14761 - Mapping the UV Extinction Properties of PHAT Stars in M31

Cycle: 24, 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) J004543.48+414513	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	29-Jul-2016 15:18:13.0	yes
02	(2) J004511.82+415025	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	29-Jul-2016 15:18:15.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
03	(3) J004539.70+415054	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	29-Jul-2016 15:18:16.0	yes
04	(4) J004354.05+412626	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	29-Jul-2016 15:18:17.0	yes
05	(5) J004427.47+415150	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	29-Jul-2016 15:18:18.0	yes
06	(6) J004511.85+413712	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	29-Jul-2016 15:18:18.0	yes
07	(7) J004431.65+413612	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	29-Jul-2016 15:18:19.0	yes
08	(8) J004438.75+415553	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	29-Jul-2016 15:18:20.0	yes
09	(9) J004420.52+411751	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	29-Jul-2016 15:18:21.0	yes
10	(10) J004546.81+415431	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	29-Jul-2016 15:18:22.0	yes
11	(11) J004413.84+414903	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	29-Jul-2016 15:18:23.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
12	(12) J004454.37+412823	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	29-Jul-2016 15:18:24.0	yes
13	(13) J004539.00+415439	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	29-Jul-2016 15:18:25.0	yes
14	(14) J004512.74+413726	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	29-Jul-2016 15:18:26.0	yes
15	(15) J004535.40+414431	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	29-Jul-2016 15:18:27.0	yes

30 Total Orbits Used

ABSTRACT

We propose to construct high-quality UV extinction curves for interstellar dust in M31 by obtaining new low resolution STIS spectra in the G140L and G230L gratings of 15 reddened OB stars in M31 chosen from a newly available list of spectral types. We are choosing sightlines that lie in the footprint of the Panchromatic Hubble Andromeda Treasury (PHAT) survey. Focusing our study on the detailed properties of M31 dust grains via UV spectroscopy with HST/STIS will mean that we can directly connect the variations seen in the UV extinction curves with their environment. By selecting our M31 sightlines in the PHAT survey region, we will be able to probe a variety of potential correlations between dust grains and their environment. These new M31 UV extinction curves along with the gas-to-dust ratio inferred from the Ly-alpha HI column, existing M31 abundance measurements, and the information from the PHAT survey will be inputs to our Maximum Entropy Method (MEM) models to analyze the dust grain populations. In particular, the PHAT survey provides spatially resolved data on the stellar and interstellar environments near to the sightlines being studied as part of this program. We will investigate whether solar (Milky Way) and super-solar (M31) metallicity galaxies have significant variations in their UV extinction properties. This proposal is part of a long-term program to investigate the extinction properties of interstellar dust across a sample of galaxies with different global characteristics such as metallicity and star formation activity.

OBSERVING DESCRIPTION

We plan to observe a total of 15 stars, listed in Table 1 and in the Target Summary. The stars require 2 orbits each for a total of 30 orbits. The visibilityfor M31 (Dec ~+40 deg) is approximately 55 minutes per orbit. Using the Phase II Orbit Planner, including the Guide Star and STIS acquisition overheads, we find that we will get about 2800 s per orbit on M31 targets with the G230L and G140L gratings. Since we are using the 0.2 x 0.2 slit, no peakup is required. Each target has a single 2-orbit visit with no repeat visits, one orbit for each grating.

Visit

Proposal 14761, Visit 01 Fri Jul 29 19:18:28 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

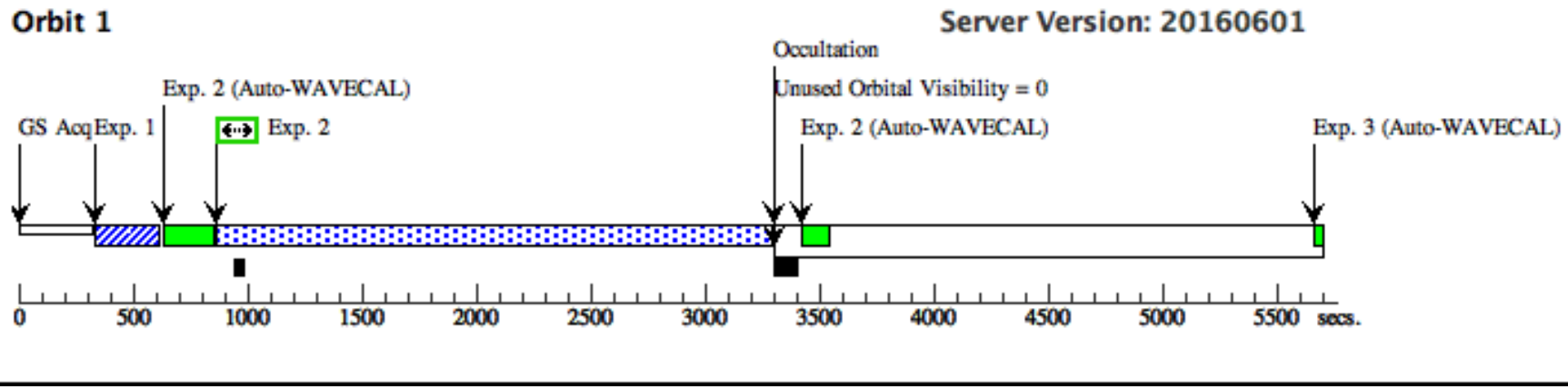
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	J004543.48+414513	RA: 00 45 43.4610 (11.4310875d) Dec: +41 45 13.60 (41.75378d) Equinox: J2000		V=19.08+/-0.01	Reference Frame: ICRS

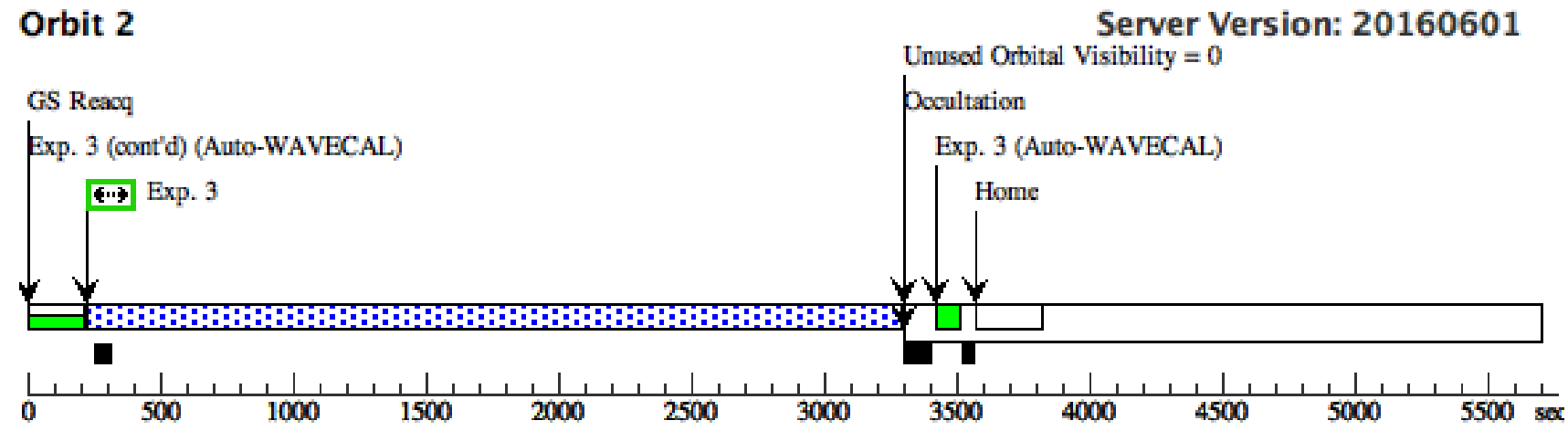
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) J004543.48+414513	STIS/CCD, ACQ, 50CCD	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	(STIS.sp.181107)	(1) J004543.48+414513	STIS/NUV-MAMA, ACCUM, 0.2X0.2	G230L 2376 A				2375 Secs (2357 Secs)	
								[==>2357.0 Secs]	***[1]***
3	(STIS.sp.181120)	(1) J004543.48+414513	STIS/FUV-MAMA, ACCUM, 0.2X0.2	G140L 1425 A				3025 Secs (3043 Secs)	
								[==>3043.0 Secs]	***[2]***

Orbit Structure





Visit

Proposal 14761, Visit 02 Fri Jul 29 19:18:29 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

