WD1334+039 STIS G230L (STIS.sp.720492)	(21) WD1334+039	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=1000			2290 Secs (2290 Secs) *[==>]*	***[1]***
3	WD1334+039 STIS G230L (STIS.sp.720492)	(21) WD1334+039	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=1000			2960 Secs (2960 Secs) *[==>]*	***[2]***

Orbit Structure





Visit

Proposal 14076, WD1345+238 STIS G230L (27), implementation Sun Jan 24 02:02:04 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

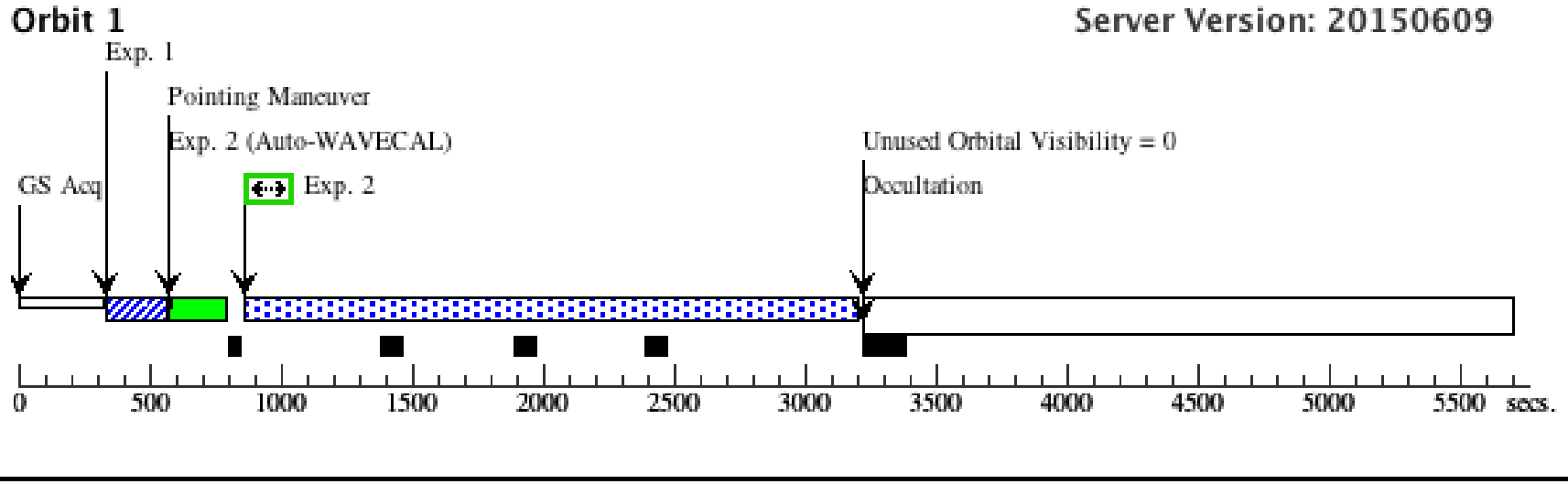
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(22)	WD1345+238	RA: 13 48 1.3824 (207.0057600d) Dec: +23 34 48.56 (23.58016d) Equinox: J2000	Proper Motion RA: -1.492 arcsec/yr Proper Motion Dec: 0.121 arcsec/yr Epoch of Position: 2015.191	V=15.71+/-0.03 GALEX NUV = 22.2+/-0.2	Reference Frame: ICRS

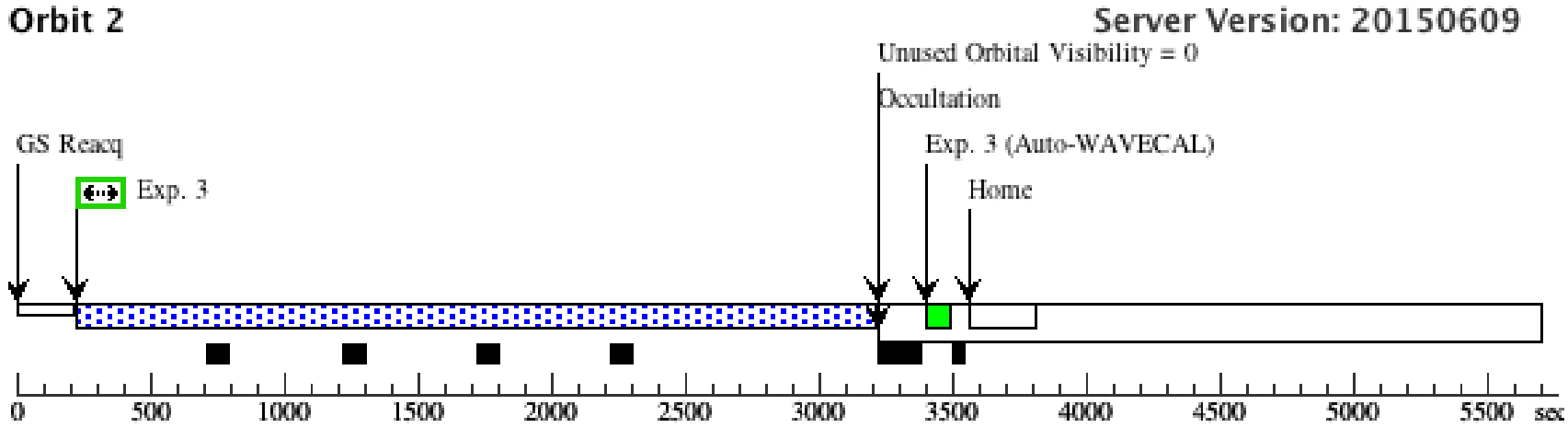
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD1345+238 Acq (STIS.ta.720499)	(22) WD1345+238	STIS/CCD, ACQ, F28X50LP	MIRROR		GS ACQ SCENARIO BASE1B3		0.4 Secs (0.4 Secs) *[==>]*	***[1]***
2	WD1345+238 STIS G230L (STIS.sp.720503)	(22) WD1345+238	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=500			2302 Secs (2302 Secs) *[==>]*	***[1]***
3	WD1345+238 STIS G230L (STIS.sp.720503)	(22) WD1345+238	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=500			2972 Secs (2972 Secs) *[==>]*	***[2]***

Orbit Structure





Visit

Proposal 14076, WD1620-391STIS E140M/E230M (28), implementation Sun Jan 24 02:02:04 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Comments: 11/11/2015: The central wavelength of the second E230M observation was switched to 2707A. Exposure times were adjusted to free up ~180sec for an Auto-WAVECAL for the second central wavelength.

Fixed Targets

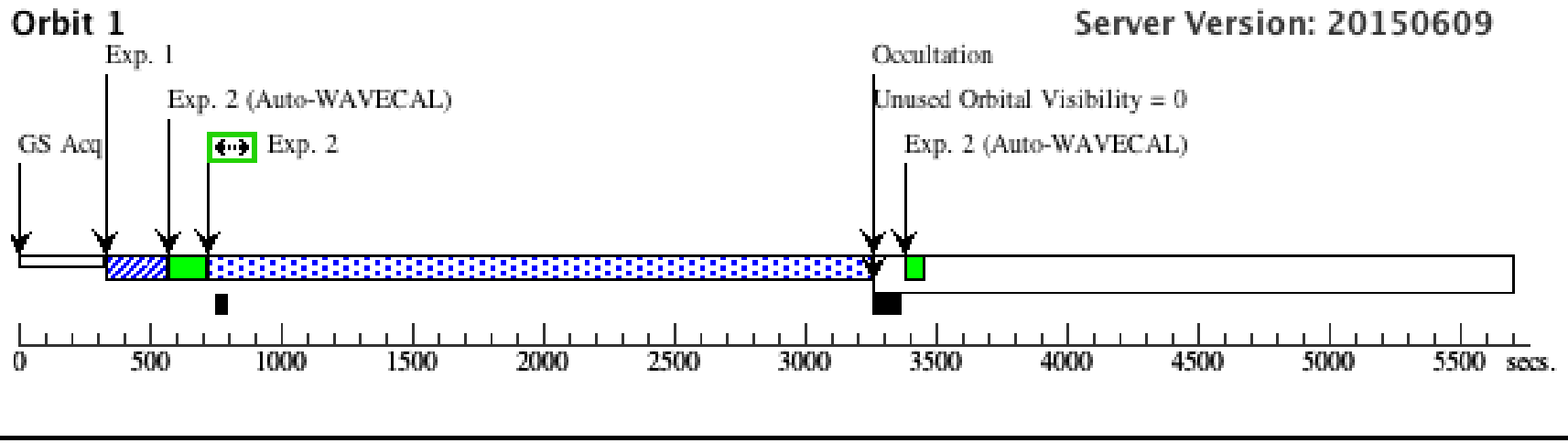
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(23)	WD1620-391	RA: 16 23 33.9322 (245.8913842d) Dec: -39 13 46.13 (-39.22948d) Equinox: J2000	Proper Motion RA: 0.076 arcsec/yr Proper Motion Dec: 0.001 arcsec/yr Epoch of Position: 2015.292	V=10.98+/-0.03 F(1280A)=3.5e-12/erg/cm2/s/A (HST: GHRS Z19Z010EM)	Reference Frame: ICRS

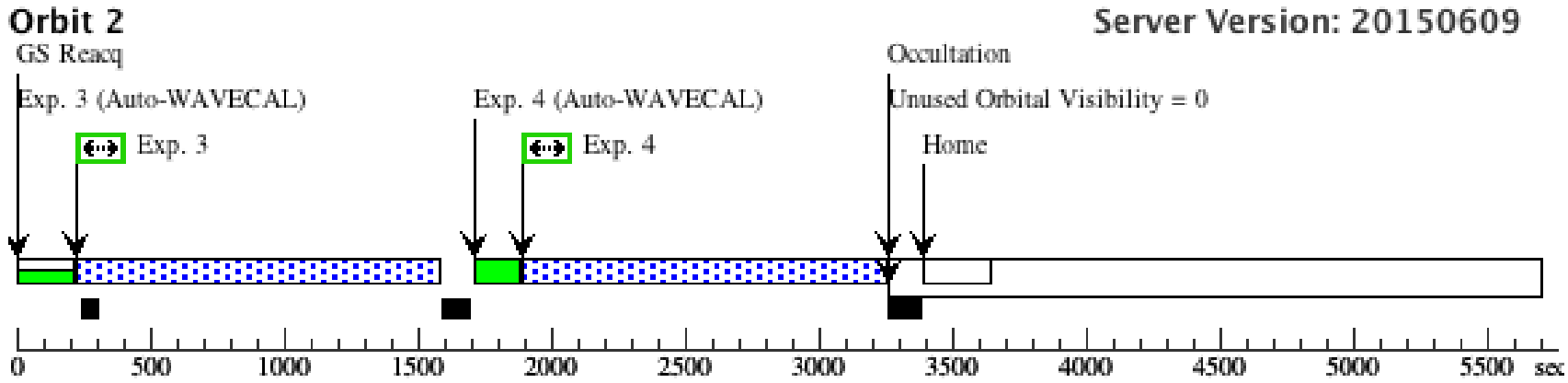
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD1620-391 Acq (STIS.ta.720689)	(23) WD1620-391	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	***[1]***
2	WD1620-391 STIS E140M (STIS.sp.720703)	(23) WD1620-391	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A				2511 Secs (2511 Secs) *[==>]*	***[1]***
3	WD1620-391 STIS E230M (STIS.sp.720700)	(23) WD1620-391	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 1978 A				1345 Secs (1345 Secs) *[==>]*	***[2]***
4	WD1620-391 STIS E230M (STIS.sp.720696)	(23) WD1620-391	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A				1345 Secs (1345 Secs) *[==>]*	***[2]***

Orbit Structure





Visit

Proposal 14076, WD1647+591 COS G130M/G160M (29), scheduling Sun Jan 24 02:02:04 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV

Special Requirements: (none)

