14797 - Atmospheric Albedos, Alkalis, and Aerosols of Hot Jupiters

Cycle: 24, Proposal Category: GO

(JWST Initative)

(Availability Mode: AVAILABLE)

INVESTIGATORS

Name	*Institution*	*E-Mail*
Dr. Ian Crossfield (PI) (Contact)	**University of California - Santa Cruz**	**ianc@ucsc.edu**
Dr. Tom M Evans (CoI) (ESA Member)	University of Exeter	tevans@astro.ex.ac.uk
Dr. Joanna Barstow (CoI) (ESA Member)	University College London (UCL)	joannakbarstow@cantab.net
Dr. Heather A. Knutson (CoI)	California Institute of Technology	hknutson@caltech.edu
Dr. Nick Cowan (CoI) (CSA Member)	McGill University	nicolas.cowan@mcgill.ca
Dr. Neale Gibson (CoI) (ESA Member)	The Queen's University of Belfast	n.gibson@qub.ac.uk
Joel Colin Schwartz (CoI)	Northwestern University	joelschwartz2011@u.northwestern.edu
Dr. Tiffany Kataria (CoI)	Jet Propulsion Laboratory	tiffany.kataria@jpl.nasa.gov
Prof. David Kent Sing (CoI) (ESA Member)	University of Exeter	sing@astro.ex.ac.uk
Joshua Lothringer (CoI)	University of Arizona	jlothrin@lpl.arizona.edu
Dr. Bjoern Benneke (CoI)	California Institute of Technology	bbenneke@caltech.edu
Dr. Travis Stuart Barman (CoI)	University of Arizona	barman@lpl.arizona.edu
Dr. Nikolay Nikolov (CoI) (ESA Member)	University of Exeter	nikolov.nkn@gmail.com

VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(1) HD189733 WAVE	STIS/CCD	4	29-Jul-2016 15:49:21.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
02	(1) HD189733 WAVE	STIS/CCD	4	29-Jul-2016 15:49:32.0	yes
03	(1) HD189733 WAVE	STIS/CCD	4	29-Jul-2016 15:49:43.0	yes
04	(2) HD209458 WAVE	STIS/CCD	5	29-Jul-2016 15:49:55.0	yes
05	(2) HD209458 WAVE	STIS/CCD	5	29-Jul-2016 15:50:08.0	yes
06	(2) HD209458 WAVE	STIS/CCD	5	29-Jul-2016 15:50:22.0	yes
07	(3) WASP-12 WAVE	STIS/CCD	5	29-Jul-2016 15:50:28.0	yes
08	(4) WASP-43 WAVE	STIS/CCD	4	29-Jul-2016 15:50:32.0	yes
09	(4) WASP-43 WAVE	STIS/CCD	4	29-Jul-2016 15:50:34.0	yes
10	(4) WASP-43 WAVE	STIS/CCD	4	29-Jul-2016 15:50:37.0	yes

44 Total Orbits Used

ABSTRACT

The lack of visible-wavelength albedo measurements for even the best-characterized hot Jupiters is a gaping hole in our current understanding of these planets' atmospheres, as the UV+optical albedo spectrum contains a wealth of information about the atmosphere that is unavailable at other wavelengths. Rayleigh scattering and absorption by atoms, molecules, and cloud condensates all sculpt the as-yet unexplored visible reflection and emission spectra of hot Jupiters -- but the relative contributions of these processes remains undetermined.

We propose to measure the UV+optical reflection spectra of the four best-studied hot Jupiters with STIS, building on our one-eclipse STIS pilot program that measured the first low-S/N exoplanetary albedo spectrum. Our proposal will greatly expand on our previous measurement by bringing higher spectral resolution, higher S/N, and a larger sample of well-studied planets. With these data, our full program will: (1) test for highly reflective mineral clouds on these planets' day sides; (2) measure the abundances of alkalis and any atmospheric aerosols; (3) measure the

composition and size distributions of cloud or haze particles; and (4) explain the discrepancy between these planets' Bond and geometric albedos.

HST/STIS is the only current or planned instrument that can make these observations. This program leverages HST's unique UV+optical sensitivity shortward of 600 nm, in preparation for the JWST GTO/Cycle 1 spectroscopy at longer wavelengths that will complement our observations of these touchstone planets.

OBSERVING DESCRIPTION

This program uses STIS to perform precision spectrophotometry during secondary eclipse events for four transiting exoplanets (HD189733 b, HD209458 b, WASP-12 b, WASP43 b).

We will observe three of the targets (HD189733, HD209458, WASP-43) over three HST visits and one target (WASP-12) over one HST visit. During each visit, we will observe a single secondary eclipse. For HD189733 and WASP-43 each visit will consist of four HST orbits. For HD209458 and WASP-12 each visit will consist of five HST orbits. All visits will be done at blue wavelengths with the G430L grating. Each visit will allow sufficient time (one HST orbit before eclipse, one HST orbit after eclipse) to establish the baseline stellar flux necessary to accurately measure the eclipse depth. We also allow for the fact that the first HST orbit of each visit will likely not be used for primary analysis, as the telescope thermally relaxes into its new pointing position during that time. This is a well known phenomenon and all other similar transiting HST programs have adopted this strategy. For all four targets, this will result in a total of 44 HST orbits.

All observations will be made in spectroscopic mode. The STIS observations will be made with the 52x2 arcsec slit to avoid slit losses. At the start of each visit, a standard phase-constrained acquisition image will be taken. The subsequent observing strategy consists of taking repeated exposures for the duration of the eclipse, plus time before and after the eclipse to establish the out-of-eclipse baseline flux.

We will read out a subarray size of 128 pixels to reduce overheads (SIZEAXIS2=128). As in our previous Programs 12473 and 11740, we will override the default wavelength calibrations at the end of each exposure (WAVECAL=NO). This is done to improve the duty cycle and to allow the thermal breathing trends to be removed, which is only possible with an un-interrupted photometric time series. A separate wavelength calibration image will be taken at the end of each visit.

For our two brightest targets (HD189733, HD209458) we will use exposure times of 63 seconds, obtaining ~33 exposures per HST orbit. This will

allow the detector to saturate while maintaining an efficient duty cycle. For our two fainter targets (WASP-12, WASP-43) we will adopt longer exposure times close to 275 seconds to maximize the duty cycle, obtaining 10 exposures per HST orbit. For each exposure, S/N levels per resolution element between 180 (for WASP-43) and 1100 (for HD209458) at 4000 Angstrom are reached for our targets with the G430L (V=7.6 to 12.4).

--------- Additional Comments ----------

Availability=AVAILABLE mode was enabled to increase the duty cycle of the STIS observations and prevent auto-wave calibration from disrupting the transit time sequence in each STIS visit. An explicit wavecal has been added to the end of each observing sequence. We were given permission to use this mode in past HST programs (e.g. 12473 and 11572).

For WASP-12's observation, we impose an ORIENT requirement to avoid spectral contamination from a stellar binary known to lie only 1 arcsec away from our primary target star.

Visit

Proposal 14797, HD189733_G430L_ECL1 (01), implementation Fri Jul 29 19:50:39 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD

Special Requirements: Period 2.21857595 D AND ZERO-PHASE HJD2455558.44716

Comments: HD189733. G430L. 1 of 3 STIS visits. Each of the 4 HST orbits contain a non-interruptible sequence. It is essential that the 4 HST orbits be scheduled in a continuous block. We have no ORIENT constraints.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HD189733	RA: 20 00 43.7000 (300.1820833d)	Proper Motion RA: -2.14 mas/yr	V=7.67	Reference Frame: ICRS
		Dec: +22 42 39.07 (22.71085d)	Proper Motion Dec: -251.4 mas/yr		
		Equinox: J2000	Epoch of Position: 2000		

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

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ, phase constrained (STIS.ta.820948)	(1) HD189733	STIS/CCD, ACQ, F28X50OII	MIRROR		PHASE 0.9287 TO 0.9358	Sequence 1-2 Non-Int in HD189733_G430L_ECL1 (01)	5 Secs (5 Secs) *[==>]*	***[1]***
2	HD189733 G430L Orbit 1 (STIS.sp.820986)	(1) HD189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	SIZEAXIS2=128; CR-SPLIT=NO; GAIN=4; WAVECAL=NO		Sequence 1-2 Non-Int in HD189733_G430L_ECL1 (01)	64 Secs X 29 (1856 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]*	***[1]***
3	HD189733 G430L Orbit 2 (STIS.sp.820985)	(1) HD189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128; WAVECAL=NO		Sequence 3-4 Non-Int in HD189733_G430L_ECL1 (01)	1 Secs (1 Secs) *[==>]*	***[2]***

Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.

4	HD189733 G430L Orbit 2 (STIS.sp.820987)	(1) HD189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	SIZEAXIS2=128; CR-SPLIT=NO; GAIN=4; WAVECAL=NO	Sequence 3-4 Non-Int in HD189733_G430L_ECL1 (01)	69 Secs X 33 (2277 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[2]***
5	HD189733 G430L Orbit 3 (STIS.sp.820985)	(1) HD189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128; WAVECAL=NO	Sequence 5-6 Non-Int in HD189733_G430L_ECL1 (01)	1 Secs (1 Secs) *[==>]*	***[3]***

Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.

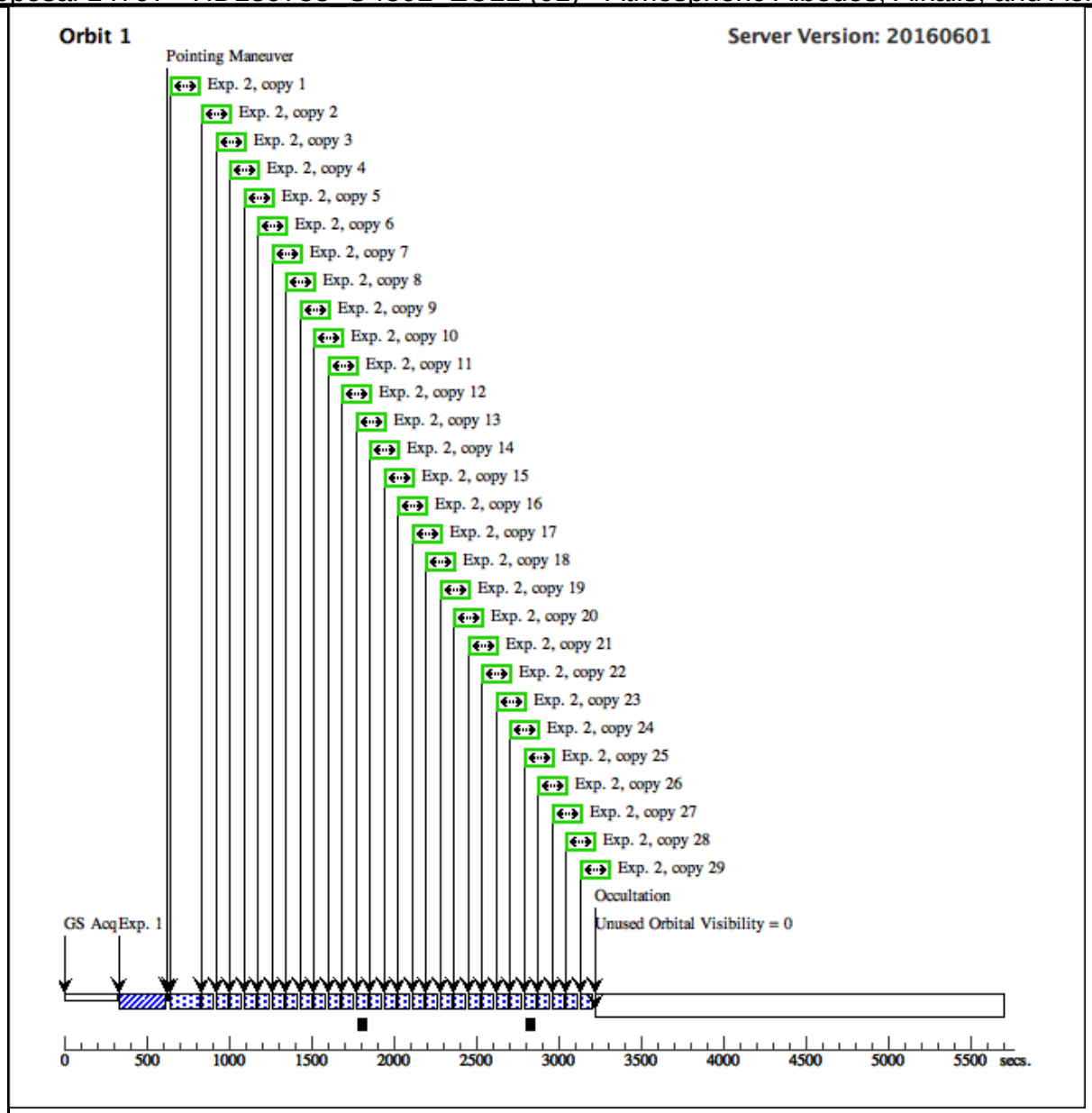
6	HD189733 G430L Orbit 3 (STIS.sp.820987)	(1) HD189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	SIZEAXIS2=128; CR-SPLIT=NO; GAIN=4; WAVECAL=NO	Sequence 5-6 Non-Int in HD189733_G430L_ECL1 (01)	69 Secs X 33 (2277 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[3]***
7	HD189733 G430L Orbit 4 (STIS.sp.820985)	(1) HD189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128; WAVECAL=NO	Sequence 7-9 Non-Int in HD189733_G430L_ECL1 (01)	1 Secs (1 Secs) *[==>]*	***[4]***

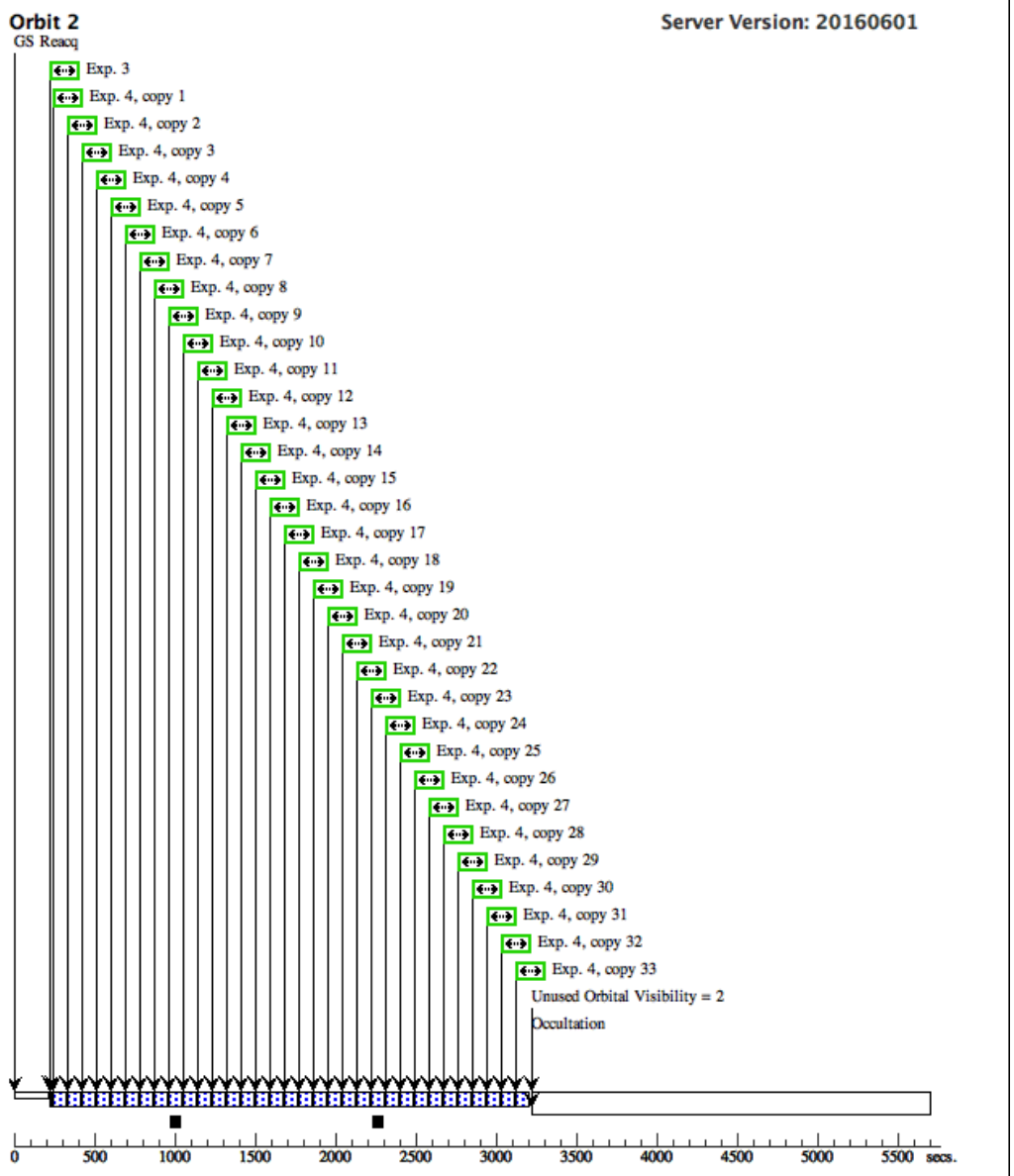
Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.

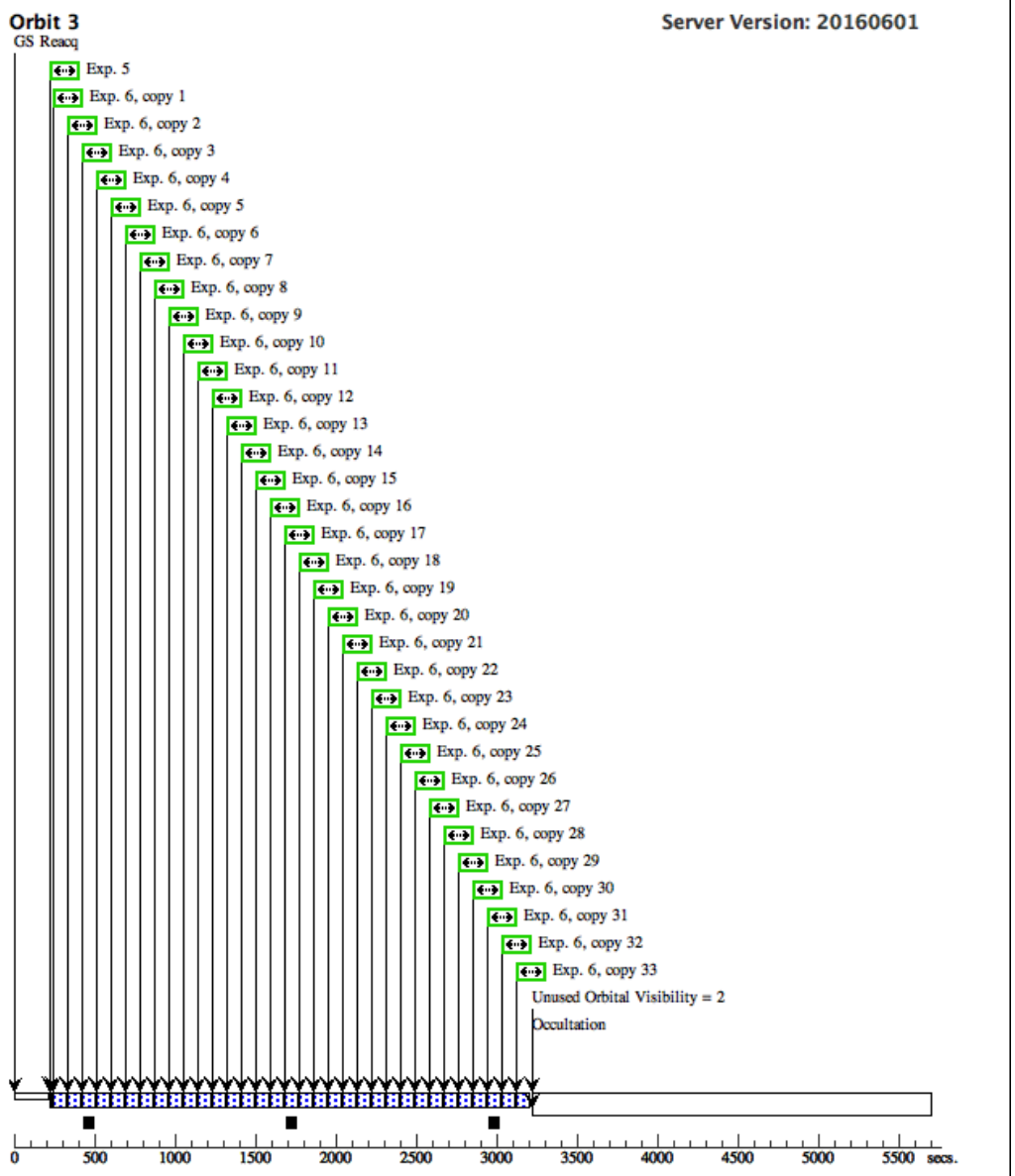
8	HD189733 G430L Orbit 4 (STIS.sp.820987)	(1) HD189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	SIZEAXIS2=128; CR-SPLIT=NO; GAIN=4; WAVECAL=NO	Sequence 7-9 Non-Int in HD189733_G430L_ECL1 (01)	69 Secs X 33 (2277 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[4]***
9	WAVE	WAVE	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A		Sequence 7-9 Non-Int in HD189733_G430L_ECL1 (01)	*[==>]*	***[4]***

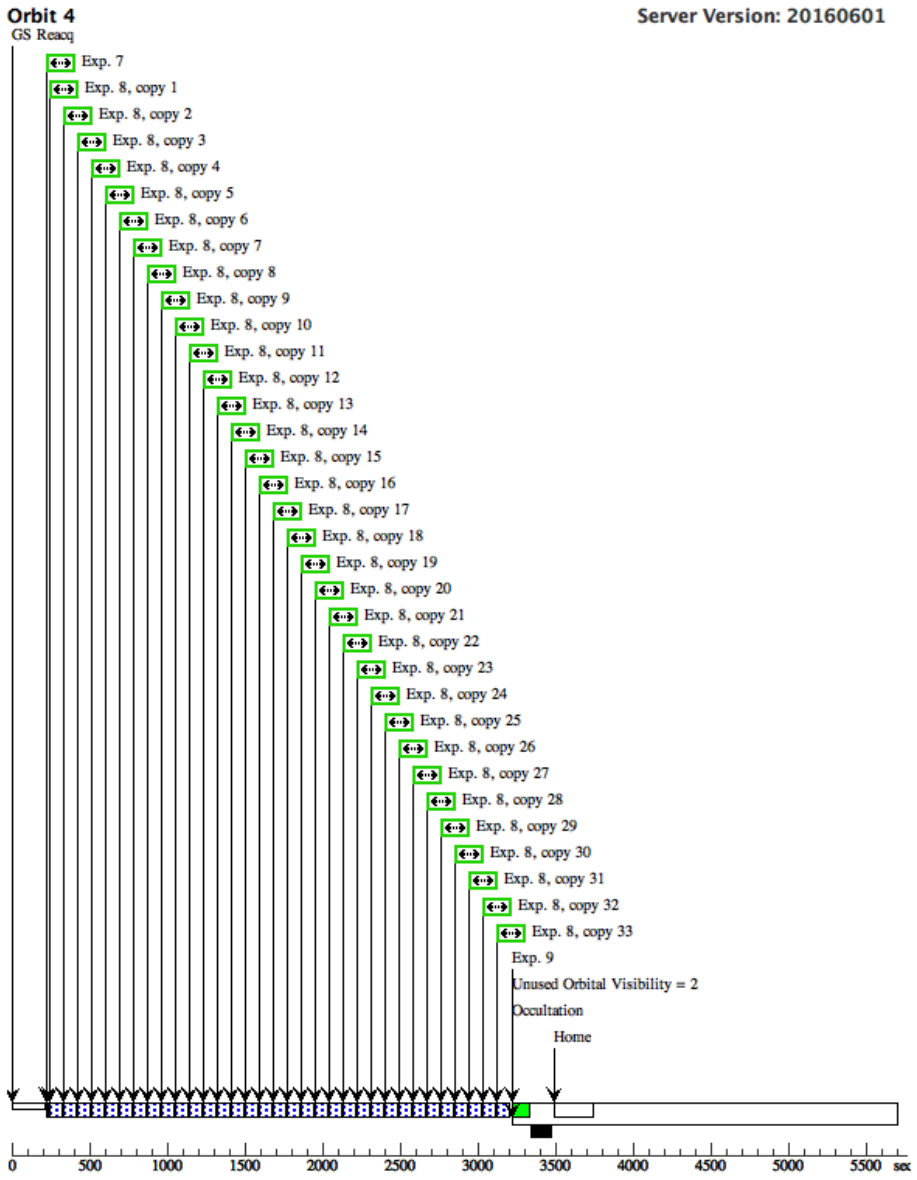
Comments: Explicit WAVECAL, auto-waves disabled

Orbit Structure




Orbit 2
Server Version: 20160601
GS Reacq
Exp. 3
Exp. 4, copy 1
Exp. 4, copy 2
Exp. 4, copy 3
Exp. 4, copy 4
Exp. 4, copy 5
Exp. 4, copy 6
Exp. 4, copy 7
Exp. 4, copy 8
Exp. 4, copy 9
Exp. 4, copy 10
Exp. 4, copy 11
Exp. 4, copy 12
Exp. 4, copy 13
Exp. 4, copy 14
Exp. 4, copy 15
Exp. 4, copy 16
Exp. 4, copy 17
Exp. 4, copy 18
Exp. 4, copy 19
Exp. 4, copy 20
Exp. 4, copy 21
Exp. 4, copy 22
Exp. 4, copy 23
Exp. 4, copy 24
Exp. 4, copy 25
Exp. 4, copy 26
Exp. 4, copy 27
Exp. 4, copy 28
Exp. 4, copy 29
Exp. 4, copy 30
Exp. 4, copy 31
Exp. 4, copy 32
Exp. 4, copy 33
Unused Orbital Visibility = 2
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 3
Server Version: 20160601
GS Reacq
Exp. 5
Exp. 6, copy 1
Exp. 6, copy 2
Exp. 6, copy 3
Exp. 6, copy 4
Exp. 6, copy 5
Exp. 6, copy 6
Exp. 6, copy 7
Exp. 6, copy 8
Exp. 6, copy 9
Exp. 6, copy 10
Exp. 6, copy 11
Exp. 6, copy 12
Exp. 6, copy 13
Exp. 6, copy 14
Exp. 6, copy 15
Exp. 6, copy 16
Exp. 6, copy 17
Exp. 6, copy 18
Exp. 6, copy 19
Exp. 6, copy 20
Exp. 6, copy 21
Exp. 6, copy 22
Exp. 6, copy 23
Exp. 6, copy 24
Exp. 6, copy 25
Exp. 6, copy 26
Exp. 6, copy 27
Exp. 6, copy 28
Exp. 6, copy 29
Exp. 6, copy 30
Exp. 6, copy 31
Exp. 6, copy 32
Exp. 6, copy 33
Unused Orbital Visibility = 2
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 4
GS Reacq
Server Version: 20160601
Exp. 7
Exp. 8, copy 1
Exp. 8, copy 2
Exp. 8, copy 3
Exp. 8, copy 4
Exp. 8, copy 5
Exp. 8, copy 6
Exp. 8, copy 7
Exp. 8, copy 8
Exp. 8, copy 9
Exp. 8, copy 10
Exp. 8, copy 11
Exp. 8, copy 12
Exp. 8, copy 13
Exp. 8, copy 14
Exp. 8, copy 15
Exp. 8, copy 16
Exp. 8, copy 17
Exp. 8, copy 18
Exp. 8, copy 19
Exp. 8, copy 20
Exp. 8, copy 21
Exp. 8, copy 22
Exp. 8, copy 23
Exp. 8, copy 24
Exp. 8, copy 25
Exp. 8, copy 26
Exp. 8, copy 27
Exp. 8, copy 28
Exp. 8, copy 29
Exp. 8, copy 30
Exp. 8, copy 31
Exp. 8, copy 32
Exp. 8, copy 33
Exp. 9
Unused Orbital Visibility = 2
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14797, HD189733_G430L_ECL2 (02), implementation Fri Jul 29 19:50:40 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD

Special Requirements: Period 2.21857595 D AND ZERO-PHASE HJD2455558.44716

Comments: HD189733. G430L. 1 of 3 STIS visits. Each of the 4 HST orbits contain a non-interruptible sequence. It is essential that the 4 HST orbits be scheduled in a continuous block. We have no ORIENT constraints.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HD189733	RA: 20 00 43.7000 (300.1820833d)	Proper Motion RA: -2.14 mas/yr	V=7.67	Reference Frame: ICRS
		Dec: +22 42 39.07 (22.71085d)	Proper Motion Dec: -251.4 mas/yr		
		Equinox: J2000	Epoch of Position: 2000		

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

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ, phase constrained (STIS.ta.820948)	(1) HD189733	STIS/CCD, ACQ, F28X50OII	MIRROR		PHASE 0.9287 TO 0.9358	Sequence 1-2 Non-Int in HD189733_G430L_ECL2 (02)	5 Secs (5 Secs) *[==>]*	***[1]***
2	HD189733 G430L Orbit 1 (STIS.sp.820986)	(1) HD189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	SIZEAXIS2=128; CR-SPLIT=NO; GAIN=4; WAVECAL=NO		Sequence 1-2 Non-Int in HD189733_G430L_ECL2 (02)	64 Secs X 29 (1856 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]*	***[1]***
3	HD189733 G430L Orbit 2 (STIS.sp.820985)	(1) HD189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128; WAVECAL=NO		Sequence 3-4 Non-Int in HD189733_G430L_ECL2 (02)	1 Secs (1 Secs) *[==>]*	***[2]***

Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.