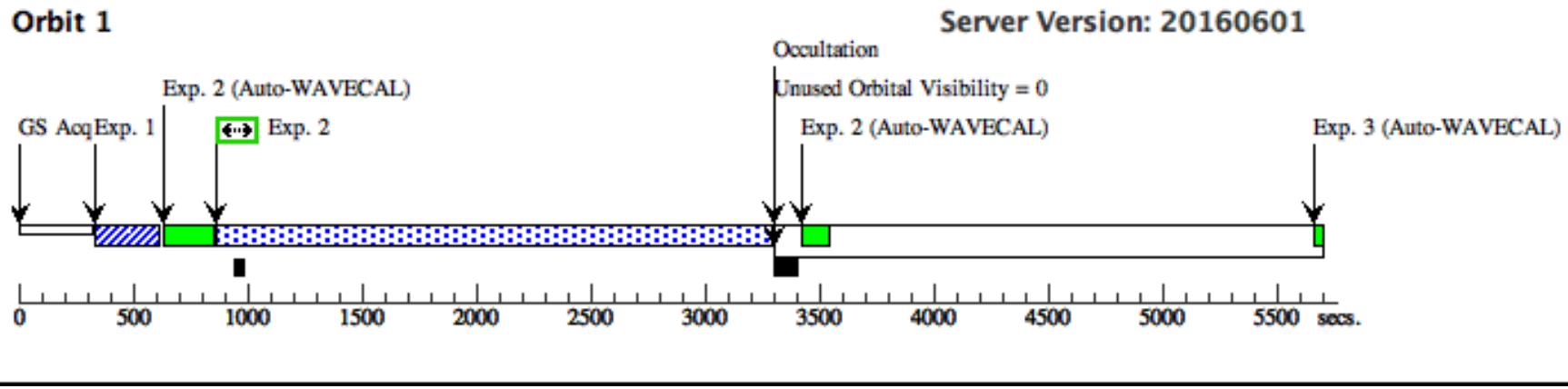
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	J004511.82+415025	RA: 00 45 11.8200 (11.2992500d) Dec: +41 50 25.30 (41.84036d) Equinox: J2000		V=18.23+/-0.01	Reference Frame: ICRS

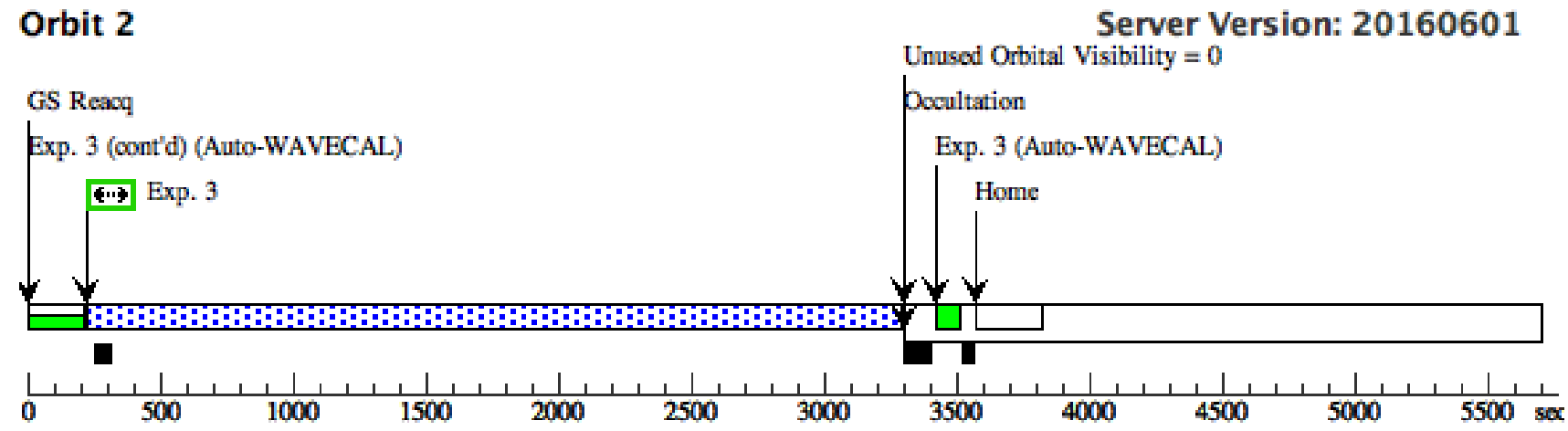
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(2) J004511.82+415025	STIS/CCD, ACQ, 50CCD	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	(STIS.sp.181107)	(2) J004511.82+415025	STIS/NUV-MAMA, ACCUM, 0.2X0.2	G230L 2376 A				2375 Secs (2357 Secs)	
								[==>2357.0 Secs]	***[1]***
3	(STIS.sp.181120)	(2) J004511.82+415025	STIS/FUV-MAMA, ACCUM, 0.2X0.2	G140L 1425 A				3025 Secs (3043 Secs)	
								[==>3043.0 Secs]	***[2]***

Orbit Structure





Visit

Proposal 14761, Visit 03 Fri Jul 29 19:18:29 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

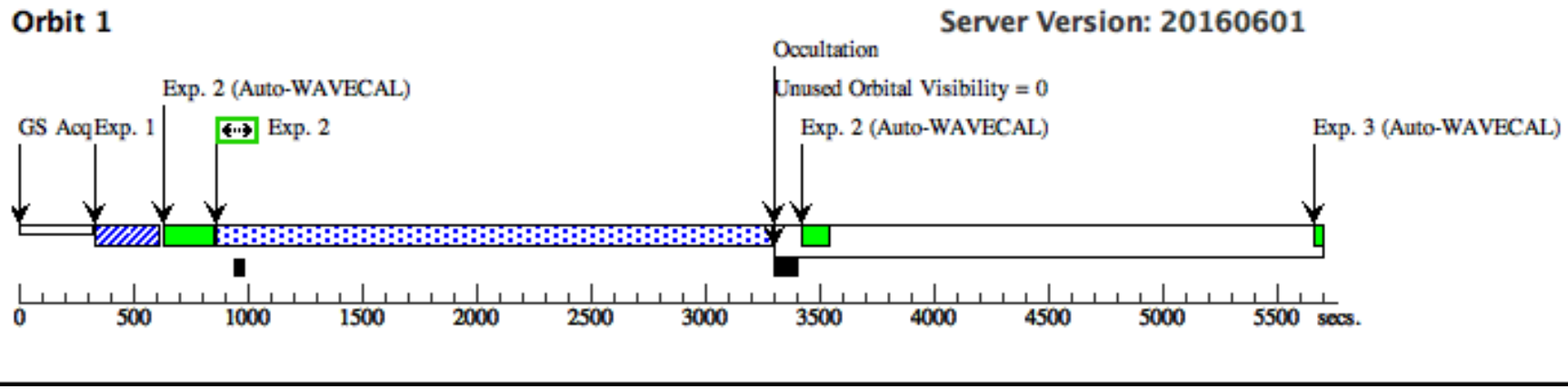
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	J004539.70+415054	RA: 00 45 39.7000 (11.4154167d) Dec: +41 50 54.80 (41.84856d) Equinox: J2000		V=19.36+/-0.01	Reference Frame: ICRS

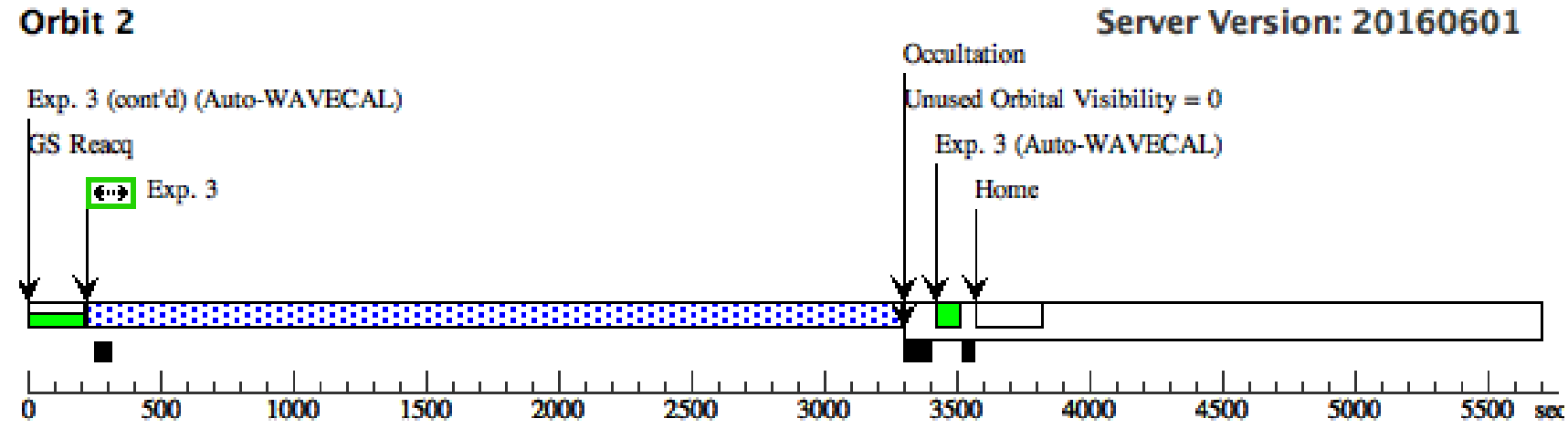
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(3) J004539.70+415054	STIS/CCD, ACQ, 50CCD	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	(STIS.sp.18 1107)	(3) J004539.70+415054	STIS/NUV-MAMA, ACCUM, 0.2X0.2	G230L 2376 A				2375 Secs (2357 Secs)	
								[==>2357.0 Secs]	***[1]***
3	(STIS.sp.18 1120)	(3) J004539.70+415054	STIS/FUV-MAMA, ACCUM, 0.2X0.2	G140L 1425 A				3025 Secs (3043 Secs)	
								[==>3043.0 Secs]	***[2]***

Orbit Structure





Visit

Proposal 14761, Visit 04 Fri Jul 29 19:18:29 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