Fixed Targets

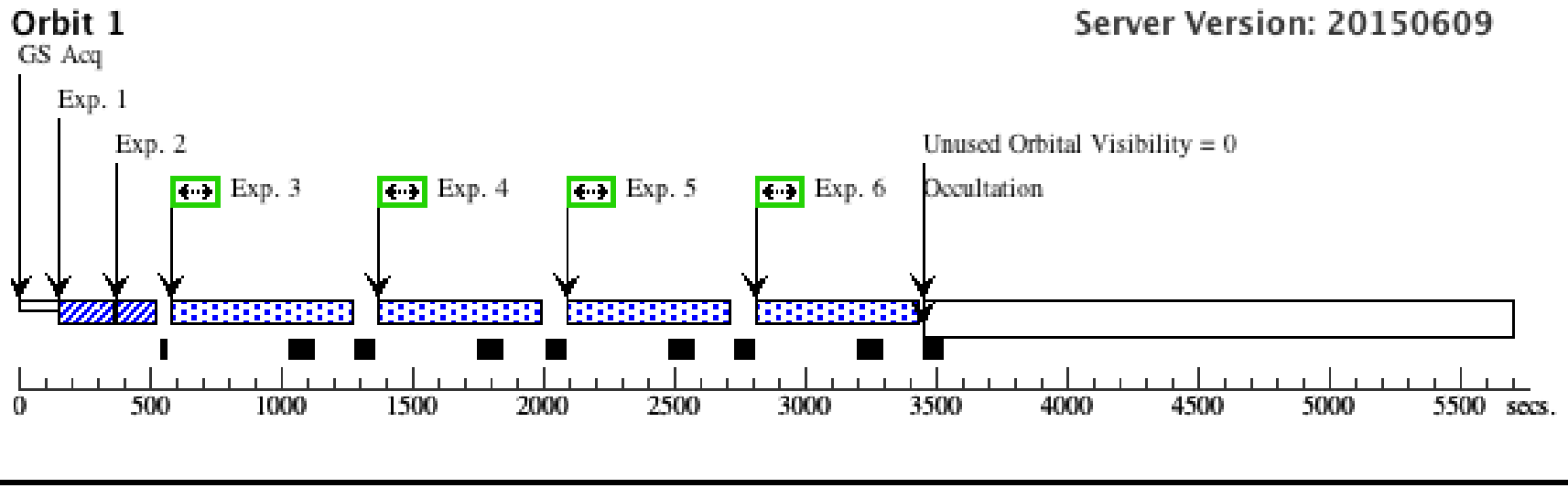
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(24)	WD1647+591	RA: 16 48 25.8836 (252.1078483d) Dec: +59 03 18.47 (59.05513d) Equinox: J2000	Proper Motion RA: 0.136 arcsec/yr Proper Motion Dec: -0.299 arcsec/yr Epoch of Position: 2014.334	V=12.24+/-0.03 GALEX FUV=13.608+/-0.005 GALEX NUV=13.383+/-0.003	Reference Frame: ICRS

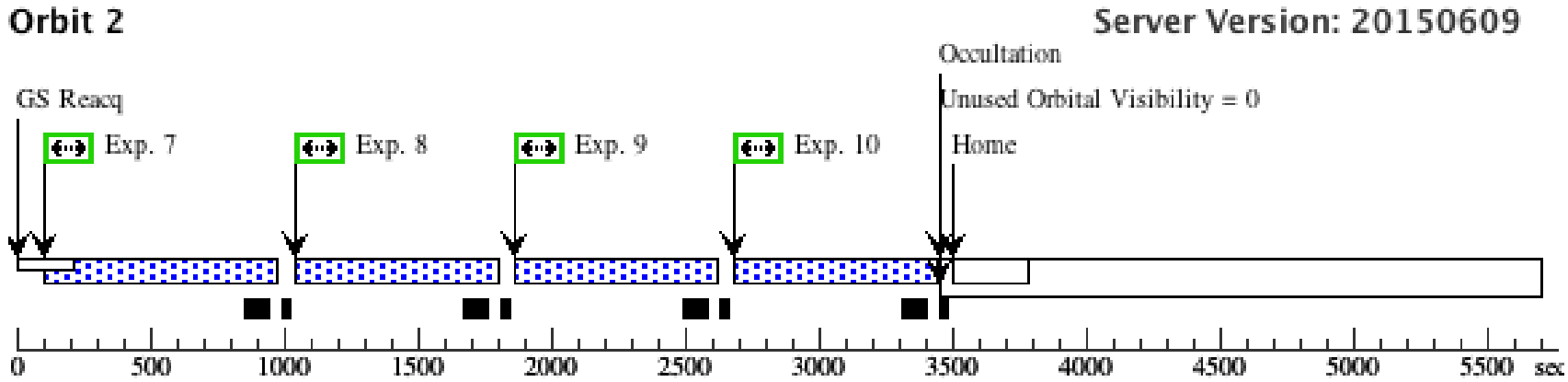
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD1647+591 COS Acq (COS.sa.727568)	(24) WD1647+591	COS/FUV, ACQ/PEAKXD, PSA	G160M 1600 A				1 Secs (1 Secs) *[==>]*	***[1]***
2	WD1647+591 COS Acq (COS.sa.727568)	(24) WD1647+591	COS/FUV, ACQ/PEAKD, PSA	G160M 1600 A	STEP-SIZE=0.9; CENTER=DEF; NUM-POS=5			1 Secs (1 Secs) *[==>]*	***[1]***
3	WD1647+591 COS G160M (COS.sp.727569)	(24) WD1647+591	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=350; FP-POS=1			570 Secs (570 Secs) *[==>]*	***[1]***
4	WD1647+591 COS G160M (COS.sp.727569)	(24) WD1647+591	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=350; FP-POS=2			570 Secs (570 Secs) *[==>]*	***[1]***
5	WD1647+591 COS G160M (COS.sp.727569)	(24) WD1647+591	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=350; FP-POS=3			570 Secs (570 Secs) *[==>]*	***[1]***
6	WD1647+591 COS G160M (COS.sp.727569)	(24) WD1647+591	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=350; FP-POS=4			570 Secs (570 Secs) *[==>]*	***[1]***
7	WD1647+591 COS G130M (COS.sp.727566)	(24) WD1647+591	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=598; FP-POS=1			706 Secs (706 Secs) *[==>]*	***[2]***
8	WD1647+591 COS G130M (COS.sp.727566)	(24) WD1647+591	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=598; FP-POS=2			706 Secs (706 Secs) *[==>]*	***[2]***
9	WD1647+591 COS G130M (COS.sp.727566)	(24) WD1647+591	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=598; FP-POS=3			706 Secs (706 Secs) *[==>]*	***[2]***
10	WD1647+591 COS G130M (COS.sp.727566)	(24) WD1647+591	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=598; FP-POS=4			705 Secs (705 Secs) *[==>]*	***[2]***

Orbit Structure





Visit

Proposal 14076, WD1748+708 STIS G230L (30), implementation Sun Jan 24 02:02:04 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

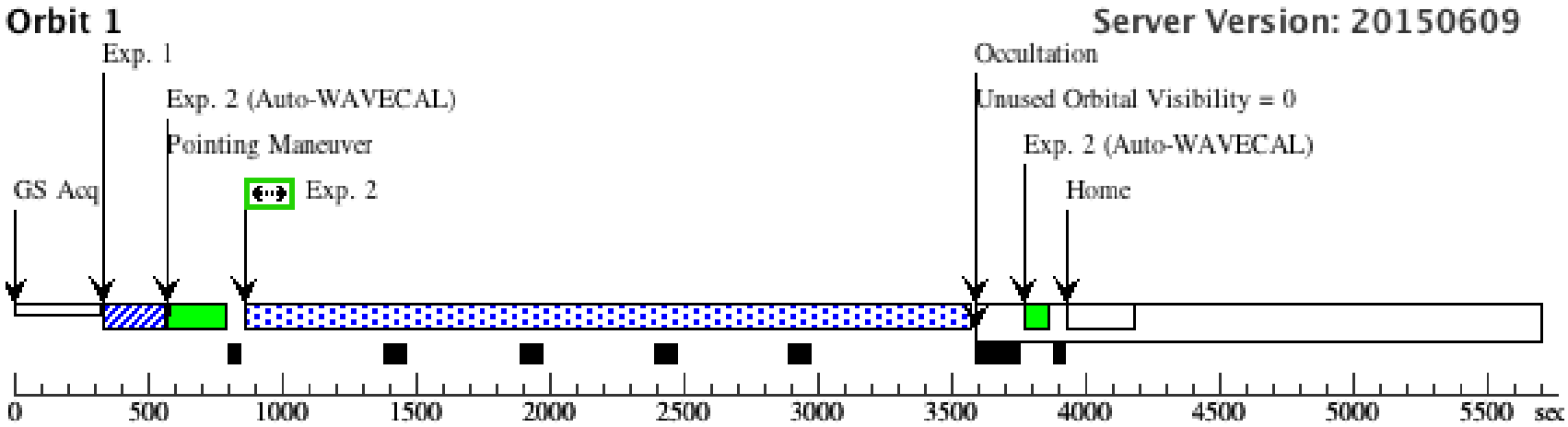
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(25)	WD1748+708	RA: 17 48 4.3194 (267.0179975d) Dec: +70 52 52.19 (70.88116d) Equinox: J2000	Proper Motion RA: -1.262 arcsec/yr Proper Motion Dec: 1.118 arcsec/yr Epoch of Position: 2014.3423	V=14.13+/-0.03 GALEX NUV = 18.61+/-0.05	Reference Frame: ICRS

Comments: 2015/11/16: updated the proper motions.
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD1748+708 Acq (STIS.ta.720528)	(25) WD1748+708	STIS/CCD, ACQ, F28X50LP	MIRROR				0.2 Secs (0.2 Secs) *[==>]*	*[1]*
2	WD1748+708 STIS G230L (STIS.sp.720531)	(25) WD1748+708	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=500			2676 Secs (2676 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14076, WD1900+705 STIS G230L (31), implementation Sun Jan 24 02:02:04 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

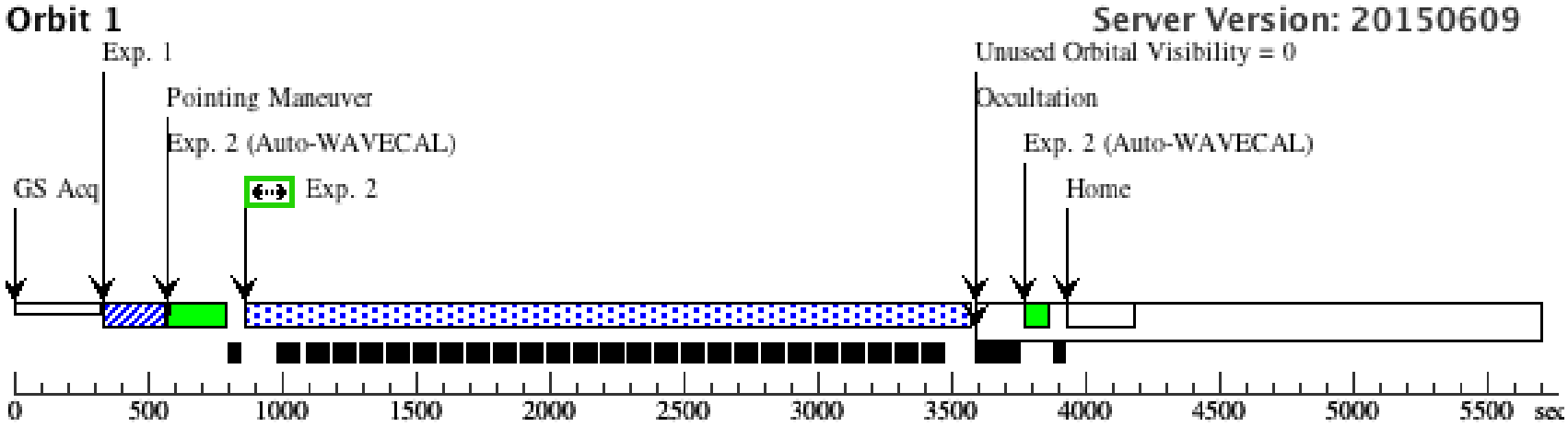
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(26)	WD1900+705	RA: 19 00 10.4997 (285.0437488d) Dec: +70 39 58.84 (70.66634d) Equinox: J2000	Proper Motion RA: 0.092 arcsec/yr Proper Motion Dec: 0.498 arcsec/yr Epoch of Position: 2014.6483	V=13.25+/-0.03 GALEX FUV=14.025+/-0.009 GALEX NUV=13.560+/-0.005	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD1900+705 STIS Acq (STIS.ta.724301)	(26) WD1900+705	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	*[1]*
2	WD1900+705 STIS G230L (STIS.sp.724315)	(26) WD1900+705	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=100			2676 Secs (2676 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14076, WD1900+705 COS G140L (32), scheduled Sun Jan 24 02:02:04 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV

Special Requirements: (none)