4	HD189733 G430L Orbit 2 (STIS.sp.820987)	(1) HD189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	SIZEAXIS2=128; CR-SPLIT=NO; GAIN=4; WAVECAL=NO	Sequence 3-4 Non-Int in HD189733_G430L_ECL2 (02)	69 Secs X 33 (2277 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[2]***
5	HD189733 G430L Orbit 3 (STIS.sp.820985)	(1) HD189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128; WAVECAL=NO	Sequence 5-6 Non-Int in HD189733_G430L_ECL2 (02)	1 Secs (1 Secs) *[==>]*	***[3]***

Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.

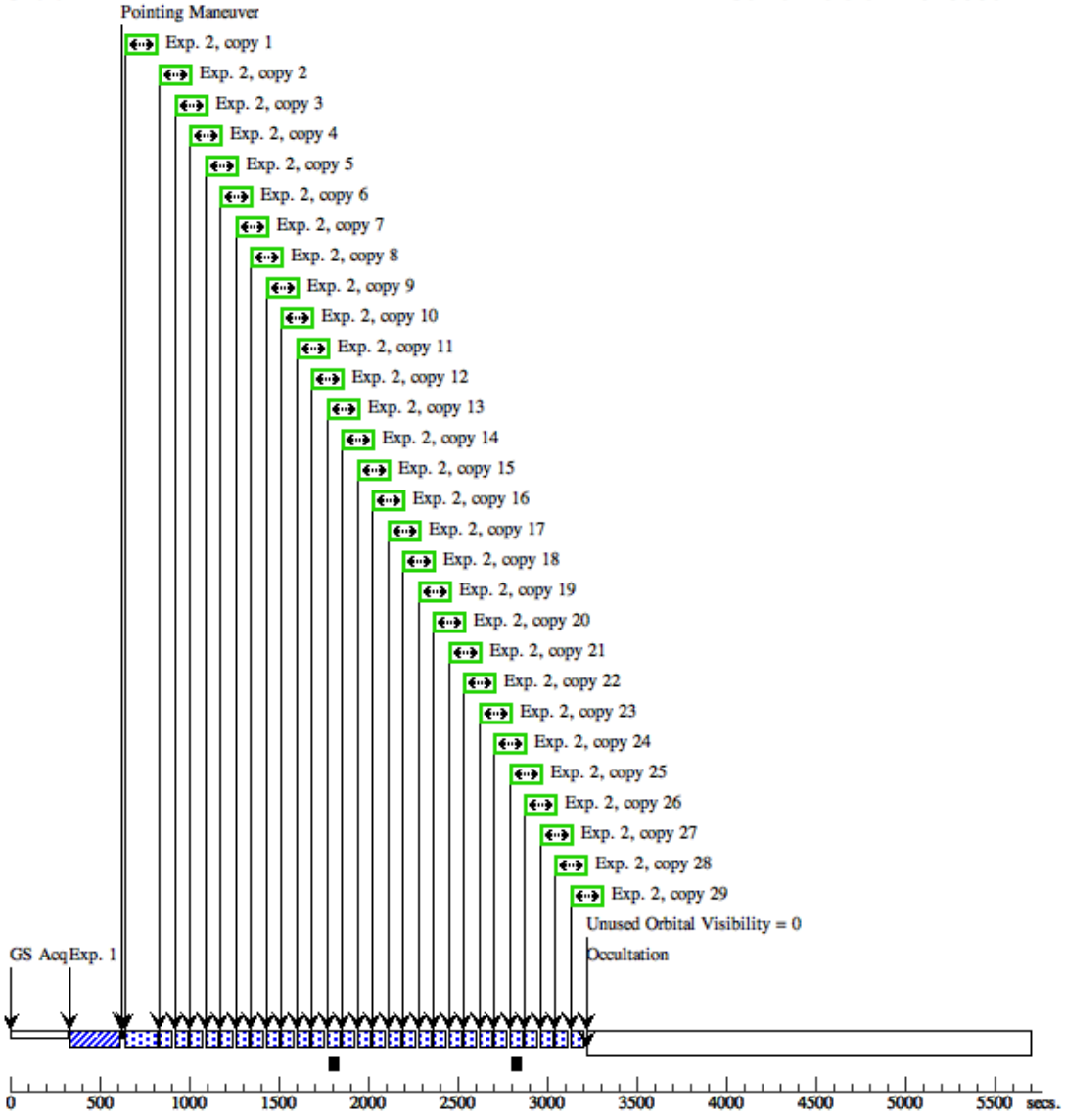
6	HD189733 G430L Orbit 3 (STIS.sp.820987)	(1) HD189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	SIZEAXIS2=128; CR-SPLIT=NO; GAIN=4; WAVECAL=NO	Sequence 5-6 Non-Int in HD189733_G430L_ECL2 (02)	69 Secs X 33 (2277 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[3]***
7	HD189733 G430L Orbit 4 (STIS.sp.820985)	(1) HD189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128; WAVECAL=NO	Sequence 7-9 Non-Int in HD189733_G430L_ECL2 (02)	1 Secs (1 Secs) *[==>]*	***[4]***

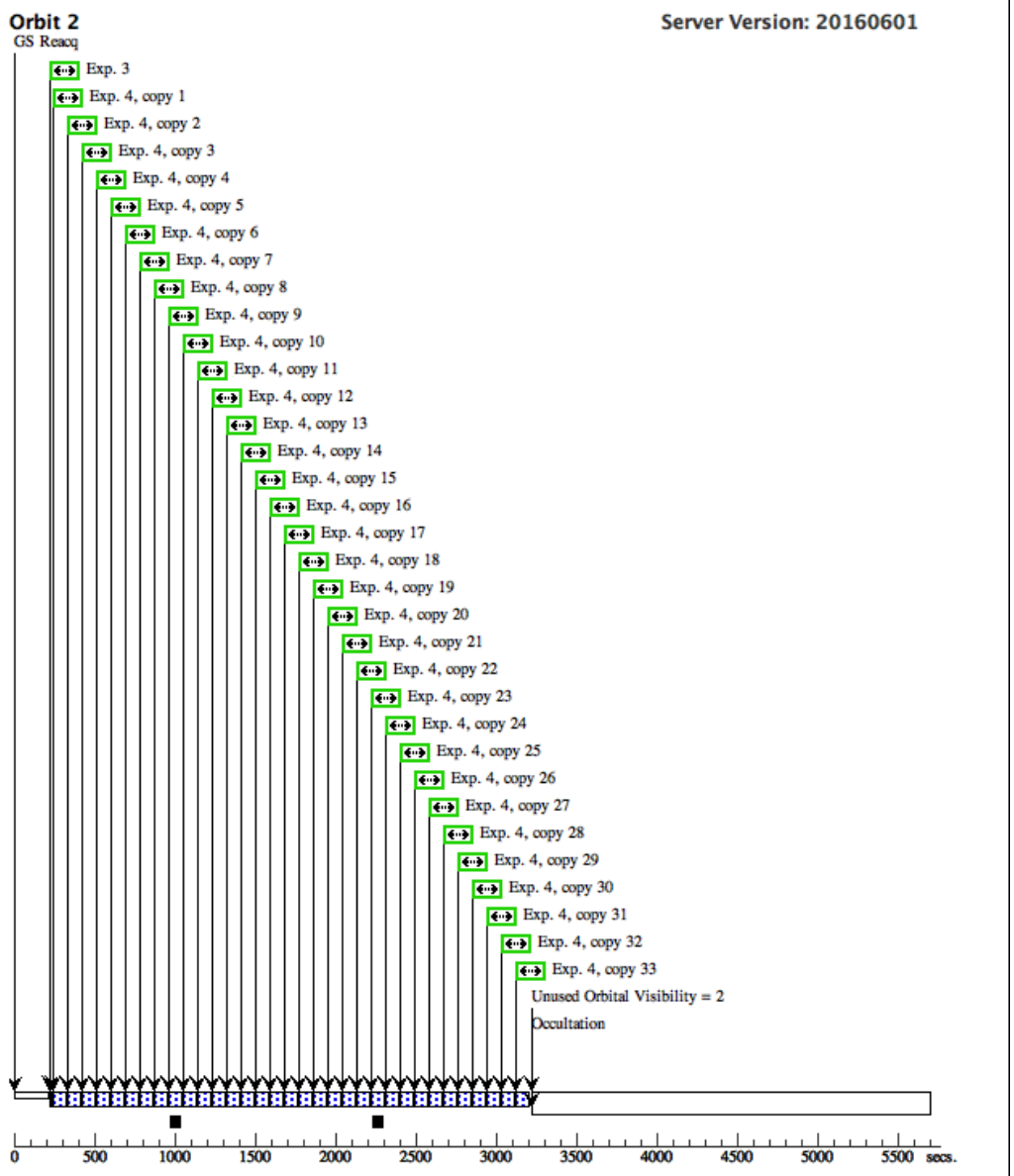
Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.

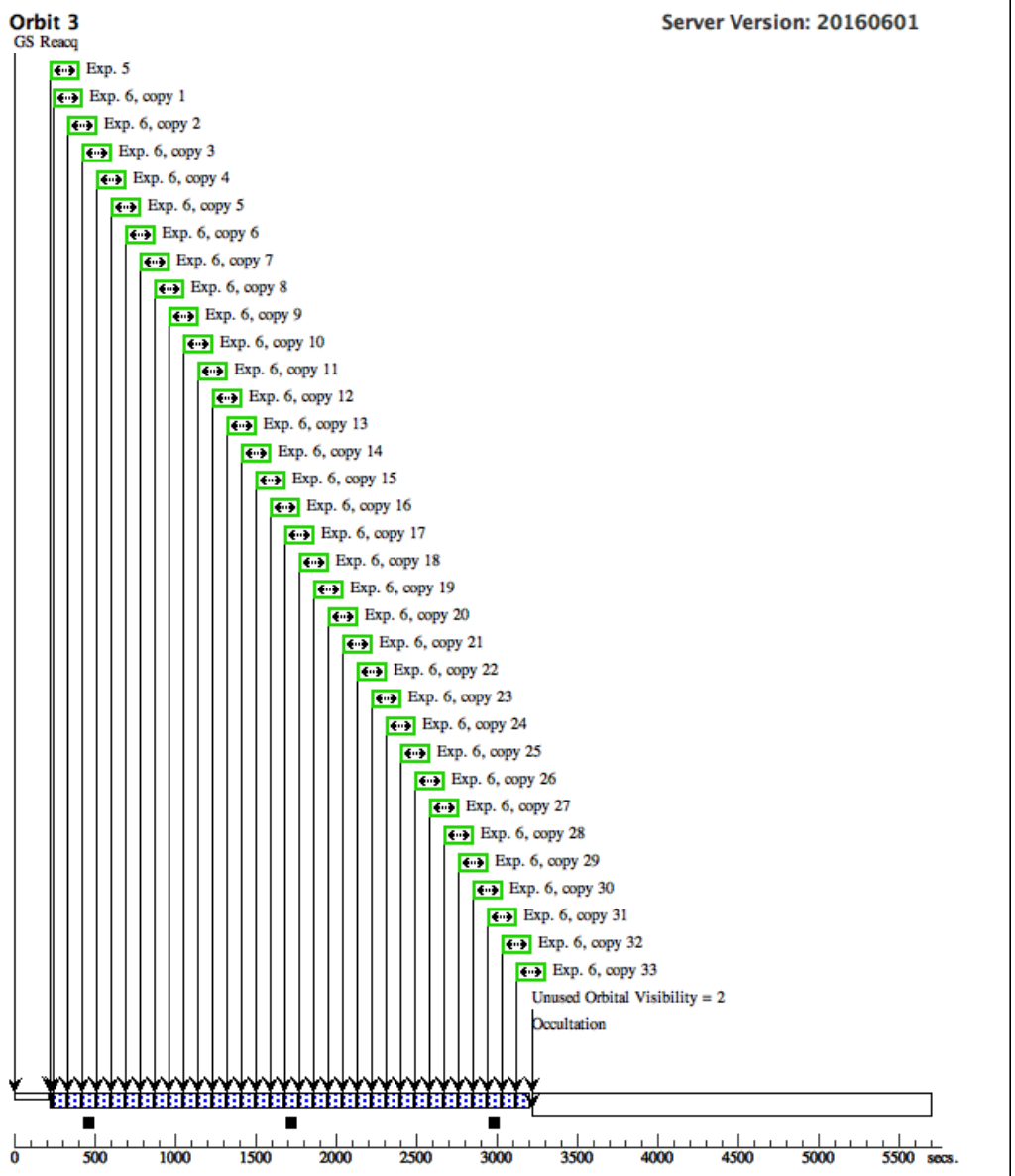
8	HD189733 G430L Orbit 4 (STIS.sp.820987)	(1) HD189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	SIZEAXIS2=128; CR-SPLIT=NO; GAIN=4; WAVECAL=NO	Sequence 7-9 Non-Int in HD189733_G430L_ECL2 (02)	69 Secs X 33 (2277 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[4]***
9	WAVE	WAVE	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A		Sequence 7-9 Non-Int in HD189733_G430L_ECL2 (02)	*[==>]*	***[4]***

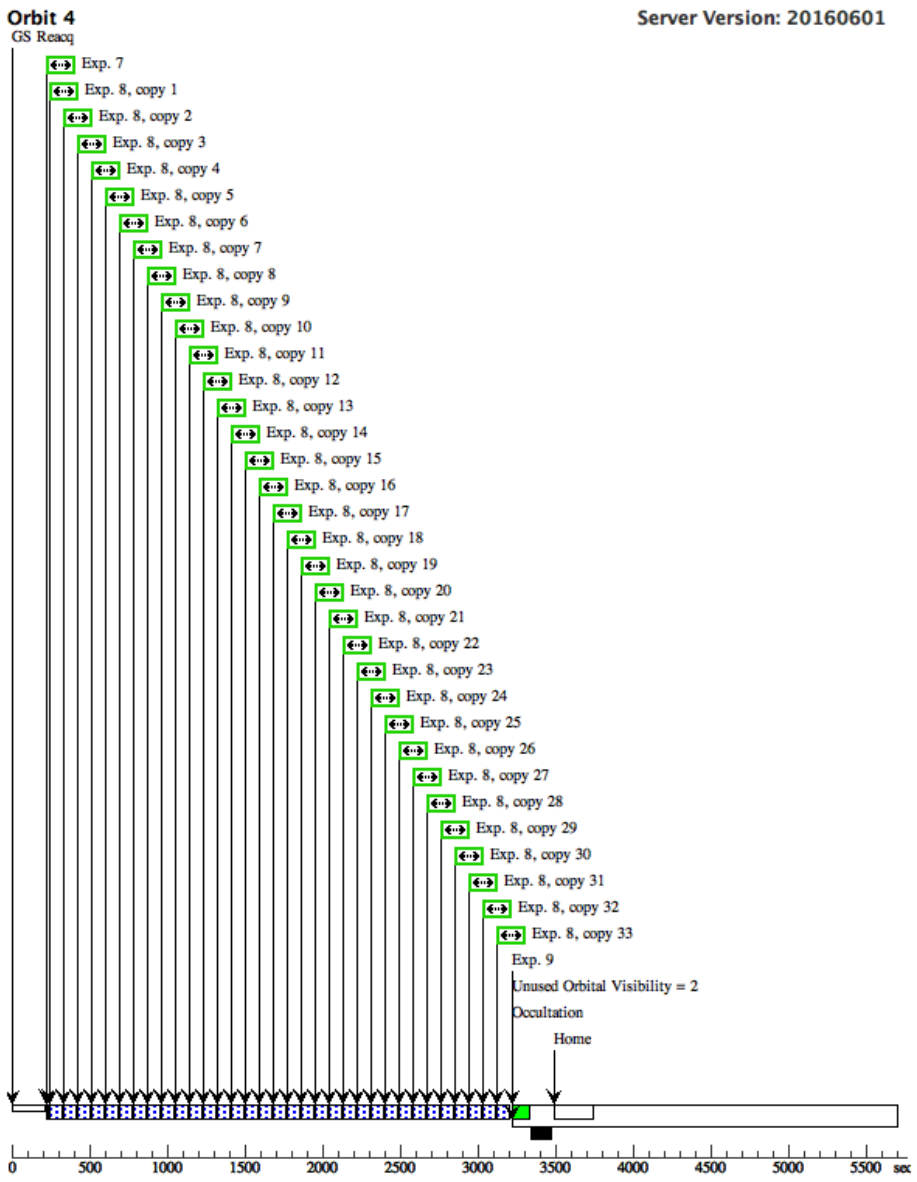
Comments: Explicit WAVECAL, auto-waves disabled

Orbit Structure




Orbit 2
Server Version: 20160601
GS Reacq
Exp. 3
Exp. 4, copy 1
Exp. 4, copy 2
Exp. 4, copy 3
Exp. 4, copy 4
Exp. 4, copy 5
Exp. 4, copy 6
Exp. 4, copy 7
Exp. 4, copy 8
Exp. 4, copy 9
Exp. 4, copy 10
Exp. 4, copy 11
Exp. 4, copy 12
Exp. 4, copy 13
Exp. 4, copy 14
Exp. 4, copy 15
Exp. 4, copy 16
Exp. 4, copy 17
Exp. 4, copy 18
Exp. 4, copy 19
Exp. 4, copy 20
Exp. 4, copy 21
Exp. 4, copy 22
Exp. 4, copy 23
Exp. 4, copy 24
Exp. 4, copy 25
Exp. 4, copy 26
Exp. 4, copy 27
Exp. 4, copy 28
Exp. 4, copy 29
Exp. 4, copy 30
Exp. 4, copy 31
Exp. 4, copy 32
Exp. 4, copy 33
Unused Orbital Visibility = 2
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 3
Server Version: 20160601
GS Reacq
Exp. 5
Exp. 6, copy 1
Exp. 6, copy 2
Exp. 6, copy 3
Exp. 6, copy 4
Exp. 6, copy 5
Exp. 6, copy 6
Exp. 6, copy 7
Exp. 6, copy 8
Exp. 6, copy 9
Exp. 6, copy 10
Exp. 6, copy 11
Exp. 6, copy 12
Exp. 6, copy 13
Exp. 6, copy 14
Exp. 6, copy 15
Exp. 6, copy 16
Exp. 6, copy 17
Exp. 6, copy 18
Exp. 6, copy 19
Exp. 6, copy 20
Exp. 6, copy 21
Exp. 6, copy 22
Exp. 6, copy 23
Exp. 6, copy 24
Exp. 6, copy 25
Exp. 6, copy 26
Exp. 6, copy 27
Exp. 6, copy 28
Exp. 6, copy 29
Exp. 6, copy 30
Exp. 6, copy 31
Exp. 6, copy 32
Exp. 6, copy 33
Unused Orbital Visibility = 2
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 4
GS Reacq
Server Version: 20160601
Exp. 7
Exp. 8, copy 1
Exp. 8, copy 2
Exp. 8, copy 3
Exp. 8, copy 4
Exp. 8, copy 5
Exp. 8, copy 6
Exp. 8, copy 7
Exp. 8, copy 8
Exp. 8, copy 9
Exp. 8, copy 10
Exp. 8, copy 11
Exp. 8, copy 12
Exp. 8, copy 13
Exp. 8, copy 14
Exp. 8, copy 15
Exp. 8, copy 16
Exp. 8, copy 17
Exp. 8, copy 18
Exp. 8, copy 19
Exp. 8, copy 20
Exp. 8, copy 21
Exp. 8, copy 22
Exp. 8, copy 23
Exp. 8, copy 24
Exp. 8, copy 25
Exp. 8, copy 26
Exp. 8, copy 27
Exp. 8, copy 28
Exp. 8, copy 29
Exp. 8, copy 30
Exp. 8, copy 31
Exp. 8, copy 32
Exp. 8, copy 33
Exp. 9
Unused Orbital Visibility = 2
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14797, HD189733_G430L_ECL3 (03), implementation Fri Jul 29 19:50:40 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD

Special Requirements: Period 2.21857595 D AND ZERO-PHASE HJD2455558.44716

Comments: HD189733. G430L. 1 of 3 STIS visits. Each of the 4 HST orbits contain a non-interruptible sequence. It is essential that the 4 HST orbits be scheduled in a continuous block. We have no ORIENT constraints.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HD189733	RA: 20 00 43.7000 (300.1820833d)	Proper Motion RA: -2.14 mas/yr	V=7.67	Reference Frame: ICRS
		Dec: +22 42 39.07 (22.71085d)	Proper Motion Dec: -251.4 mas/yr		
		Equinox: J2000	Epoch of Position: 2000		

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

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ, phase constrained (STIS.ta.820948)	(1) HD189733	STIS/CCD, ACQ, F28X50OII	MIRROR		PHASE 0.9287 TO 0.9358	Sequence 1-2 Non-Int in HD189733_G430L_ECL3 (03)	5 Secs (5 Secs) *[==>]*	***[1]***
2	HD189733 G430L Orbit 1 (STIS.sp.820986)	(1) HD189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	SIZEAXIS2=128; CR-SPLIT=NO; GAIN=4; WAVECAL=NO		Sequence 1-2 Non-Int in HD189733_G430L_ECL3 (03)	64 Secs X 29 (1856 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]*	***[1]***
3	HD189733 G430L Orbit 2 (STIS.sp.820985)	(1) HD189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128; WAVECAL=NO		Sequence 3-4 Non-Int in HD189733_G430L_ECL3 (03)	1 Secs (1 Secs) *[==>]*	***[2]***

Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.

4	HD189733 G430L Orbit 2 (STIS.sp.820987)	(1) HD189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	SIZEAXIS2=128; CR-SPLIT=NO; GAIN=4; WAVECAL=NO	Sequence 3-4 Non-Int in HD189733_G430L_ECL3 (03)	69 Secs X 33 (2277 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[2]***
5	HD189733 G430L Orbit 3 (STIS.sp.820985)	(1) HD189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128; WAVECAL=NO	Sequence 5-6 Non-Int in HD189733_G430L_ECL3 (03)	1 Secs (1 Secs) *[==>]*	***[3]***

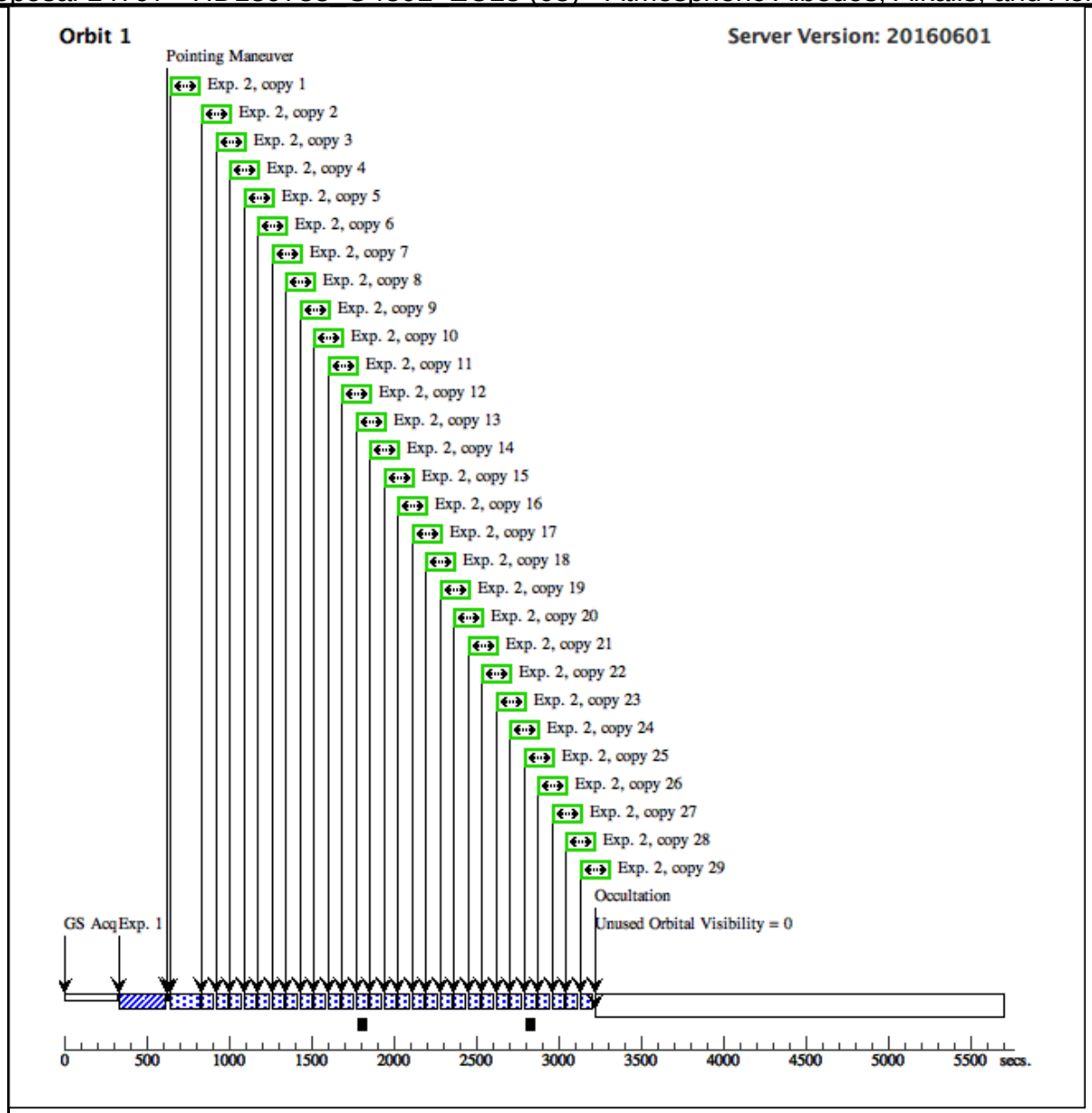
Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.