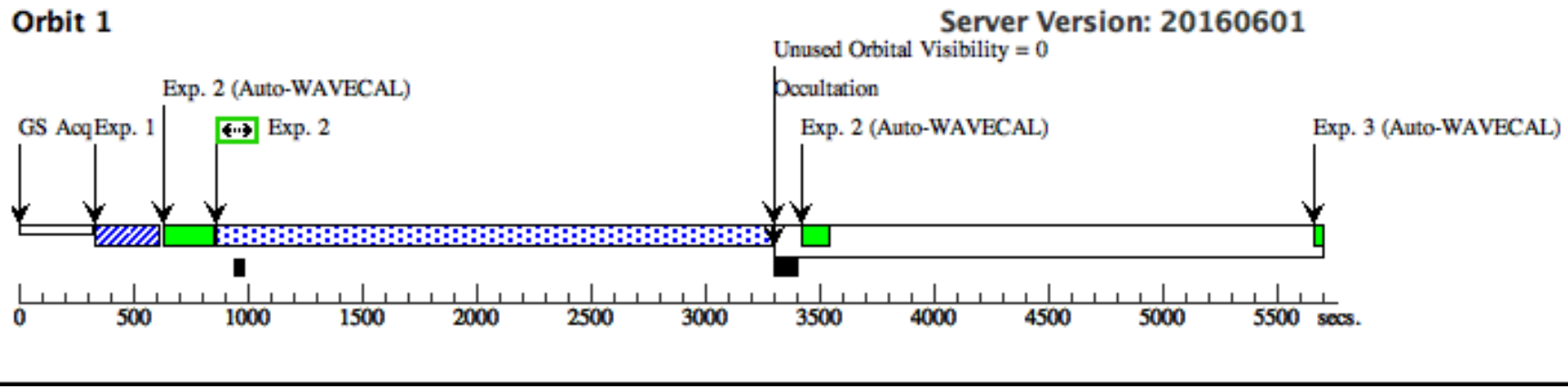
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	J004354.05+412626	RA: 00 43 54.0500 (10.9752083d) Dec: +41 26 26.00 (41.44056d) Equinox: J2000		V=19.04+/-0.01	Reference Frame: ICRS

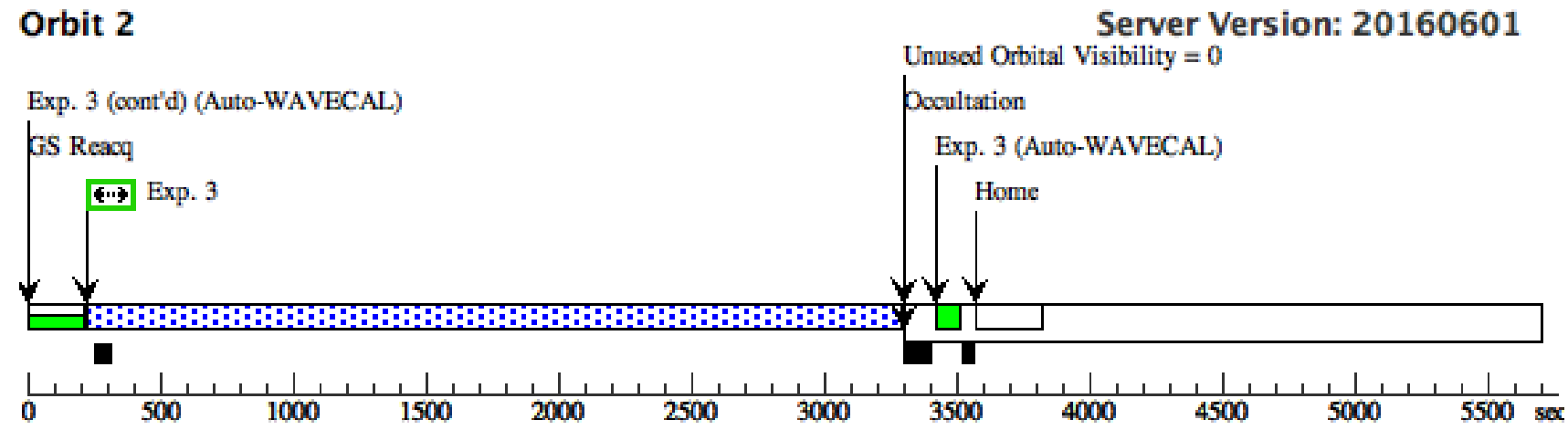
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(4) J004354.05+412626	STIS/CCD, ACQ, 50CCD	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	(STIS.sp.181107)	(4) J004354.05+412626	STIS/NUV-MAMA, ACCUM, 0.2X0.2	G230L 2376 A				2375 Secs (2357 Secs)	
								[==>2357.0 Secs]	***[1]***
3	(STIS.sp.181120)	(4) J004354.05+412626	STIS/FUV-MAMA, ACCUM, 0.2X0.2	G140L 1425 A				3025 Secs (3043 Secs)	
								[==>3043.0 Secs]	***[2]***

Orbit Structure





Visit

Proposal 14761, Visit 05 Fri Jul 29 19:18:29 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

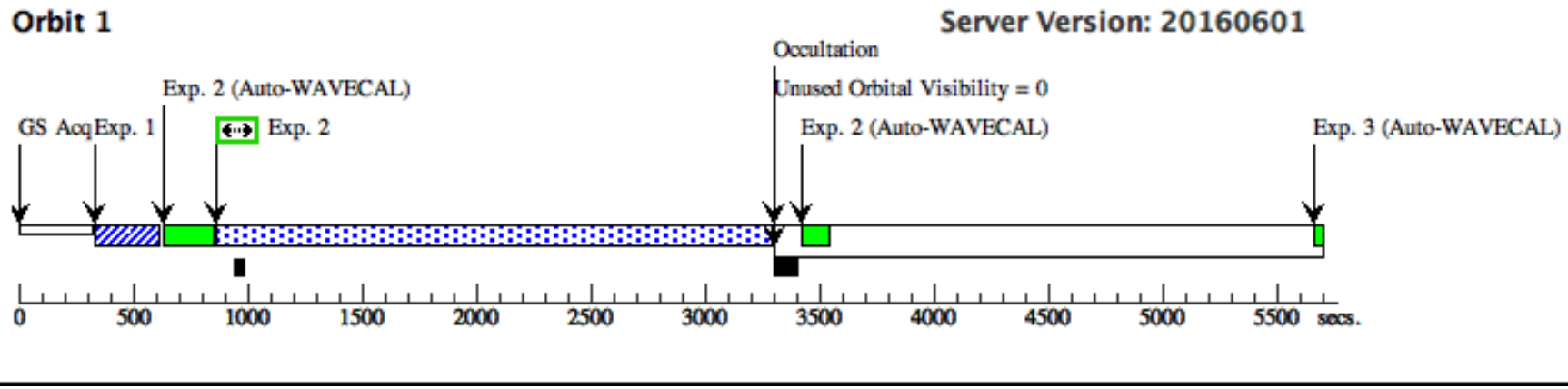
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	J004427.47+415150	RA: 00 44 27.4700 (11.1144583d) Dec: +41 51 50.00 (41.86389d) Equinox: J2000		V=19.15+/-0.01	Reference Frame: ICRS

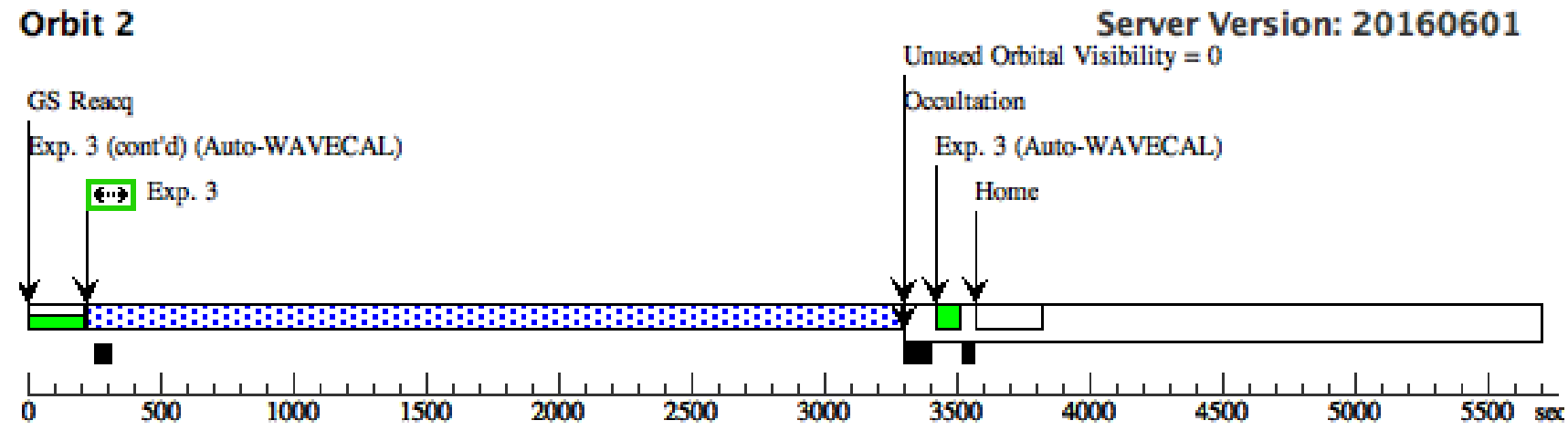
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(5) J004427.47+415150	STIS/CCD, ACQ, 50CCD	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	(STIS.sp.18 1107)	(5) J004427.47+415150	STIS/NUV-MAMA, ACCUM, 0.2X0.2	G230L 2376 A				2375 Secs (2357 Secs)	
								[==>2357.0 Secs]	***[1]***
3	(STIS.sp.18 1120)	(5) J004427.47+415150	STIS/FUV-MAMA, ACCUM, 0.2X0.2	G140L 1425 A				3025 Secs (3043 Secs)	
								[==>3043.0 Secs]	***[2]***