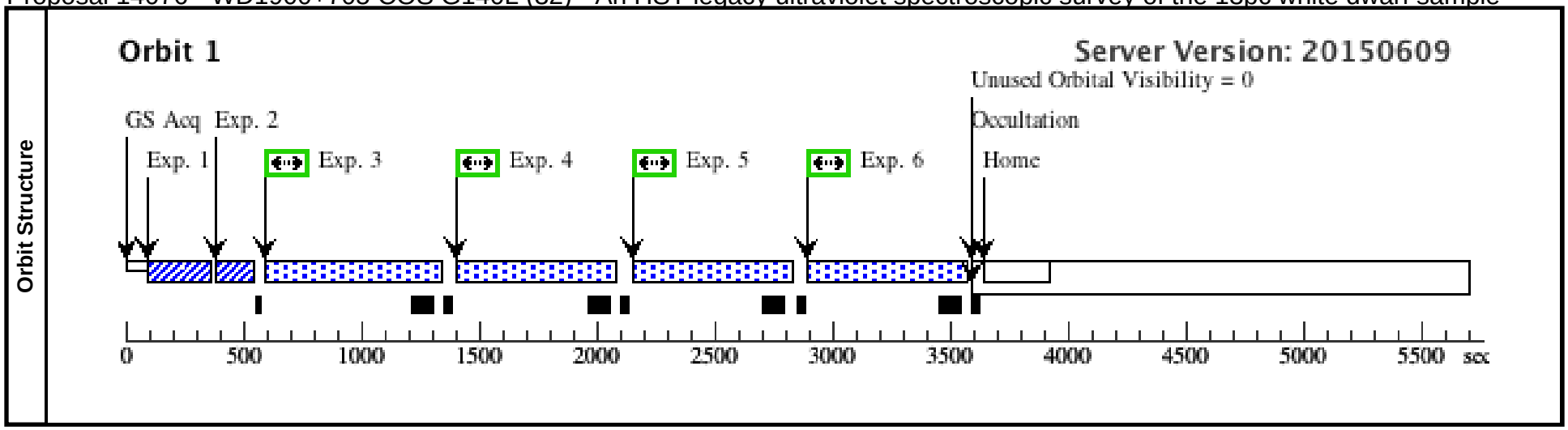
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(26)	WD1900+705	RA: 19 00 10.4997 (285.0437488d) Dec: +70 39 58.84 (70.66634d) Equinox: J2000	Proper Motion RA: 0.092 arcsec/yr Proper Motion Dec: 0.498 arcsec/yr Epoch of Position: 2014.6483	V=13.25+/-0.03 GALEX FUV=14.025+/-0.009 GALEX NUV=13.560+/-0.005	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD1900+705 COS Acq (COS.sa.724532)	(26) WD1900+705	COS/FUV, ACQ/PEAKXD, PSA	G140L 1105 A				2.5 Secs (2.5 Secs) *[==>]*	 ***[1]***
2	WD1900+705 COS Acq (COS.sa.724532)	(26) WD1900+705	COS/FUV, ACQ/PEAKD, PSA	G140L 1105 A	STEP-SIZE=0.9; CENTER=DEF; NUM-POS=5			2.5 Secs (2.5 Secs) *[==>]*	 ***[1]***
3	WD1900+705 COS G140L (COS.sp.724883)	(26) WD1900+705	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=521; FP-POS=1			631 Secs (631 Secs) *[==>]*	 ***[1]***
4	WD1900+705 COS G140L (COS.sp.724883)	(26) WD1900+705	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=521; FP-POS=2			631 Secs (631 Secs) *[==>]*	 ***[1]***
5	WD1900+705 COS G140L (COS.sp.724883)	(26) WD1900+705	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=521; FP-POS=3			631 Secs (631 Secs) *[==>]*	 ***[1]***
6	WD1900+705 COS G140L (COS.sp.724883)	(26) WD1900+705	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=521; FP-POS=4			631 Secs (631 Secs) *[==>]*	 ***[1]***


Orbit Structure
Orbit 1
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Unused Orbital Visibility = 0
GS Acq
Exp. 2
Occultation
Exp. 1
Exp. 3
Exp. 4
Exp. 5
Exp. 6
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14076, WD1917-077 STIS E230M (33), implementation Sun Jan 24 02:02:04 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

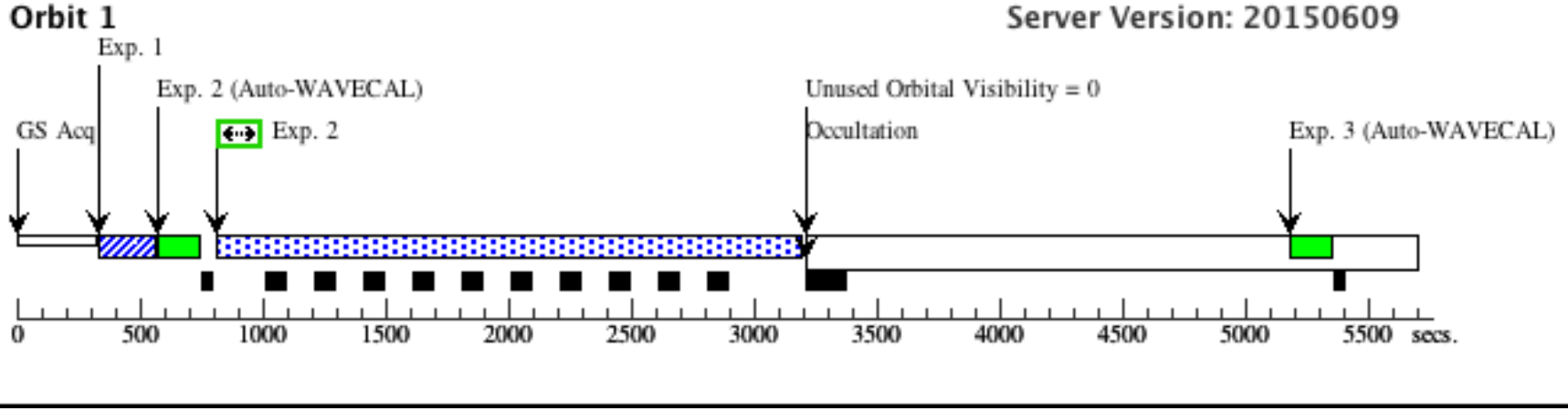
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(27)	WD1917-077	RA: 19 20 34.8768 (290.1453200d) Dec: -07 40 1.93 (-7.66720d) Equinox: J2000	Proper Motion RA: -0.061 arcsec/yr Proper Motion Dec: -0.162 arcsec/yr Epoch of Position: 2015.4015	V=12.54+/-0.03 GALEX FUV=15.04+/-0.01 GALEX NUV=13.393+/-0.004	Reference Frame: ICRS

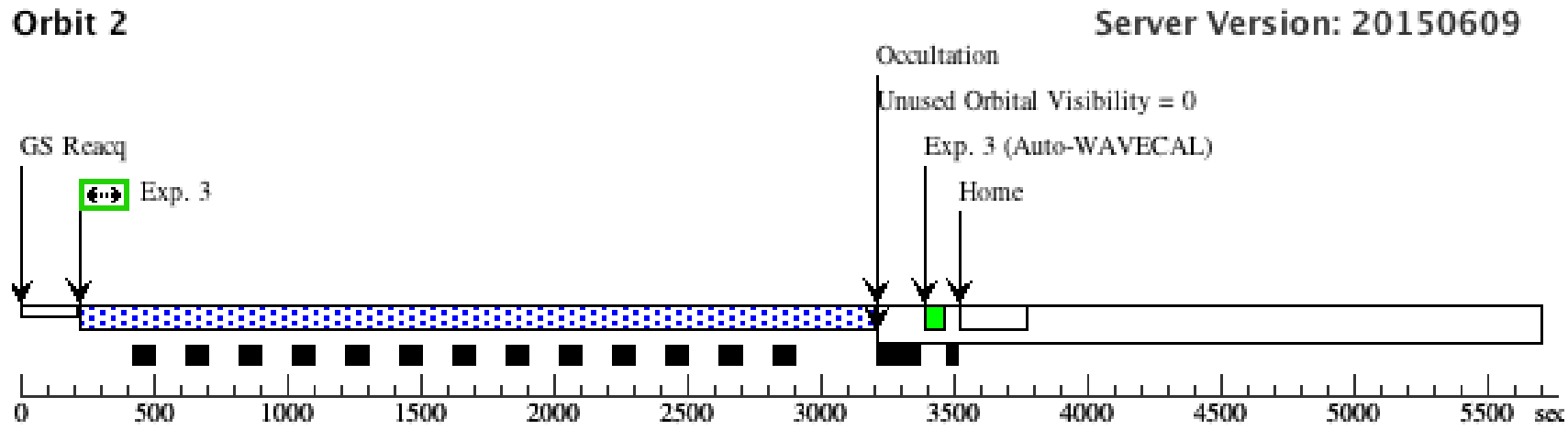
Comments: 2015/12/21: the coordinates were swapped with those of WD1917+386 (target 28)
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD1917-077 Acq (STIS.ta.727579)	(27) WD1917-077	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	***[1]***
Comments: Had the wrong target (WD1917+386)									
2	WD1917-077 STIS E230M (STIS.sp.727590)	(27) WD1917-077	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 1978 A	BUFFER-TIME=200			2369 Secs (2369 Secs) *[==>]*	***[1]***
Comments: Had the wrong target (WD1917+386)									
3	WD1917-077 STIS E230M (STIS.sp.727595)	(27) WD1917-077	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=200			2961 Secs (2961 Secs) *[==>]*	***[2]***
Comments: Had the wrong target (WD1917+386)									

Orbit Structure





Visit

Proposal 14076, WD1917-077 COS G130M/G160M (34), scheduling Sun Jan 24 02:02:04 GMT 2016

Diagnostic Status: Warning

Scientific Instruments: COS/FUV

Special Requirements: (none)

Diagnostics

(WD1917-077 COS G130M/G160M (34)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(27)	WD1917-077	RA: 19 20 34.8768 (290.1453200d) Dec: -07 40 1.93 (-7.66720d) Equinox: J2000	Proper Motion RA: -0.061 arcsec/yr Proper Motion Dec: -0.162 arcsec/yr Epoch of Position: 2015.4015	V=12.54+/-0.03 GALEX FUV=15.04+/-0.01 GALEX NUV=13.393+/-0.004	Reference Frame: ICRS

Comments: 2015/12/21: the coordinates were swapped with those of WD1917+386 (target 28)
Extended=NO