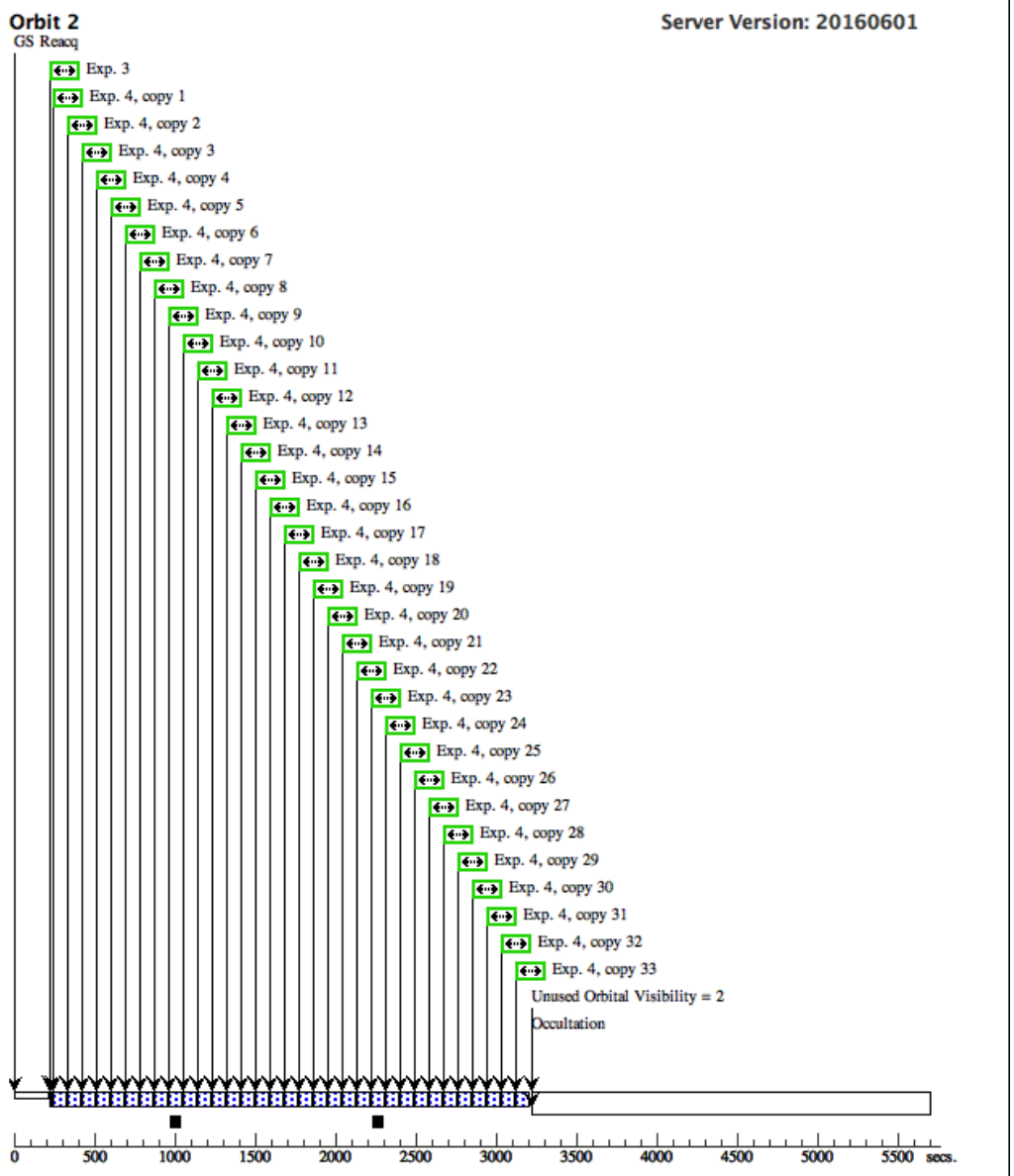
6	HD189733 G430L Orbit 3 (STIS.sp.820987)	(1) HD189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	SIZEAXIS2=128; CR-SPLIT=NO; GAIN=4; WAVECAL=NO	Sequence 5-6 Non-Int in HD189733_G430L_ECL3 (03)	69 Secs X 33 (2277 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[3]***
7	HD189733 G430L Orbit 4 (STIS.sp.820985)	(1) HD189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128; WAVECAL=NO	Sequence 7-9 Non-Int in HD189733_G430L_ECL3 (03)	1 Secs (1 Secs) *[==>]*	***[4]***

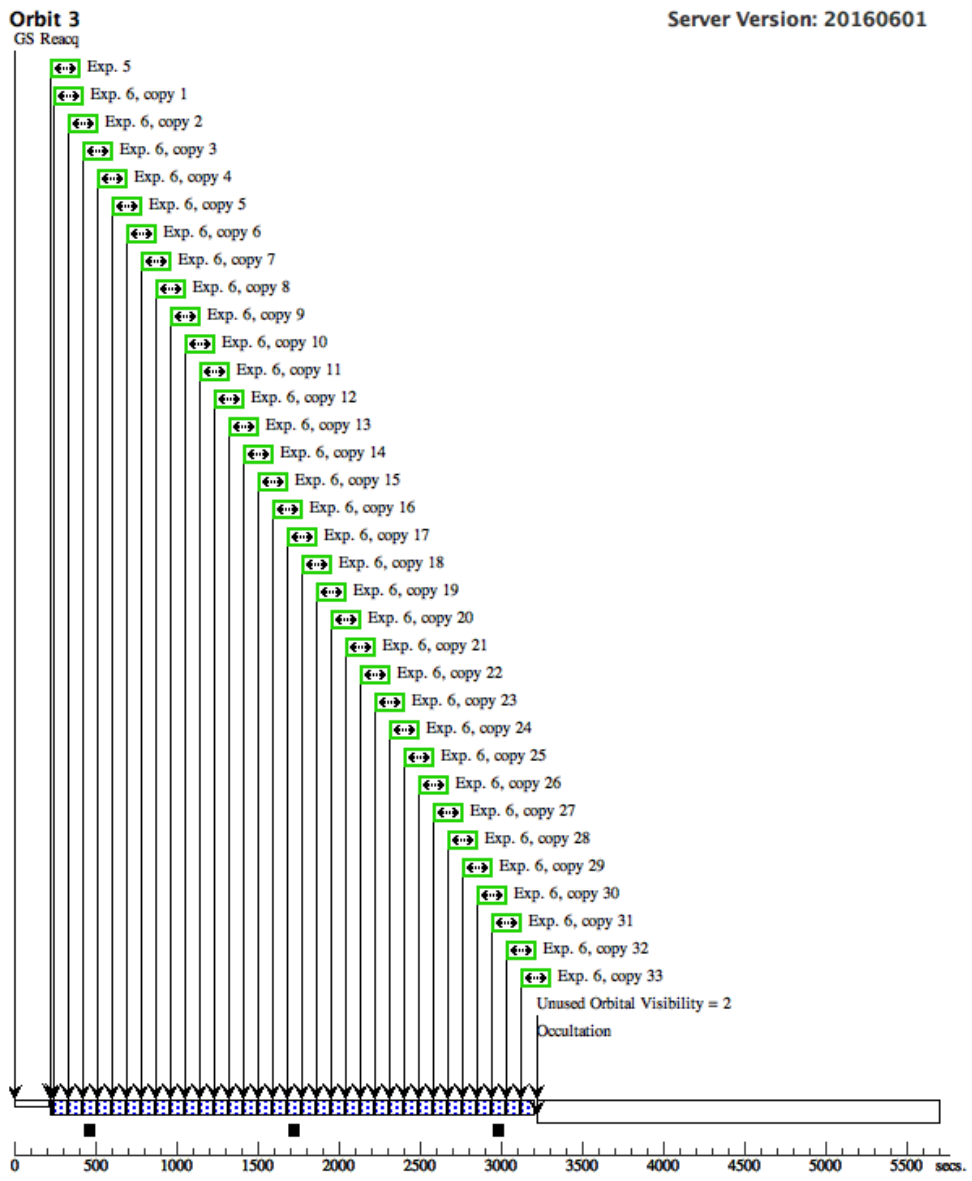
Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.

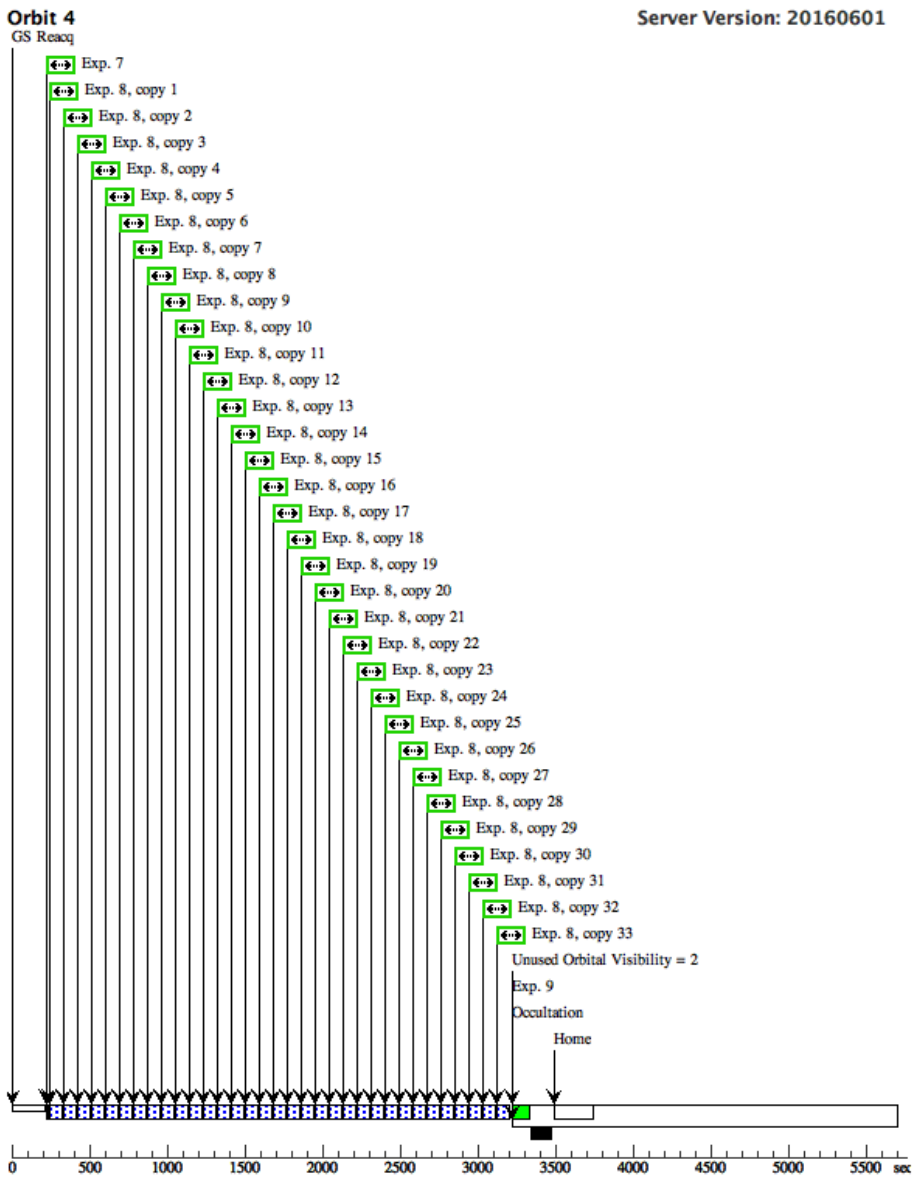
	8	HD189733 G430L Orbit 4 (STIS.sp.820987)	(1) HD189733	STIS/CCD, ACCUM, 52X2	G430L 4300 A	SIZEAXIS2=128; CR-SPLIT=NO; GAIN=4; WAVECAL=NO	Sequence 7-9 Non-Int in HD189733_G430L_ECL3 (03)	69 Secs X 33 (2277 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[4]***
	9	WAVE	WAVE	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A		Sequence 7-9 Non-Int in HD189733_G430L_ECL3 (03)	*[==>]*	***[4]***
	Comments: Explicit WAVECAL, auto-waves disabled								

Orbit Structure




Orbit 2
Server Version: 20160601
GS Reacq
Exp. 3
Exp. 4, copy 1
Exp. 4, copy 2
Exp. 4, copy 3
Exp. 4, copy 4
Exp. 4, copy 5
Exp. 4, copy 6
Exp. 4, copy 7
Exp. 4, copy 8
Exp. 4, copy 9
Exp. 4, copy 10
Exp. 4, copy 11
Exp. 4, copy 12
Exp. 4, copy 13
Exp. 4, copy 14
Exp. 4, copy 15
Exp. 4, copy 16
Exp. 4, copy 17
Exp. 4, copy 18
Exp. 4, copy 19
Exp. 4, copy 20
Exp. 4, copy 21
Exp. 4, copy 22
Exp. 4, copy 23
Exp. 4, copy 24
Exp. 4, copy 25
Exp. 4, copy 26
Exp. 4, copy 27
Exp. 4, copy 28
Exp. 4, copy 29
Exp. 4, copy 30
Exp. 4, copy 31
Exp. 4, copy 32
Exp. 4, copy 33
Unused Orbital Visibility = 2
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 3
Server Version: 20160601
GS Reacq
Exp. 5
Exp. 6, copy 1
Exp. 6, copy 2
Exp. 6, copy 3
Exp. 6, copy 4
Exp. 6, copy 5
Exp. 6, copy 6
Exp. 6, copy 7
Exp. 6, copy 8
Exp. 6, copy 9
Exp. 6, copy 10
Exp. 6, copy 11
Exp. 6, copy 12
Exp. 6, copy 13
Exp. 6, copy 14
Exp. 6, copy 15
Exp. 6, copy 16
Exp. 6, copy 17
Exp. 6, copy 18
Exp. 6, copy 19
Exp. 6, copy 20
Exp. 6, copy 21
Exp. 6, copy 22
Exp. 6, copy 23
Exp. 6, copy 24
Exp. 6, copy 25
Exp. 6, copy 26
Exp. 6, copy 27
Exp. 6, copy 28
Exp. 6, copy 29
Exp. 6, copy 30
Exp. 6, copy 31
Exp. 6, copy 32
Exp. 6, copy 33
Unused Orbital Visibility = 2
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 4
GS Reacq
Server Version: 20160601
Exp. 7
Exp. 8, copy 1
Exp. 8, copy 2
Exp. 8, copy 3
Exp. 8, copy 4
Exp. 8, copy 5
Exp. 8, copy 6
Exp. 8, copy 7
Exp. 8, copy 8
Exp. 8, copy 9
Exp. 8, copy 10
Exp. 8, copy 11
Exp. 8, copy 12
Exp. 8, copy 13
Exp. 8, copy 14
Exp. 8, copy 15
Exp. 8, copy 16
Exp. 8, copy 17
Exp. 8, copy 18
Exp. 8, copy 19
Exp. 8, copy 20
Exp. 8, copy 21
Exp. 8, copy 22
Exp. 8, copy 23
Exp. 8, copy 24
Exp. 8, copy 25
Exp. 8, copy 26
Exp. 8, copy 27
Exp. 8, copy 28
Exp. 8, copy 29
Exp. 8, copy 30
Exp. 8, copy 31
Exp. 8, copy 32
Exp. 8, copy 33
Unused Orbital Visibility = 2
Exp. 9
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14797, HD209458_G430L_ECL1 (04), implementation Fri Jul 29 19:50:40 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD

Special Requirements: Period 3.5247467 D AND ZERO-PHASE HJD2455214.64677

Comments: HD209458. G430L. 1 of 3 STIS visits. Each of the 5 HST orbits contain a non-interruptible sequence. It is essential that the 5 HST orbits be scheduled in a continuous block. We have no ORIENT constraints.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	HD209458	RA: 22 03 10.7721 (330.7948837d) Dec: +18 53 3.54 (18.88432d) Equinox: J2000		V=7.63	Reference Frame: ICRS

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

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ, phase constrained (STIS.ta.820960)	(2) HD209458	STIS/CCD, ACQ, F28X50OII	MIRROR		PHASE 0.94 TO 0.952	Sequence 1-2 Non-Int in HD209458_G430L_ECL1 (04)	5 Secs (5 Secs) *[==>]*	***[1]***
2	HD209458 G430L Orbit 1 (STIS.sp.820983)	(2) HD209458	STIS/CCD, ACCUM, 52X2	G430L 4300 A	SIZEAXIS2=128; CR-SPLIT=NO; GAIN=4; WAVECAL=NO		Sequence 1-2 Non-Int in HD209458_G430L_ECL1 (04)	63 Secs X 29 (1827 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]*	***[1]***
3	HD209458 G430L Orbit 2 (STIS.sp.820982)	(2) HD209458	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128; WAVECAL=NO		Sequence 3-4 Non-Int in HD209458_G430L_ECL1 (04)	1 Secs (1 Secs) *[==>]*	***[2]***

Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.

4	HD209458 G430L Orbit 2 (STIS.sp.820984)	(2) HD209458	STIS/CCD, ACCUM, 52X2	G430L 4300 A	SIZEAXIS2=128; CR-SPLIT=NO; GAIN=4; WAVECAL=NO	Sequence 3-4 Non-Int in HD209458_G430L_ECL1 (04)	69 Secs X 33 (2277 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[2]***
5	HD209458 G430L Orbit 3 (STIS.sp.820982)	(2) HD209458	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128; WAVECAL=NO	Sequence 5-6 Non-Int in HD209458_G430L_ECL1 (04)	1 Secs (1 Secs) *[==>]*	***[3]***

Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.

6	HD209458 G430L Orbit 3 (STIS.sp.820984)	(2) HD209458	STIS/CCD, ACCUM, 52X2	G430L 4300 A	SIZEAXIS2=128; CR-SPLIT=NO; GAIN=4; WAVECAL=NO	Sequence 5-6 Non-Int in HD209458_G430L_ECL1 (04)	69 Secs X 33 (2277 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[3]***
7	HD209458 G430L Orbit 4 (STIS.sp.820982)	(2) HD209458	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128; WAVECAL=NO	Sequence 7-8 Non-Int in HD209458_G430L_ECL1 (04)	1 Secs (1 Secs) *[==>]*	***[4]***

Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.

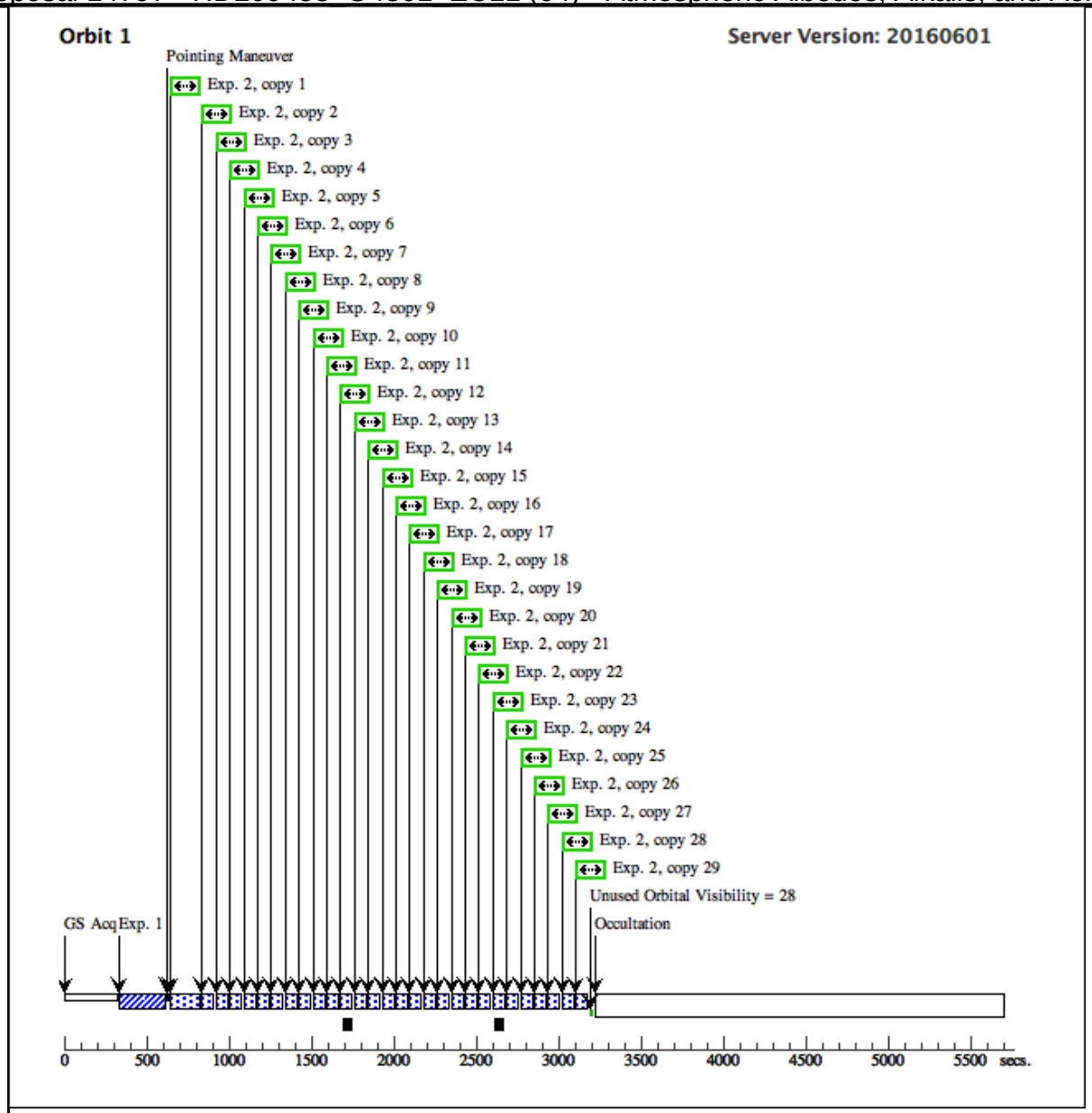
8	HD209458 G430L Orbit 4 (STIS.sp.820984)	(2) HD209458	STIS/CCD, ACCUM, 52X2	G430L 4300 A	SIZEAXIS2=128; CR-SPLIT=NO; GAIN=4; WAVECAL=NO	Sequence 7-8 Non-Int in HD209458_G430L_ECL1 (04)	69 Secs X 33 (2277 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[4]***
9	HD209458 G430L Orbit 4 (STIS.sp.820982)	(2) HD209458	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128; WAVECAL=NO	Sequence 9-11 Non-Int in HD209458_G430L_ECL1 (04)	1 Secs (1 Secs) *[==>]*	***[5]***

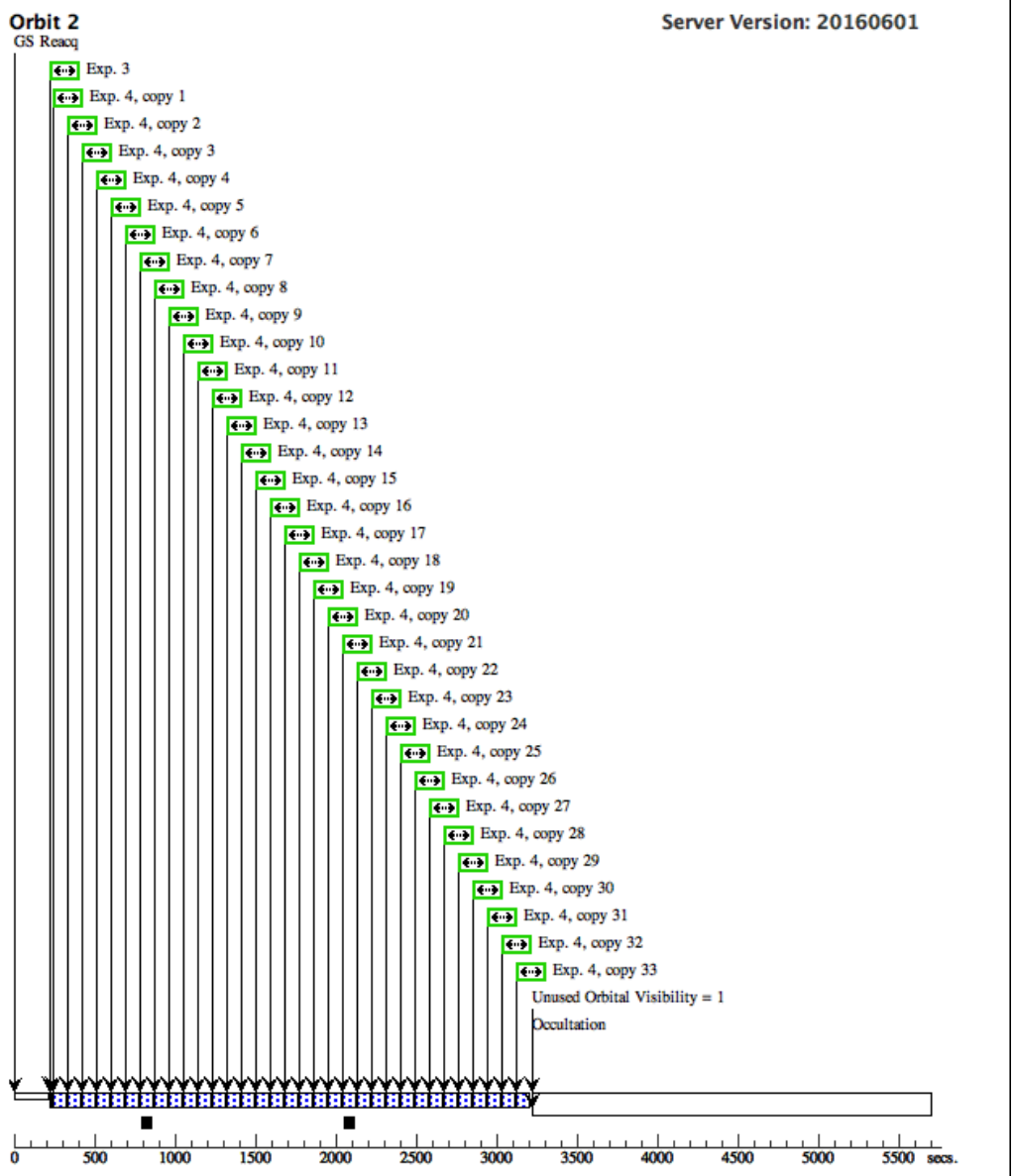
Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.

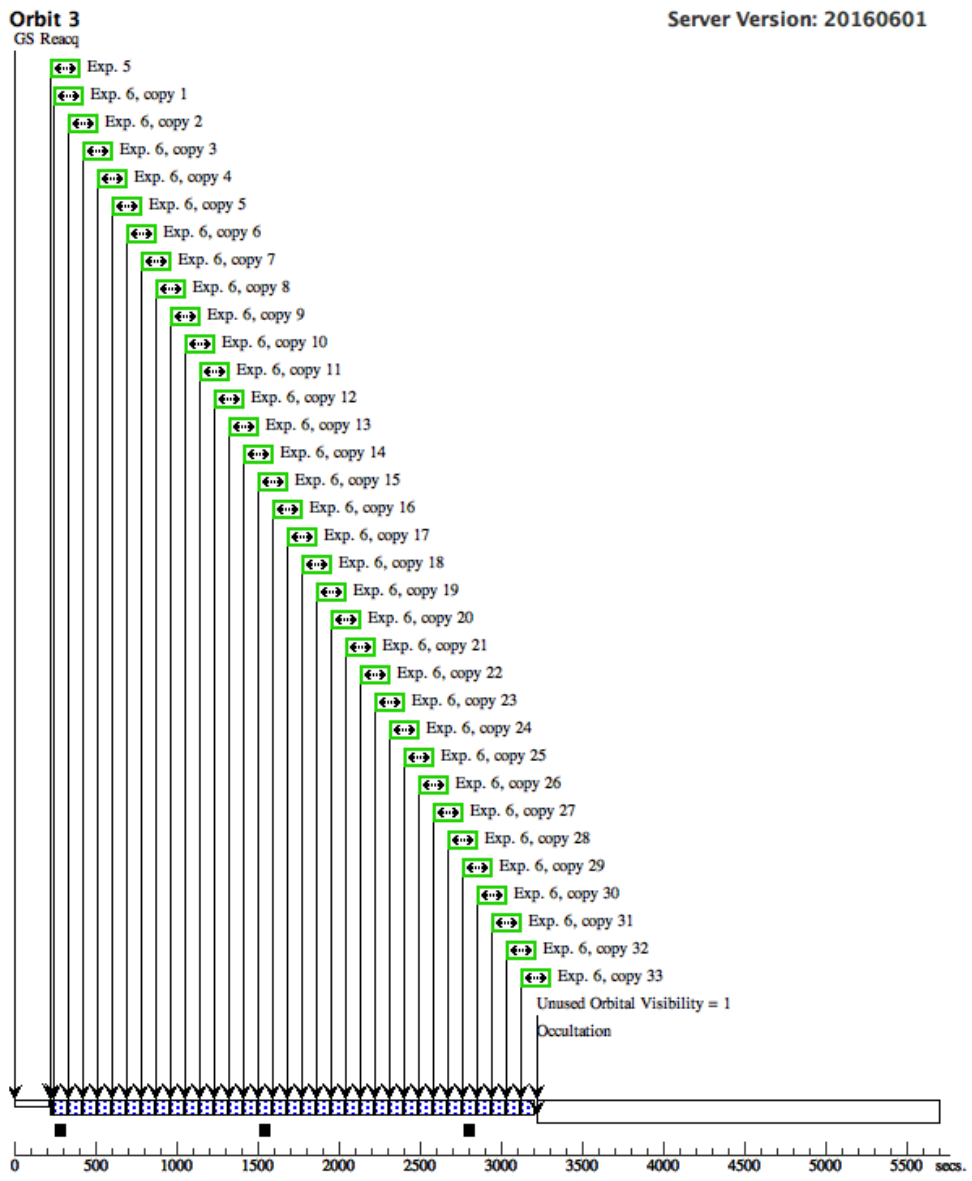
10	HD209458 G430L Orbit 4 (STIS.sp.820984)	(2) HD209458	STIS/CCD, ACCUM, 52X2	G430L 4300 A	SIZEAXIS2=128; CR-SPLIT=NO; GAIN=4; WAVECAL=NO	Sequence 9-11 Non-Int in HD209458_G430L_ECL1 (04)	69 Secs X 33 (2277 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[5]***
11	WAVE	WAVE	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A		Sequence 9-11 Non-Int in HD209458_G430L_ECL1 (04)	*[==>]*	***[5]***