Orbit Structure





Visit

Proposal 14761, Visit 06 Fri Jul 29 19:18:29 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

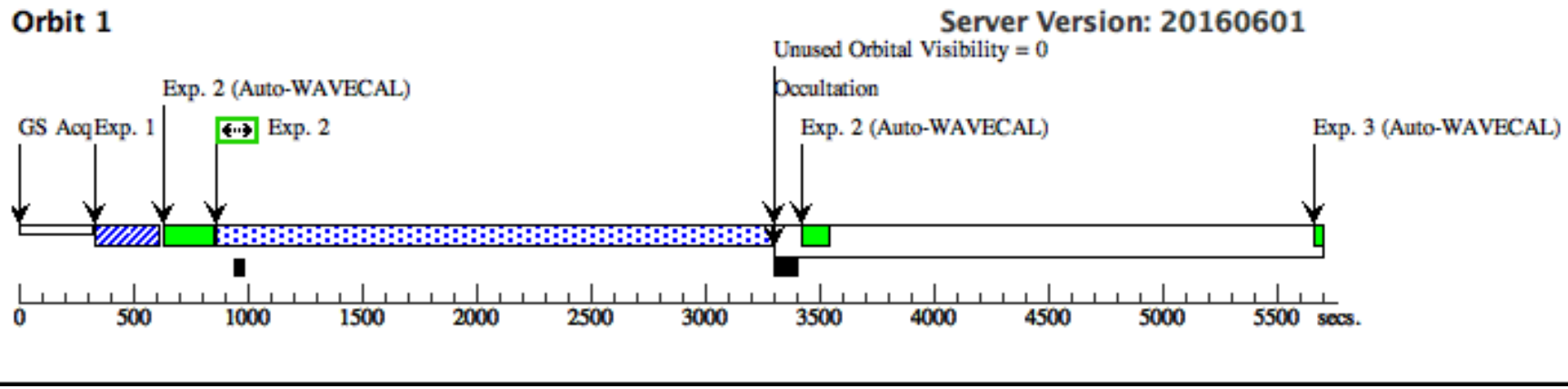
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	J004511.85+413712	RA: 00 45 11.8500 (11.2993750d) Dec: +41 37 12.90 (41.62025d) Equinox: J2000		V=18.4+/-0.01	Reference Frame: ICRS

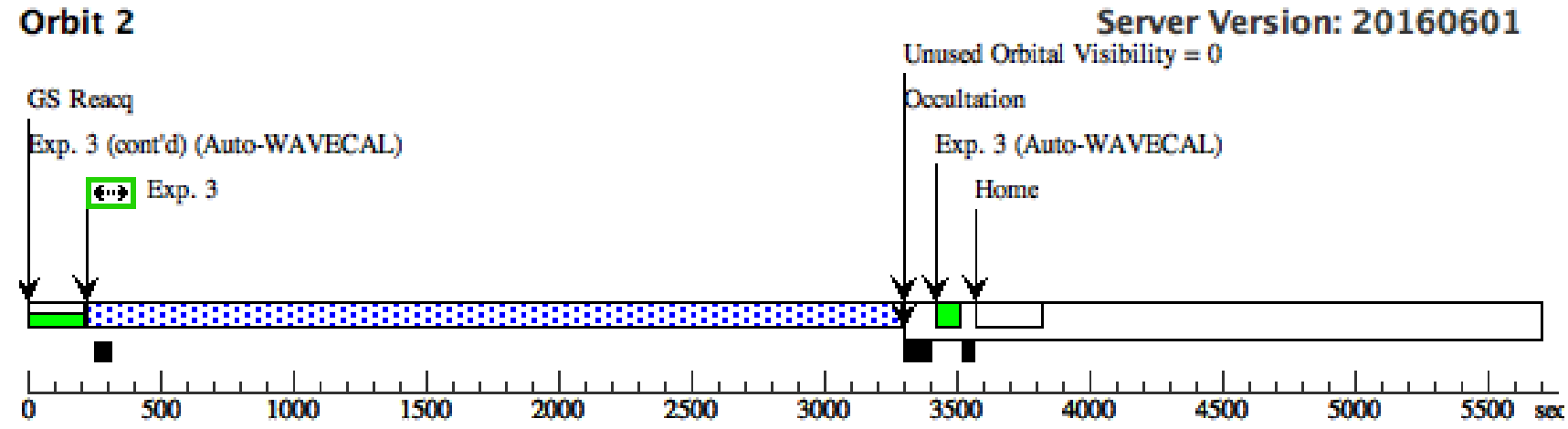
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(6) J004511.85+413712	STIS/CCD, ACQ, 50CCD	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	(STIS.sp.181107)	(6) J004511.85+413712	STIS/NUV-MAMA, ACCUM, 0.2X0.2	G230L 2376 A				2375 Secs (2357 Secs)	
								[==>2357.0 Secs]	***[1]***
3	(STIS.sp.181120)	(6) J004511.85+413712	STIS/FUV-MAMA, ACCUM, 0.2X0.2	G140L 1425 A				3025 Secs (3043 Secs)	
								[==>3043.0 Secs]	***[2]***

Orbit Structure





Visit

Proposal 14761, Visit 07 Fri Jul 29 19:18:29 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

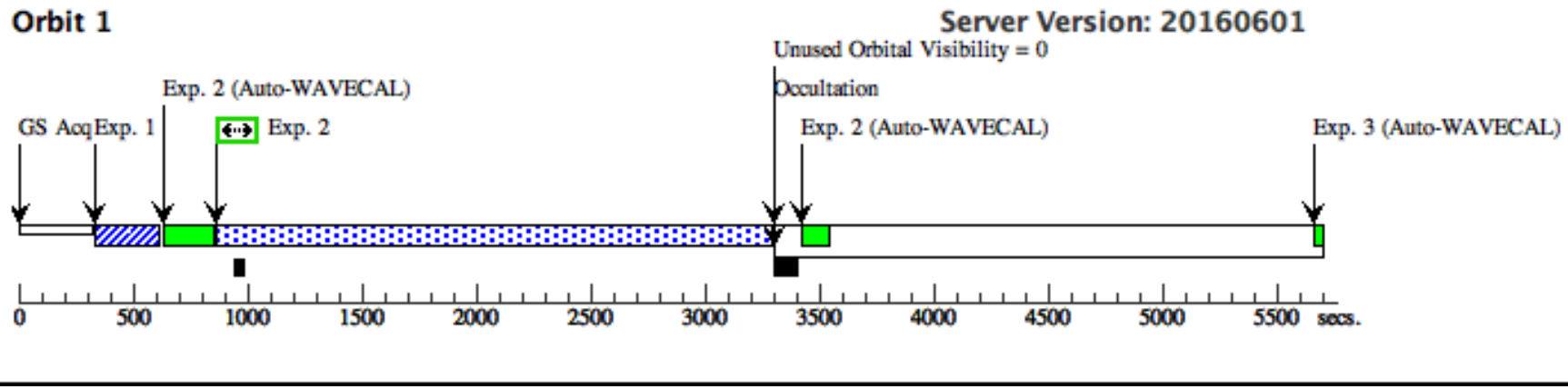
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	J004431.65+413612	RA: 00 44 31.6590 (11.1319125d) Dec: +41 36 12.44 (41.60346d) Equinox: J2000		V=16.79+/-0.01	Reference Frame: ICRS

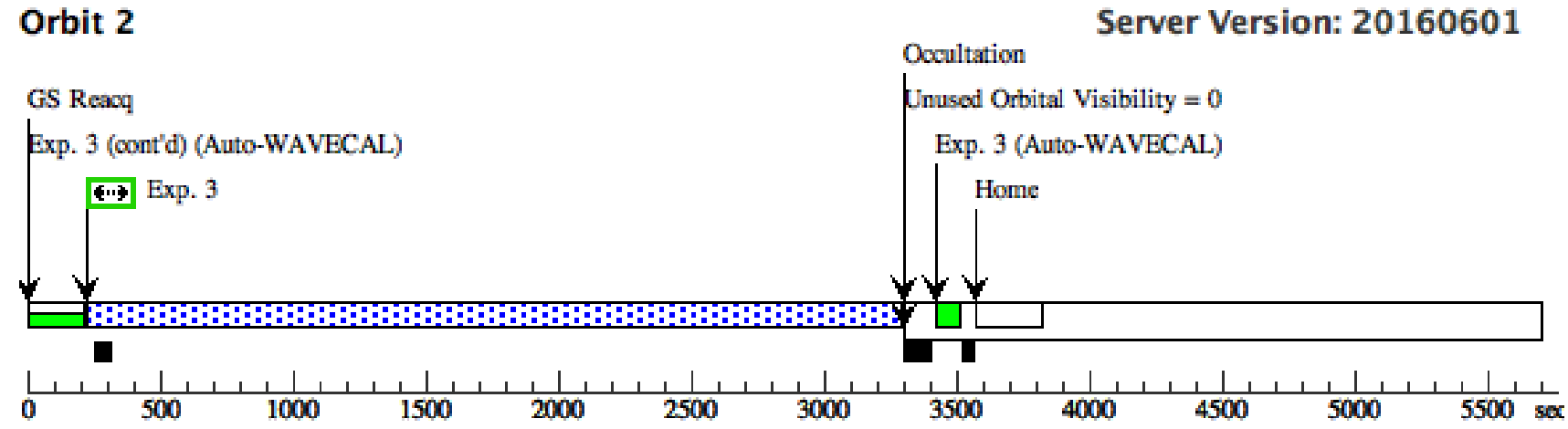
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(7) J004431.65+413612	STIS/CCD, ACQ, 50CCD	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	(STIS.sp.181107)	(7) J004431.65+413612	STIS/NUV-MAMA, ACCUM, 0.2X0.2	G230L 2376 A				2375 Secs (2357 Secs)	
								[==>2357.0 Secs]	***[1]***
3	(STIS.sp.181120)	(7) J004431.65+413612	STIS/FUV-MAMA, ACCUM, 0.2X0.2	G140L 1425 A				3025 Secs (3043 Secs)	
								[==>3043.0 Secs]	***[2]***