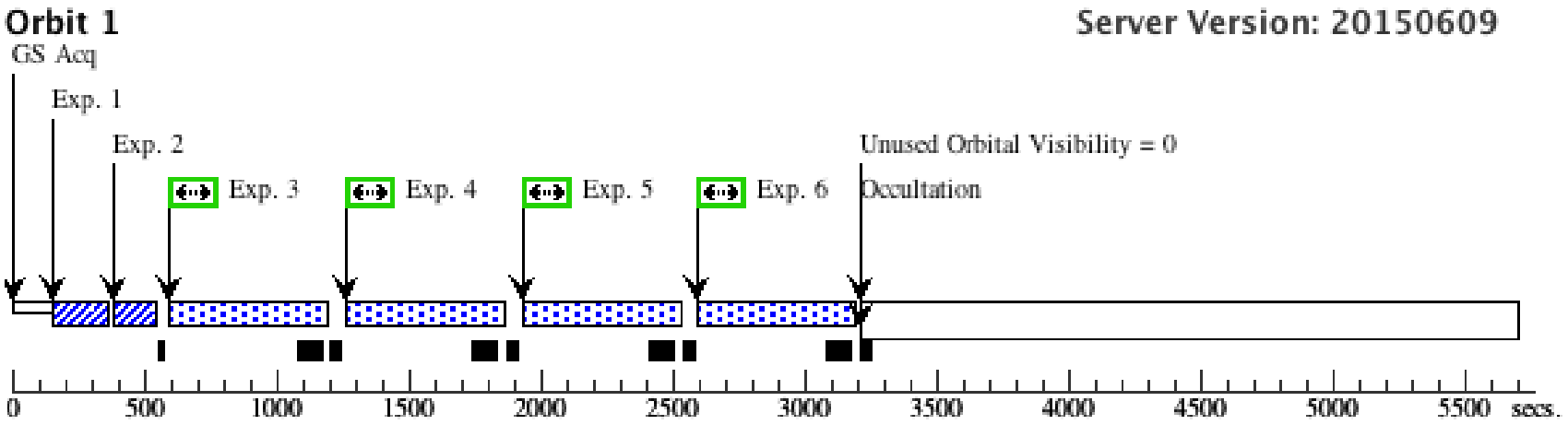
Exposures

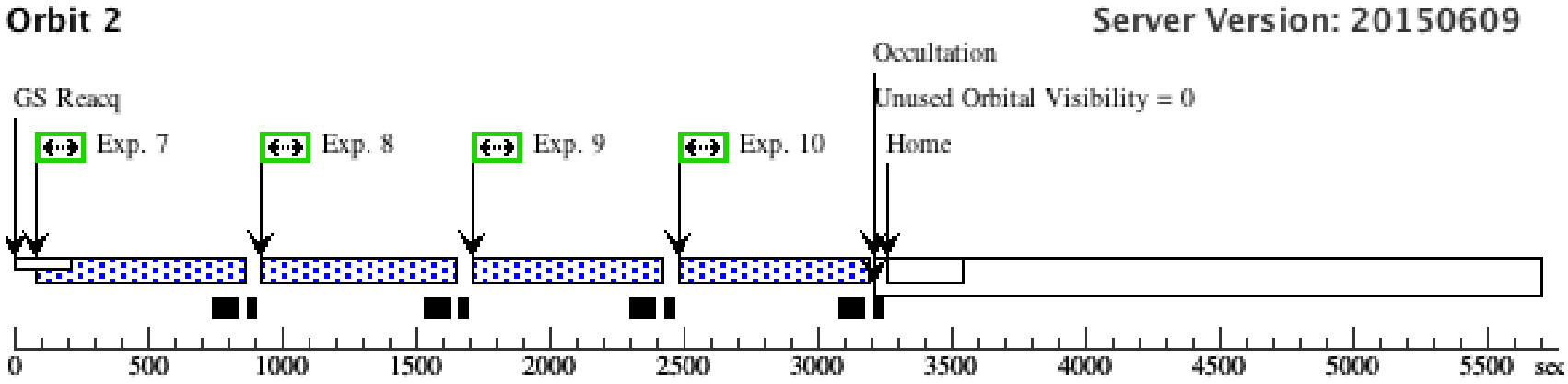
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD1917-077 COS Acq (COS.sa.727606)	(27) WD1917-077	COS/FUV, ACQ/PEAKXD, PSA	G160M 1600 A				3 Secs (3 Secs) *[==>]*	*[1]*
2	WD1917-077 COS Acq (COS.sa.727606)	(27) WD1917-077	COS/FUV, ACQ/PEAKD, PSA	G160M 1600 A	STEP-SIZE=0.9; CENTER=DEF; NUM-POS=5			3 Secs (3 Secs) *[==>]*	*[1]*
3	WD1917-077 COS G160M (COS.sp.727609)	(27) WD1917-077	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=376; FP-POS=1			471 Secs (471 Secs) *[==>]*	*[1]*
	Comments: To get a gap-free spectrum over the entire range covered by the G160M grating, we use four different central wavelength, all with FP-POS=1 (instead of one central wavelength with four FP-POS settings, which would still leave a gap).								
4	WD1917-077 COS G160M (COS.sp.727609)	(27) WD1917-077	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=376; FP-POS=1			471 Secs (471 Secs) *[==>]*	*[1]*
	Comments: To get a gap-free spectrum over the entire range covered by the G160M grating, we use four different central wavelength, all with FP-POS=1 (instead of one central wavelength with four FP-POS settings, which would still leave a gap).								
5	WD1917-077 COS G160M (COS.sp.727609)	(27) WD1917-077	COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=376; FP-POS=1			471 Secs (471 Secs) *[==>]*	*[1]*
	Comments: To get a gap-free spectrum over the entire range covered by the G160M grating, we use four different central wavelength, all with FP-POS=1 (instead of one central wavelength with four FP-POS settings, which would still leave a gap).								
6	WD1917-077 COS G160M (COS.sp.727609)	(27) WD1917-077	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=376; FP-POS=1			474 Secs (474 Secs) *[==>]*	*[1]*
	Comments: To get a gap-free spectrum over the entire range covered by the G160M grating, we use four different central wavelength, all with FP-POS=1 (instead of one central wavelength with four FP-POS settings, which would still leave a gap).								
7	WD1917-077 COS G130M (COS.sp.758648)	(27) WD1917-077	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=486; FP-POS=1			586 Secs (586 Secs) *[==>]*	*[2]*
	Comments: To get a gap-free spectrum over the entire range covered by the G130M grating, we use four different central wavelength, all with FP-POS=1 (instead of one central wavelength with four FP-POS settings, which would still leave a gap).								
8	WD1917-077 COS G130M (COS.sp.758649)	(27) WD1917-077	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=486; FP-POS=1			586 Secs (586 Secs) *[==>]*	*[2]*
	Comments: To get a gap-free spectrum over the entire range covered by the G130M grating, we use four different central wavelength, all with FP-POS=1 (instead of one central wavelength with four FP-POS settings, which would still leave a gap).								
9	WD1917-077 COS G130M (COS.sp.758650)	(27) WD1917-077	COS/FUV, TIME-TAG, PSA	G130M 1300 A	BUFFER-TIME=486; FP-POS=1			586 Secs (586 Secs) *[==>]*	*[2]*
	Comments: To get a gap-free spectrum over the entire range covered by the G130M grating, we use four different central wavelength, all with FP-POS=1 (instead of one central wavelength with four FP-POS settings, which would still leave a gap).								

10	WD1917-07 7 COS G130 M (COS.sp.758 651)	(27) WD1917-077	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=48 6; FP-POS=1	586 Secs (586 Secs) [==>] [2]

Comments: To get a gap-free spectrum over the entire range covered by the G130M grating, we use four different central wavelength, all with FP-POS=1 (instead of one central wavelength with four FP-POS settings, which would still leave a gap).

Orbit Structure





Visit

Proposal 14076, WD1917+386 STIS G230L (35), implementation Sun Jan 24 02:02:04 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

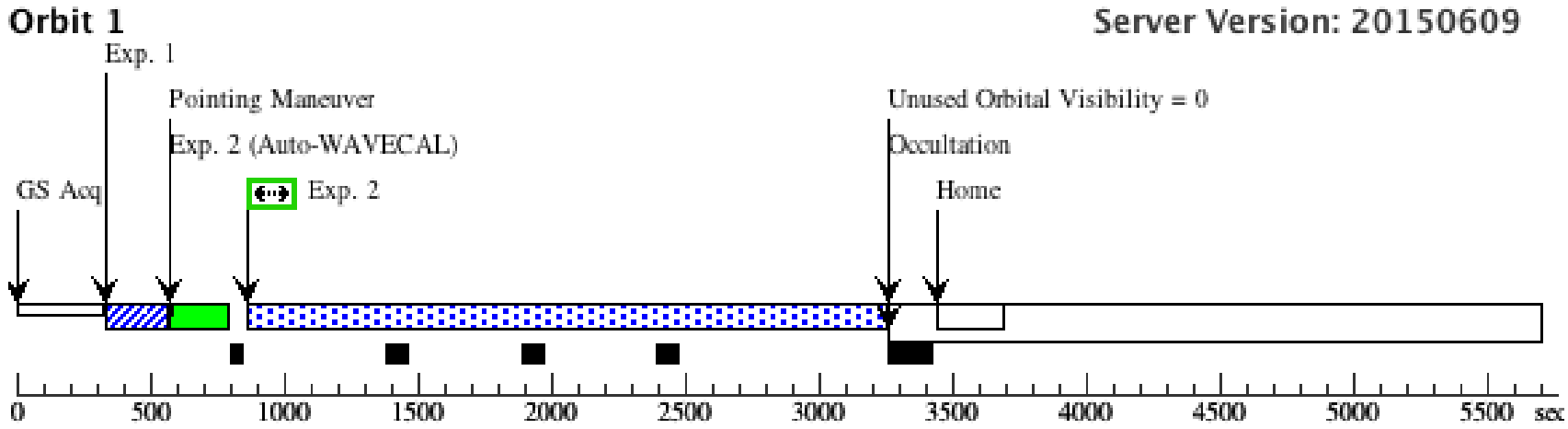
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(28)	WD1917+386	RA: 19 18 58.6593 (289.7444138d) Dec: +38 43 17.99 (38.72166d) Equinox: J2000	Proper Motion RA: 0.030 arcsec/yr Proper Motion Dec: -0.250 arcsec/yr Epoch of Position: 2014.6264	V=14.61+/-0.03	Reference Frame: ICRS

Comments: 2015/12/21: the coordinates were swapped with those of WD1917-077 (target 27)
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD1917+386 Acq (STIS.ta.724036)	(28) WD1917+386	STIS/CCD, ACQ, F28X50LP	MIRROR				0.3 Secs (0.3 Secs) *[==>]*	*[1]*
2	WD1917+386 STIS G230L (STIS.sp.724076)	(28) WD1917+386	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=500			2347 Secs (2347 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14076, WD1953-011 STIS G230L (36), implementation Sun Jan 24 02:02:04 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

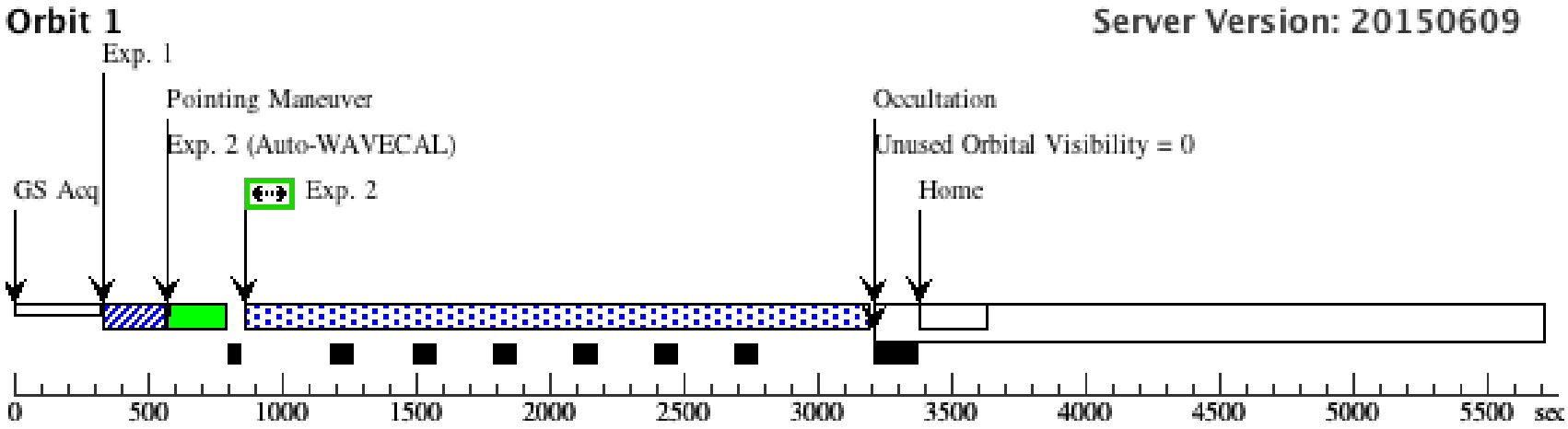
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(29)	WD1953-011	RA: 19 56 28.9678 (299.1206992d) Dec: -01 02 38.68 (-1.04408d) Equinox: J2000	Proper Motion RA: -0.442 arcsec/yr Proper Motion Dec: -0.699 arcsec/yr Epoch of Position: 2008.7149	V=13.69+/-0.03 GALEX FUV=20.68+/-0.19 G ALEX NUV=15.43+/-0.01	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD1953-011 STIS Acq (STIS.ta.725130)	(29) WD1953-011	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	*[1]*
2	WD1953-011 STIS G230L (STIS.sp.725128)	(29) WD1953-011	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=300			2290 Secs (2290 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14076, WD2140+207 STIS G230L (37), implementation Sun Jan 24 02:02:04 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

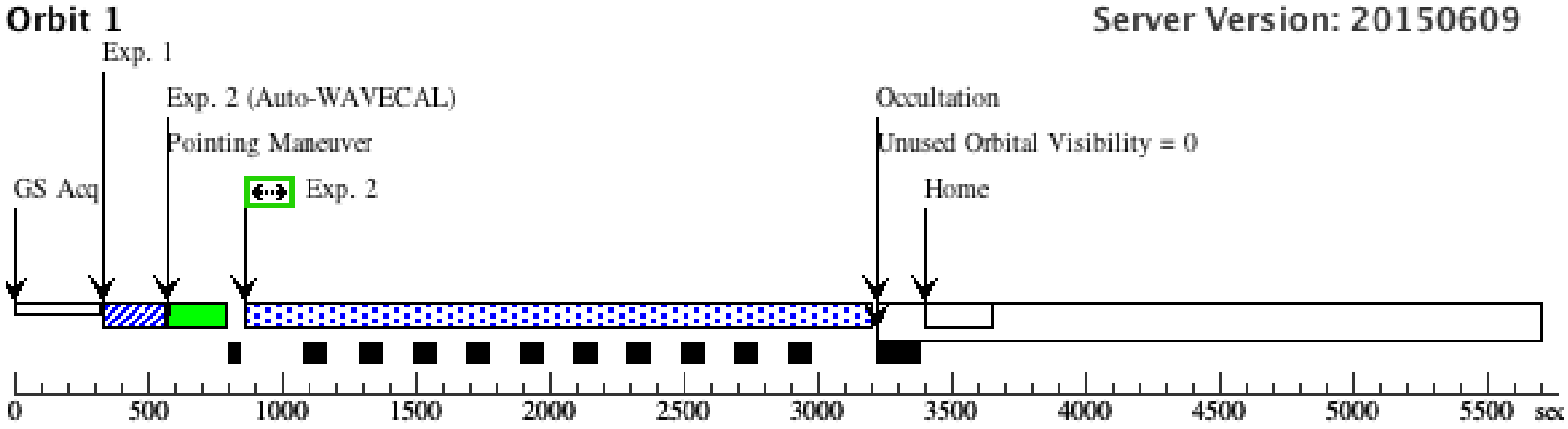
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(30)	WD2140+207	RA: 21 42 40.7611 (325.6698379d) Dec: +20 59 48.54 (20.99682d) Equinox: J2000	Proper Motion RA: -0.227 arcsec/yr Proper Motion Dec: -0.643 arcsec/yr Epoch of Position: 2014.8998	V=13.24+/-0.03 GALEX FUV=19.6+/-0.15 GALEX NUV=14.88+/-0.01	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD2140+207 STIS Acq (STIS.ta.727623)	(30) WD2140+207	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	*[1]*
2	WD2140+207 STIS G230L (STIS.sp.727622)	(30) WD2140+207	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=200			2302 Secs (2302 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14076, WD2140+207 COS G140L (38), scheduling Sun Jan 24 02:02:04 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Fixed Targets