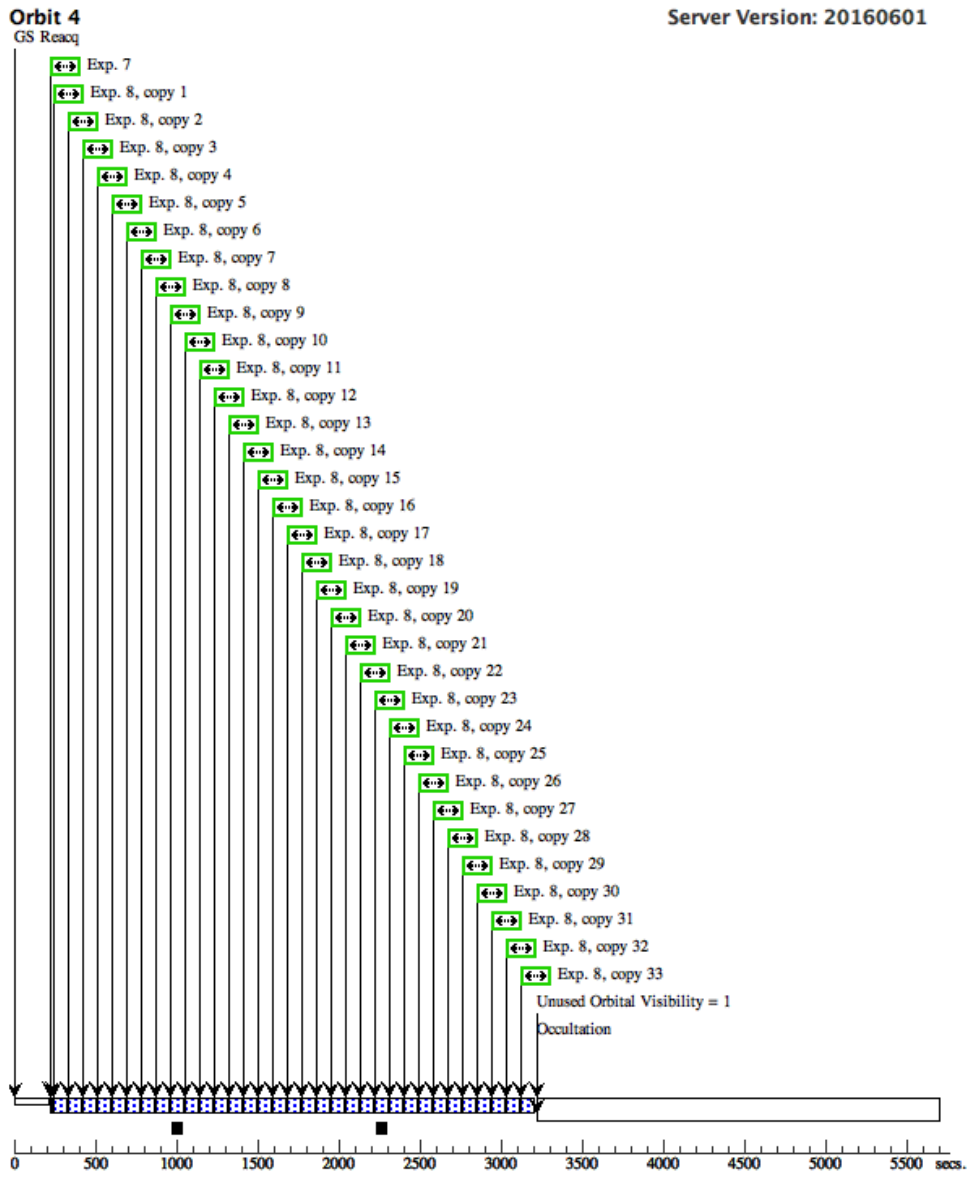
Comments: Explicit WAVECAL, auto-waves disabled

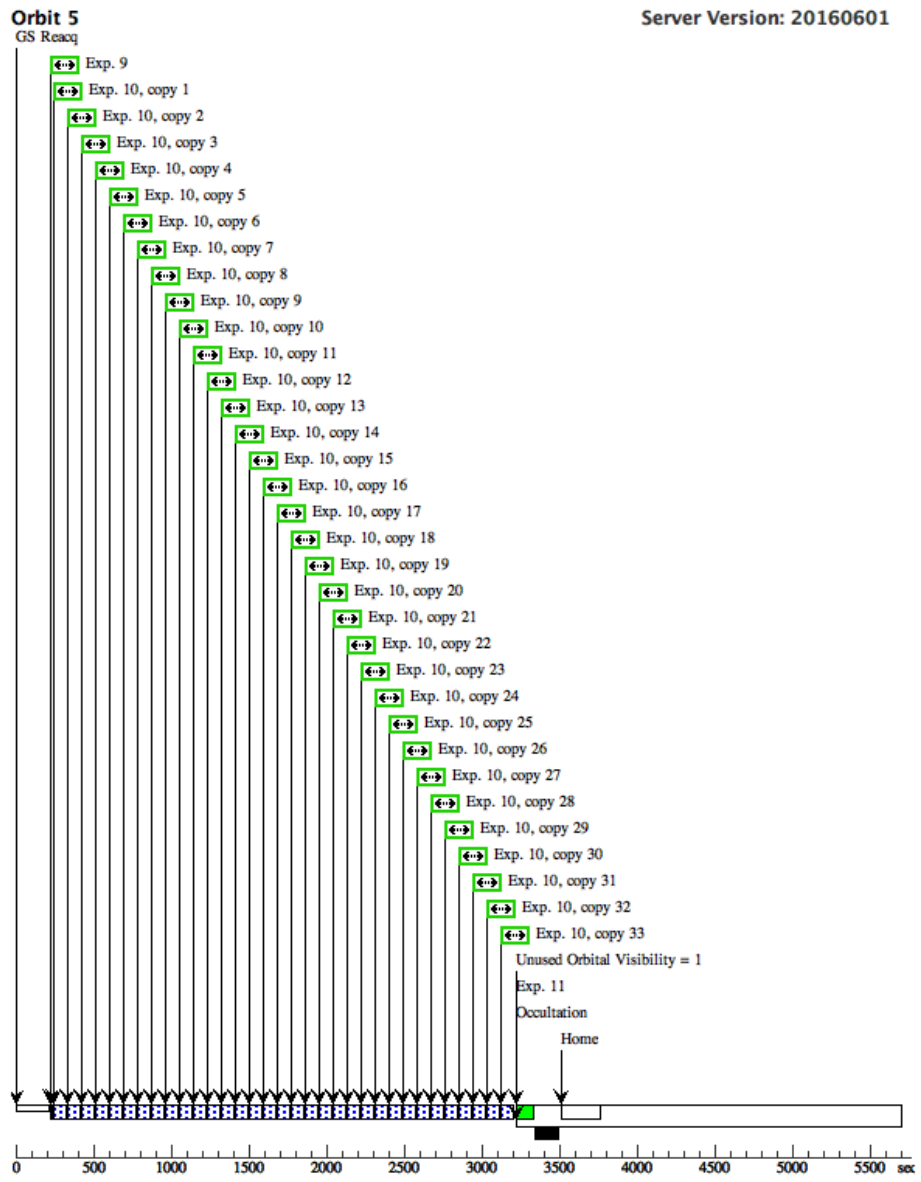
Orbit Structure




Orbit 2
Server Version: 20160601
GS Reacq
Exp. 3
Exp. 4, copy 1
Exp. 4, copy 2
Exp. 4, copy 3
Exp. 4, copy 4
Exp. 4, copy 5
Exp. 4, copy 6
Exp. 4, copy 7
Exp. 4, copy 8
Exp. 4, copy 9
Exp. 4, copy 10
Exp. 4, copy 11
Exp. 4, copy 12
Exp. 4, copy 13
Exp. 4, copy 14
Exp. 4, copy 15
Exp. 4, copy 16
Exp. 4, copy 17
Exp. 4, copy 18
Exp. 4, copy 19
Exp. 4, copy 20
Exp. 4, copy 21
Exp. 4, copy 22
Exp. 4, copy 23
Exp. 4, copy 24
Exp. 4, copy 25
Exp. 4, copy 26
Exp. 4, copy 27
Exp. 4, copy 28
Exp. 4, copy 29
Exp. 4, copy 30
Exp. 4, copy 31
Exp. 4, copy 32
Exp. 4, copy 33
Unused Orbital Visibility = 1
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 3
Server Version: 20160601
GS Reacq
Exp. 5
Exp. 6, copy 1
Exp. 6, copy 2
Exp. 6, copy 3
Exp. 6, copy 4
Exp. 6, copy 5
Exp. 6, copy 6
Exp. 6, copy 7
Exp. 6, copy 8
Exp. 6, copy 9
Exp. 6, copy 10
Exp. 6, copy 11
Exp. 6, copy 12
Exp. 6, copy 13
Exp. 6, copy 14
Exp. 6, copy 15
Exp. 6, copy 16
Exp. 6, copy 17
Exp. 6, copy 18
Exp. 6, copy 19
Exp. 6, copy 20
Exp. 6, copy 21
Exp. 6, copy 22
Exp. 6, copy 23
Exp. 6, copy 24
Exp. 6, copy 25
Exp. 6, copy 26
Exp. 6, copy 27
Exp. 6, copy 28
Exp. 6, copy 29
Exp. 6, copy 30
Exp. 6, copy 31
Exp. 6, copy 32
Exp. 6, copy 33
Unused Orbital Visibility = 1
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 4
Server Version: 20160601
GS Reacq
Exp. 7
Exp. 8, copy 1
Exp. 8, copy 2
Exp. 8, copy 3
Exp. 8, copy 4
Exp. 8, copy 5
Exp. 8, copy 6
Exp. 8, copy 7
Exp. 8, copy 8
Exp. 8, copy 9
Exp. 8, copy 10
Exp. 8, copy 11
Exp. 8, copy 12
Exp. 8, copy 13
Exp. 8, copy 14
Exp. 8, copy 15
Exp. 8, copy 16
Exp. 8, copy 17
Exp. 8, copy 18
Exp. 8, copy 19
Exp. 8, copy 20
Exp. 8, copy 21
Exp. 8, copy 22
Exp. 8, copy 23
Exp. 8, copy 24
Exp. 8, copy 25
Exp. 8, copy 26
Exp. 8, copy 27
Exp. 8, copy 28
Exp. 8, copy 29
Exp. 8, copy 30
Exp. 8, copy 31
Exp. 8, copy 32
Exp. 8, copy 33
Unused Orbital Visibility = 1
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 5
GS Reacq
Server Version: 20160601
Exp. 9
Exp. 10, copy 1
Exp. 10, copy 2
Exp. 10, copy 3
Exp. 10, copy 4
Exp. 10, copy 5
Exp. 10, copy 6
Exp. 10, copy 7
Exp. 10, copy 8
Exp. 10, copy 9
Exp. 10, copy 10
Exp. 10, copy 11
Exp. 10, copy 12
Exp. 10, copy 13
Exp. 10, copy 14
Exp. 10, copy 15
Exp. 10, copy 16
Exp. 10, copy 17
Exp. 10, copy 18
Exp. 10, copy 19
Exp. 10, copy 20
Exp. 10, copy 21
Exp. 10, copy 22
Exp. 10, copy 23
Exp. 10, copy 24
Exp. 10, copy 25
Exp. 10, copy 26
Exp. 10, copy 27
Exp. 10, copy 28
Exp. 10, copy 29
Exp. 10, copy 30
Exp. 10, copy 31
Exp. 10, copy 32
Exp. 10, copy 33
Unused Orbital Visibility = 1
Exp. 11
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14797, HD209458 _G430L_ECL2 (05), implementation Fri Jul 29 19:50:41 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD

Special Requirements: Period 3.5247467 D AND ZERO-PHASE HJD2455214.64677

Comments: HD209458. G430L. 1 of 3 STIS visits. Each of the 5 HST orbits contain a non-interruptible sequence. It is essential that the 5 HST orbits be scheduled in a continuous block. We have no ORIENT constraints.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	HD209458	RA: 22 03 10.7721 (330.7948837d) Dec: +18 53 3.54 (18.88432d) Equinox: J2000		V=7.63	Reference Frame: ICRS

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

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ, phase constrained (STIS.ta.820960)	(2) HD209458	STIS/CCD, ACQ, F28X50OII	MIRROR		PHASE 0.944 TO 0.952	Sequence 1-2 Non-Int in HD209458 _G430L_ECL2 (05)	5 Secs (5 Secs) *[==>]*	***[1]***
2	HD209458 G430L Orbit 1 (STIS.sp.820983)	(2) HD209458	STIS/CCD, ACCUM, 52X2	G430L 4300 A	SIZEAXIS2=128; CR-SPLIT=NO; GAIN=4; WAVECAL=NO		Sequence 1-2 Non-Int in HD209458 _G430L_ECL2 (05)	63 Secs X 29 (1827 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]*	***[1]***
3	HD209458 G430L Orbit 2 (STIS.sp.820982)	(2) HD209458	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128; WAVECAL=NO		Sequence 3-4 Non-Int in HD209458 _G430L_ECL2 (05)	1 Secs (1 Secs) *[==>]*	***[2]***

Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.

4	HD209458 G430L Orbit 2 (STIS.sp.820984)	(2) HD209458	STIS/CCD, ACCUM, 52X2	G430L 4300 A	SIZEAXIS2=128; CR-SPLIT=NO; GAIN=4; WAVECAL=NO	Sequence 3-4 Non-Int in HD209458 _G430L_ECL2 (05)	69 Secs X 33 (2277 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[2]***
5	HD209458 G430L Orbit 3 (STIS.sp.820982)	(2) HD209458	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128; WAVECAL=NO	Sequence 5-6 Non-Int in HD209458 _G430L_ECL2 (05)	1 Secs (1 Secs) *[==>]*	***[3]***

Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.

6	HD209458 G430L Orbit 3 (STIS.sp.820984)	(2) HD209458	STIS/CCD, ACCUM, 52X2	G430L 4300 A	SIZEAXIS2=128; CR-SPLIT=NO; GAIN=4; WAVECAL=NO	Sequence 5-6 Non-Int in HD209458 _G430L_ECL2 (05)	69 Secs X 33 (2277 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[3]***
7	HD209458 G430L Orbit 4 (STIS.sp.820982)	(2) HD209458	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128; WAVECAL=NO	Sequence 7-8 Non-Int in HD209458 _G430L_ECL2 (05)	1 Secs (1 Secs) *[==>]*	***[4]***

Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.

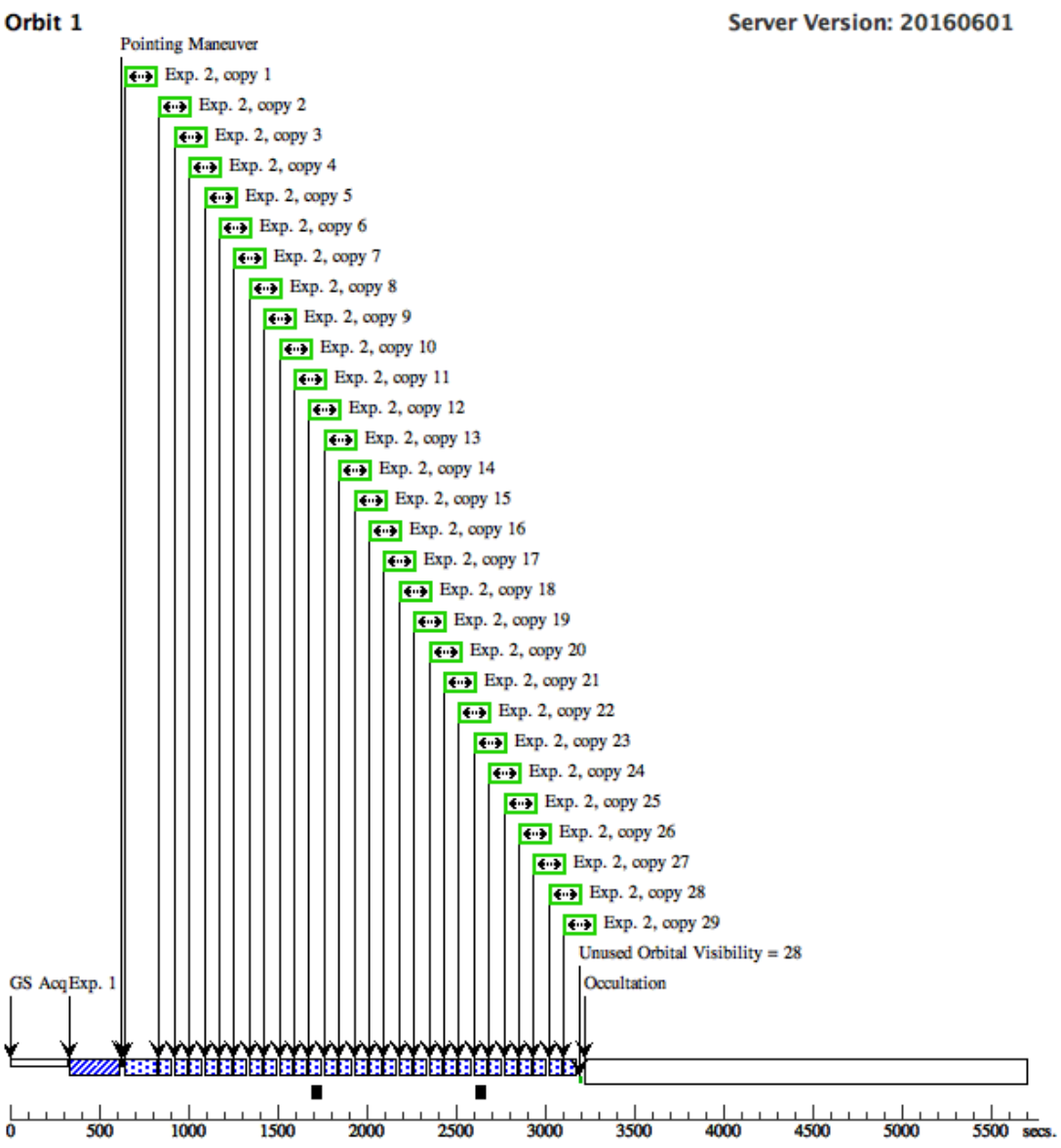
8	HD209458 G430L Orbit 4 (STIS.sp.820984)	(2) HD209458	STIS/CCD, ACCUM, 52X2	G430L 4300 A	SIZEAXIS2=128; CR-SPLIT=NO; GAIN=4; WAVECAL=NO	Sequence 7-8 Non-Int in HD209458 _G430L_ECL2 (05)	69 Secs X 33 (2277 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[4]***
9	HD209458 G430L Orbit 4 (STIS.sp.820982)	(2) HD209458	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128; WAVECAL=NO	Sequence 9-11 Non-Int in HD209458 _G430L_ECL2 (05)	1 Secs (1 Secs) *[==>]*	***[5]***

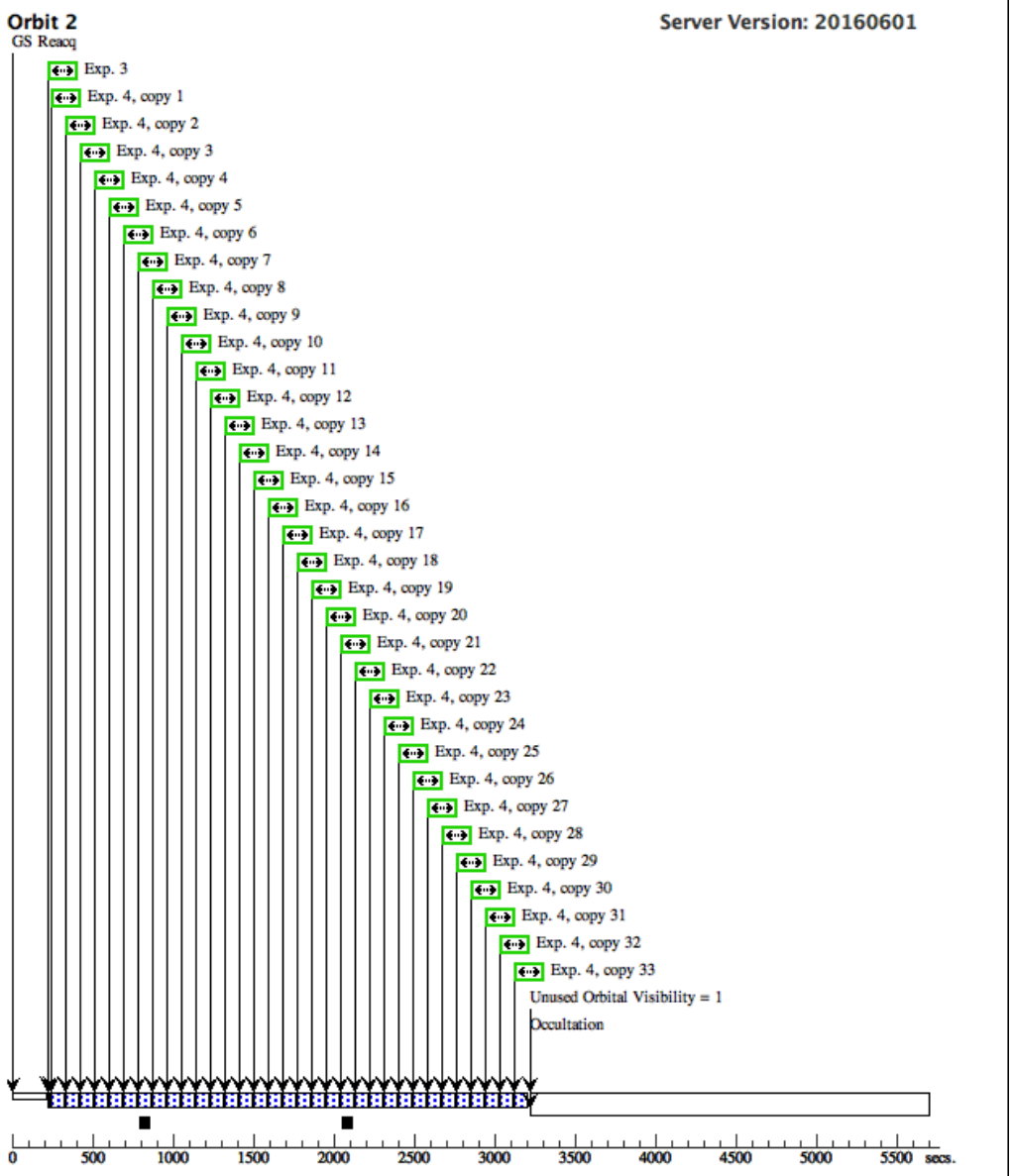
Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.

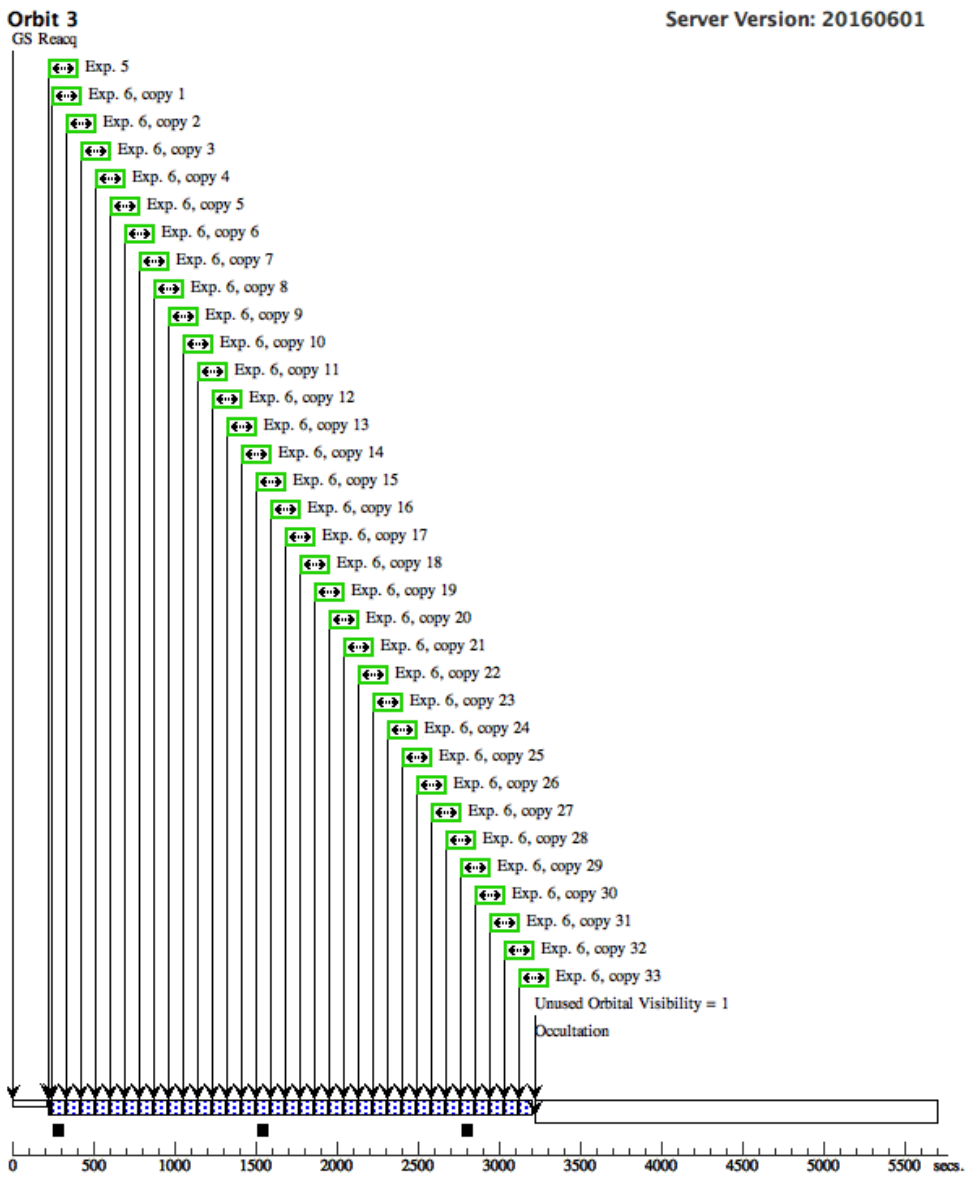
10	HD209458 G430L Orbit 4 (STIS.sp.820984)	(2) HD209458	STIS/CCD, ACCUM, 52X2	G430L 4300 A	SIZEAXIS2=128; CR-SPLIT=NO; GAIN=4; WAVECAL=NO	Sequence 9-11 Non-Int in HD209458 _G430L_ECL2 (05)	69 Secs X 33 (2277 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[5]***
11	WAVE	WAVE	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A		Sequence 9-11 Non-Int in HD209458 _G430L_ECL2 (05)	*[==>]*	***[5]***

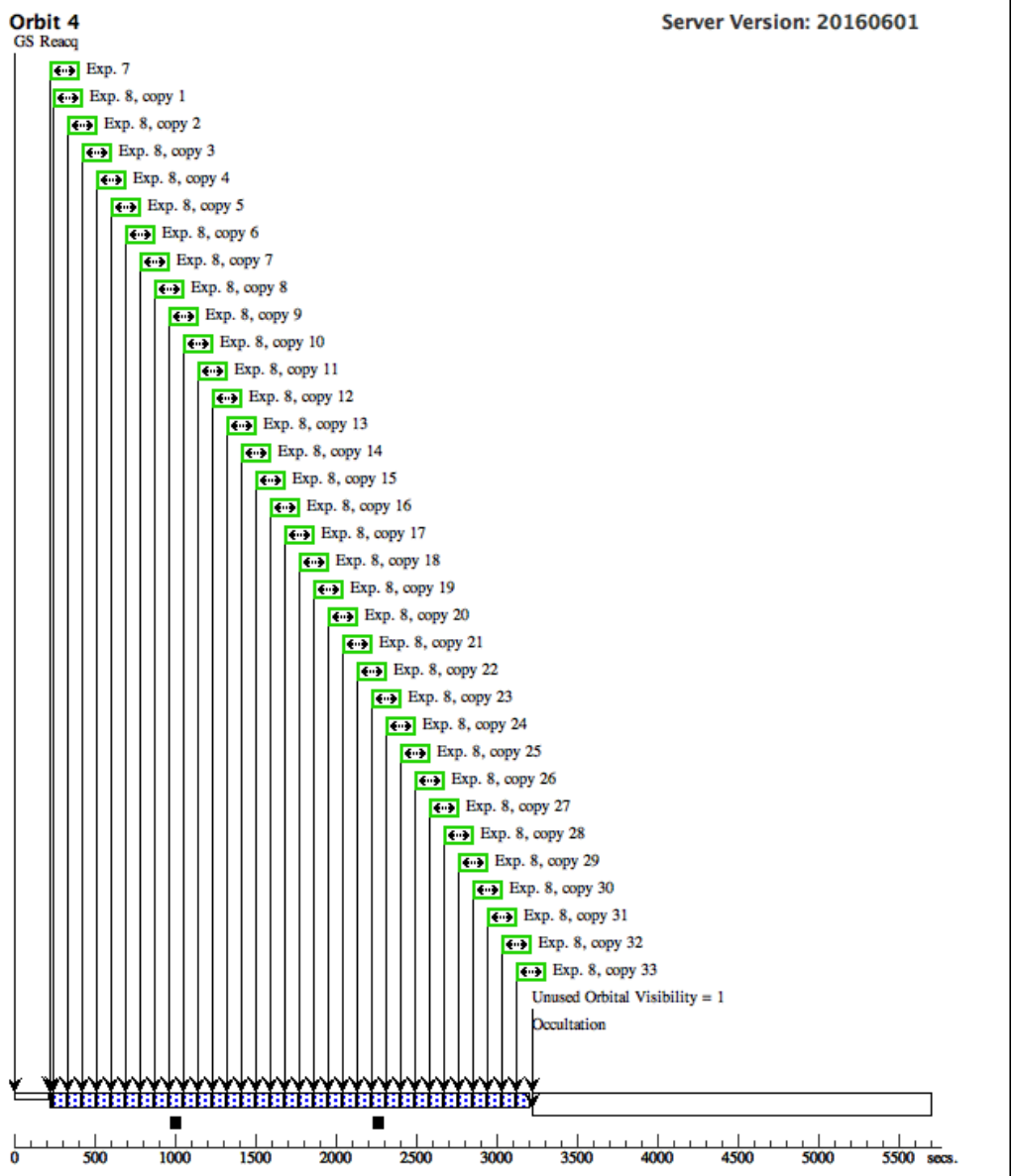
Comments: Explicit WAVECAL, auto-waves disabled