Orbit Structure





Visit

Proposal 14761, Visit 08 Fri Jul 29 19:18:29 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

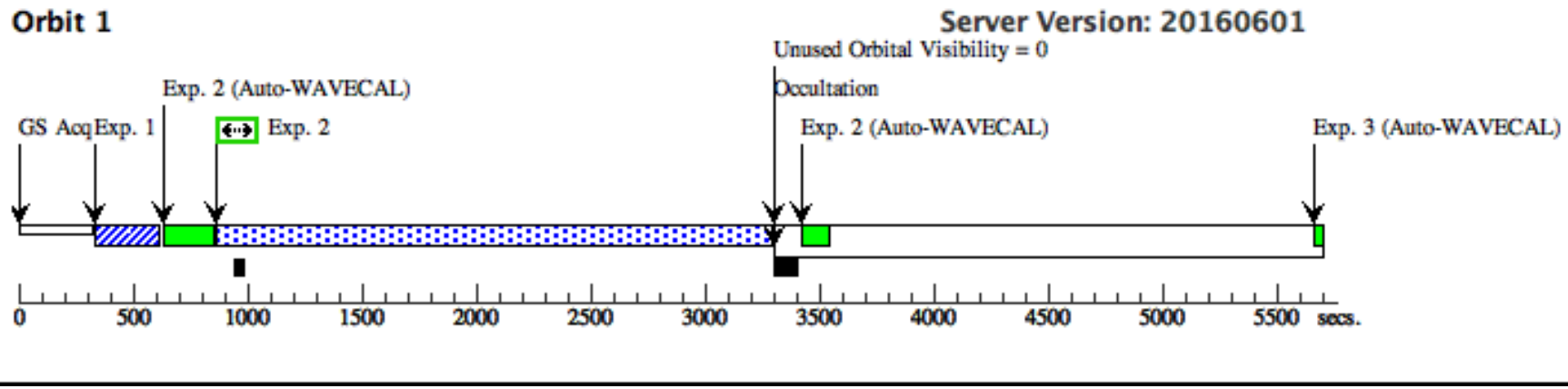
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(8)	J004438.75+415553	RA: 00 44 38.7060 (11.1612750d) Dec: +41 55 53.45 (41.93151d) Equinox: J2000		V=17.25+/-0.01	Reference Frame: ICRS

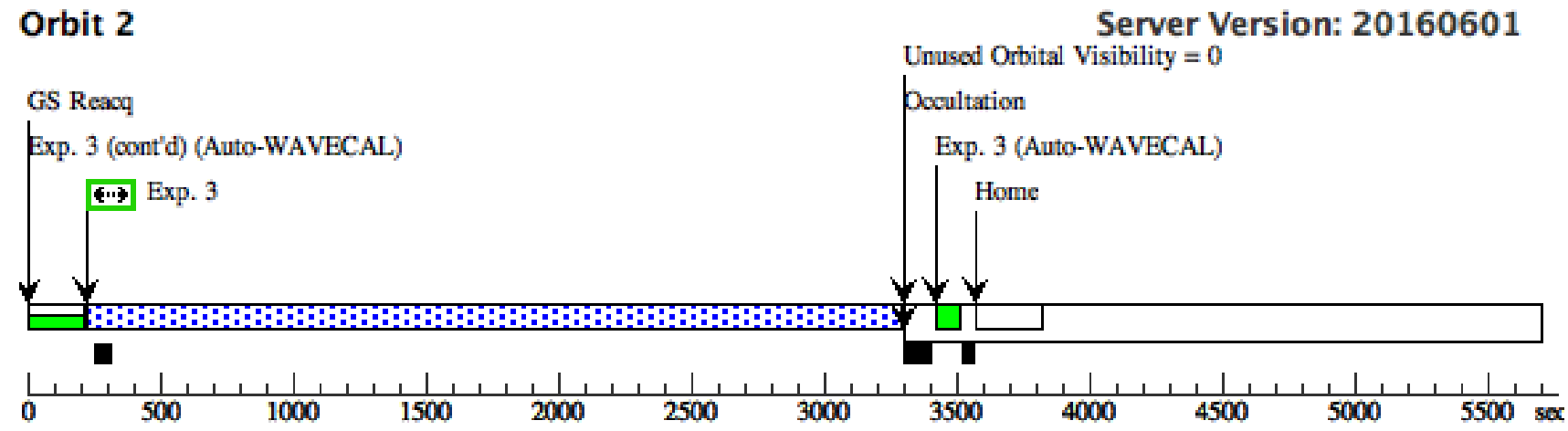
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(8) J004438.75+415553	STIS/CCD, ACQ, 50CCD	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	(STIS.sp.18 1107)	(8) J004438.75+415553	STIS/NUV-MAMA, ACCUM, 0.2X0.2	G230L 2376 A				2375 Secs (2357 Secs)	
								[==>2357.0 Secs]	***[1]***
3	(STIS.sp.18 1120)	(8) J004438.75+415553	STIS/FUV-MAMA, ACCUM, 0.2X0.2	G140L 1425 A				3025 Secs (3043 Secs)	
								[==>3043.0 Secs]	***[2]***

Orbit Structure





Visit

Proposal 14761, Visit 09 Fri Jul 29 19:18:29 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

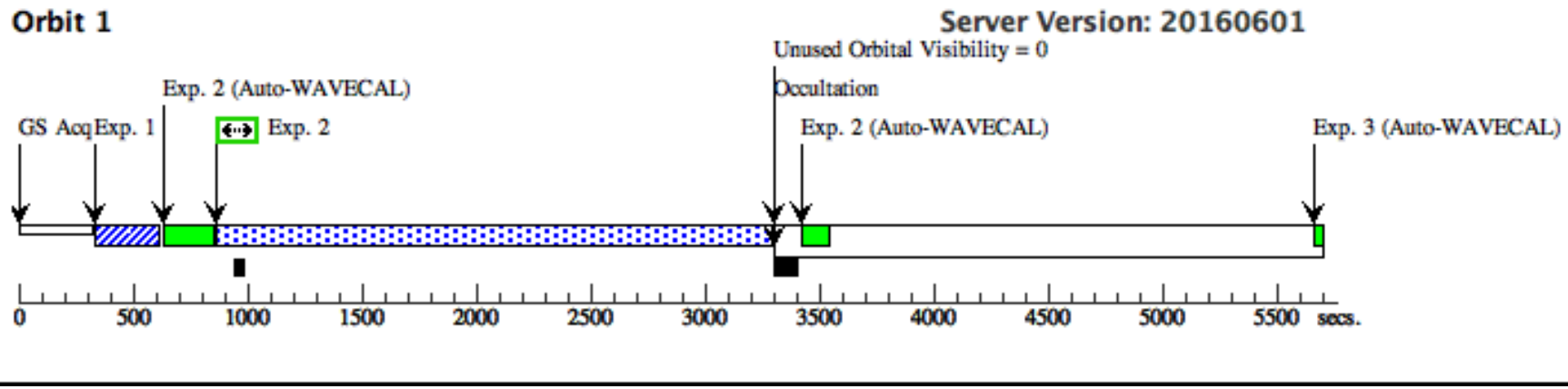
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(9)	J004420.52+411751	RA: 00 44 20.5200 (11.0855000d) Dec: +41 17 51.10 (41.29753d) Equinox: J2000		V=18.63+/-0.01	Reference Frame: ICRS