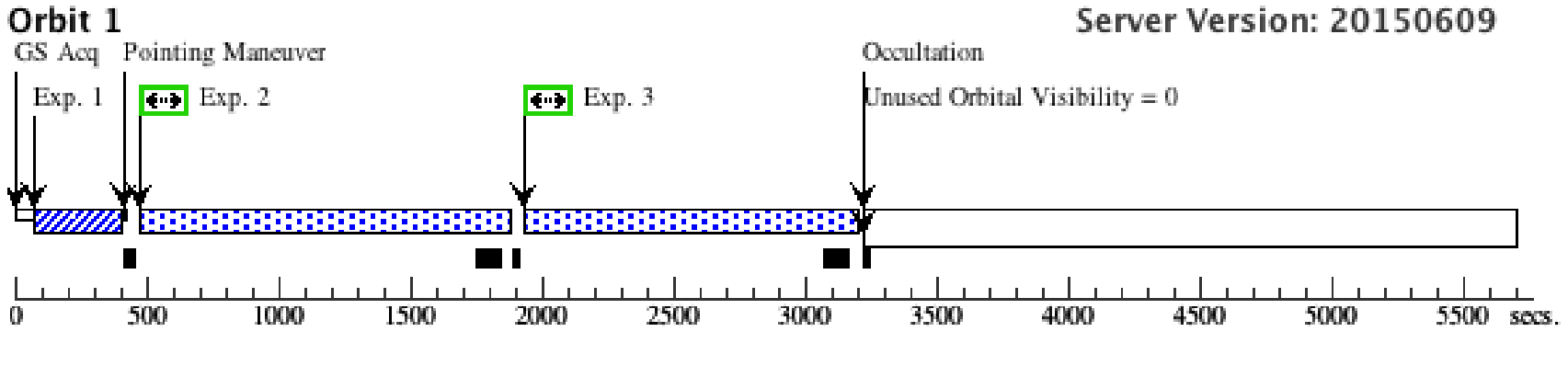
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(30)	WD2140+207	RA: 21 42 40.7611 (325.6698379d) Dec: +20 59 48.54 (20.99682d) Equinox: J2000	Proper Motion RA: -0.227 arcsec/yr Proper Motion Dec: -0.643 arcsec/yr Epoch of Position: 2014.8998	V=13.24+/-0.03 GALEX FUV=19.6+/-0.15 GALEX NUV=14.88+/-0.01	Reference Frame: ICRS

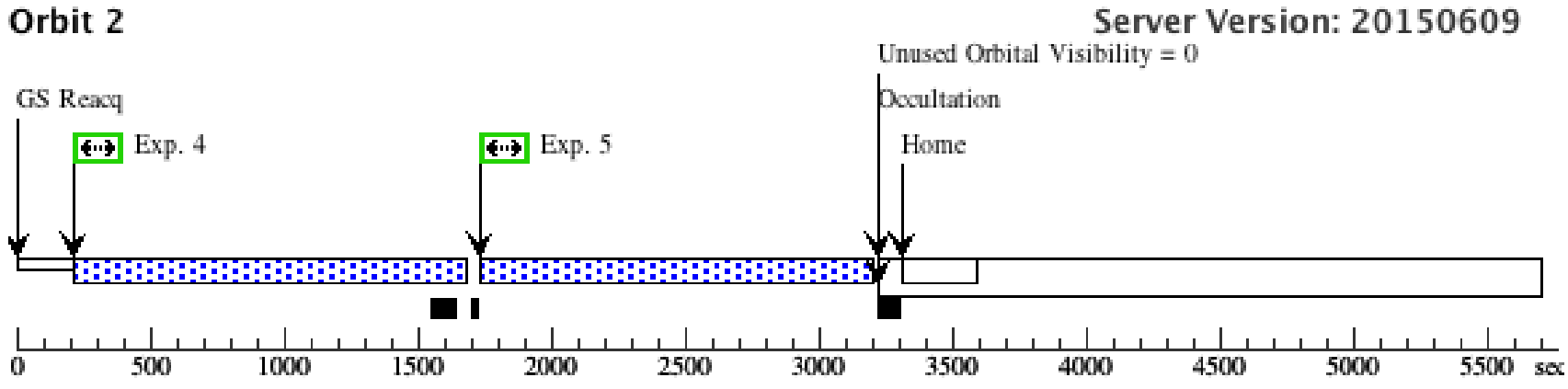
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD2140+207 COS Acq (COS.ta.727629)	(30) WD2140+207	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				7 Secs (7 Secs) *[==>]*	*[1]*
2	WD2140+207 COS G140L (COS.sp.727631)	(30) WD2140+207	COS/FUV, TIME-TAG, PSA	G140L 1105 A	FP-POS=1; BUFFER-TIME=1112			1224 Secs (1224 Secs) *[==>]*	*[1]*
3	WD2140+207 COS G140L (COS.sp.727631)	(30) WD2140+207	COS/FUV, TIME-TAG, PSA	G140L 1105 A	FP-POS=2; BUFFER-TIME=1100			1220 Secs (1220 Secs) *[==>]*	*[1]*
4	WD2140+207 COS G140L (COS.sp.727631)	(30) WD2140+207	COS/FUV, TIME-TAG, PSA	G140L 1105 A	FP-POS=3; BUFFER-TIME=1301			1415 Secs (1415 Secs) *[==>]*	*[2]*
5	WD2140+207 COS G140L (COS.sp.727631)	(30) WD2140+207	COS/FUV, TIME-TAG, PSA	G140L 1105 A	FP-POS=4; BUFFER-TIME=2000			1416 Secs (1416 Secs) *[==>]*	*[2]*

Orbit Structure





Visit

Proposal 14076, WD2251-070 STIS G230L (39), implementation Sun Jan 24 02:02:04 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

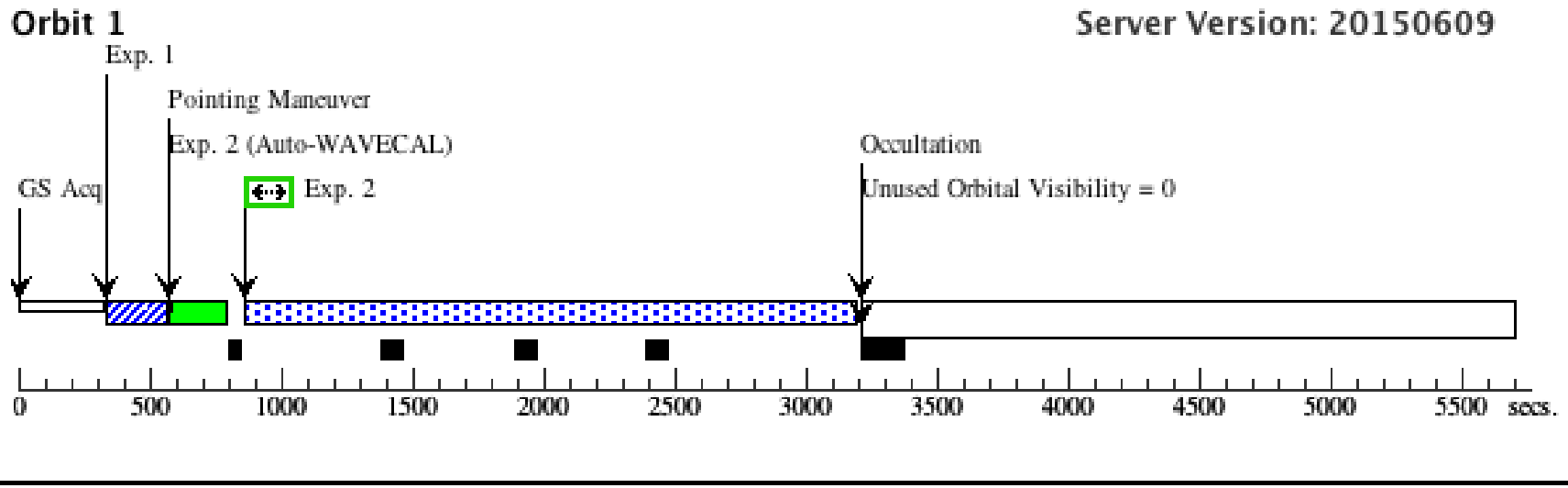
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(31)	WD2251-070	RA: 22 53 55.6571 (343.4819046d) Dec: -06 47 3.85 (-6.78440d) Equinox: J2000	Proper Motion RA: 2.481 arcsec/yr Proper Motion Dec: -0.688 arcsec/yr Epoch of Position: 2013.7828	V=15.71+/-0.03 GALEX NUV=23.3+/-0.3	Reference Frame: ICRS

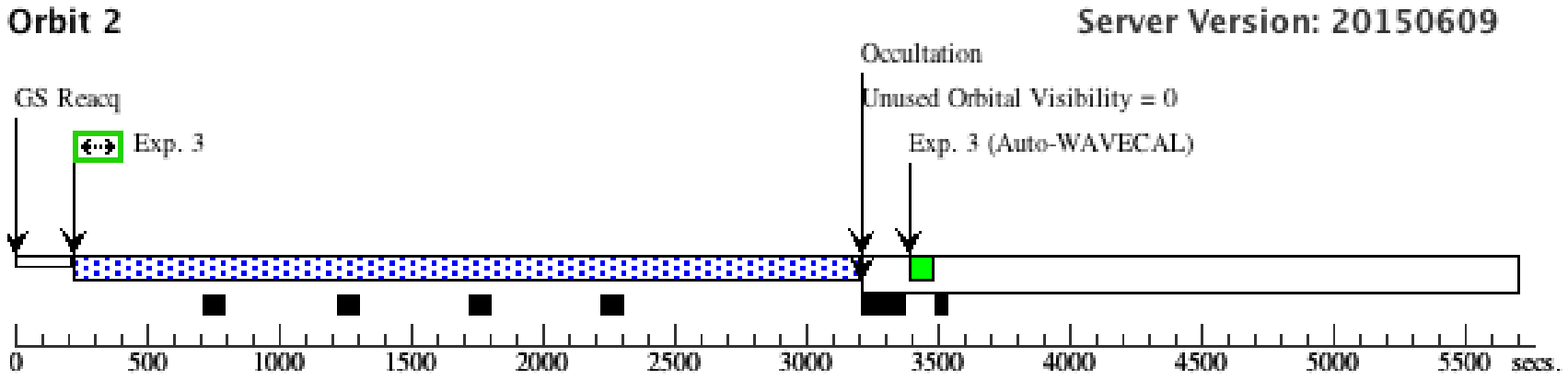
Comments: Extended=NO

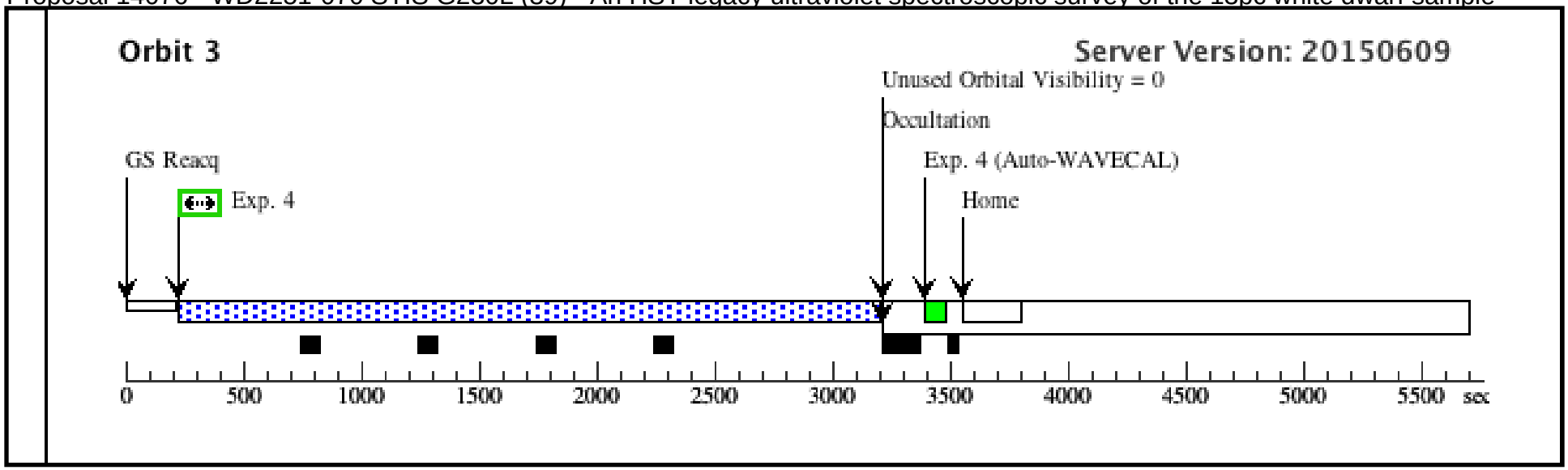
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD2251-070 Acq (STIS.ta.724078)	(31) WD2251-070	STIS/CCD, ACQ, F28X50LP	MIRROR				0.4 Secs (0.4 Secs) *[==>]*	***[1]***
2	WD2251-070 STIS G230L (STIS.sp.724077)	(31) WD2251-070	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=500			2293 Secs (2293 Secs) *[==>]*	***[1]***
3	WD2251-070 STIS G230L (STIS.sp.724077)	(31) WD2251-070	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=500			2963 Secs (2963 Secs) *[==>]*	***[2]***
4	WD2251-070 STIS G230L (STIS.sp.724077)	(31) WD2251-070	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=500			2938 Secs (2938 Secs) *[==>]*	***[3]***