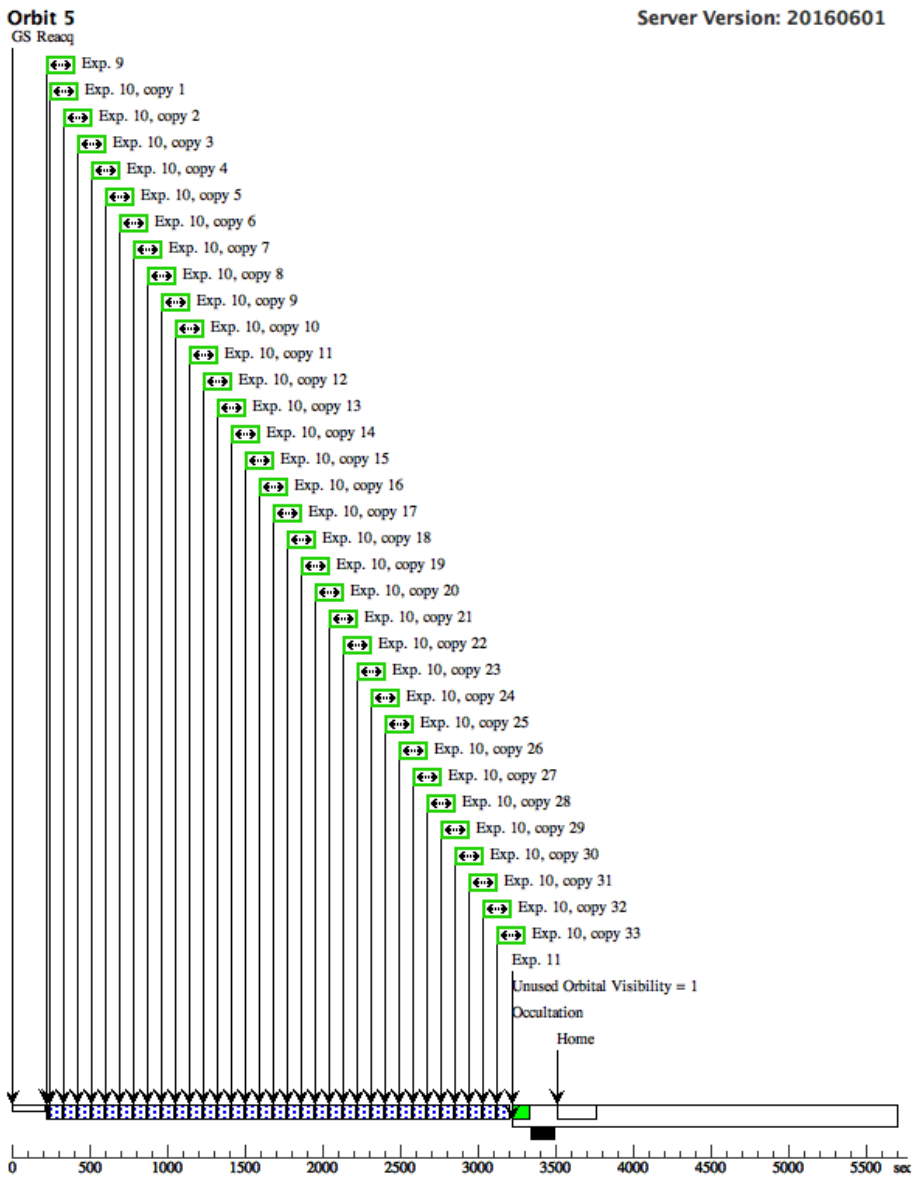
Orbit Structure




Orbit 2
GS Reacq
Server Version: 20160601
Exp. 3
Exp. 4, copy 1
Exp. 4, copy 2
Exp. 4, copy 3
Exp. 4, copy 4
Exp. 4, copy 5
Exp. 4, copy 6
Exp. 4, copy 7
Exp. 4, copy 8
Exp. 4, copy 9
Exp. 4, copy 10
Exp. 4, copy 11
Exp. 4, copy 12
Exp. 4, copy 13
Exp. 4, copy 14
Exp. 4, copy 15
Exp. 4, copy 16
Exp. 4, copy 17
Exp. 4, copy 18
Exp. 4, copy 19
Exp. 4, copy 20
Exp. 4, copy 21
Exp. 4, copy 22
Exp. 4, copy 23
Exp. 4, copy 24
Exp. 4, copy 25
Exp. 4, copy 26
Exp. 4, copy 27
Exp. 4, copy 28
Exp. 4, copy 29
Exp. 4, copy 30
Exp. 4, copy 31
Exp. 4, copy 32
Exp. 4, copy 33
Unused Orbital Visibility = 1
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 3
Server Version: 20160601
GS Reacq
Exp. 5
Exp. 6, copy 1
Exp. 6, copy 2
Exp. 6, copy 3
Exp. 6, copy 4
Exp. 6, copy 5
Exp. 6, copy 6
Exp. 6, copy 7
Exp. 6, copy 8
Exp. 6, copy 9
Exp. 6, copy 10
Exp. 6, copy 11
Exp. 6, copy 12
Exp. 6, copy 13
Exp. 6, copy 14
Exp. 6, copy 15
Exp. 6, copy 16
Exp. 6, copy 17
Exp. 6, copy 18
Exp. 6, copy 19
Exp. 6, copy 20
Exp. 6, copy 21
Exp. 6, copy 22
Exp. 6, copy 23
Exp. 6, copy 24
Exp. 6, copy 25
Exp. 6, copy 26
Exp. 6, copy 27
Exp. 6, copy 28
Exp. 6, copy 29
Exp. 6, copy 30
Exp. 6, copy 31
Exp. 6, copy 32
Exp. 6, copy 33
Unused Orbital Visibility = 1
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 4
Server Version: 20160601
GS Reacq
Exp. 7
Exp. 8, copy 1
Exp. 8, copy 2
Exp. 8, copy 3
Exp. 8, copy 4
Exp. 8, copy 5
Exp. 8, copy 6
Exp. 8, copy 7
Exp. 8, copy 8
Exp. 8, copy 9
Exp. 8, copy 10
Exp. 8, copy 11
Exp. 8, copy 12
Exp. 8, copy 13
Exp. 8, copy 14
Exp. 8, copy 15
Exp. 8, copy 16
Exp. 8, copy 17
Exp. 8, copy 18
Exp. 8, copy 19
Exp. 8, copy 20
Exp. 8, copy 21
Exp. 8, copy 22
Exp. 8, copy 23
Exp. 8, copy 24
Exp. 8, copy 25
Exp. 8, copy 26
Exp. 8, copy 27
Exp. 8, copy 28
Exp. 8, copy 29
Exp. 8, copy 30
Exp. 8, copy 31
Exp. 8, copy 32
Exp. 8, copy 33
Unused Orbital Visibility = 1
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 5
Server Version: 20160601
GS Reacq
Exp. 9
Exp. 10, copy 1
Exp. 10, copy 2
Exp. 10, copy 3
Exp. 10, copy 4
Exp. 10, copy 5
Exp. 10, copy 6
Exp. 10, copy 7
Exp. 10, copy 8
Exp. 10, copy 9
Exp. 10, copy 10
Exp. 10, copy 11
Exp. 10, copy 12
Exp. 10, copy 13
Exp. 10, copy 14
Exp. 10, copy 15
Exp. 10, copy 16
Exp. 10, copy 17
Exp. 10, copy 18
Exp. 10, copy 19
Exp. 10, copy 20
Exp. 10, copy 21
Exp. 10, copy 22
Exp. 10, copy 23
Exp. 10, copy 24
Exp. 10, copy 25
Exp. 10, copy 26
Exp. 10, copy 27
Exp. 10, copy 28
Exp. 10, copy 29
Exp. 10, copy 30
Exp. 10, copy 31
Exp. 10, copy 32
Exp. 10, copy 33
Exp. 11
Unused Orbital Visibility = 1
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14797, HD209458_G430L_ECL3 (06), implementation Fri Jul 29 19:50:41 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD

Special Requirements: Period 3.5247467 D AND ZERO-PHASE HJD2455214.64677

Comments: HD209458. G430L. 1 of 3 STIS visits. Each of the 5 HST orbits contain a non-interruptible sequence. It is essential that the 5 HST orbits be scheduled in a continuous block. We have no ORIENT constraints.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	HD209458	RA: 22 03 10.7721 (330.7948837d) Dec: +18 53 3.54 (18.88432d) Equinox: J2000		V=7.63	Reference Frame: ICRS

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

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ, phase constrained (STIS.ta.820960)	(2) HD209458	STIS/CCD, ACQ, F28X50OII	MIRROR		PHASE 0.944 TO 0.952	Sequence 1-2 Non-Int in HD209458_G430L_ECL3 (06)	5 Secs (5 Secs) *[==>]*	***[1]***
2	HD209458 G430L Orbit 1 (STIS.sp.820983)	(2) HD209458	STIS/CCD, ACCUM, 52X2	G430L 4300 A	SIZEAXIS2=128; CR-SPLIT=NO; GAIN=4; WAVECAL=NO		Sequence 1-2 Non-Int in HD209458_G430L_ECL3 (06)	63 Secs X 29 (1827 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]*	***[1]***
3	HD209458 G430L Orbit 2 (STIS.sp.820982)	(2) HD209458	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128; WAVECAL=NO		Sequence 3-4 Non-Int in HD209458_G430L_ECL3 (06)	1 Secs (1 Secs) *[==>]*	***[2]***

Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.

4	HD209458 G430L Orbit 2 (STIS.sp.820984)	(2) HD209458	STIS/CCD, ACCUM, 52X2	G430L 4300 A	SIZEAXIS2=128; CR-SPLIT=NO; GAIN=4; WAVECAL=NO	Sequence 3-4 Non-Int in HD209458_G430L_ECL3 (06)	69 Secs X 33 (2277 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[2]***
5	HD209458 G430L Orbit 3 (STIS.sp.820982)	(2) HD209458	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128; WAVECAL=NO	Sequence 5-6 Non-Int in HD209458_G430L_ECL3 (06)	1 Secs (1 Secs) *[==>]*	***[3]***

Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.

6	HD209458 G430L Orbit 3 (STIS.sp.820984)	(2) HD209458	STIS/CCD, ACCUM, 52X2	G430L 4300 A	SIZEAXIS2=128; CR-SPLIT=NO; GAIN=4; WAVECAL=NO	Sequence 5-6 Non-Int in HD209458_G430L_ECL3 (06)	69 Secs X 33 (2277 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[3]***
7	HD209458 G430L Orbit 4 (STIS.sp.820982)	(2) HD209458	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128; WAVECAL=NO	Sequence 7-8 Non-Int in HD209458_G430L_ECL3 (06)	1 Secs (1 Secs) *[==>]*	***[4]***

Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.

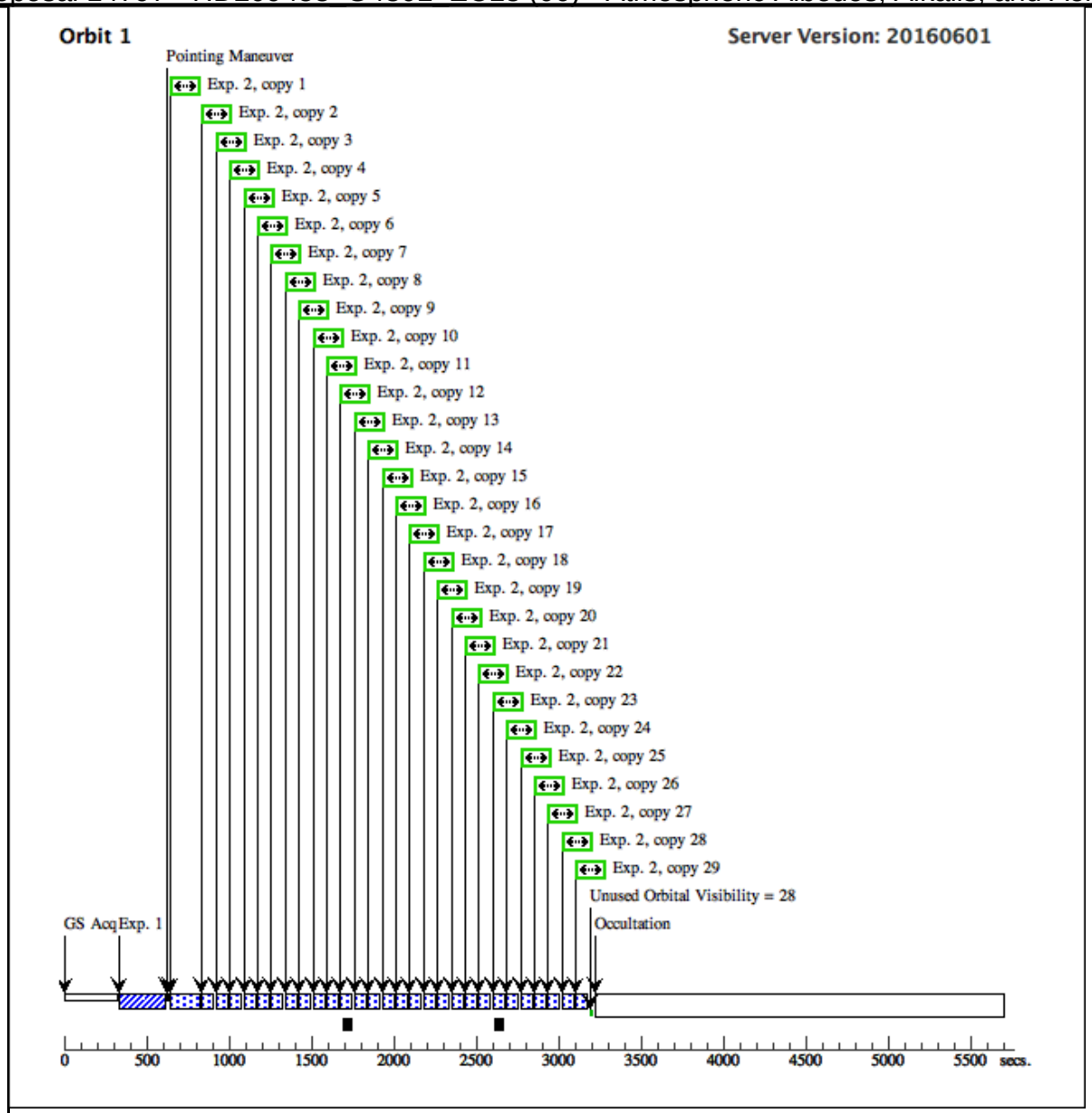
8	HD209458 G430L Orbit 4 (STIS.sp.820984)	(2) HD209458	STIS/CCD, ACCUM, 52X2	G430L 4300 A	SIZEAXIS2=128; CR-SPLIT=NO; GAIN=4; WAVECAL=NO	Sequence 7-8 Non-Int in HD209458_G430L_ECL3 (06)	69 Secs X 33 (2277 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[4]***
9	HD209458 G430L Orbit 4 (STIS.sp.820982)	(2) HD209458	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128; WAVECAL=NO	Sequence 9-11 Non-Int in HD209458_G430L_ECL3 (06)	1 Secs (1 Secs) *[==>]*	***[5]***

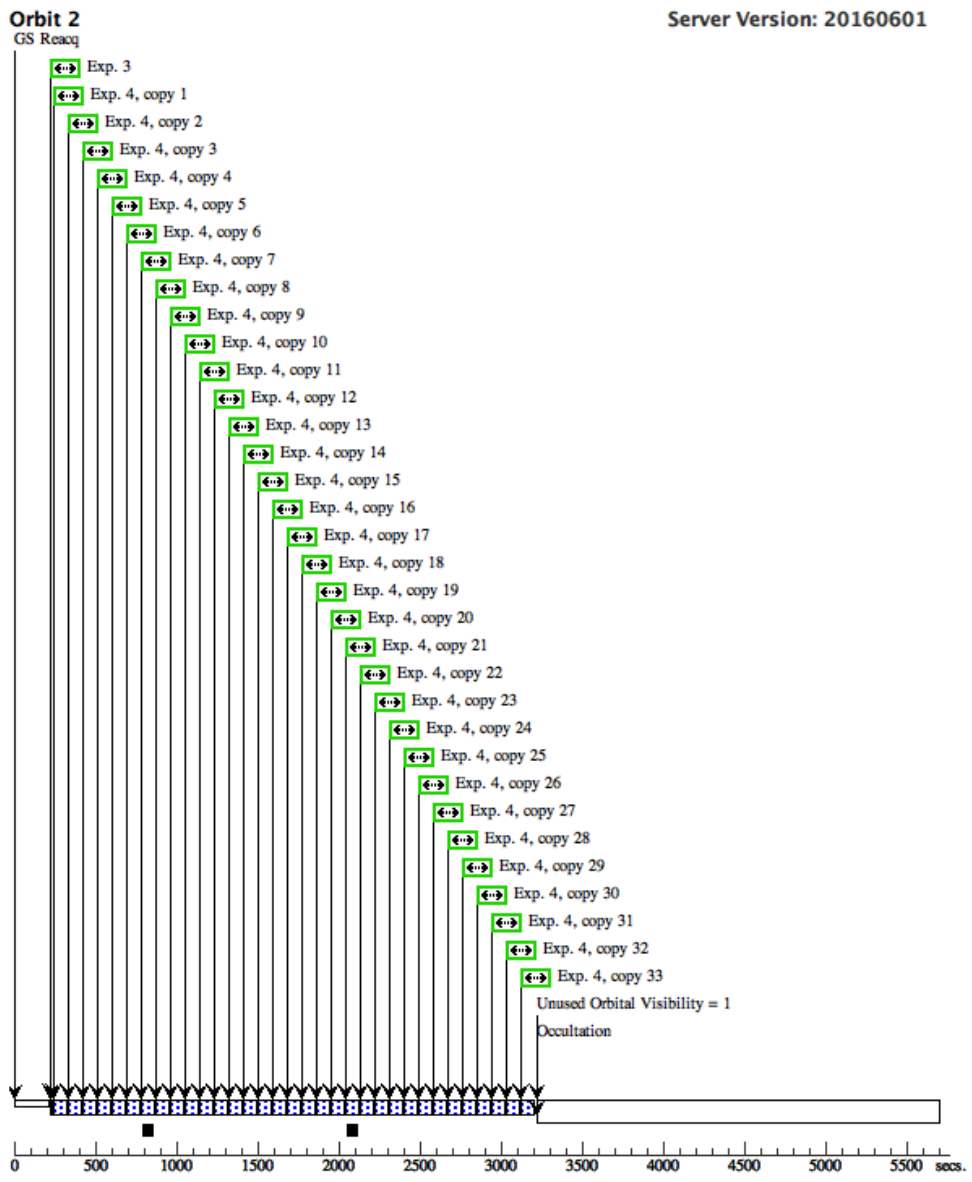
Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.

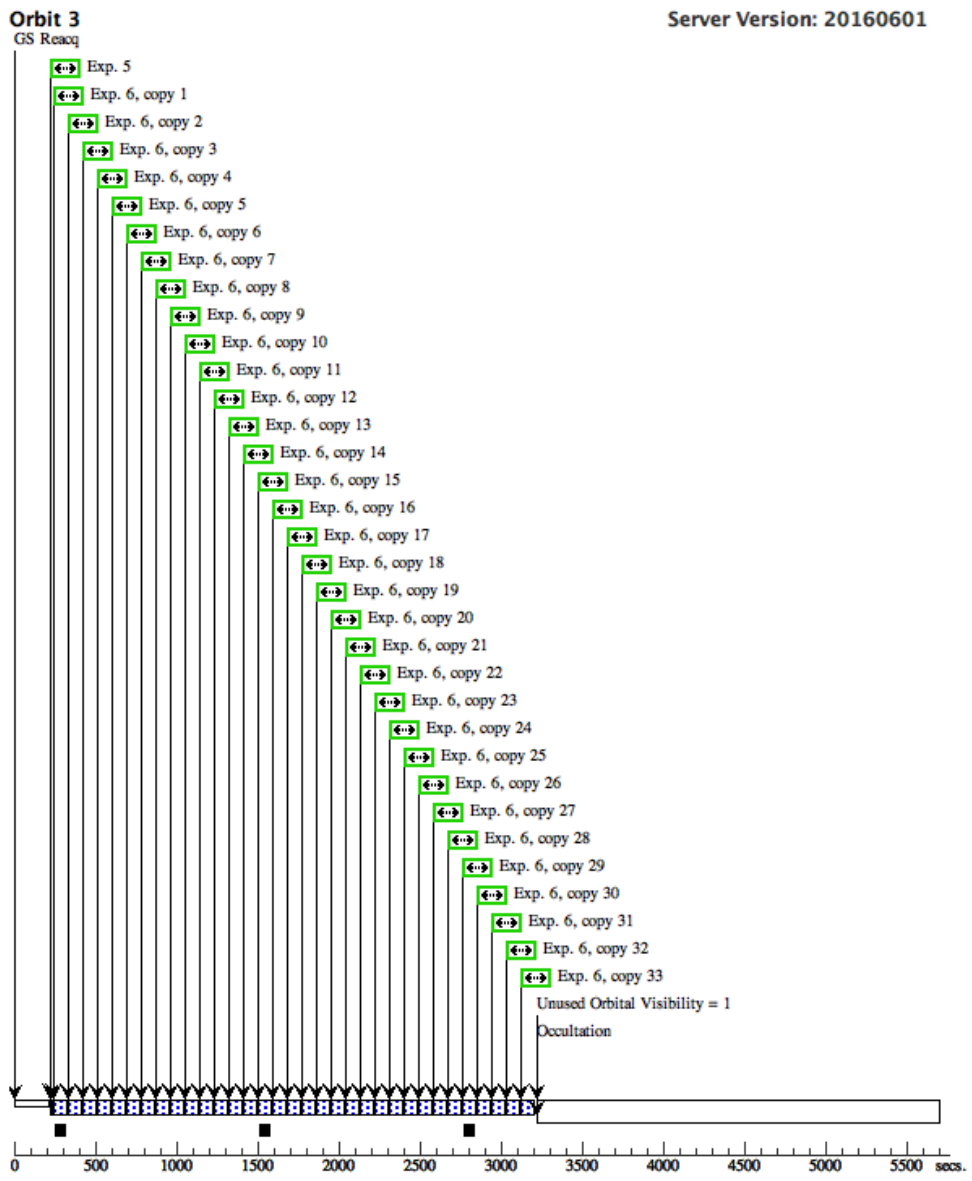
10	HD209458 G430L Orbit 4 (STIS.sp.820984)	(2) HD209458	STIS/CCD, ACCUM, 52X2	G430L 4300 A	SIZEAXIS2=128; CR-SPLIT=NO; GAIN=4; WAVECAL=NO	Sequence 9-11 Non-Int in HD209458_G430L_ECL3 (06)	69 Secs X 33 (2277 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[5]***
11	WAVE	WAVE	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A		Sequence 9-11 Non-Int in HD209458_G430L_ECL3 (06)	*[==>]*	***[5]***

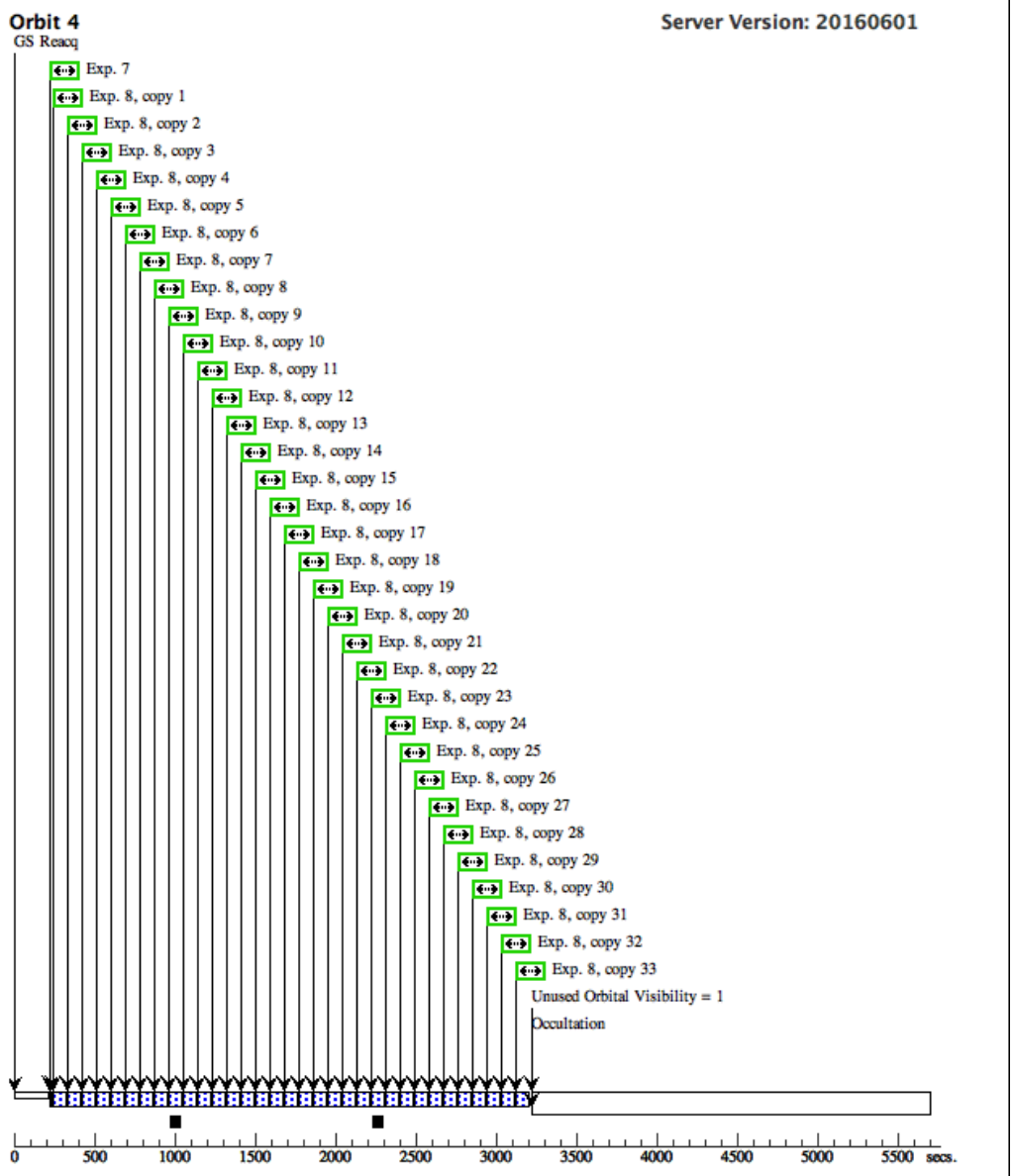
Comments: Explicit WAVECAL, auto-waves disabled