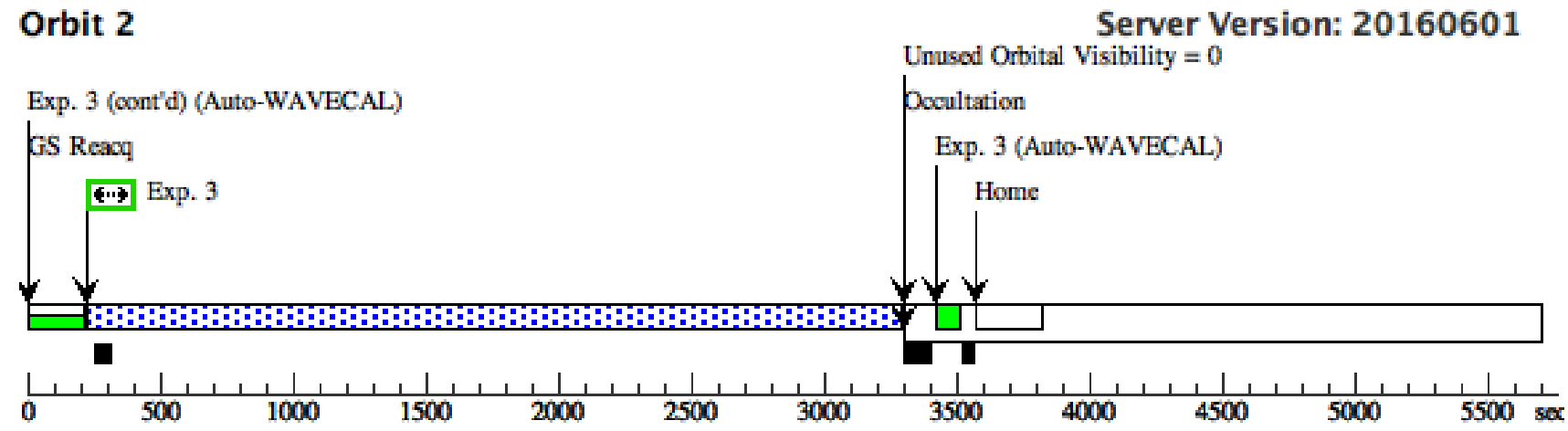
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(9) J004420.52+411751	STIS/CCD, ACQ, 50CCD	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	(STIS.sp.181107)	(9) J004420.52+411751	STIS/NUV-MAMA, ACCUM, 0.2X0.2	G230L 2376 A				2375 Secs (2357 Secs)	
								[==>2357.0 Secs]	***[1]***
3	(STIS.sp.181120)	(9) J004420.52+411751	STIS/FUV-MAMA, ACCUM, 0.2X0.2	G140L 1425 A				3025 Secs (3043 Secs)	
								[==>3043.0 Secs]	***[2]***

Orbit Structure





Visit

Proposal 14761, Visit 10 Fri Jul 29 19:18:29 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

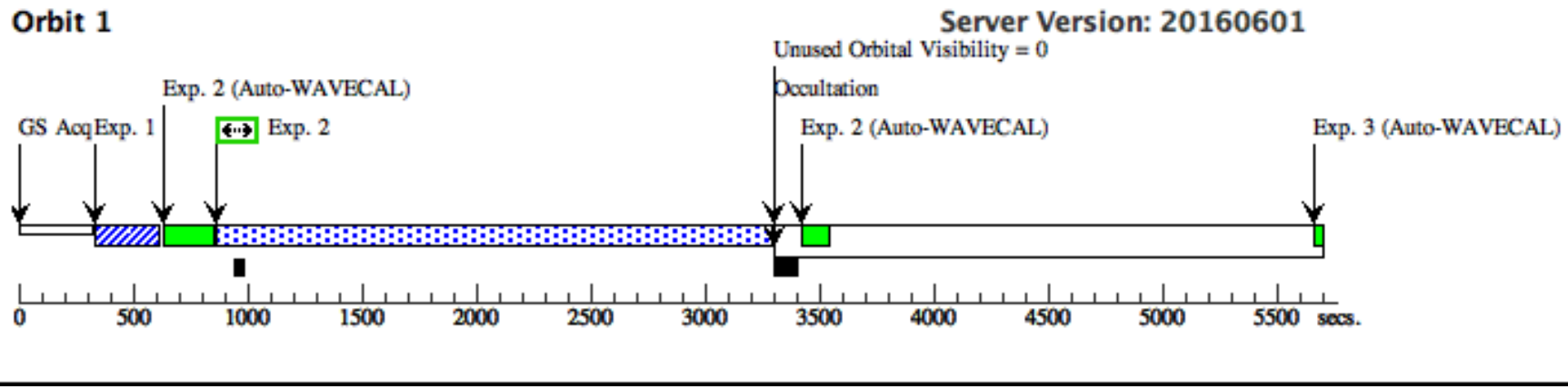
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(10)	J004546.81+415431	RA: 00 45 46.8100 (11.4450417d) Dec: +41 54 31.70 (41.90881d) Equinox: J2000		V=18.79+/-0.01	Reference Frame: ICRS

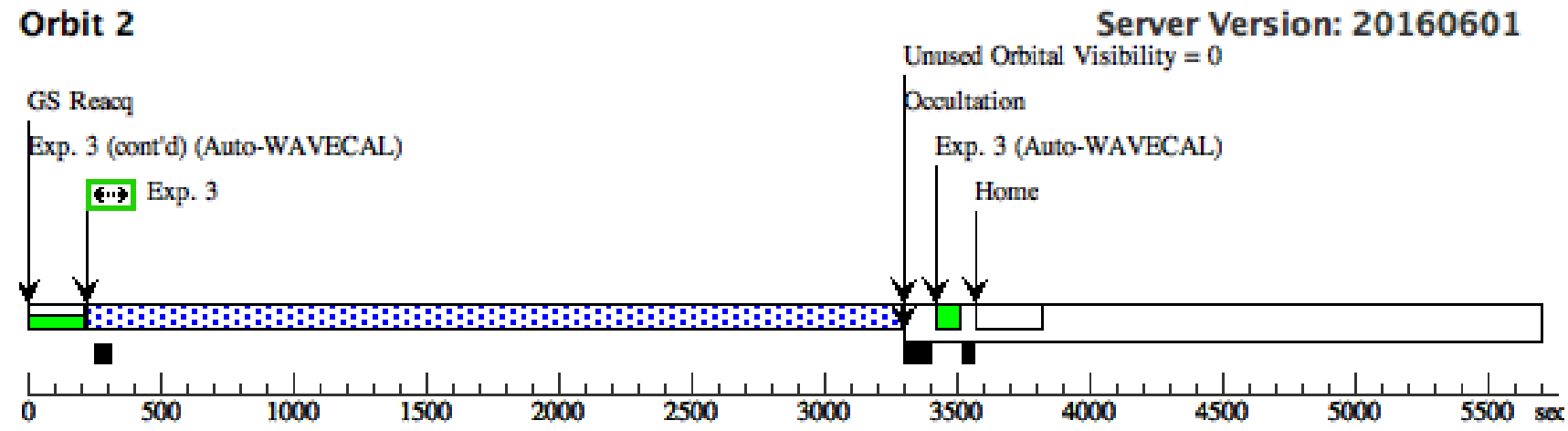
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(10) J004546.81+415431	STIS/CCD, ACQ, 50CCD	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	(STIS.sp.181107)	(10) J004546.81+415431	STIS/NUV-MAMA, ACCUM, 0.2X0.2	G230L 2376 A				2375 Secs (2357 Secs)	
								[==>2357.0 Secs]	***[1]***
3	(STIS.sp.181120)	(10) J004546.81+415431	STIS/FUV-MAMA, ACCUM, 0.2X0.2	G140L 1425 A				3025 Secs (3043 Secs)	
								[==>3043.0 Secs]	***[2]***

Orbit Structure





Visit

Proposal 14761, Visit 11 Fri Jul 29 19:18:29 GMT 2016

Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

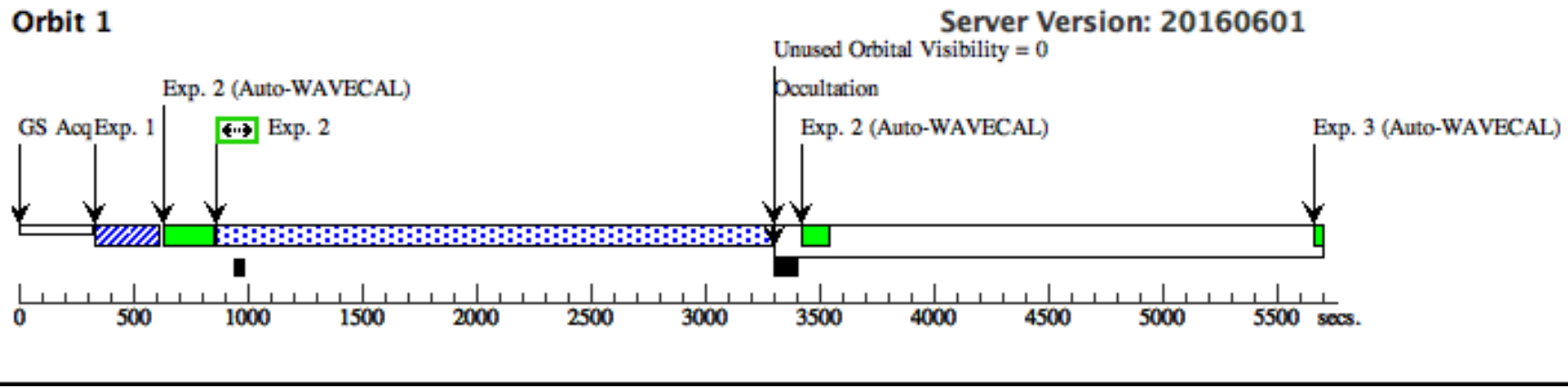
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(11)	J004413.84+414903	RA: 00 44 13.8400 (11.0576667d) Dec: +41 49 3.90 (41.81775d) Equinox: J2000		V=18.85+/-0.01	Reference Frame: ICRS