Orbit Structure






Orbit 3
Server Version: 20150609
Unused Orbital Visibility = 0
Occultation
GS Reacq
Exp. 4
Exp. 4 (Auto-WAVECAL)
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14076, WD2359-434 STIS G230L (40), implementation Sun Jan 24 02:02:05 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

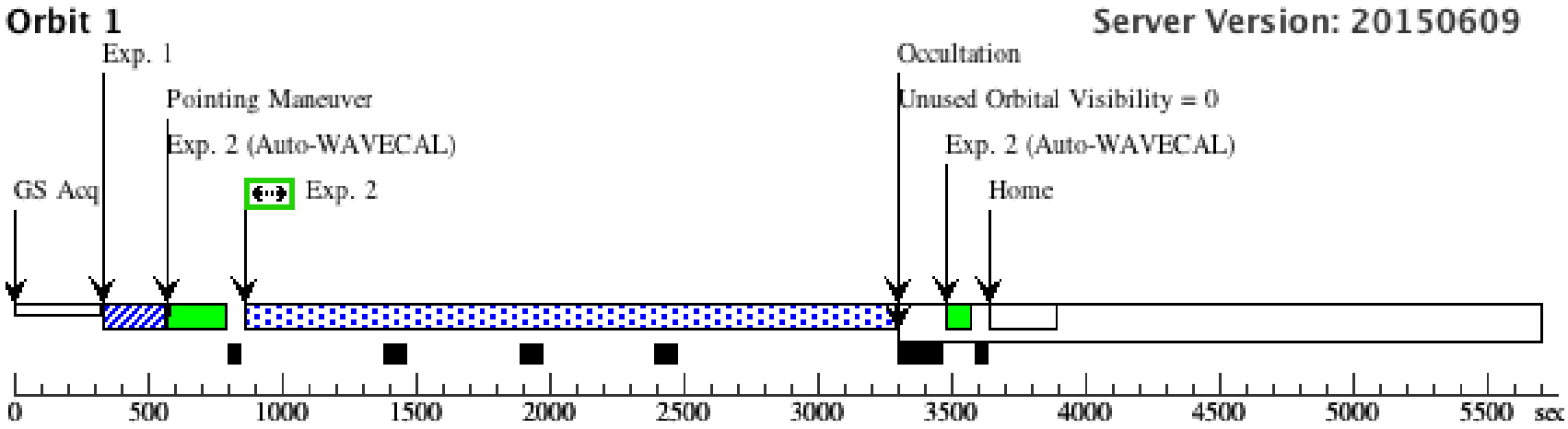
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(32)	WD2359-434	RA: 00 02 11.5100 (.5479583d) Dec: -43 10 5.35 (-43.16815d) Equinox: J2000	Proper Motion RA: 0.587 arcsec/yr Proper Motion Dec: -0.666 arcsec/yr Epoch of Position: 2014.8096	V=13.05+/-0.03 GALEX FUV=18.767+/-0.007 GALEX NUV=14.414+/-0.0006	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD2359-434 Acq (STIS.ta.727644)	(32) WD2359-434	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	*[1]*
2	WD2359-434 STIS G230L (STIS.sp.727646)	(32) WD2359-434	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	BUFFER-TIME=500			2387 Secs (2387 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 14076, WD0208-510 STIS F28X50OII/G230L (41), implementation Sun Jan 24 02:02:05 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: ORIENT 26.3D TO 46.3 D; ORIENT 206.3D TO 226.3 D

Comments: ORIENT required to avoid diffraction spikes of primary. Target is expected at PA=81.3 deg from primary and thus optimal slit alignment is -8.7 deg, and U3 axis at 36.3 deg or 216.3 deg.

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(4)	Pattern Type=STIS-CCD-BOX	Coordinate Frame=POS-TARG		(1)
	Purpose=DITHER	Pattern Orientation=26.6		
	Number Of Points=4	Angle Between Sides=143.130102		
	Point Spacing=0.567	Center Pattern=false		
	Line Spacing=0.567			

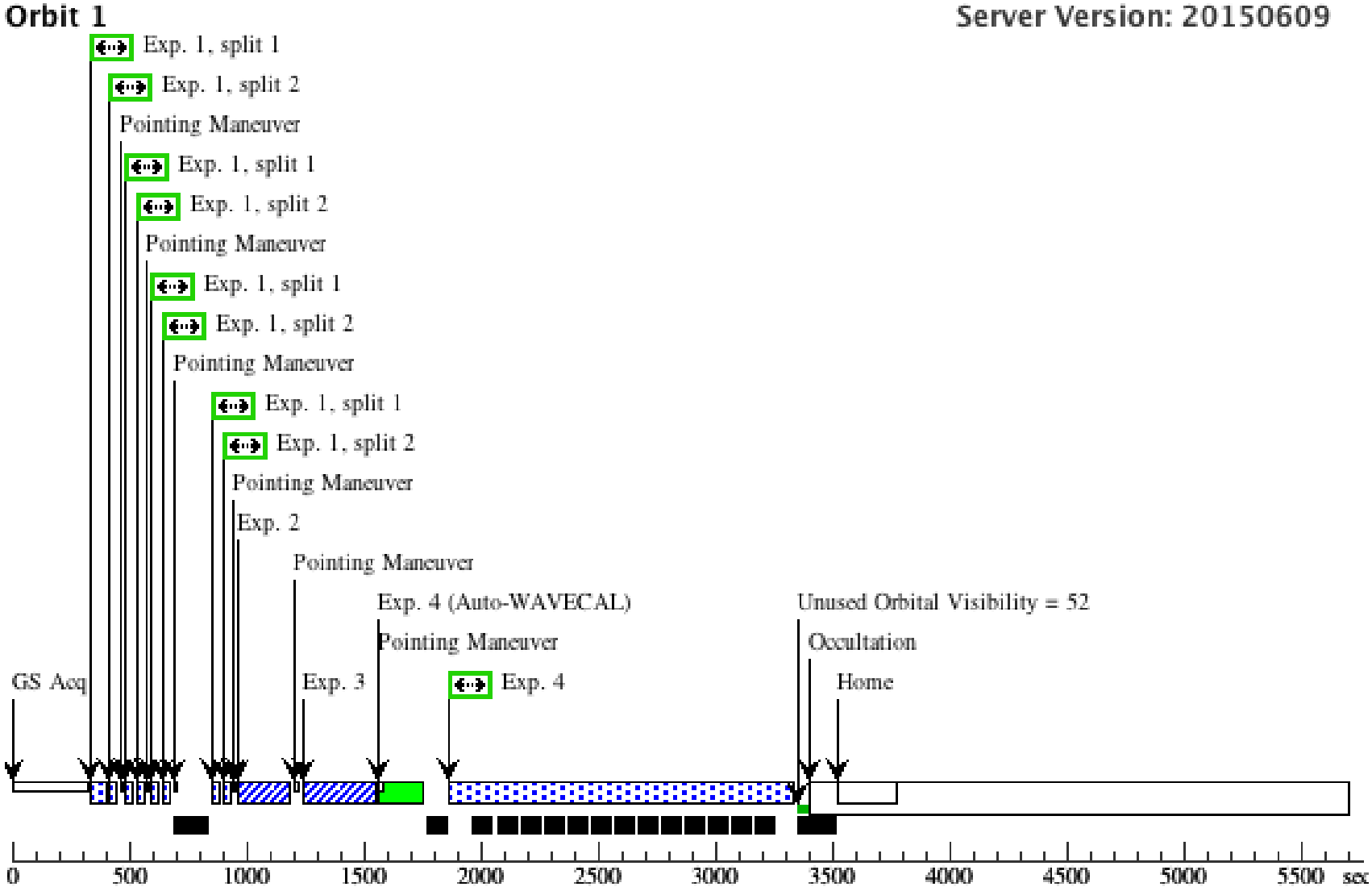
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(101)	GJ86A	RA: 02 10 25.9342 (32.6080592d)	Proper Motion RA: 2092.86 mas/yr	V=6.17	Reference Frame: ICRS
	Alt Name1: HR637	Dec: -50 49 25.41 (-50.82373d)	Proper Motion Dec: 653.21 mas/yr		
	Alt Name2: HD13445	Equinox: J2000	Parallax: .09274"		
			Epoch of Position: 2000.0		
Comments: This object was generated by the target selector and retrieved from the SIMBAD database. Extended=NO					
(102)	WD0208-510	Offset from GJ86A		V=14.0	Offset Position (WD0208-510)
	Alt Name1: GJ86B	RA Offset: 0.264 Secs			
		Dec Offset: 0.4 Arcsec			
Comments: Offset values based on Cycle 19 WFC3 images taken 31 March 2012, and extrapolated for orbital estimates based on MC simulations; J Farihi July 2015.					

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD0208-510 STIS F28X50OII (734878)	(101) GJ86A	STIS/CCD, ACCUM, F28X50OII	MIRROR	CR-SPLIT=2; GAIN=4	GS ACQ SCENARIO BASE1B3	Pattern 4, Exps 1-1 in WD0208-510 STIS F28X50OII/G230L (41) (4)	2 Secs (8 Secs)	
								[==>(Pattern 1, Split 1)]	***[1]***
								[==>(Pattern 1, Split 2)]	
								[==>(Pattern 2, Split 1)]	
								[==>(Pattern 2, Split 2)]	
								[==>(Pattern 3, Split 1)]	
								[==>(Pattern 3, Split 2)]	
								[==>(Pattern 4, Split 1)]	
								[==>(Pattern 4, Split 2)]	
2	GJ86A acq (734880)	(101) GJ86A	STIS/CCD, ACQ, F28X50OII	MIRROR	ACQTYPE=POINT			1 Secs (1 Secs)	
								[==>]	***[1]***
3	WD0208-510 STIS acq/peak	(102) WD0208-510	STIS/CCD, ACQ/PEAK, 52X0.05E1	MIRROR				1.6 Secs (1.6 Secs)	
								[==>]	***[1]***
4	WD0208-510 STIS G230L (734886)	(102) WD0208-510	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	BUFFER-TIME=100			1454 Secs (1454 Secs)	
								[==>]	***[1]***

Orbit Structure



Visit

Proposal 14076, WD0413-077 STIS E140M/E230M (42), completed Sun Jan 24 02:02:05 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: ORIENT 33.8D TO 73.8 D; ORIENT 213.8D TO 253.8 D

Comments: ORIENT required to avoid diffraction spikes of primary. Target is expected at PA=98.8 deg from primary and thus optimal slit alignment is 8.8 deg, and U3 axis at 53.8 deg or 233.8 deg.

11/11/2015: The central wavelength of the second E230M observation was switched to 2707A. Exposure times were adjusted to free up ~180sec for an Auto-WAVECAL for the second central wavelength. Removed "on hold" flag, as the PA constraint is now implemented.