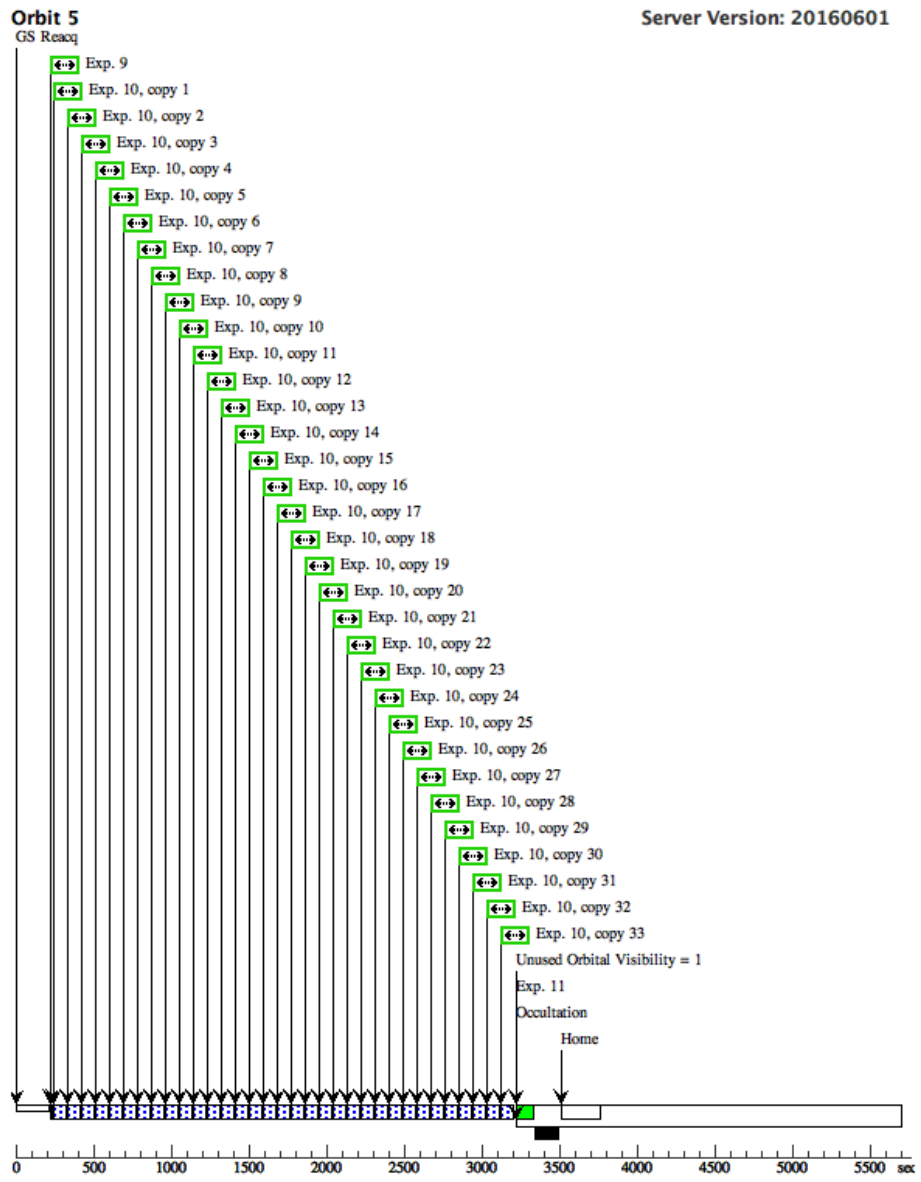
Orbit Structure




Orbit 2
Server Version: 20160601
GS Reacq
Exp. 3
Exp. 4, copy 1
Exp. 4, copy 2
Exp. 4, copy 3
Exp. 4, copy 4
Exp. 4, copy 5
Exp. 4, copy 6
Exp. 4, copy 7
Exp. 4, copy 8
Exp. 4, copy 9
Exp. 4, copy 10
Exp. 4, copy 11
Exp. 4, copy 12
Exp. 4, copy 13
Exp. 4, copy 14
Exp. 4, copy 15
Exp. 4, copy 16
Exp. 4, copy 17
Exp. 4, copy 18
Exp. 4, copy 19
Exp. 4, copy 20
Exp. 4, copy 21
Exp. 4, copy 22
Exp. 4, copy 23
Exp. 4, copy 24
Exp. 4, copy 25
Exp. 4, copy 26
Exp. 4, copy 27
Exp. 4, copy 28
Exp. 4, copy 29
Exp. 4, copy 30
Exp. 4, copy 31
Exp. 4, copy 32
Exp. 4, copy 33
Unused Orbital Visibility = 1
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 3
Server Version: 20160601
GS Reacq
Exp. 5
Exp. 6, copy 1
Exp. 6, copy 2
Exp. 6, copy 3
Exp. 6, copy 4
Exp. 6, copy 5
Exp. 6, copy 6
Exp. 6, copy 7
Exp. 6, copy 8
Exp. 6, copy 9
Exp. 6, copy 10
Exp. 6, copy 11
Exp. 6, copy 12
Exp. 6, copy 13
Exp. 6, copy 14
Exp. 6, copy 15
Exp. 6, copy 16
Exp. 6, copy 17
Exp. 6, copy 18
Exp. 6, copy 19
Exp. 6, copy 20
Exp. 6, copy 21
Exp. 6, copy 22
Exp. 6, copy 23
Exp. 6, copy 24
Exp. 6, copy 25
Exp. 6, copy 26
Exp. 6, copy 27
Exp. 6, copy 28
Exp. 6, copy 29
Exp. 6, copy 30
Exp. 6, copy 31
Exp. 6, copy 32
Exp. 6, copy 33
Unused Orbital Visibility = 1
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 4
Server Version: 20160601
GS Reacq
Exp. 7
Exp. 8, copy 1
Exp. 8, copy 2
Exp. 8, copy 3
Exp. 8, copy 4
Exp. 8, copy 5
Exp. 8, copy 6
Exp. 8, copy 7
Exp. 8, copy 8
Exp. 8, copy 9
Exp. 8, copy 10
Exp. 8, copy 11
Exp. 8, copy 12
Exp. 8, copy 13
Exp. 8, copy 14
Exp. 8, copy 15
Exp. 8, copy 16
Exp. 8, copy 17
Exp. 8, copy 18
Exp. 8, copy 19
Exp. 8, copy 20
Exp. 8, copy 21
Exp. 8, copy 22
Exp. 8, copy 23
Exp. 8, copy 24
Exp. 8, copy 25
Exp. 8, copy 26
Exp. 8, copy 27
Exp. 8, copy 28
Exp. 8, copy 29
Exp. 8, copy 30
Exp. 8, copy 31
Exp. 8, copy 32
Exp. 8, copy 33
Unused Orbital Visibility = 1
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 5
Server Version: 20160601
GS Reacq
Exp. 9
Exp. 10, copy 1
Exp. 10, copy 2
Exp. 10, copy 3
Exp. 10, copy 4
Exp. 10, copy 5
Exp. 10, copy 6
Exp. 10, copy 7
Exp. 10, copy 8
Exp. 10, copy 9
Exp. 10, copy 10
Exp. 10, copy 11
Exp. 10, copy 12
Exp. 10, copy 13
Exp. 10, copy 14
Exp. 10, copy 15
Exp. 10, copy 16
Exp. 10, copy 17
Exp. 10, copy 18
Exp. 10, copy 19
Exp. 10, copy 20
Exp. 10, copy 21
Exp. 10, copy 22
Exp. 10, copy 23
Exp. 10, copy 24
Exp. 10, copy 25
Exp. 10, copy 26
Exp. 10, copy 27
Exp. 10, copy 28
Exp. 10, copy 29
Exp. 10, copy 30
Exp. 10, copy 31
Exp. 10, copy 32
Exp. 10, copy 33
Unused Orbital Visibility = 1
Exp. 11
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14797, WASP-12_G430L_ECL1 (07), implementation Fri Jul 29 19:50:41 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD

Special Requirements: ORIENT 264D TO 324 D; ORIENT 84D TO 144 D; Period 1.0914209 D AND ZERO-PHASE HJD2455910.9083

Comments: WASP-12. G430L. Single STIS visit. Each of the 5 HST orbits contain a non-interruptible sequence. It is essential that the 5 HST orbits be scheduled in a continuous block. We set ORIENT to avoid spectral contamination by a companion at d=1.07 arcsec, PA=249 deg.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	WASP-12	RA: 06 30 32.7940 (97.6366417d) Dec: +29 40 20.29 (29.67230d) Equinox: J2000		V=11.57	Reference Frame: ICRS

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

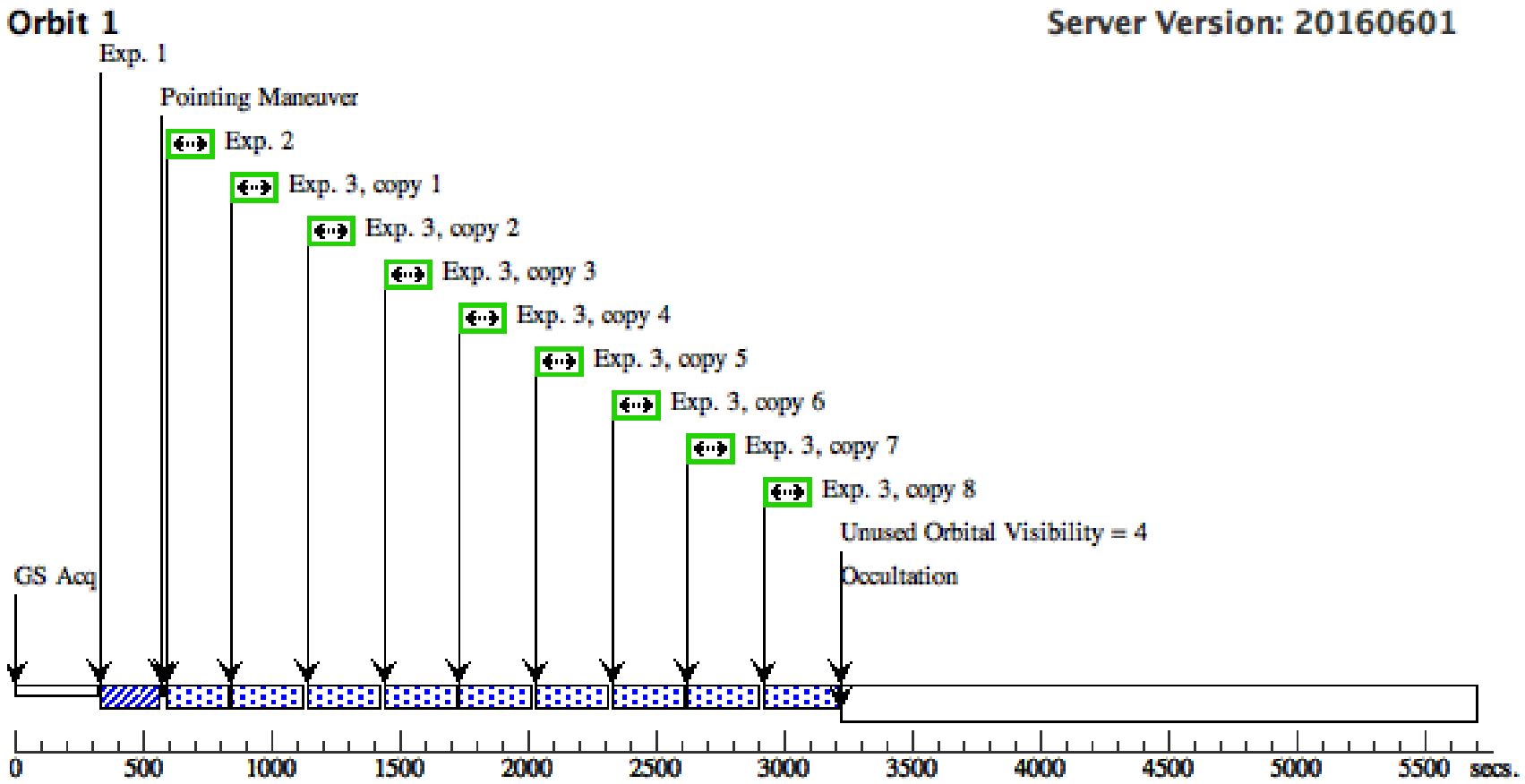
Exposures

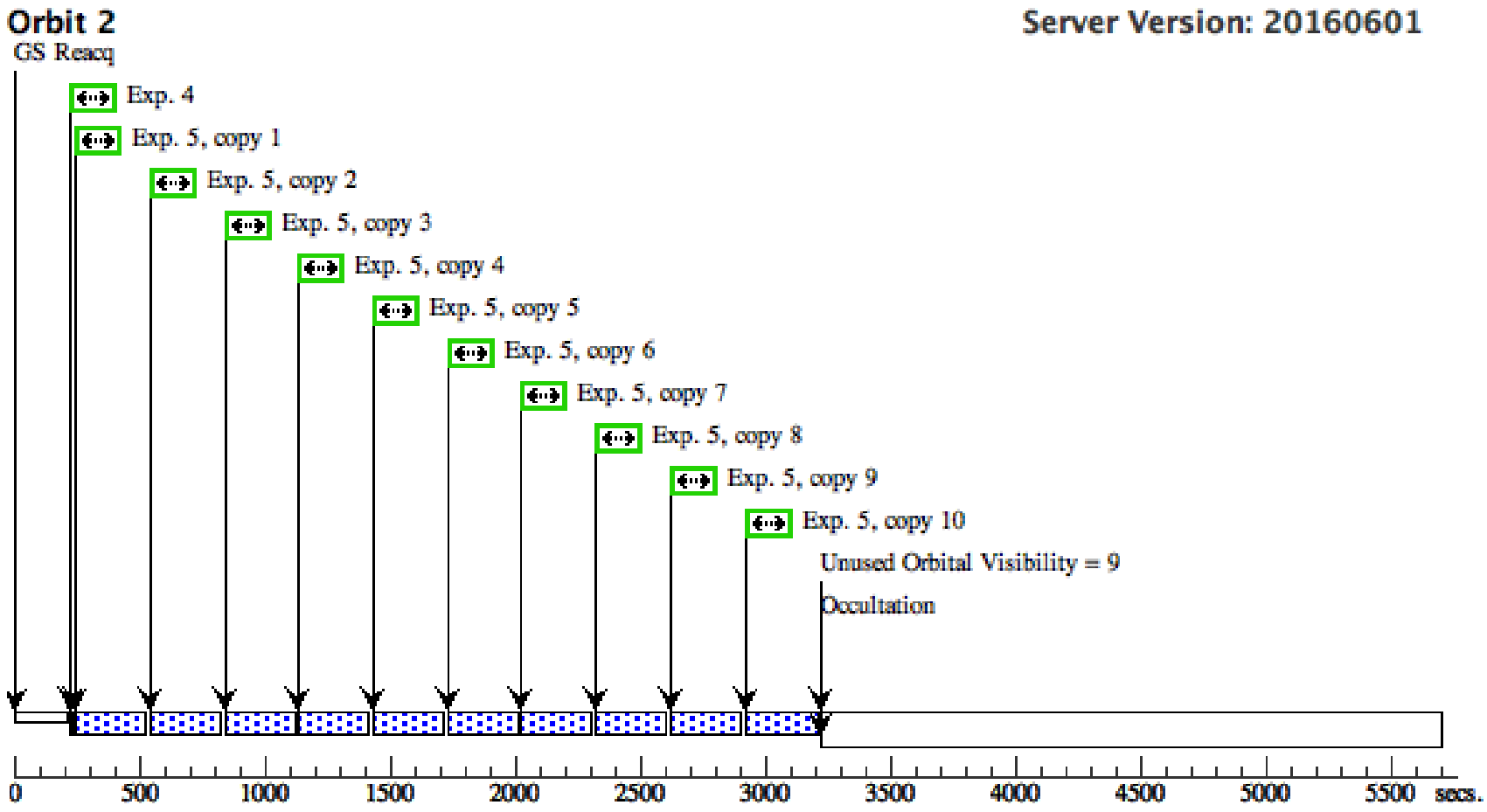
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ, phase constrained (STIS.ta.820949)	(3) WASP-12	STIS/CCD, ACQ, F28X50LP	MIRROR		PHASE 0.834 TO 0.841	Sequence 1-3 Non-Int in WASP-12_G430L_ECL1 (07)	.7 Secs (0.7 Secs) *[==>]*	***[1]***
2	WASP-12 G430L Orbit 1 (STIS.sp.820980)	(3) WASP-12	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO		Sequence 1-3 Non-Int in WASP-12_G430L_ECL1 (07)	120 Secs (120 Secs) *[==>]*	***[1]***
Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.									
3	WASP-12 G430L Orbit 1 (STIS.sp.820981)	(3) WASP-12	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO		Sequence 1-3 Non-Int in WASP-12_G430L_ECL1 (07)	276 Secs X 8 (2208 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	***[1]***
4	WASP-12 G430L Orbit 2 (STIS.sp.820979)	(3) WASP-12	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO		Sequence 4-5 Non-Int in WASP-12_G430L_ECL1 (07)	1 Secs (1 Secs) *[==>]*	***[2]***
Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.									
5	WASP-12 G430L Orbit 2 (STIS.sp.820981)	(3) WASP-12	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO		Sequence 4-5 Non-Int in WASP-12_G430L_ECL1 (07)	276. Secs X 10 (2760 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]*	***[2]***
6	WASP-12 G430L Orbit 3 (STIS.sp.820979)	(3) WASP-12	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO		Sequence 6-7 Non-Int in WASP-12_G430L_ECL1 (07)	1 Secs (1 Secs) *[==>]*	***[3]***
Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.									

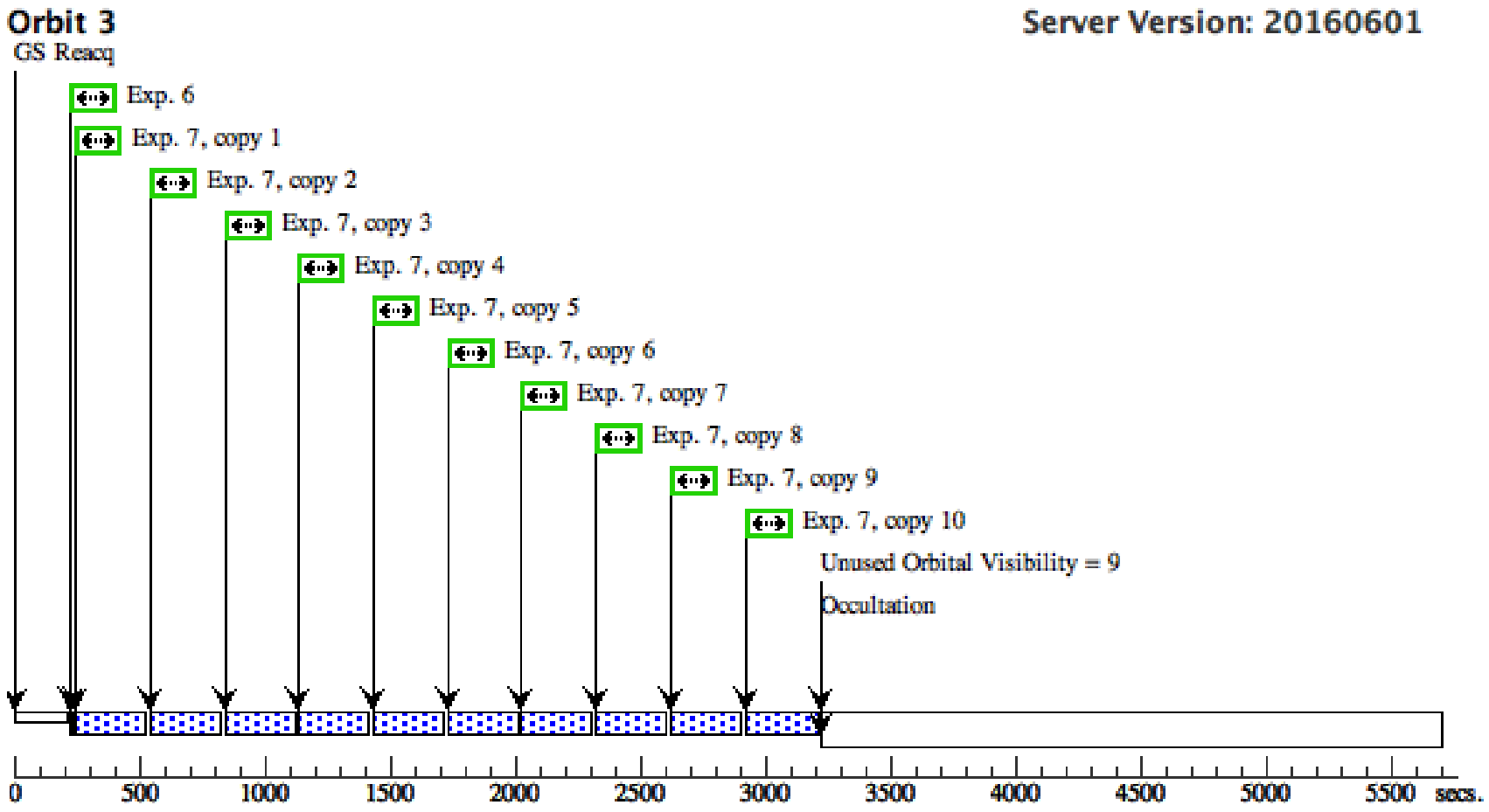
7	WASP-12 G 430L Orbit 3 (STIS.sp.820981)	(3) WASP-12	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO	Sequence 6-7 Non-Int in WASP-12_G430L_ECL1 (07)	276 Secs X 10 (2760 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]*	***[3]***
8	WASP-12 G 430L Orbit 4 (STIS.sp.820979)	(3) WASP-12	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO	Sequence 8-9 Non-Int in WASP-12_G430L_ECL1 (07)	1 Secs (1 Secs) *[==>]*	***[4]***
Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.								
9	WASP-12 G 430L Orbit 4 (STIS.sp.820981)	(3) WASP-12	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO	Sequence 8-9 Non-Int in WASP-12_G430L_ECL1 (07)	276 Secs X 10 (2760 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]*	***[4]***
10	WASP-12 G 430L Orbit 5 (STIS.sp.820979)	(3) WASP-12	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO	Sequence 10-12 Non-Int in WASP-12_G430L_ECL1 (07)	1 Secs (1 Secs) *[==>]*	***[5]***
Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.								
11	WASP-12 G 430L Orbit 5 (STIS.sp.820981)	(3) WASP-12	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO	Sequence 10-12 Non-Int in WASP-12_G430L_ECL1 (07)	276 Secs X 10 (2760 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]*	***[5]***

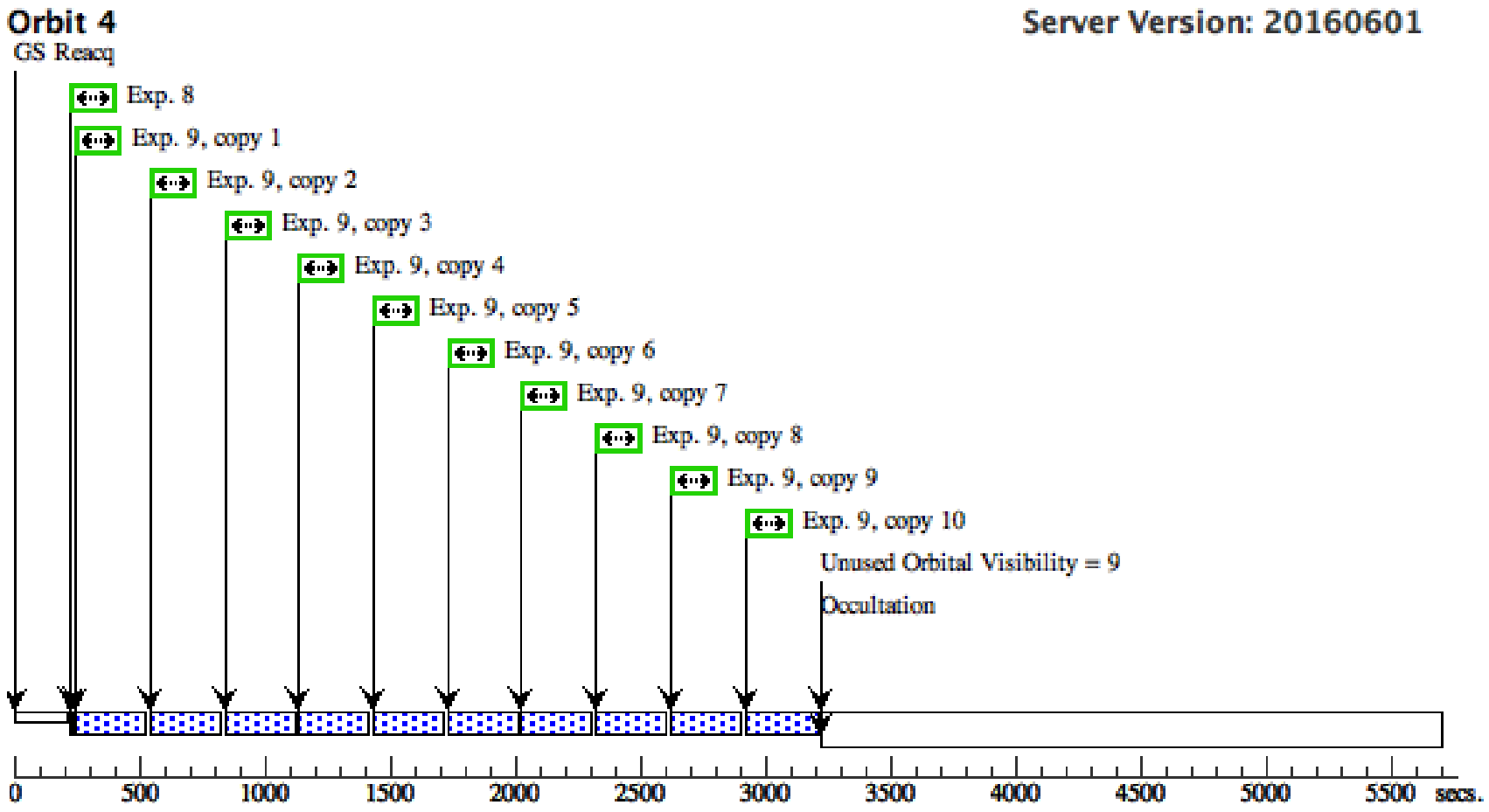
	12	WAVE	WAVE	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A	Sequence 10-12 Non -Int in WASP-12_G430L_ECL1 (07)	*[==>]*	***[5]***
	Comments: Explicit WAVECAL, auto-waves disabled							

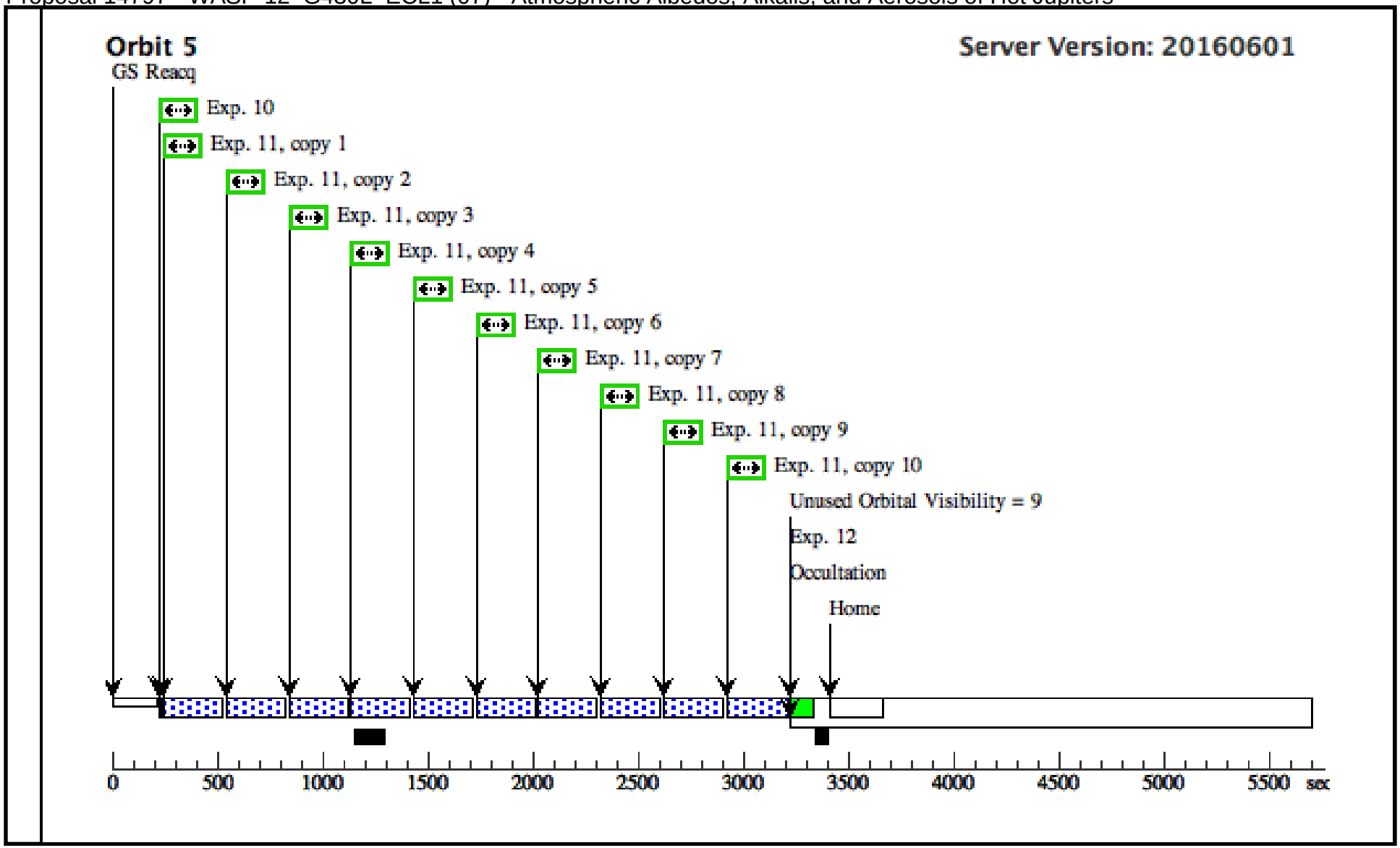
Orbit Structure




Orbit 2
Server Version: 20160601
GS Reacq
Exp. 4
Exp. 5, copy 1
Exp. 5, copy 2
Exp. 5, copy 3
Exp. 5, copy 4
Exp. 5, copy 5
Exp. 5, copy 6
Exp. 5, copy 7
Exp. 5, copy 8
Exp. 5, copy 9
Exp. 5, copy 10
Unused Orbital Visibility = 9
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 3
Server Version: 20160601
GS Reacq
Exp. 6
Exp. 7, copy 1
Exp. 7, copy 2
Exp. 7, copy 3
Exp. 7, copy 4
Exp. 7, copy 5
Exp. 7, copy 6
Exp. 7, copy 7
Exp. 7, copy 8
Exp. 7, copy 9
Exp. 7, copy 10
Unused Orbital Visibility = 9
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 4
Server Version: 20160601
GS Reacq
Exp. 8
Exp. 9, copy 1
Exp. 9, copy 2
Exp. 9, copy 3
Exp. 9, copy 4
Exp. 9, copy 5
Exp. 9, copy 6
Exp. 9, copy 7
Exp. 9, copy 8
Exp. 9, copy 9
Exp. 9, copy 10
Unused Orbital Visibility = 9
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 5
Server Version: 20160601
GS Reacq
Exp. 10
Exp. 11, copy 1
Exp. 11, copy 2
Exp. 11, copy 3
Exp. 11, copy 4
Exp. 11, copy 5
Exp. 11, copy 6
Exp. 11, copy 7
Exp. 11, copy 8
Exp. 11, copy 9
Exp. 11, copy 10
Unused Orbital Visibility = 9
Exp. 12
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14797, WASP-43_G430L_ECL1 (08), implementation Fri Jul 29 19:50:41 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD

Special Requirements: Period 0.8134755 D AND ZERO-PHASE HJD2456601.4360

Comments: WASP-43. G430L. 1 of 3 STIS visits. Each of the 4 HST orbits contain a non-interruptible sequence. It is essential that the 4 HST orbits be scheduled in a continuous block. We have no ORIENT constraints.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	WASP-43	RA: 10 19 38.0080 (154.9083667d) Dec: -09 48 22.59 (-9.80628d) Equinox: J2000		V=12.4	Reference Frame: ICRS

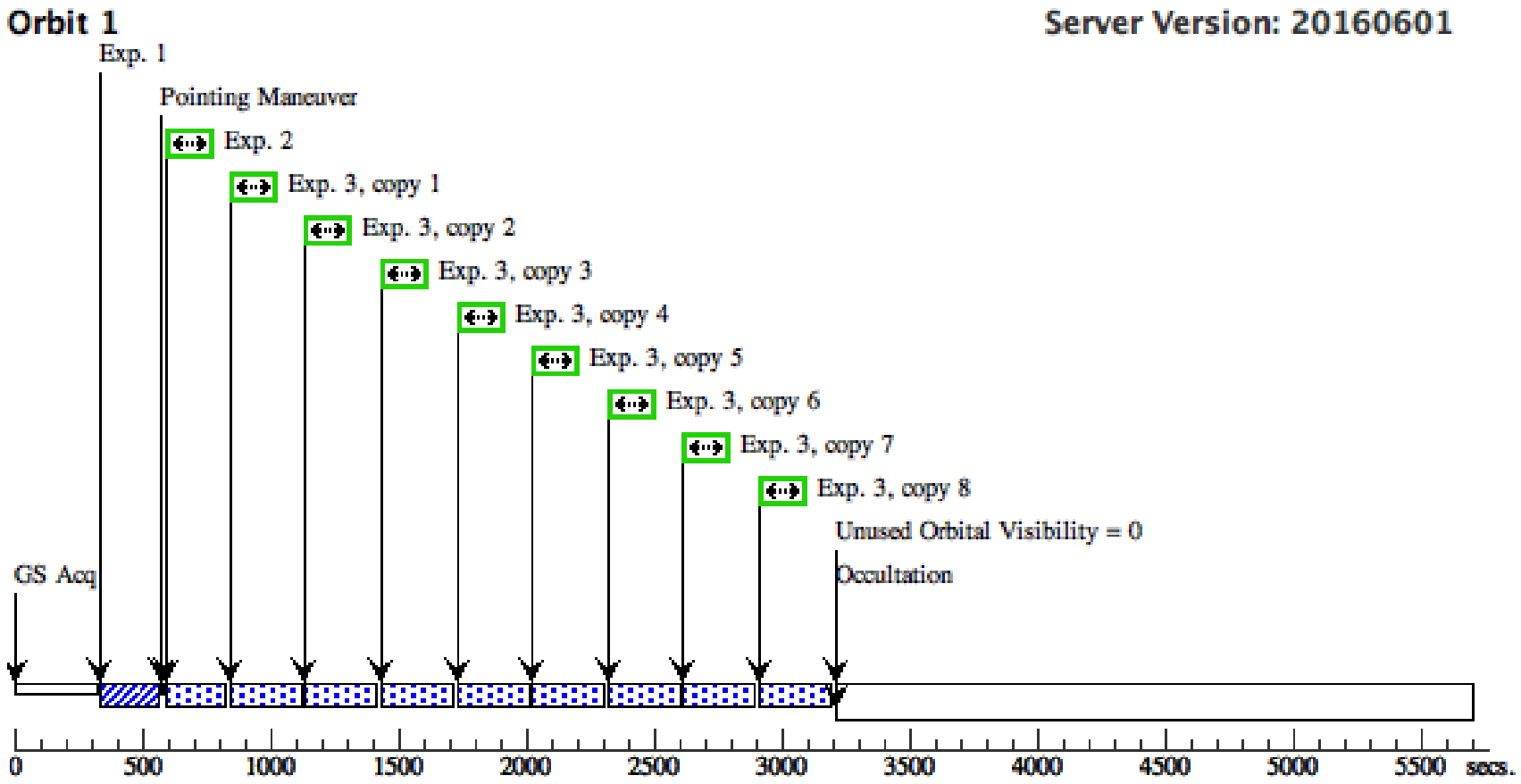
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

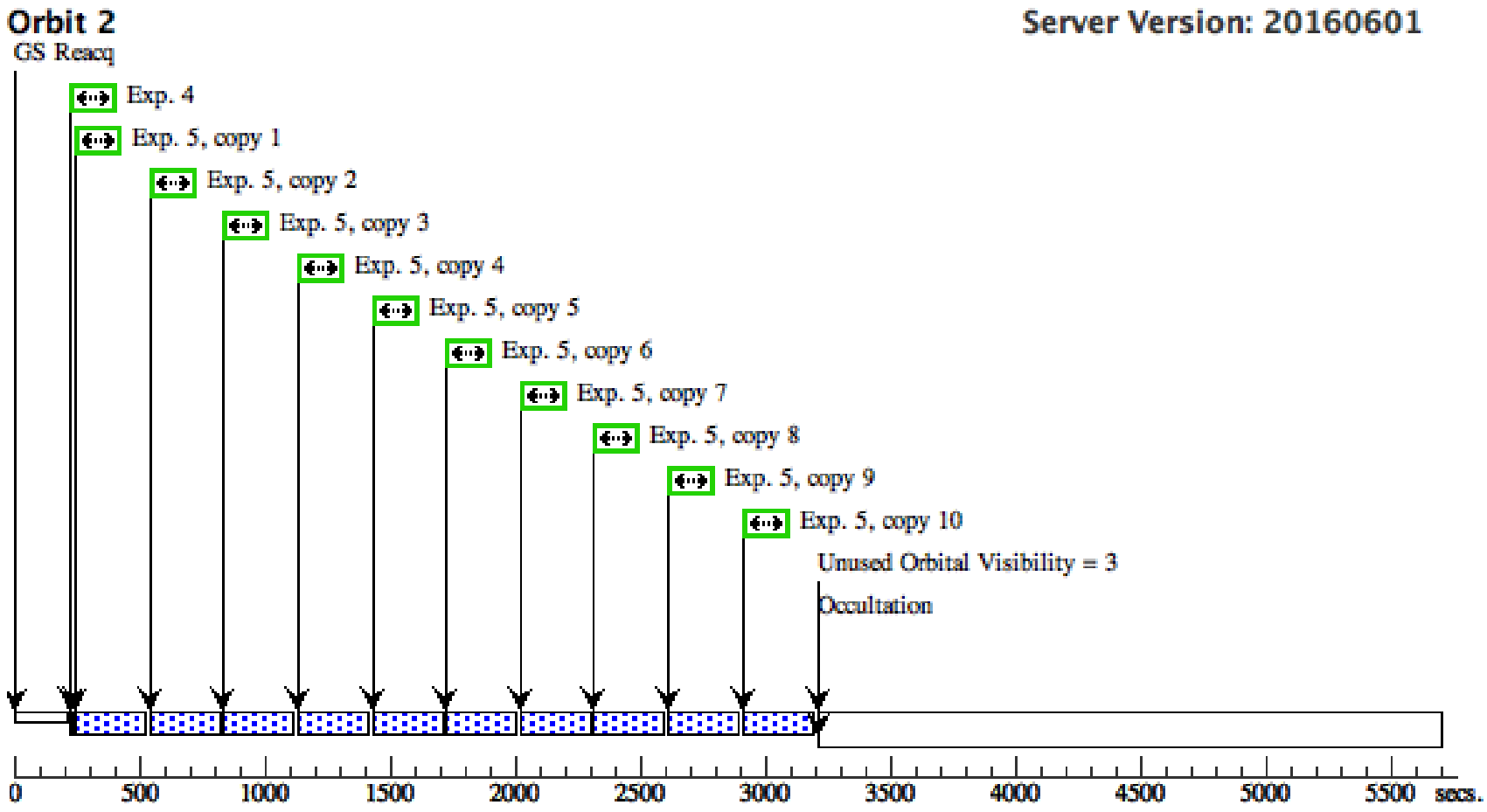
Exposures

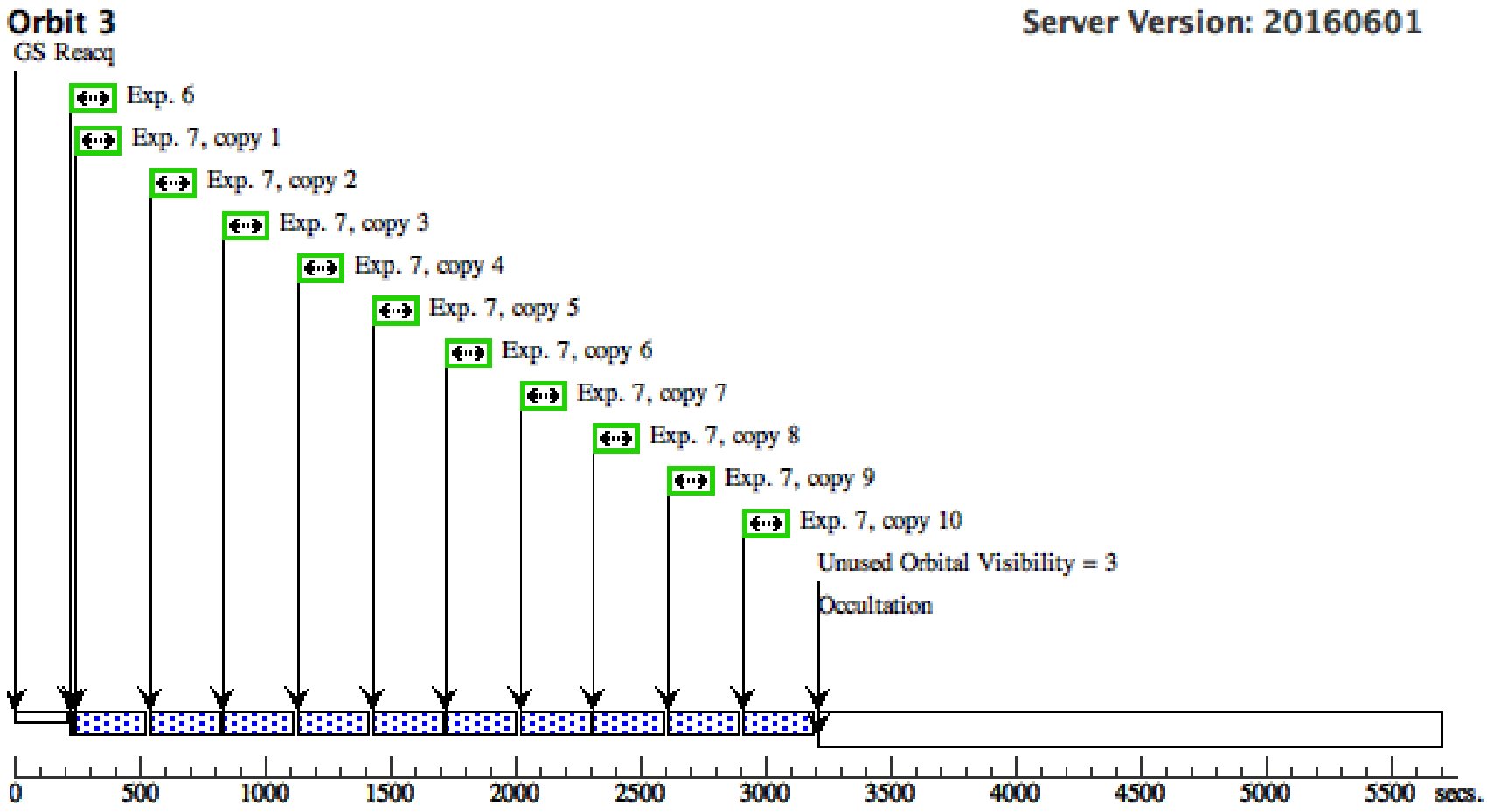
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ, phase constrained (STIS.ta.820963)	(4) WASP-43	STIS/CCD, ACQ, F28X50LP	MIRROR		PHASE 0.8103 TO 0.8160	Sequence 1-3 Non-Int in WASP-43_G430L_ECL1 (08)	0.7 Secs (0.7 Secs) *[==>]*	*[1]*
2	WASP-43 G430L Orbit 1 (STIS.sp.820976)	(4) WASP-43	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO		Sequence 1-3 Non-Int in WASP-43_G430L_ECL1 (08)	116 Secs (116 Secs) *[==>]*	*[1]*
Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.									
3	WASP-43 G430L Orbit 1 (STIS.sp.820977)	(4) WASP-43	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO		Sequence 1-3 Non-Int in WASP-43_G430L_ECL1 (08)	275 Secs X 8 (2200 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	*[1]*
4	WASP-43 G430L Orbit 2 (STIS.sp.820978)	(4) WASP-43	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO		Sequence 4-5 Non-Int in WASP-43_G430L_ECL1 (08)	1 Secs (1 Secs) *[==>]*	*[2]*
Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.									
5	WASP-43 G430L Orbit 2 (STIS.sp.820977)	(4) WASP-43	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO		Sequence 4-5 Non-Int in WASP-43_G430L_ECL1 (08)	275 Secs X 10 (2750 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]*	*[2]*
6	WASP-43 G430L Orbit 3 (STIS.sp.820978)	(4) WASP-43	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO		Sequence 6-7 Non-Int in WASP-43_G430L_ECL1 (08)	1 Secs (1 Secs) *[==>]*	*[3]*
Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.									

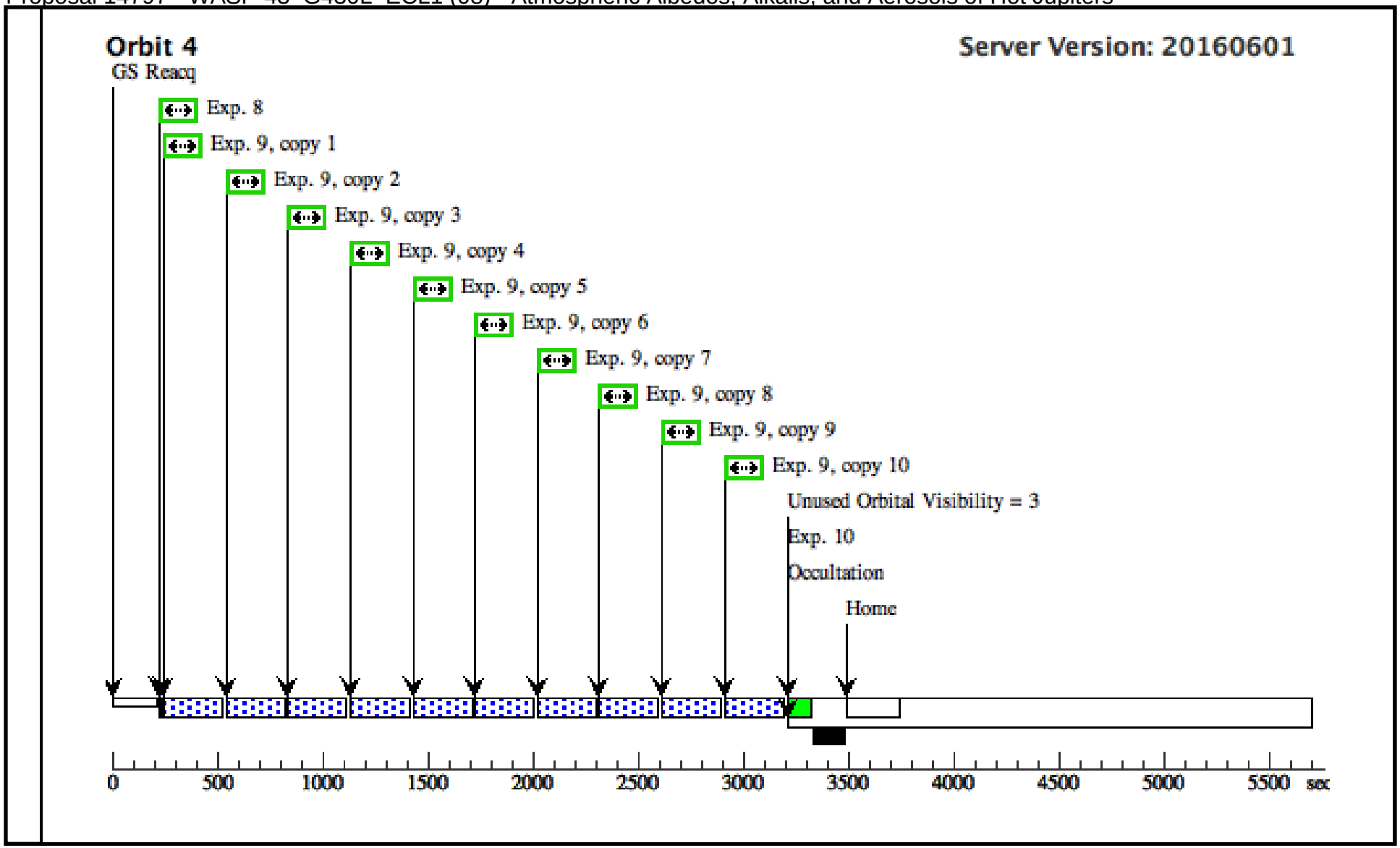
7	WASP-43 G 430L Orbit 3 (STIS.sp.820977)	(4) WASP-43	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO	Sequence 6-7 Non-Int in WASP-43_G430L_ECL1 (08)	275 Secs X 10 (2750 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]*	***[3]***
8	WASP-43 G 430L Orbit 4 (STIS.sp.820978)	(4) WASP-43	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO	Sequence 8-10 Non-Int in WASP-43_G430L_ECL1 (08)	1 Secs (1 Secs) *[==>]*	***[4]***
Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.								
9	WASP-43 G 430L Orbit 4 (STIS.sp.820977)	(4) WASP-43	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO	Sequence 8-10 Non-Int in WASP-43_G430L_ECL1 (08)	275 Secs X 10 (2750 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]*	***[4]***
10	WAVE	WAVE	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A		Sequence 8-10 Non-Int in WASP-43_G430L_ECL1 (08)	*[==>]*	***[4]***
Comments: Explicit WAVECAL, auto-waves disabled								

Orbit Structure




Orbit 2
Server Version: 20160601
GS Reacq
Exp. 4
Exp. 5, copy 1
Exp. 5, copy 2
Exp. 5, copy 3
Exp. 5, copy 4
Exp. 5, copy 5
Exp. 5, copy 6
Exp. 5, copy 7
Exp. 5, copy 8
Exp. 5, copy 9
Exp. 5, copy 10
Unused Orbital Visibility = 3
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 3
Server Version: 20160601
GS Reacq
Exp. 6
Exp. 7, copy 1
Exp. 7, copy 2
Exp. 7, copy 3
Exp. 7, copy 4
Exp. 7, copy 5
Exp. 7, copy 6
Exp. 7, copy 7
Exp. 7, copy 8
Exp. 7, copy 9
Exp. 7, copy 10
Unused Orbital Visibility = 3
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 4
Server Version: 20160601
GS Reacq
Exp. 8
Exp. 9, copy 1
Exp. 9, copy 2
Exp. 9, copy 3
Exp. 9, copy 4
Exp. 9, copy 5
Exp. 9, copy 6
Exp. 9, copy 7
Exp. 9, copy 8
Exp. 9, copy 9
Exp. 9, copy 10
Unused Orbital Visibility = 3
Exp. 10
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14797, WASP-43_G430L_ECL2 (09), implementation Fri Jul 29 19:50:41 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD

Special Requirements: Period 0.8134755 D AND ZERO-PHASE HJD2456601.4360

Comments: WASP-43. G430L. 1 of 3 STIS visits. Each of the 4 HST orbits contain a non-interruptible sequence. It is essential that the 4 HST orbits be scheduled in a continuous block. We have no ORIENT constraints.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	WASP-43	RA: 10 19 38.0080 (154.9083667d) Dec: -09 48 22.59 (-9.80628d) Equinox: J2000		V=12.4	Reference Frame: ICRS

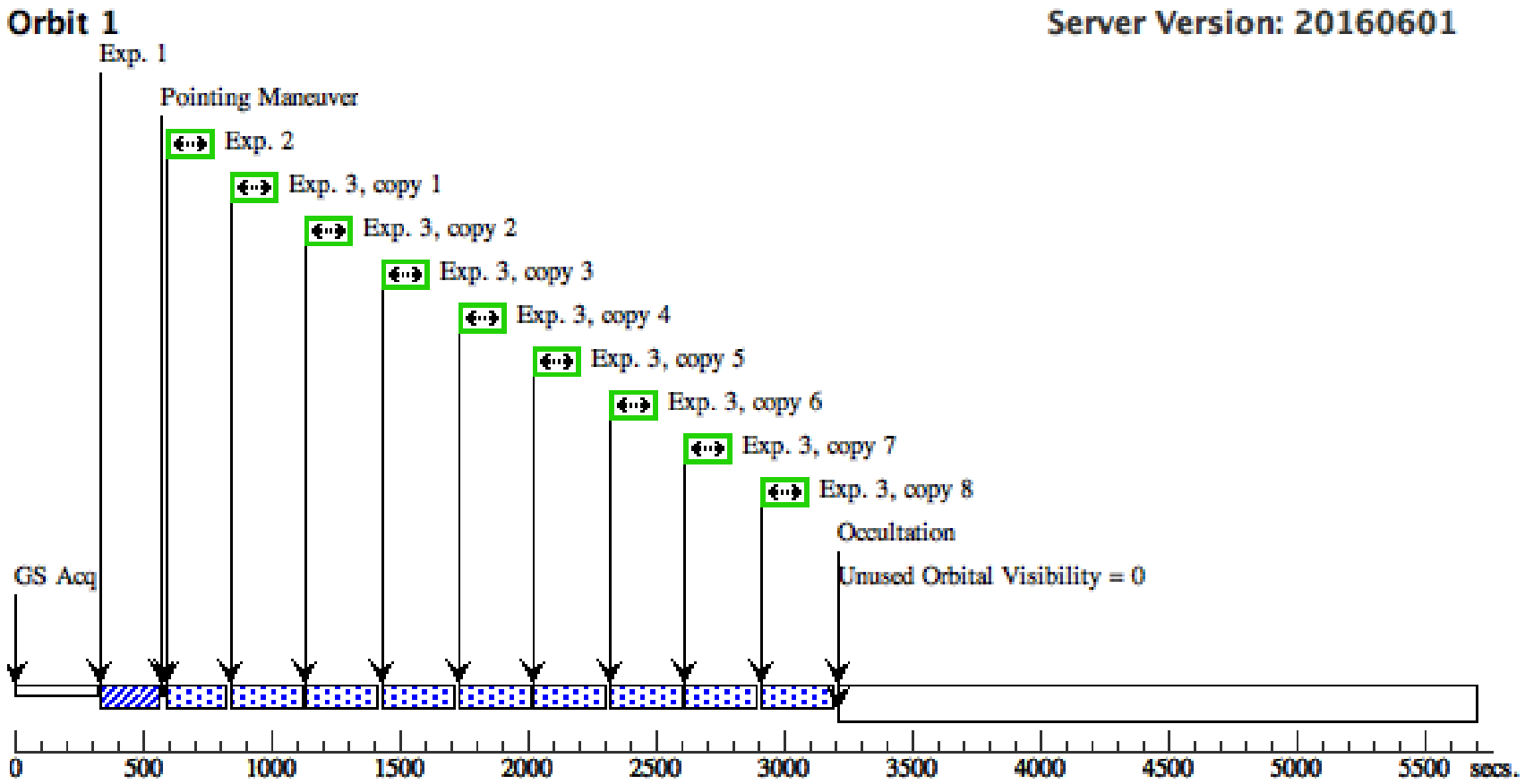
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

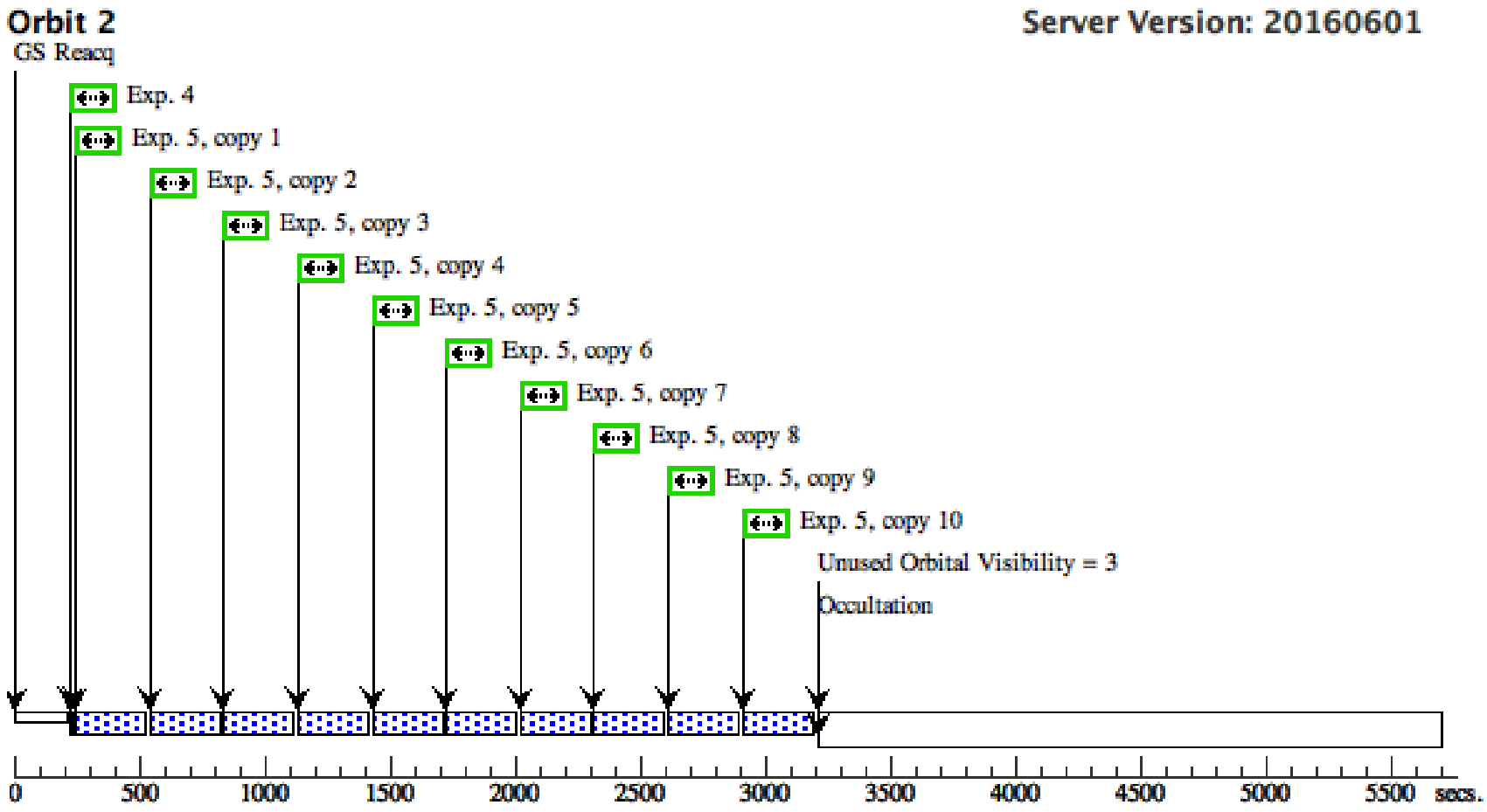
Exposures

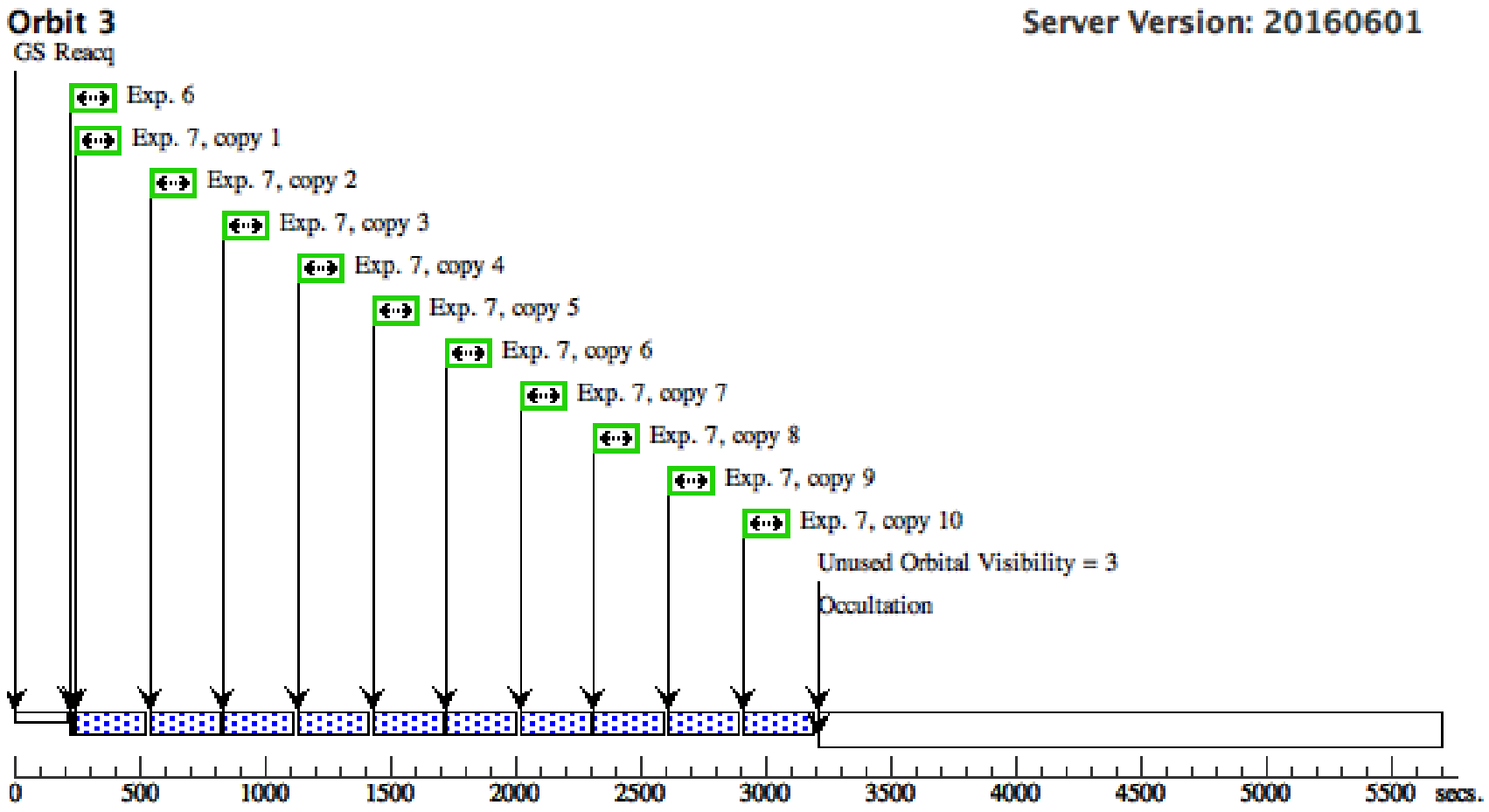
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ, phase constrained (STIS.ta.820963)	(4) WASP-43	STIS/CCD, ACQ, F28X50LP	MIRROR		PHASE 0.8103 TO 0.8160	Sequence 1-3 Non-Int in WASP-43_G430L_ECL2 (09)	0.7 Secs (0.7 Secs) *[==>]*	*[1]*
2	WASP-43 G430L Orbit 1 (STIS.sp.820976)	(4) WASP-43	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO		Sequence 1-3 Non-Int in WASP-43_G430L_ECL2 (09)	116 Secs (116 Secs) *[==>]*	*[1]*
Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.									
3	WASP-43 G430L Orbit 1 (STIS.sp.820977)	(4) WASP-43	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO		Sequence 1-3 Non-Int in WASP-43_G430L_ECL2 (09)	275 Secs X 8 (2200 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	*[1]*
4	WASP-43 G430L Orbit 2 (STIS.sp.820978)	(4) WASP-43	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO		Sequence 4-5 Non-Int in WASP-43_G430L_ECL2 (09)	1 Secs (1 Secs) *[==>]*	*[2]*
Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.									
5	WASP-43 G430L Orbit 2 (STIS.sp.820977)	(4) WASP-43	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO		Sequence 4-5 Non-Int in WASP-43_G430L_ECL2 (09)	275 Secs X 10 (2750 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]*	*[2]*
6	WASP-43 G430L Orbit 3 (STIS.sp.820978)	(4) WASP-43	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO		Sequence 6-7 Non-Int in WASP-43_G430L_ECL2 (09)	1 Secs (1 Secs) *[==>]*	*[3]*
Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.									