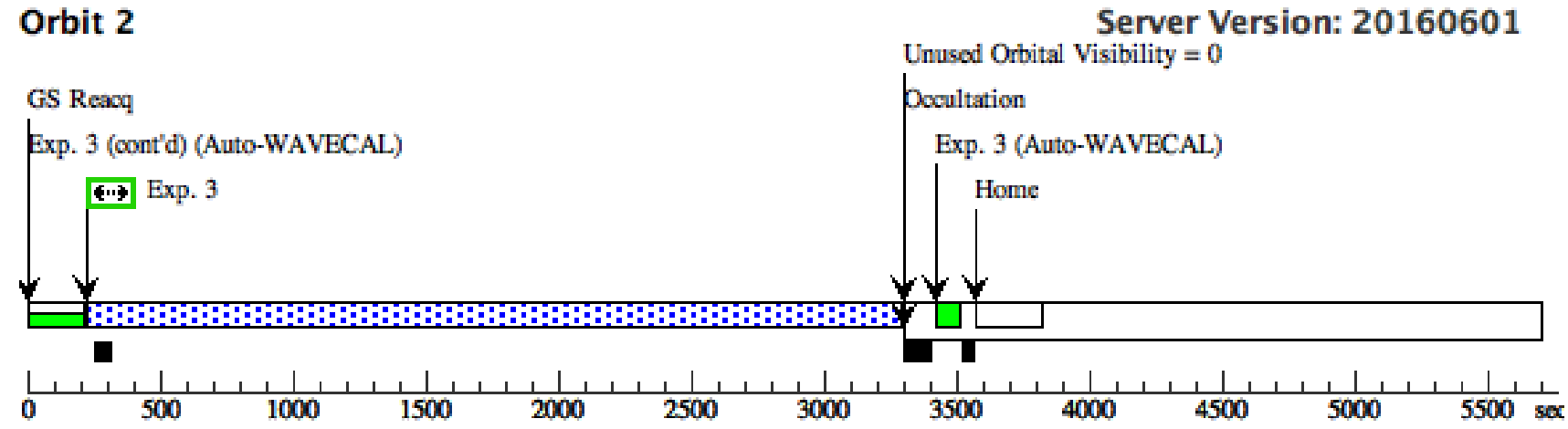
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(11) J004413.84+414903	STIS/CCD, ACQ, 50CCD	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	(STIS.sp.181107)	(11) J004413.84+414903	STIS/NUV-MAMA, ACCUM, 0.2X0.2	G230L 2376 A				2375 Secs (2357 Secs)	
								[==>2357.0 Secs]	***[1]***
3	(STIS.sp.181120)	(11) J004413.84+414903	STIS/FUV-MAMA, ACCUM, 0.2X0.2	G140L 1425 A				3025 Secs (3043 Secs)	
								[==>3043.0 Secs]	***[2]***

Orbit Structure





Visit

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Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

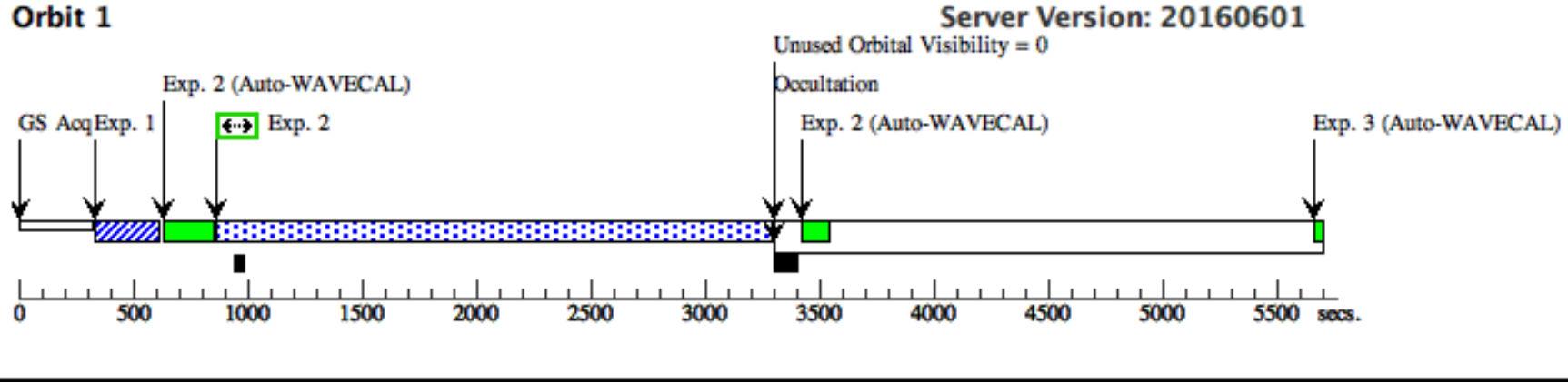
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(12)	J004454.37+412823	RA: 00 44 54.3700 (11.2265417d) Dec: +41 28 23.90 (41.47331d) Equinox: J2000		V=18.49+/-0.01	Reference Frame: ICRS

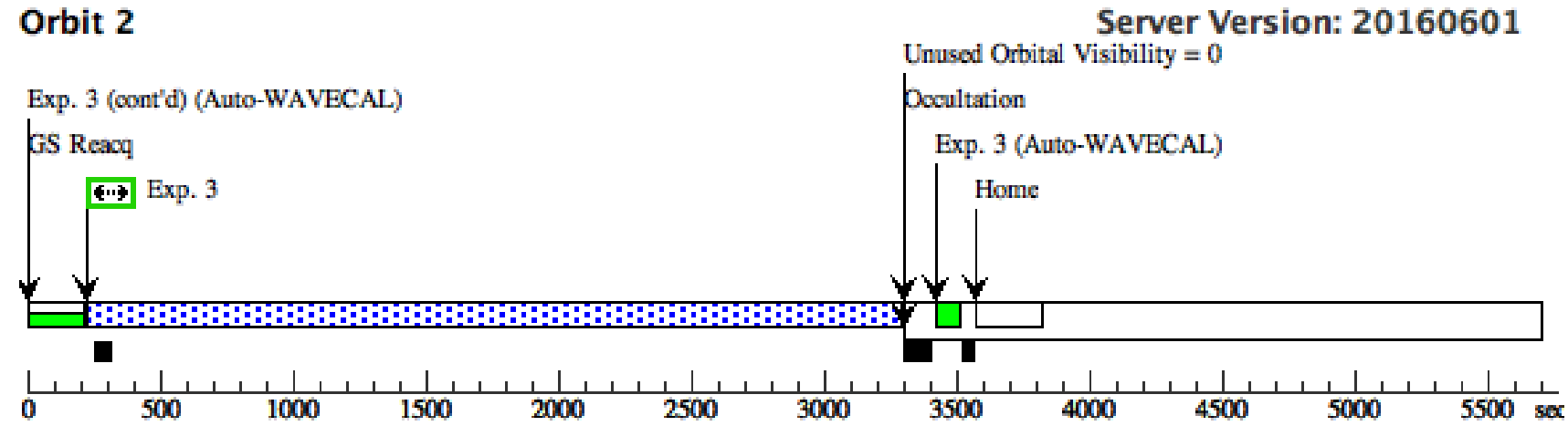
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(12) J004454.37+412823	STIS/CCD, ACQ, 50CCD	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	(STIS.sp.181107)	(12) J004454.37+412823	STIS/NUV-MAMA, ACCUM, 0.2X0.2	G230L 2376 A				2375 Secs (2357 Secs)	
								[==>2357.0 Secs]	***[1]***
3	(STIS.sp.181120)	(12) J004454.37+412823	STIS/FUV-MAMA, ACCUM, 0.2X0.2	G140L 1425 A				3025 Secs (3043 Secs)	
								[==>3043.0 Secs]	***[2]***

Orbit Structure





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Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

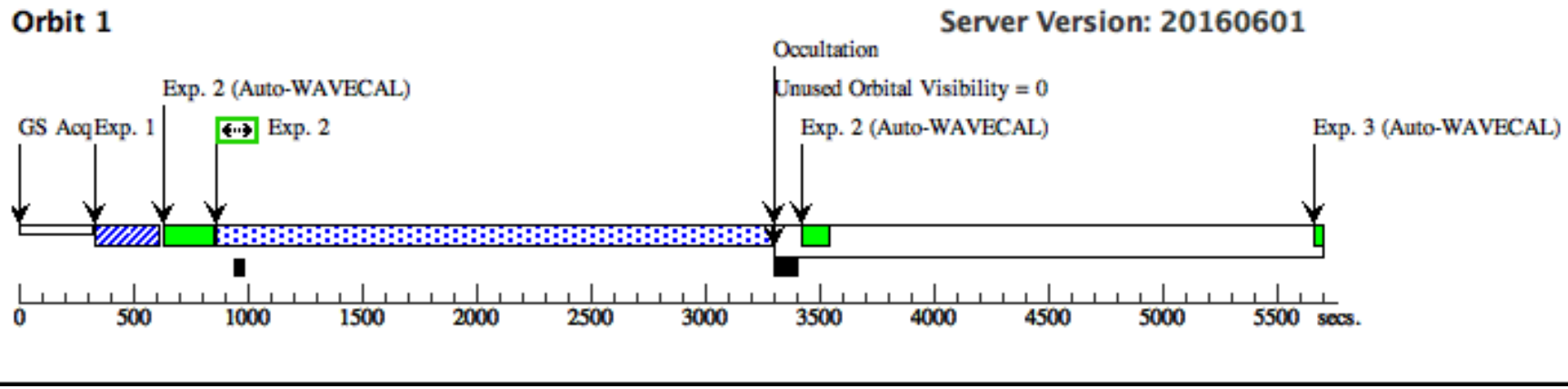
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(13)	J004539.00+415439	RA: 00 45 39.0000 (11.4125000d) Dec: +41 54 39.00 (41.91083d) Equinox: J2000		V=19.50+/-0.01	Reference Frame: ICRS

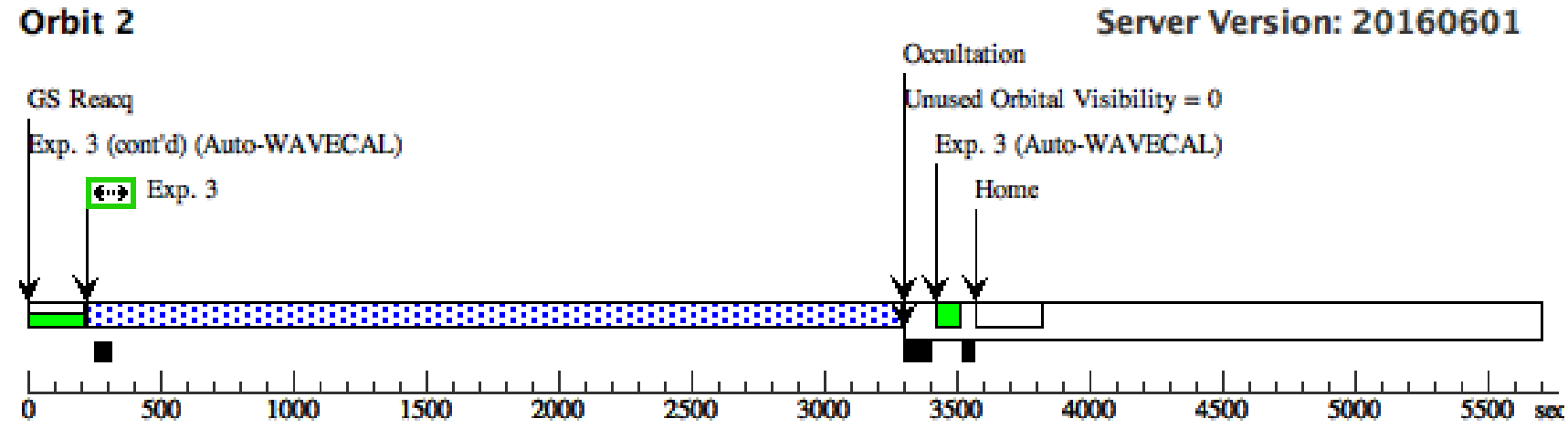
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(13) J004539.00+415439	STIS/CCD, ACQ, 50CCD	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	(STIS.sp.181107)	(13) J004539.00+415439	STIS/NUV-MAMA, ACCUM, 0.2X0.2	G230L 2376 A				2375 Secs (2357 Secs)	
								[==>2357.0 Secs]	***[1]***
3	(STIS.sp.181120)	(13) J004539.00+415439	STIS/FUV-MAMA, ACCUM, 0.2X0.2	G140L 1425 A				3025 Secs (3043 Secs)	
								[==>3043.0 Secs]	***[2]***

Orbit Structure





Visit

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Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

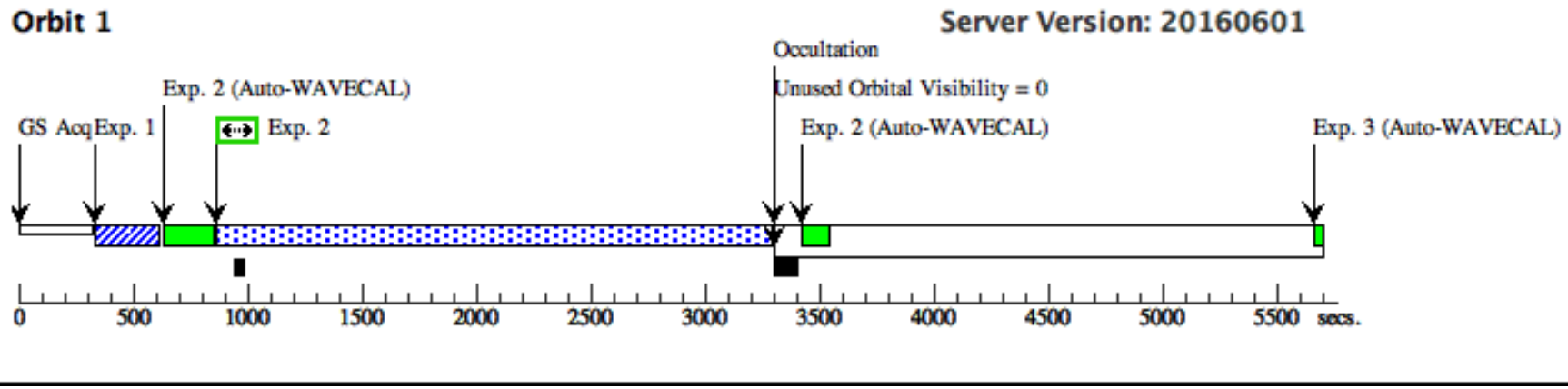
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(14)	J004512.74+413726	RA: 00 45 12.7320 (11.3030500d) Dec: +41 37 26.36 (41.62399d) Equinox: J2000		V=19.28+/-0.01	Reference Frame: ICRS

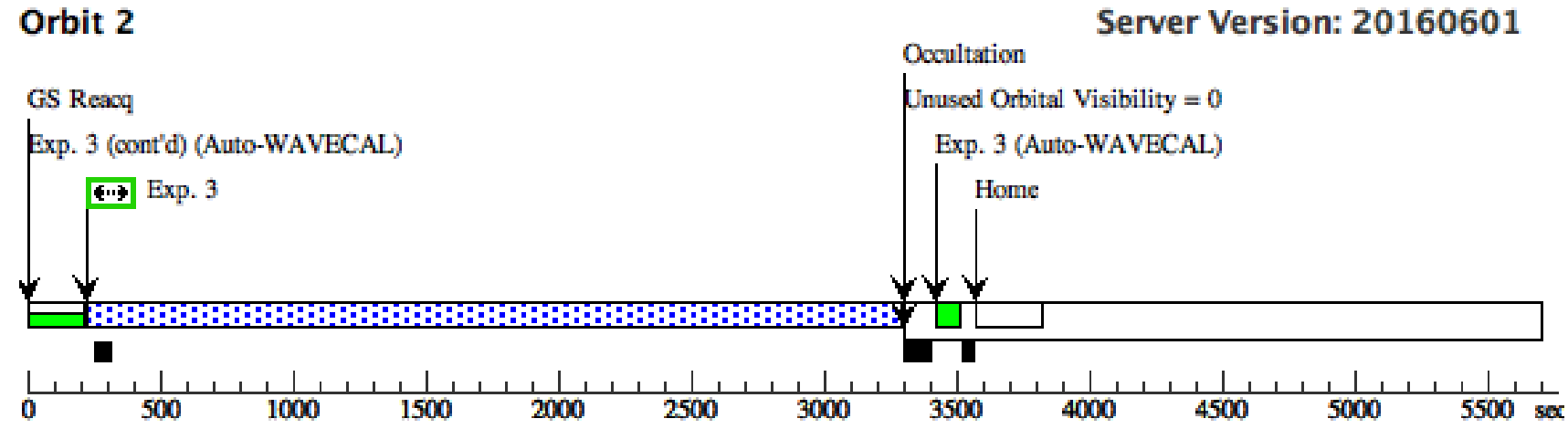
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(14) J004512.74+413726	STIS/CCD, ACQ, 50CCD	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	(STIS.sp.181107)	(14) J004512.74+413726	STIS/NUV-MAMA, ACCUM, 0.2X0.2	G230L 2376 A				2375 Secs (2357 Secs)	
								[==>2357.0 Secs]	***[1]***
3	(STIS.sp.181120)	(14) J004512.74+413726	STIS/FUV-MAMA, ACCUM, 0.2X0.2	G140L 1425 A				3025 Secs (3043 Secs)	
								[==>3043.0 Secs]	***[2]***

Orbit Structure





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Diagnostic Status: No Diagnostics

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

Special Requirements: (none)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(15)	J004535.40+414431	RA: 00 45 35.4000 (11.3975000d) Dec: +41 44 31.50 (41.74208d) Equinox: J2000		V=19.46+/-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		(15) J004535.40+414431	STIS/CCD, ACQ, 50CCD	MIRROR				10 Secs (10 Secs)	
								[==>]	***[1]***
2	(STIS.sp.18 1107)	(15) J004535.40+414431	STIS/NUV-MAMA, ACCUM, 0.2X0.2	G230L 2376 A				2375 Secs (2357 Secs)	
								[==>2357.0 Secs]	***[1]***
3	(STIS.sp.18 1120)	(15) J004535.40+414431	STIS/FUV-MAMA, ACCUM, 0.2X0.2	G140L 1425 A				3025 Secs (3043 Secs)	
								[==>3043.0 Secs]	***[2]***

Orbit Structure