Fixed Targets

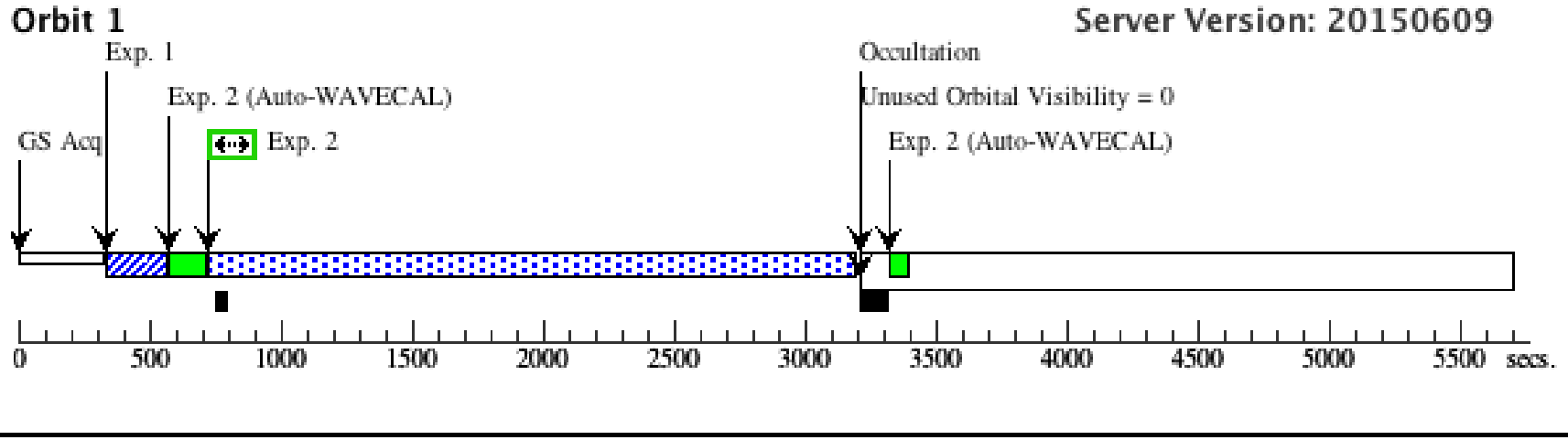
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(103)	WD0413-077	RA: 04 15 19.6153 (63.8317304d) Dec: -07 40 18.22 (-7.67173d) Equinox: J2000	Proper Motion RA: -2.24 arcsec/yr Proper Motion Dec: -3.42 arcsec/yr Epoch of Position: 2014.6735	V=9.5+/-0.03 GALEX FUV=11.54+/-0.005 G ALEX NUV=11.75+/-0.005	Reference Frame: ICRS

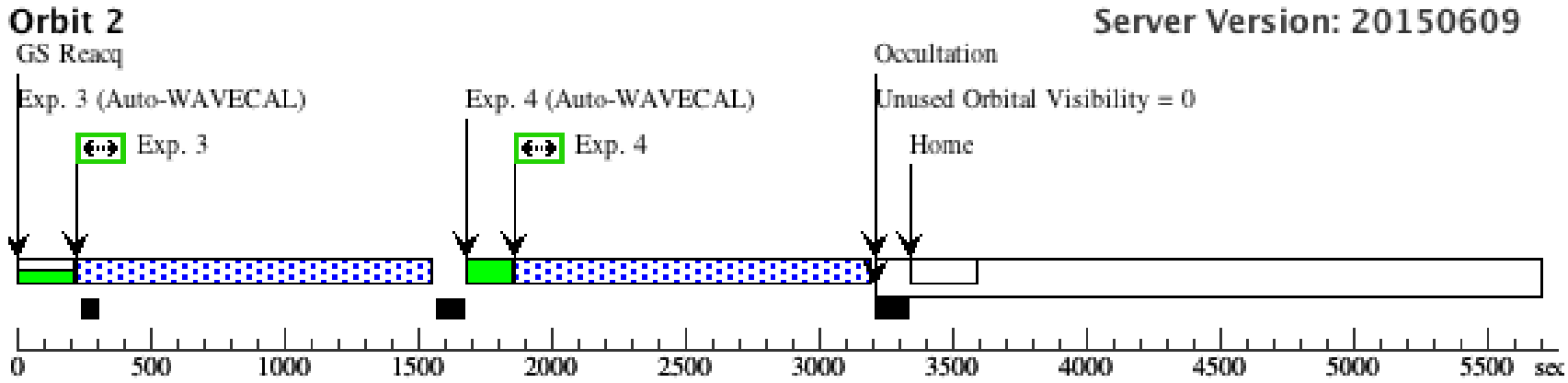
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD0413-077 Acq (STIS.ta.720664)	(103) WD0413-077	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs) *[==>]*	*[1]*
2	WD0413-077 STIS E140M (STIS.sp.720666)	(103) WD0413-077	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A				2457 Secs (2457 Secs) *[==>]*	*[1]*
3	WD0413-077 STIS E230M (STIS.sp.720672)	(103) WD0413-077	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 1978 A				1318 Secs (1318 Secs) *[==>]*	*[2]*
4	WD0413-077 STIS E230M (STIS.sp.720673)	(103) WD0413-077	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A				1318 Secs (1318 Secs) *[==>]*	*[2]*

Orbit Structure





Visit

Proposal 14076, WD0426+588 STIS G230L (43), implementation Sun Jan 24 02:02:05 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Comments: 11/11/2015: removed "on hold" flag, as John Subasavage confirmed that we are in good shape with the coordinates / proper motions for WD0426+588.

Fixed Targets

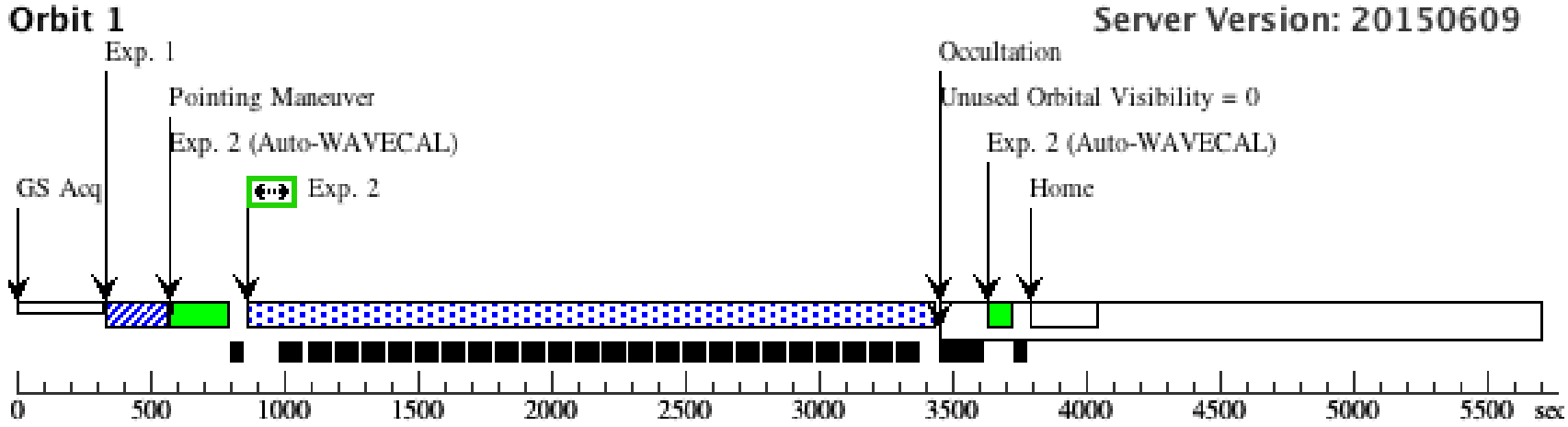
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(104)	WD0426+588	RA: 04 31 15.1493 (67.8131221d) Dec: +58 58 11.92 (58.96998d) Equinox: J2000	Proper Motion RA: 1.336 arcsec/yr Proper Motion Dec: -1.963 arcsec/yr Epoch of Position: 2015.0507	V=12.43+/-0.03 GALEX NUV=14.960+/-0.0008	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD0426+588 Acq (STIS.ta.717523)	(104) WD0426+588	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.1 Secs (0.1 Secs) *[==>]*	 ***[1]***
2	WD0426+588 STIS G230L (STIS.sp.717524)	(104) WD0426+588	STIS/NUV-MAMA, TIME-TAG, 52X0.5	G230L 2376 A	BUFFER-TIME=100			2538 Secs (2538 Secs) *[==>]*	 ***[1]***

Orbit Structure



Visit

Proposal 14076, WD0426+588 COS G140L (44), scheduling Sun Jan 24 02:02:05 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV

Special Requirements: (none)

Comments: 11/11/2015: removed "on hold" flag, as John Subasavage confirmed that we are in good shape with the coordinates / proper motions for WD0426+588.

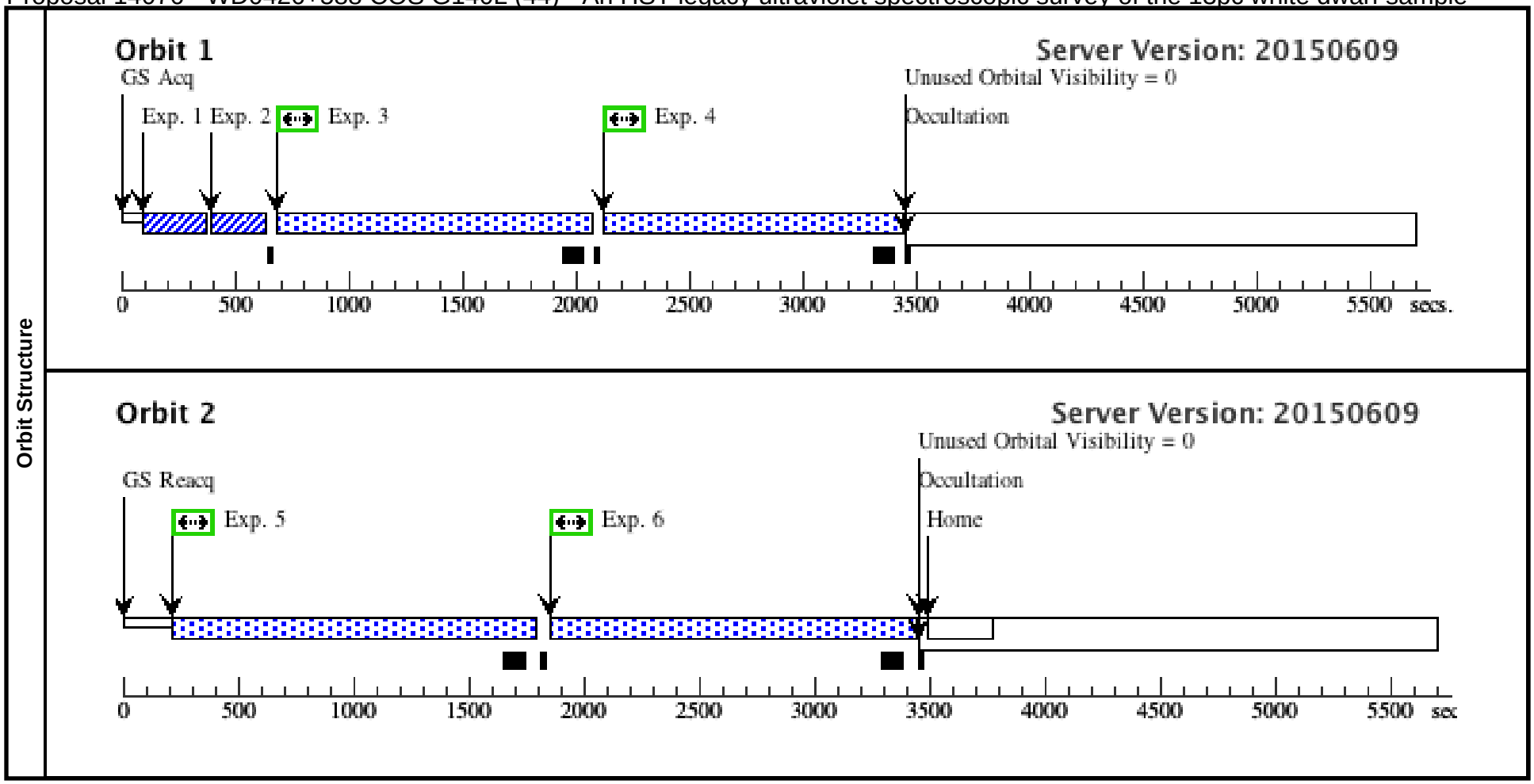
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(104)	WD0426+588	RA: 04 31 15.1493 (67.8131221d) Dec: +58 58 11.92 (58.96998d) Equinox: J2000	Proper Motion RA: 1.336 arcsec/yr Proper Motion Dec: -1.963 arcsec/yr Epoch of Position: 2015.0507	V=12.43+/-0.03 GALEX NUV=14.960+/-0.0008	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD0426+588 COS Acq (COS.sa.727686)	(104) WD0426+588	COS/FUV, ACQ/PEAKXD, PSA	G140L 1105 A				18 Secs (18 Secs) *[==>]*	***[1]***
2	WD0426+588 COS Acq (COS.sa.727686)	(104) WD0426+588	COS/FUV, ACQ/PEAKD, PSA	G140L 1105 A	STEP-SIZE=0.9; CENTER=DEF; NUM-POS=5			18 Secs (18 Secs) *[==>]*	***[1]***
3	WD0426+588 COS G140L (COS.sp.717526)	(104) WD0426+588	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=1160; FP-POS=1			1266 Secs (1266 Secs) *[==>]*	***[1]***
4	WD0426+588 COS G140L (COS.sp.717526)	(104) WD0426+588	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=1160; FP-POS=2			1266 Secs (1266 Secs) *[==>]*	***[1]***
5	WD0426+588 COS G140L (COS.sp.717526)	(104) WD0426+588	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=1400; FP-POS=3			1532 Secs (1532 Secs) *[==>]*	***[2]***
6	WD0426+588 COS G140L (COS.sp.717526)	(104) WD0426+588	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=1400; FP-POS=4			1533 Secs (1533 Secs) *[==>]*	***[2]***


Orbit Structure
Orbit 1
Server Version: 20150609
GS Acq
Exp. 1
Exp. 2
Exp. 3
Exp. 4
Unused Orbital Visibility = 0
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.
Orbit 2
Server Version: 20150609
GS Reacq
Exp. 5
Exp. 6
Unused Orbital Visibility = 0
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14076, WD1132-325 UVIS Imaging (45), scheduled Sun Jan 24 02:02:05 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: ORIENT 323.3D TO 13.3 D; ORIENT 143.3D TO 193.3 D

Comments: ORIENT required to avoid target lying near diffraction spikes an bleeding columns of primary. Target is expected at PA=127.3 deg from primary, and thus optimal U3 alignment is (+221 deg) 348.3 deg or 168.3 deg.

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1-2), (3), (4), (5), (6), (7), (8), (9)

Fixed Targets

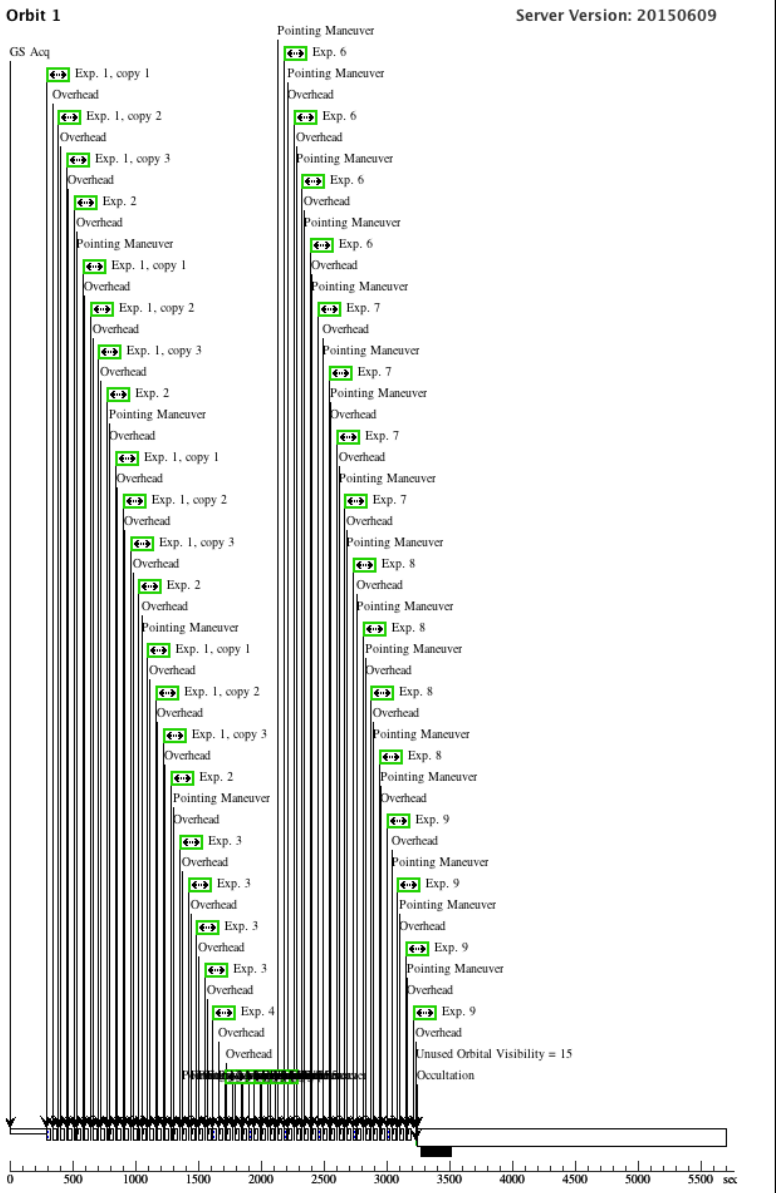
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(105)	GJ432AB Alt Name1: HD100623	Offset from WD1132-325 RA Offset: -0.48265 Secs Dec Offset: 4.761 Arcsec		V=6.0+/-0.03	Offset Position (GJ432AB)
Comments: Extended=NO					
(106)	WD1132-325 Alt Name1: GJ432B Alt Name2: VB4	RA: 11 34 29.9853 (173.6249387d) Dec: -32 49 54.77 (-32.83188d) Equinox: J2000	Proper Motion RA: -0.672 arcsec/yr Proper Motion Dec: 0.824 arcsec/yr Epoch of Position: 2009.2466	V=15.0+/-0.03	Reference Frame: ICRS
Comments: Extended=NO					

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD1132-325 UVIS F225W (short)	(105) GJ432AB	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F225W	FLASH=12		Pattern 1, Exps 1-2 in WD1132-325 UVIS Imaging (45) (1)	1.0 Secs X 3 (12 Secs) *[==>(Pattern 1, Copy 1)]* *[==>(Pattern 1, Copy 2)]* *[==>(Pattern 1, Copy 3)]* *[==>(Pattern 2, Copy 1)]* *[==>(Pattern 2, Copy 2)]* *[==>(Pattern 2, Copy 3)]* *[==>(Pattern 3, Copy 1)]* *[==>(Pattern 3, Copy 2)]* *[==>(Pattern 3, Copy 3)]* *[==>(Pattern 4, Copy 1)]* *[==>(Pattern 4, Copy 2)]* *[==>(Pattern 4, Copy 3)]*	***[1]***
2	WD1132-325 UVIS F225W (long)	(105) GJ432AB	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F225W	FLASH=12		Pattern 1, Exps 1-2 in WD1132-325 UVIS Imaging (45) (1)	10.0 Secs (40 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
3	WD1132-325 UVIS F275W	(105) GJ432AB	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F225W	FLASH=12		Pattern 1, Exps 3-3 in WD1132-325 UVIS Imaging (45) (1)	5.0 Secs (20 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
4	WD1132-325 UVIS F336W	(105) GJ432AB	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F336W	FLASH=12		Pattern 1, Exps 4-4 in WD1132-325 UVIS Imaging (45) (1)	4.0 Secs (16 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
5	WD1132-325 UVIS F390W	(105) GJ432AB	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F390W	FLASH=12		Pattern 1, Exps 5-5 in WD1132-325 UVIS Imaging (45) (1)	2.0 Secs (8 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
6	WD1132-325 UVIS F438W	(105) GJ432AB	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F438W	FLASH=12		Pattern 1, Exps 6-6 in WD1132-325 UVIS Imaging (45) (1)	2.0 Secs (8 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
7	WD1132-325 UVIS F555W	(105) GJ432AB	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F555W	FLASH=12		Pattern 1, Exps 7-7 in WD1132-325 UVIS Imaging (45) (1)	2.0 Secs (8 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

	8	WD1132-325 UVIS F625W	(105) GJ432AB	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F625W	FLASH=12	Pattern 1, Exps 8-8 in WD1132-325 UVIS Imaging (45) (1)	2.0 Secs (8 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***
	9	WD1132-325 UVIS F814W	(105) GJ432AB	WFC3/UVIS, ACCUM, UVIS2-C512C-SUB	F814W	FLASH=12	Pattern 1, Exps 9-9 in WD1132-325 UVIS Imaging (45) (1)	2.0 Secs (8 Secs) *[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]*	***[1]***

Orbit Structure



Visit

Proposal 14076, WD1132-325 STIS G230L (46), implementation Sun Jan 24 02:02:05 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: ORIENT 67.3D TO 97.3 D; ORIENT 247.3D TO 277.3 D

Comments: ORIENT required to avoid diffraction spikes of primary. Target is expected at PA=127.3 deg from primary and thus optimal slit alignment is 37.3 deg, and U3 axis at 82.3 deg or 262.3 deg

Fixed Targets

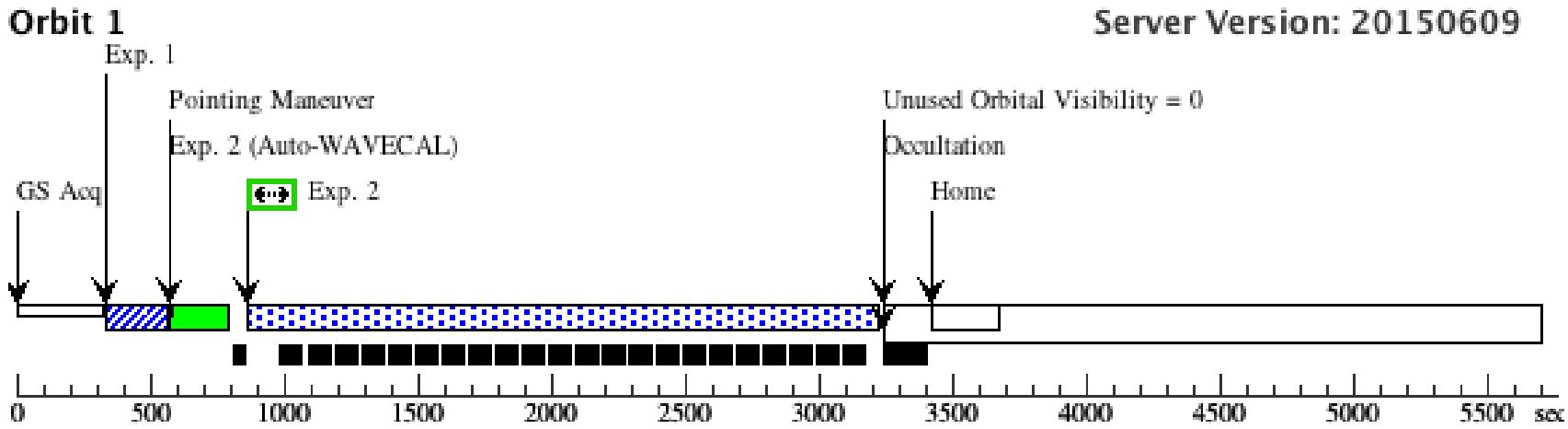
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(106)	WD1132-325	RA: 11 34 29.9853 (173.6249387d)	Proper Motion RA: -0.672 arcsec/yr	V=15.0+/-0.03	Reference Frame: ICRS
	Alt Name1: GJ432B	Dec: -32 49 54.77 (-32.83188d)	Proper Motion Dec: 0.824 arcsec/yr		
	Alt Name2: VB4	Equinox: J2000	Epoch of Position: 2009.2466		

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD1132-325 acq (734909)	(106) WD1132-325	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			0.5 Secs (0.5 Secs) *[==>]*	 ***[1]***
2	WD1132-325 G230L (734917)	(106) WD1132-325	STIS/NUV-MAMA, TIME-TAG, 52X0.5	G230L 2376 A	BUFFER-TIME=100			2325 Secs (2325 Secs) *[==>]*	 ***[1]***

Orbit Structure



Visit

Proposal 14076, WD0310-688 STIS E230M (47), implementation Sun Jan 24 02:02:05 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Comments: 11/11/2015: this is a new visit containing the E230M observations of WD0310-688, previously part of Visit 08, that were split off to keep the total number of buffer tumps per visit below 30.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	WD0310-688	RA: 03 10 31.0693 (47.6294554d) Dec: -68 36 4.57 (-68.60127d) Equinox: J2000	Proper Motion RA: 0.042 arcsec/yr Proper Motion Dec: -0.104 arcsec/yr Epoch of Position: 2015.0558	V=11.4+/-0.03 GALEX FUV=11.422+/-0.003 GALEX NUV=12.985+/-0.003	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	WD0310-688 Acq (STIS.ta.720643)	(7) WD0310-688	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	*[1]*
2	WD0310-688 STIS E230M (STIS.sp.752491)	(7) WD0310-688	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 1978 A	BUFFER-TIME=140			1133 Secs (1133 Secs) *[==>]*	*[1]*

Comments: 11/11/2015: E230M @ 1978A: the ETC simulation gives a "countrate entire detector" of 11972 cts/s, i.e. a buffer time of 167sec. The IUE spectrum of WD0310-688 (LWP11954) suggests that the WD model used for the ETC simulation overpredicts the flux by ~20%. Allowing an additional 20% safety margin ontop of the model prediction gives BUFFER-TIME=140sec.

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
3	WD0310-688 STIS E230M (STIS.sp.752492)	(7) WD0310-688	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=108			1132 Secs (1132 Secs) *[==>]*	*[1]*

Comments: 11/11/2015: E230M @ 2707: as above. Total countrate=15571 cts/s => BUFFER-TIME=128sec, allowing for 20% margin, we adopt 108sec.

Orbit Structure