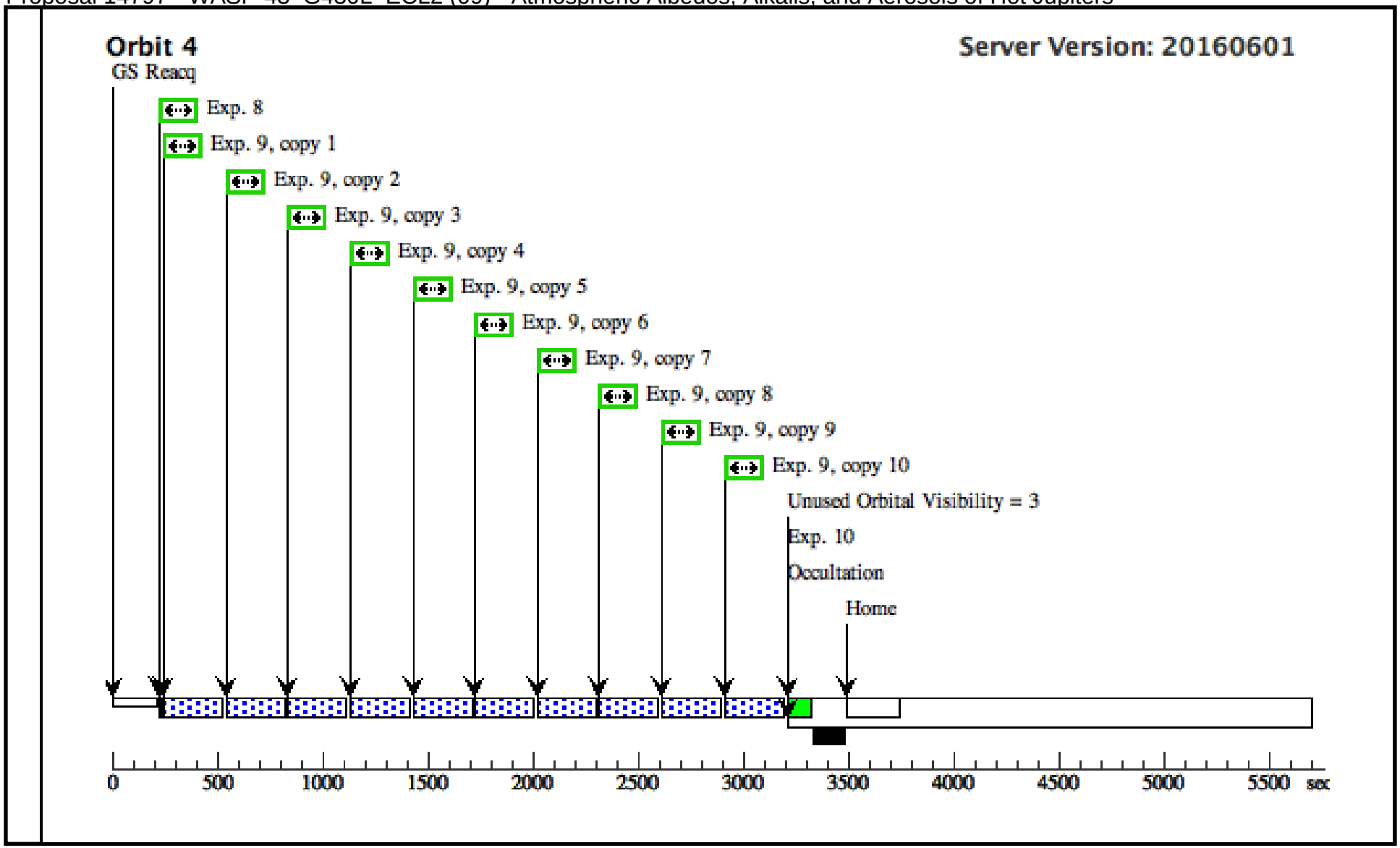
7	WASP-43 G430L Orbit 3 (STIS.sp.820977)	(4) WASP-43	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO	Sequence 6-7 Non-Int in WASP-43_G430L_ECL2 (09)	275 Secs X 10 (2750 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]*	***[3]***
8	WASP-43 G430L Orbit 4 (STIS.sp.820978)	(4) WASP-43	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO	Sequence 8-10 Non-Int in WASP-43_G430L_ECL2 (09)	1 Secs (1 Secs) *[==>]*	***[4]***
Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.								
9	WASP-43 G430L Orbit 4 (STIS.sp.820977)	(4) WASP-43	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO	Sequence 8-10 Non-Int in WASP-43_G430L_ECL2 (09)	275 Secs X 10 (2750 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]*	***[4]***
10	WAVE	WAVE	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A		Sequence 8-10 Non-Int in WASP-43_G430L_ECL2 (09)	*[==>]*	***[4]***
Comments: Explicit WAVECAL, auto-waves disabled								

Orbit Structure




Orbit 2
Server Version: 20160601
GS Reacq
Exp. 4
Exp. 5, copy 1
Exp. 5, copy 2
Exp. 5, copy 3
Exp. 5, copy 4
Exp. 5, copy 5
Exp. 5, copy 6
Exp. 5, copy 7
Exp. 5, copy 8
Exp. 5, copy 9
Exp. 5, copy 10
Unused Orbital Visibility = 3
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 3
Server Version: 20160601
GS Reacq
Exp. 6
Exp. 7, copy 1
Exp. 7, copy 2
Exp. 7, copy 3
Exp. 7, copy 4
Exp. 7, copy 5
Exp. 7, copy 6
Exp. 7, copy 7
Exp. 7, copy 8
Exp. 7, copy 9
Exp. 7, copy 10
Unused Orbital Visibility = 3
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 4
Server Version: 20160601
GS Reacq
Exp. 8
Exp. 9, copy 1
Exp. 9, copy 2
Exp. 9, copy 3
Exp. 9, copy 4
Exp. 9, copy 5
Exp. 9, copy 6
Exp. 9, copy 7
Exp. 9, copy 8
Exp. 9, copy 9
Exp. 9, copy 10
Unused Orbital Visibility = 3
Exp. 10
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14797, WASP-43_G430L_ECL3 (10), implementation Fri Jul 29 19:50:41 GMT 2016

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD

Special Requirements: Period 0.8134755 D AND ZERO-PHASE HJD2456601.4360

Comments: WASP-43. G430L. 1 of 3 STIS visits. Each of the 4 HST orbits contain a non-interruptible sequence. It is essential that the 4 HST orbits be scheduled in a continuous block. We have no ORIENT constraints.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	WASP-43	RA: 10 19 38.0080 (154.9083667d) Dec: -09 48 22.59 (-9.80628d) Equinox: J2000		V=12.4	Reference Frame: ICRS

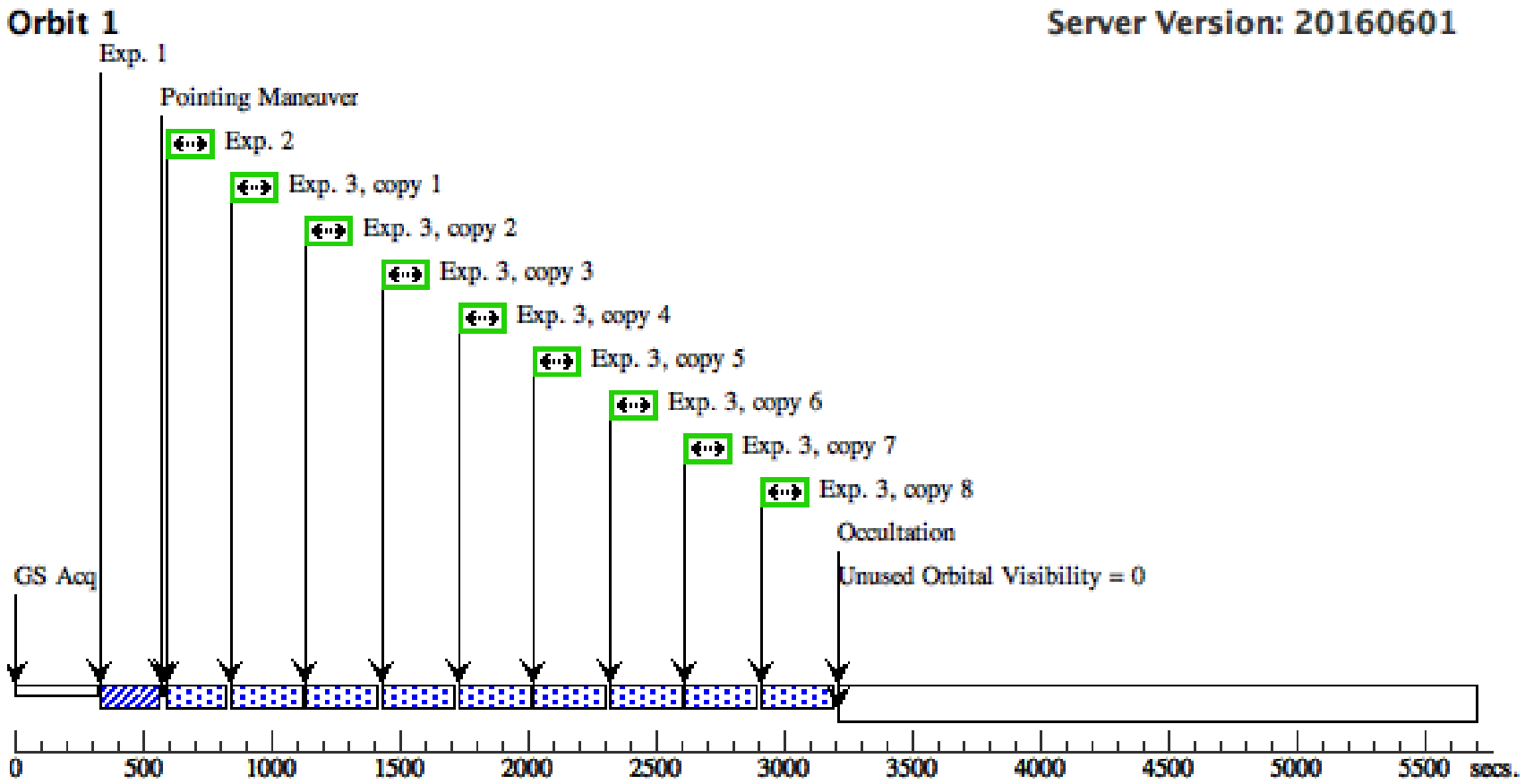
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

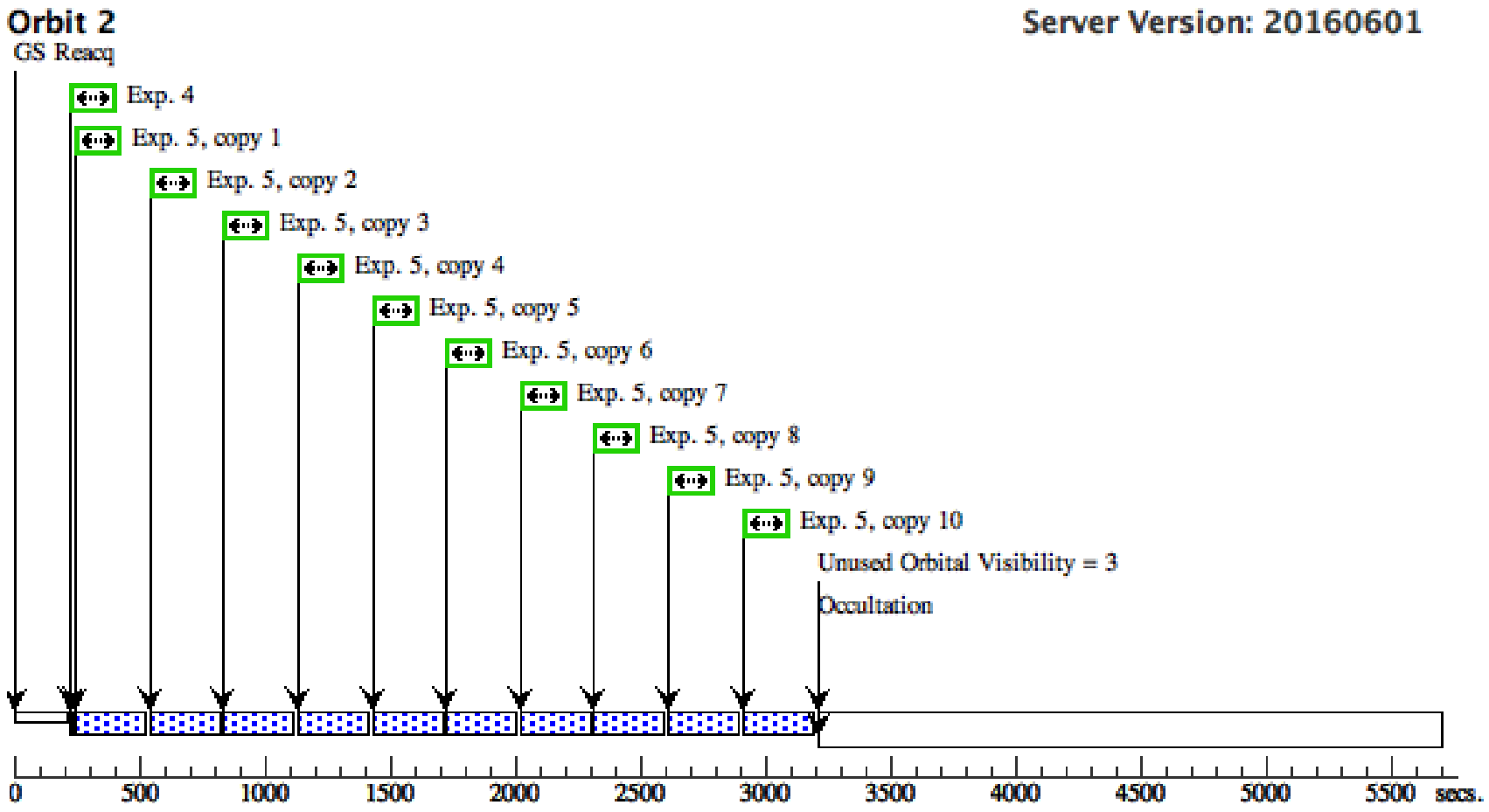
Exposures

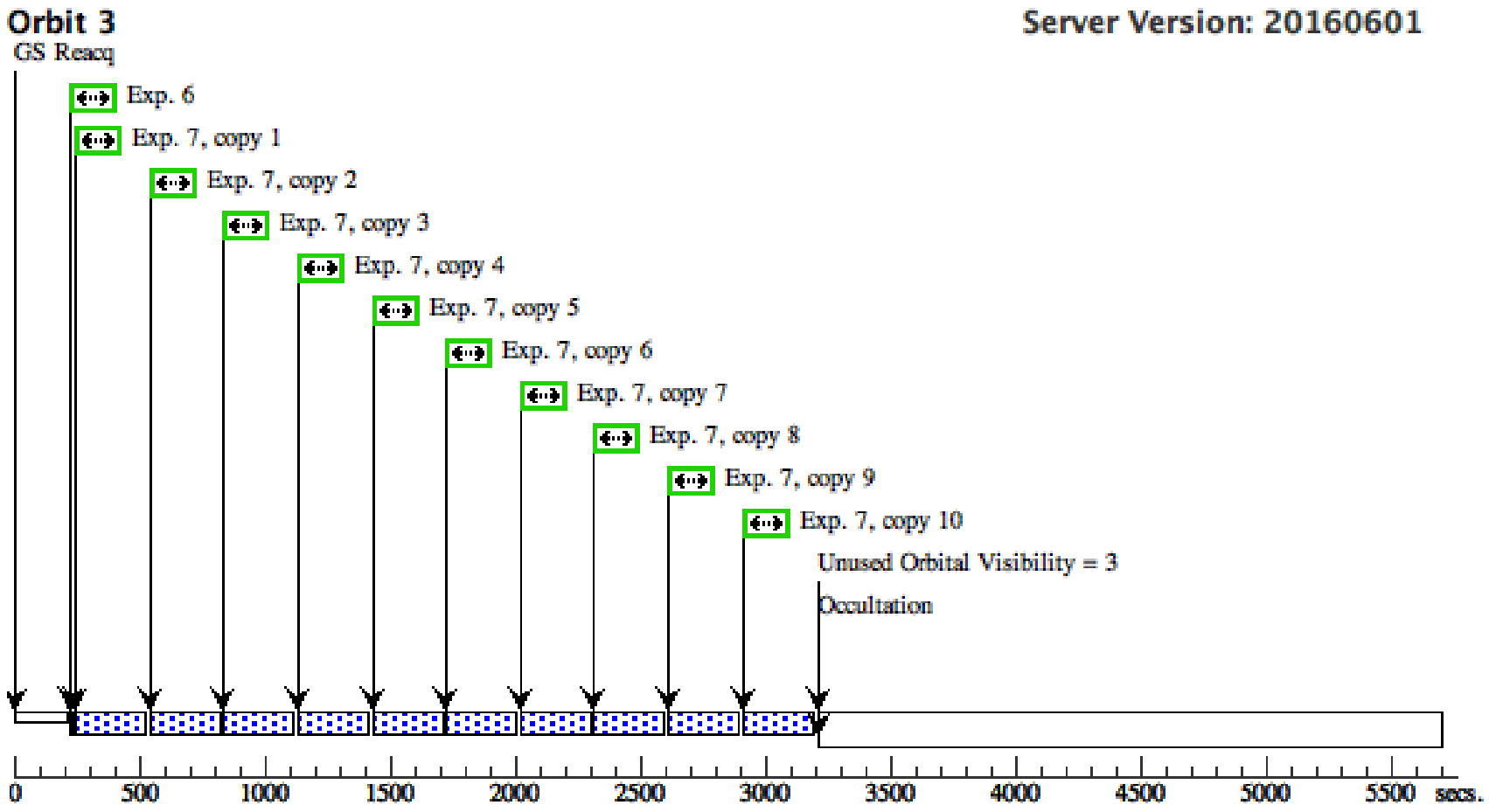
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ, phase constrained (STIS.ta.820963)	(4) WASP-43	STIS/CCD, ACQ, F28X50LP	MIRROR		PHASE 0.8103 TO 0.8160	Sequence 1-3 Non-Int in WASP-43_G430L_ECL3 (10)	0.7 Secs (0.7 Secs) *[==>]*	***[1]***
2	WASP-43 G430L Orbit 1 (STIS.sp.820976)	(4) WASP-43	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO		Sequence 1-3 Non-Int in WASP-43_G430L_ECL3 (10)	116 Secs (116 Secs) *[==>]*	***[1]***
Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.									
3	WASP-43 G430L Orbit 1 (STIS.sp.820977)	(4) WASP-43	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO		Sequence 1-3 Non-Int in WASP-43_G430L_ECL3 (10)	275 Secs X 8 (2200 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	***[1]***
4	WASP-43 G430L Orbit 2 (STIS.sp.820978)	(4) WASP-43	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO		Sequence 4-5 Non-Int in WASP-43_G430L_ECL3 (10)	1 Secs (1 Secs) *[==>]*	***[2]***
Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.									
5	WASP-43 G430L Orbit 2 (STIS.sp.820977)	(4) WASP-43	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO		Sequence 4-5 Non-Int in WASP-43_G430L_ECL3 (10)	275 Secs X 10 (2750 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]*	***[2]***
6	WASP-43 G430L Orbit 3 (STIS.sp.820978)	(4) WASP-43	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO		Sequence 6-7 Non-Int in WASP-43_G430L_ECL3 (10)	1 Secs (1 Secs) *[==>]*	***[3]***
Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.									

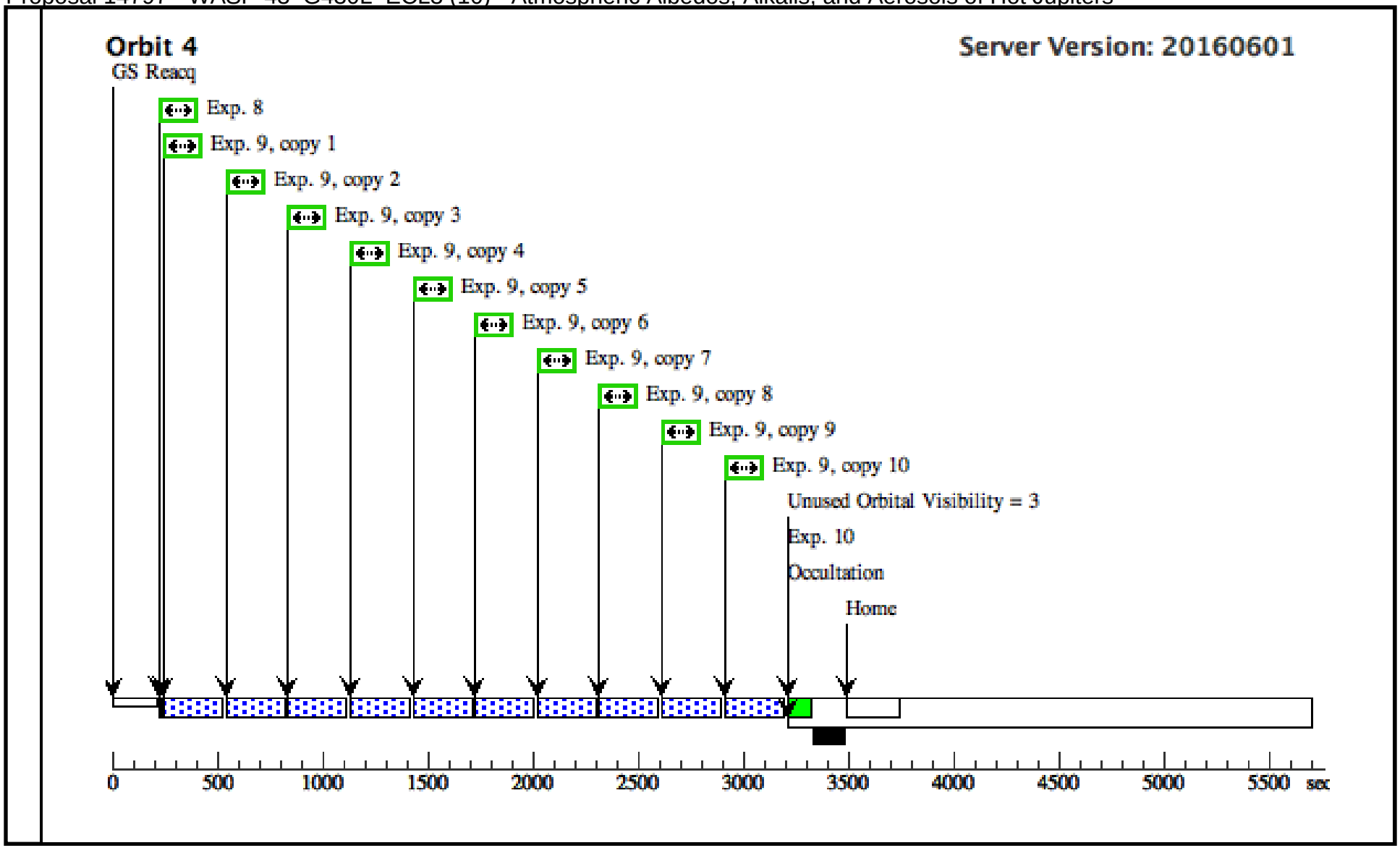
7	WASP-43 G430L Orbit 3 (STIS.sp.820977)	(4) WASP-43	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO	Sequence 6-7 Non-Int in WASP-43_G430L_ECL3 (10)	275 Secs X 10 (2750 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]*	***[3]***
8	WASP-43 G430L Orbit 4 (STIS.sp.820978)	(4) WASP-43	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO	Sequence 8-10 Non-Int in WASP-43_G430L_ECL3 (10)	1 Secs (1 Secs) *[==>]*	***[4]***
Comments: Short exposure to minimize instrument systematic of first exposure in each orbit.								
9	WASP-43 G430L Orbit 4 (STIS.sp.820977)	(4) WASP-43	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=128.0; WAVECAL=NO	Sequence 8-10 Non-Int in WASP-43_G430L_ECL3 (10)	275 Secs X 10 (2750 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]*	***[4]***
10	WAVE	WAVE	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A		Sequence 8-10 Non-Int in WASP-43_G430L_ECL3 (10)	*[==>]*	***[4]***
Comments: Explicit WAVECAL, auto-waves disabled								

Orbit Structure




Orbit 2
Server Version: 20160601
GS Reacq
Exp. 4
Exp. 5, copy 1
Exp. 5, copy 2
Exp. 5, copy 3
Exp. 5, copy 4
Exp. 5, copy 5
Exp. 5, copy 6
Exp. 5, copy 7
Exp. 5, copy 8
Exp. 5, copy 9
Exp. 5, copy 10
Unused Orbital Visibility = 3
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 3
Server Version: 20160601
GS Reacq
Exp. 6
Exp. 7, copy 1
Exp. 7, copy 2
Exp. 7, copy 3
Exp. 7, copy 4
Exp. 7, copy 5
Exp. 7, copy 6
Exp. 7, copy 7
Exp. 7, copy 8
Exp. 7, copy 9
Exp. 7, copy 10
Unused Orbital Visibility = 3
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.


Orbit 4
Server Version: 20160601
GS Reacq
Exp. 8
Exp. 9, copy 1
Exp. 9, copy 2
Exp. 9, copy 3
Exp. 9, copy 4
Exp. 9, copy 5
Exp. 9, copy 6
Exp. 9, copy 7
Exp. 9, copy 8
Exp. 9, copy 9
Exp. 9, copy 10
Unused Orbital Visibility = 3
Exp. 10
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec