16747 - FUV-Optical Spectroscopic Mapping of the PDRs in NGC7023 and The Horsehead

Cycle: 29, Proposal Category: GO

(UV Initiative)

(Availability Mode: AVAILABLE)

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	(3) HD200775 NONE	STIS/CCD	1	02-Aug-2024 09:00:32.0	yes
02	(4) SIGORI NONE	STIS/CCD	1	02-Aug-2024 09:00:34.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
03	(1) NGC7023 (3) HD200775 NONE WAVE	STIS STIS/CCD STIS/FUV-MAMA	2	02-Aug-2024 09:00:36.0	yes
04	(1) NGC7023 (3) HD200775 NONE WAVE	STIS STIS/CCD STIS/FUV-MAMA	2	02-Aug-2024 09:00:37.0	yes
05	(1) NGC7023 (3) HD200775 NONE WAVE	STIS STIS/CCD STIS/FUV-MAMA	2	02-Aug-2024 09:00:39.0	yes
06	(1) NGC7023 (3) HD200775 NONE WAVE	STIS STIS/CCD STIS/NUV-MAMA	3	02-Aug-2024 09:00:41.0	yes
29	(1) NGC7023 (3) HD200775 NONE WAVE	STIS STIS/CCD STIS/NUV-MAMA	3	02-Aug-2024 09:00:43.0	yes
07	(1) NGC7023 (3) HD200775 NONE WAVE	STIS STIS/CCD STIS/NUV-MAMA	2	02-Aug-2024 09:00:45.0	yes
08	(1) NGC7023 (3) HD200775 NONE WAVE	STIS STIS/CCD STIS/NUV-MAMA	2	02-Aug-2024 09:00:47.0	yes
09	(6) NGC7023BACKGROUND WAVE	STIS/FUV-MAMA STIS/NUV-MAMA	1	02-Aug-2024 09:00:48.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
10	(1) NGC7023 (3) HD200775 CCDFLAT WAVE	STIS/CCD	3	02-Aug-2024 09:00:49.0	yes
11	(6) NGC7023BACKGROUND CCDFLAT WAVE	STIS/CCD	1	02-Aug-2024 09:00:50.0	yes
12	(2) HORSEHEAD (5) MSJ2009L1630MIR14 NONE WAVE	STIS STIS/CCD STIS/FUV-MAMA	2	02-Aug-2024 09:00:52.0	yes
13	(2) HORSEHEAD (5) MSJ2009L1630MIR14 NONE WAVE	STIS STIS/CCD STIS/FUV-MAMA	2	02-Aug-2024 09:00:53.0	yes
23	(2) HORSEHEAD (5) MSJ2009L1630MIR14 NONE WAVE	STIS STIS/CCD STIS/FUV-MAMA	2	02-Aug-2024 09:00:54.0	yes
14	(2) HORSEHEAD (5) MSJ2009L1630MIR14 NONE WAVE	STIS STIS/CCD STIS/NUV-MAMA	3	02-Aug-2024 09:00:56.0	yes
15	(2) HORSEHEAD (5) MSJ2009L1630MIR14 NONE WAVE	STIS STIS/CCD STIS/NUV-MAMA	3	02-Aug-2024 09:00:58.0	yes
17	(2) HORSEHEAD (5) MSJ2009L1630MIR14 WAVE	STIS/CCD	2	02-Aug-2024 09:00:59.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
18	(2) HORSEHEAD (5) MSJ2009L1630MIR14 WAVE	STIS/CCD	2	02-Aug-2024 09:01:00.0	yes
19	(2) HORSEHEAD (5) MSJ2009L1630MIR14 CCDFLAT WAVE	STIS/CCD	2	02-Aug-2024 09:01:01.0	yes
25	(2) HORSEHEAD (5) MSJ2009L1630MIR14 CCDFLAT WAVE	STIS/CCD	2	02-Aug-2024 09:01:02.0	yes
31	(2) HORSEHEAD (5) MSJ2009L1630MIR14 CCDFLAT WAVE	STIS/CCD	2	02-Aug-2024 09:01:03.0	yes
26	(2) HORSEHEAD (5) MSJ2009L1630MIR14 CCDFLAT WAVE	STIS/CCD	2	02-Aug-2024 09:01:04.0	yes
32	(2) HORSEHEAD (5) MSJ2009L1630MIR14 CCDFLAT WAVE	STIS/CCD	2	02-Aug-2024 09:01:05.0	yes
27	(2) HORSEHEAD (5) MSJ2009L1630MIR14 CCDFLAT WAVE	STIS/CCD	2	02-Aug-2024 09:01:06.0	yes
22	(7) HORSEHEADBACKGROUND WAVE	STIS/FUV-MAMA STIS/NUV-MAMA	1	02-Aug-2024 09:01:06.0	yes
24	(7) HORSEHEADBACKGROUND WAVE	STIS/CCD	1	02-Aug-2024 09:01:07.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
28	(7) HORSEHEADBACKGROUND CCDFLAT WAVE	STIS/CCD	1	02-Aug-2024 09:01:07.0	yes

54 Total Orbits Used

ABSTRACT

Photodissociation regions (PDRs) are predominantly neutral regions of the ISM in which the heating and chemistry are mainly regulated by far ultraviolet photons. They are extended regions at the interface between bright stars and molecular clouds, and contain dense structures and clumps immersed in a more diffuse medium which are subjected to photo-evaporation, which brings fresh matter into the diffuse hotter zone. The interaction of stellar radiation with in situ material includes: 1) the disruption of grain mantles/clusters and coagulated grains formed in shielded dense regions, 2) ionization and dissociation of the gas and 3) gas and dust heating. Studies of nearby PDRs have shown that these processes are strongly stratified and active on angular scales that can be as small as ~1" (0.002 pc/400 au at a distance of 400 pc), indicating that the physical conditions vary over orders of magnitude on small spatial-scales in PDRs. Nearby PDRs are therefore unique targets to study rapid variations in the dust and gas components as a function of the excitation and physical conditions. In light of the importance of PDRs in understanding ISM physics and chemistry, we propose to use STIS on HST to study two emblamematic PDRs, the Horsehead and NGC7023, at wavelengths covering the dominant energy input into the PDR, the optical and UV. These data will provide data that complements an accepted JWST GTO program combining imaging and spectroscopy of both PDRs. We will observe regions matched to the apertures defined in the JWST program from ~100-1000 nm using four STIS gratings, two paired with the STIS MAMA detectors and two with the STIS CCD detectors, all four in low resolution.

OBSERVING DESCRIPTION

08/07/2023 - Added Visit 29 to replace failed visit 06 under HOPR 92588.

10/13/2022 - Modified Horsehead CCD visits to minimize read noise penalty per review: Reduced total integration count, split out Optical backgrounds and restructured observations to accomodate longer integrations.

10/12/2002.a - updated all UV visits (i.e. including the G230L) to use MSOFF ZERO/RESTORE to maintain alignment of G140 and G230 internally.

10/12/2022 - Updated Horsehead visits: Split out UV backgrounds. Added POS TARG of 3.5" in Y to G140L observations to accound to spatial offset due to repeller wire avoidance. Added MSOFF=zero to all G140L visits to disable monthly 'random' updates to offsets to assure that G140L spatial position matches the G230L (and optical). The later requires "Allow Restricted" and "Supported" to be selected. Modified the NGC7023 G140L visits in the same fasion. Approval for MSOFF changes given by Svea Hernandez.
All remaining warnings are due to mapping the PDR front using offsets from a single target position - "POS TARG OUTSIDE OF APERTURE". Expected. "Target acquisition should be performed..." warning is on background exposures where exact pointing is not necessary so no target acquisition is required.

08/10/2022 - Updated position of NGC7023 backgrounds to avoid any bright stars for all possible orients. Updated background integration for NGC7023 to fill the available time in orbit.

08/02/2022 - revision to separate out background observations for NGC 7023 from on-source orbits. Necessary to allow tools to properly ingest/schedule the program.

Observations are in the STIS low dispersion modes G140L, G230L, G230LB, G430L, and G750L with the 52x2 slit.
Exposure times on exciting stars and target acqs were computed using synthetic stellar spectra and the ETC. On the nebular sources, using a synthetic Orion SED scaled to the relevnat surface brightness as estimated in Phase I proposal. S/N on nebular sources reported as 'averages' in ETC; line SN will be higher, continuum will be binned spectrally to reach a S/N of 10.

Differences from Phase I proposal:
1) On exciting star visits (HD200775 and Sigma Orionis), request CCD fringe flats with 4 repetitions to attempt to match high SN on exciting start targets; exciting star may be included in calspec database.
2) Added background exposures for both nebular sources. Backgrounds were NOT requested in Phase I proposal. The inclusion of backgrounds is driven by data obtained in GO 12556 (cycle 19) and discussion with STIS experts during the data analysisin that program. Briefly, variable detector backgrounds, especially in the UV, resulted in poor background correction and a reduction in the science return of the data. Additionally, since the nebular observations will largely fill the slit in both spatial dimensions, dedicated backgrounds in all gratings will facilitate an estimation of the contribution of unassociated astronomical signal present in the target data.

EXPLANATION OF WARNINGS:

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1) Sigma Ori + HD200775: "MISSING FRINGE FLAT CALIBRATION". Fringe flats are specified manually to allow high SN flats (4 repeats).

2) All visists with "STIS SCIENCE TOO FAR FROM WAVECAL" have wave cals in occulations and at least 1 per orbit which should be sufficient.

3) Some visits (Those with POS TARG +/-1.5 in X) have "POS TARG OUTSIDE OF APERTURE" warnings due to the fact that we are using POSTARG to map a region that overlaps with the JWST IFU maps on these targets rather than absolute pointings. So the 'target' is not the actual target in those cases so the warning is not relevant.

Depth at each POS TARG is the same on each object/grating with the excpetion of HH G750L where opitmal orbit usage required slightly less depth at the 1.5 and -1.5 POS TARG positions. Since, to reach the required depth, all poitings perpendicular to the PDR front will be combined in a representative SED of the entire map, slightly different coverages at the different POS TARG positions should be of negligible impact.

Notes on individual targets/vists:

HD200775

High SN spectra of the exciting star fpr NGC7023 used to seperate out scattered light contribution at the PDR. Gain=4 selected to avoid A/D saturation, exposure times selected to achieve 1/2 full well per exposure. HD200775 is also used as acquisition target for NGC7023 nebular observations as it is close enough to the front.

Request 4 fringe flat repititions to match high target S/N and match approach used in CALSPEC targets.

sigma Orionis

High SN spectra of the exciting star for the Horsehead used to seperate out scattered light contribution at the PDR. Gain=4 selected to avoid A/D saturation, exposure times selected to avoid A/D saturation. Not used as acquisition target for Horsehead PDR given separation.

Request 4 fringe flat repititions to match high target S/N and match approach used in CALSPEC targets.

MSJ2009-L1630MIR14

2MASS source very near Horsehead PDR, used for target acquisition on the PDR front for the Horsehead. No specrtral type for L1630MIR-14. Assume M2V, use J=9.703 (2mass) to normalize. Assume E(B-V)=0.1 Go for longer than you might expect! 10 seconds predicts SN of 50 with ND3, go for 25 seconds. (~80 SN)

NGC7023

Observations are constructed using XPOSTARG with 4 values (-1.5, -0.5, 0.5, 1.5). With the 2" slit, this should provide a mapping roughly 5" wide perpendicular to the PDR front. Slit orientation is restricted to a PA of 188 degrees (OR 8 degrees) to maintain perpendicular alignment to the PDR along the line of sight to the exciting star and roughly match the IFU maps obtained with JWST. With the G104L, the PA at scheduling will result in somewhat different penetrations spatially in to the molecular cloud with no appreciable impact on science return. For SN reasons, in the continuum, the map will be summed in the 5" direction, parallel to the PDR front.

All MAMA visits were defined to keep individual exposures below 300 seconds. For the CCDS, <~450 seconds. Iterations of each pattern were set to reach the final desired exposure time given the constraints on the indivdual exposure lengths. Total exposure times were matched to those requested in Phase 1 proposal, with slight changes to optimize orbital usage/filling and best estimates of SN in each grating .

G140L - 2 separate visits (to keep each visit at or below 3 orbits). For each visit, exposures set to 280 seconds, 11 iterations of the 4 pattern pointings for a total 6160 seconds per visit and 12320 seconds total on the PDR. 8 orbits total

G230L - 3 separate visits (to keep each visit at or below 3 orbits). For each visit, exposures set to 285 seconds, 14 iterations of the 4 pattern pointings of 15568 seconds total on the PDR. 6 orbits total

G430L - 1 visit, 2 orbits. 760 seconds with CR split=2 with 4 pattern pointings for a total of 3040 seconds on source

G750L - 1 visit, 2 orbits. 756 seconds with CR split=2 with 4 pattern pointings for a total of 3024 seconds on source

Horsehead

Observations are constructed using XPOSTARG with 4 values (-1.5, -0.5, 0.5, 1.5). With the 2" slit, this should provide a mapping roughly 5" wide perpendicular to the PDR front. Slit orientation is restricted to a PA of 301 degrees (OR 121 degrees) to maintain perpendicular alignment to the PDR along the line of sight to the exciting star and roughly match the IFU maps obtained with JWST. With the G104L, the PA at scheduling will result in somewhat different penetrations spatially in to the molecular cloud with no appreciable impact on science return. For SN reasons, in the continuum, the map will be summed in the 5" direction, parallel to the PDR front.

All MAMA visits were defined to keep individual exposures below 310 seconds - where optimal orbit usage was served by slighly longer exposures, individual exposures were allowed to exceed 300 seconds by up to 10 seconds. For the CCDS, <~450 seconds. Iterations of each pattern were set to reach the final desired exposure time given the constraints on the indivdual exposure lengths and opitmal use of orbital visibility. Total exposure times were matched to those requested in Phase 1 proposal, with slight changes to optimize orbital usage/filling and best estimates of SN in each grating.

G140L - 2 separate visits (to keep each visit at or below 3 orbits). For each visit, exposures set to 310 seconds, 7 iterations of at 0.5 and -0.5, 6 at 1.5 and -1.5 pattern pointings for 8060 seconds total on the PDR. 5 orbits total

G230L - 3 separate visits (to keep each visit at or below 3 orbits). For each visit, exposures set to 306 seconds, 10 iterations of the 4 pattern pointings for a total of 12240 seconds total on the PDR. 8 orbits total

G430L - 2 visits. Individual exposure length was set to 313 seconds/exposure and CR split set to optimize orbit filling while maintaining constant exposure length and equivalent depth on all 4 pattern pointings, total of 7512 seconds on source, 5 orbits total.

G750L - 3 visits. Individual exposure length was set to 257 seconds/exposure and CR split set to optimize orbit filling while maintaining constant exposure length; depth is approximately the same at all 4 pointings, though 257 seconds shorter and 514 seconds shorted at 1.5 and -1.5 positions. Total on source is 14649 seconds. 9 orbits total.

Backgrounds

Both targets have dedicated backgrounds. The backgrounds are matched to on source exposures (slit + single exposure duration) to track instrumental backgrounds/effects.

Visit

Proposal 16747, HD200775 (01), completed Fri Aug 02 13:01:08 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: (none)

Comments: Re: Warning on missing fring flat - The fringe flat is manually specified to allow higher SN than default 2 exposure sequence.

Diagnostics

(HD200775 (01)) Warning (Orbit Planner): MISSING FRINGE FLAT CALIBRATION

(HD200775 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

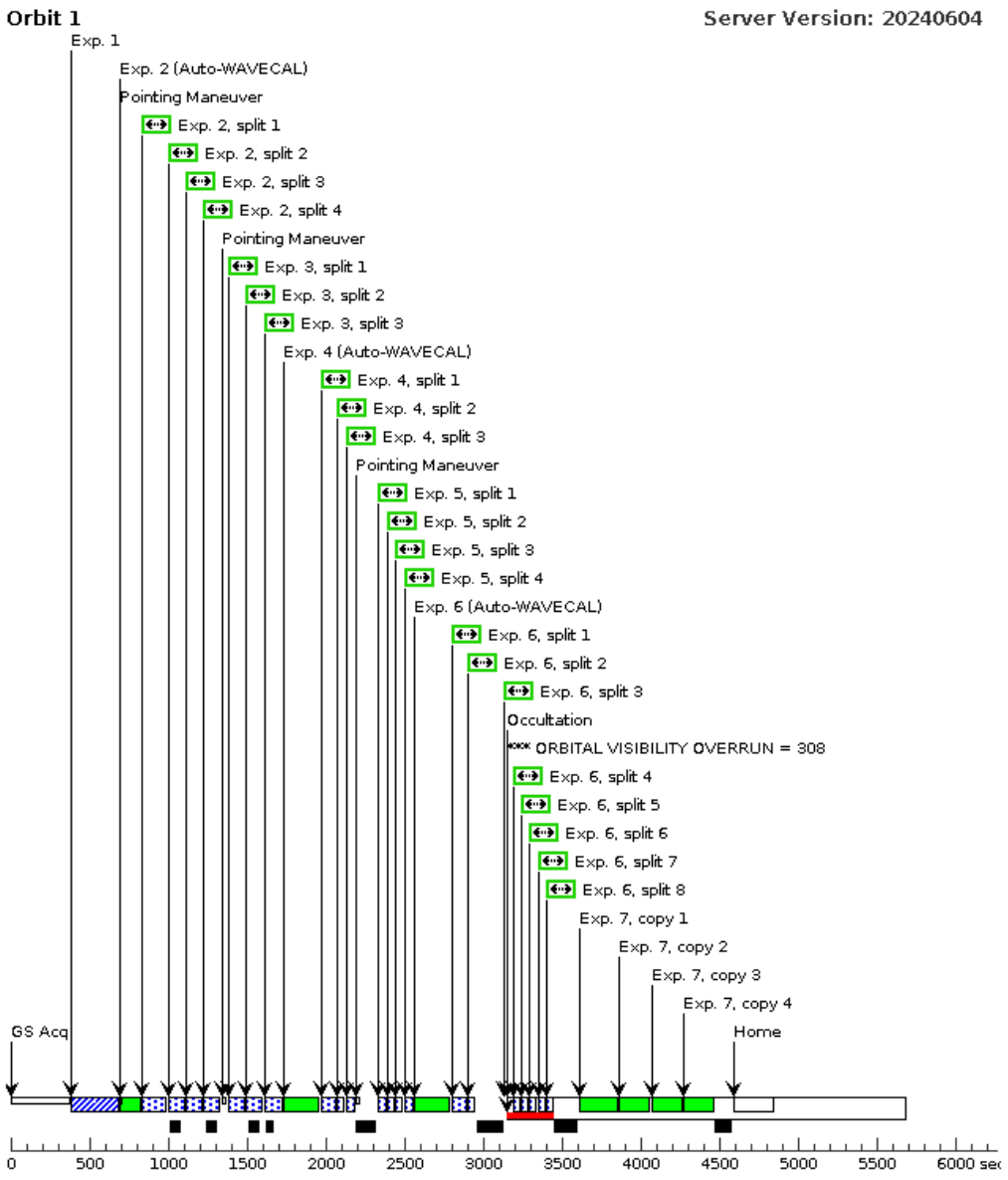
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	HD200775	RA: 21 01 36.9185 (315.4038271d)	Proper Motion RA: 8.336 mas/yr	V=7.36+/-0.011	Reference Frame: ICRS
		Dec: +68 09 47.77 (68.16327d)	Proper Motion Dec: -1.566 mas/yr		
		Equinox: J2000	Epoch of Position: 2000		

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Will be used for Target aquisition on NGC7023.
Category=EXT-STAR
Description=[B0-B2 V-IV]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(STIS.ta.1534687)	(3) HD200775	STIS/CCD, ACQ, F25ND3	MIRROR				1 Secs (1 Secs) *[==>]*	 ***[1]***
Comments: 25 seconds gives SN of ~55									
2	(STIS.sp.1534690)	(3) HD200775	STIS/CCD, ACCUM, 52X2	G230LB 2375 A	CR-SPLIT=4; GAIN=4			280 Secs (280 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	 ***[1]***
Comments: S/N of ~200 in each of the 70 second CR-Splits, exp time 1/2 well.									
3		(3) HD200775	STIS/CCD, ACCUM, 52X2E1	G230LB 2375 A	CR-SPLIT=3; GAIN=4			210 Secs (210 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	 ***[1]***
4	(STIS.sp.1534691)	(3) HD200775	STIS/CCD, ACCUM, 52X2E1	G430L 4300 A	GAIN=4; CR-SPLIT=3			39 Secs (39 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	 ***[1]***
Comments: S/N of ~500 per 13 second exposure in CR-SPLIT 3; staturation at 25 seconds, 1/2 well									
5		(3) HD200775	STIS/CCD, ACCUM, 52X2	G430L 4300 A	GAIN=4; CR-SPLIT=4			52 Secs (52 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	 ***[1]***
6	(STIS.sp.1534692)	(3) HD200775	STIS/CCD, ACCUM, 52X2	G750L 7751 A	GAIN=4; CR-SPLIT=8			72 Secs (72 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	 ***[1]***
Comments: S/N ~300 in 9 second exposure, CRSPLIT 8, ~1/2 well per exposure.									
7	STIS G750L fringe	NONE	STIS/CCD, ACCUM, 0.3X0.09	G750L 7751 A	LAMP=TUNGSTEN; GAIN=4			120 Secs X 4 (480 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]*	 ***[1]***

Orbit Structure



Visit

Proposal 16747, sigma Orionis (02), completed Fri Aug 02 13:01:08 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: (none)

Comments: Re: Warning on missing fring flat - The fringe flat is manually specified to allow higher SN than default 2 exposure sequence.

Diagnostics

(sigma Orionis (02)) Warning (Orbit Planner): MISSING FRINGE FLAT CALIBRATION

(sigma Orionis (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

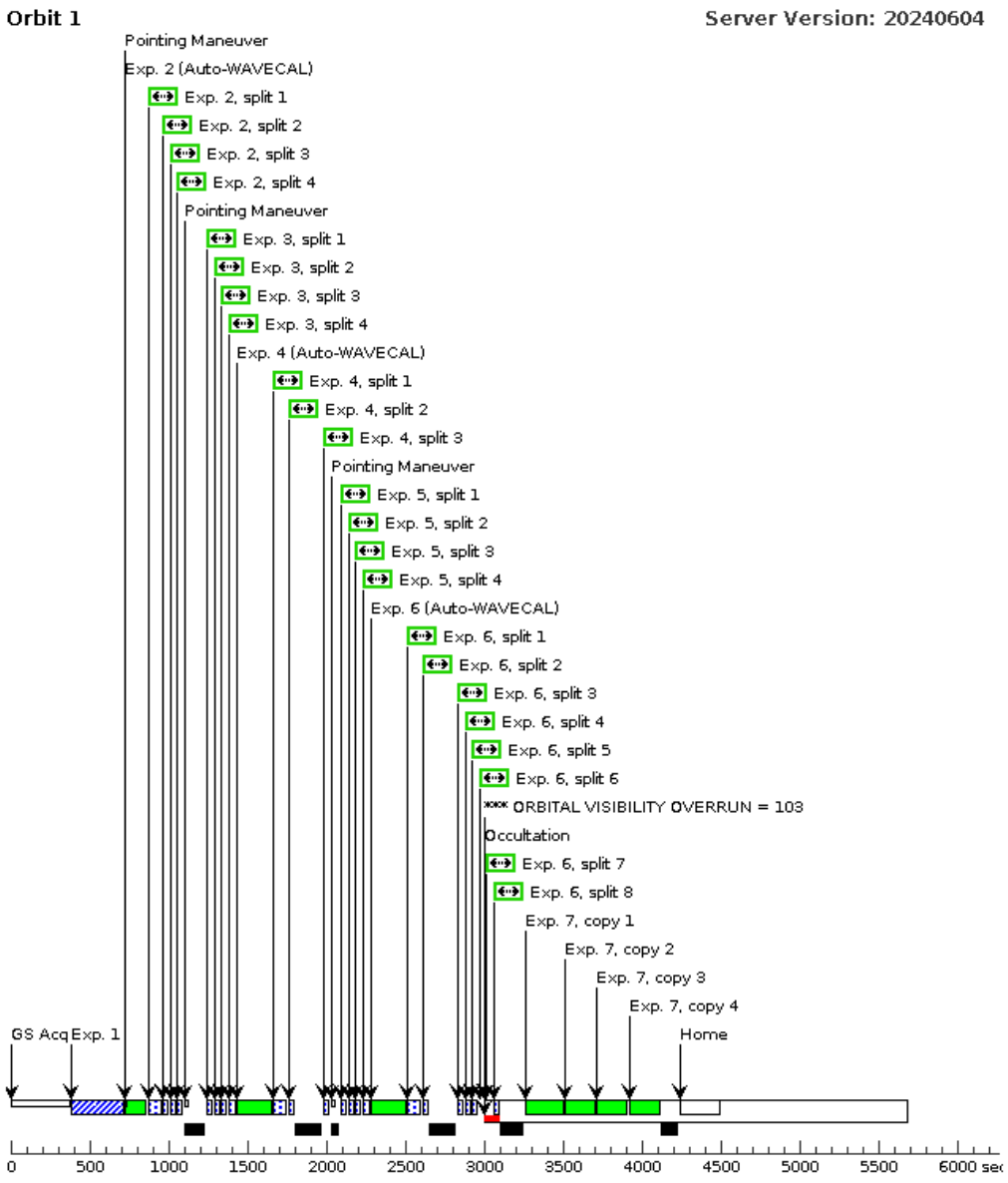
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	SIGORI	RA: 05 38 44.7665 (84.6865271d) Dec: -02 36 0.28 (-2.60008d) Equinox: J2000		V=3.79	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=EXT-STAR
Description=[B0-B2 V-IV]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(STIS.ta.1534693)	(4) SIGORI	STIS/CCD, ACQ, F25ND5	MIRROR				10 Secs (10 Secs) *[==>]*	***[1]***
Comments: SN of 50 in ~1 second, 72 seconds to saturation. 10 seconds gives SN of 180.									
2	(STIS.sp.1534695)	(4) SIGORI	STIS/CCD, ACCUM, 52X2	G230LB 2375 A	CR-SPLIT=4; GAIN=4			2.4 Secs (2.4 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	***[1]***
Comments: S/N ~390 in 0.6 second exposure; stauration at ~1.25sec, expose to ~1/2 well.									
3		(4) SIGORI	STIS/CCD, ACCUM, 52X2E1	G230LB 2375 A	CR-SPLIT=4; GAIN=4			2.4 Secs (2.4 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	***[1]***
4	(STIS.sp.1534696)	(4) SIGORI	STIS/CCD, ACCUM, 52X2E1	G430L 4300 A	CR-SPLIT=3; GAIN=4			0.9 Secs (0.9 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[1]***
Comments: S/N ~560/0.3 second exposure. Saturation at ~0.55 seconds, expose to ~1/2 well									
5		(4) SIGORI	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=4; GAIN=4			1.2 Secs (1.2 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	***[1]***
6		(4) SIGORI	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=8; GAIN=4			2.4 Secs (2.4 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
Comments: S/N ~280 in 0.3 second exposure. Saturation at 0.67 seconds, expose to ~<1/2 well									
7	STIS G750L fringe	NONE	STIS/CCD, ACCUM, 0.3X0.09	G750L 7751 A	LAMP=TUNGSTEN; GAIN=4			120 Secs X 4 (480 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]*	***[1]***

Orbit Structure



Visit

Proposal 16747, N7023, G140L, Part 1 (03), implementation Fri Aug 02 13:01:08 GMT 2024

Diagnostic Status: No Diagnostics

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

Special Requirements: ORIENT 179D TO 188 D; ORIENT 8D TO 8 D

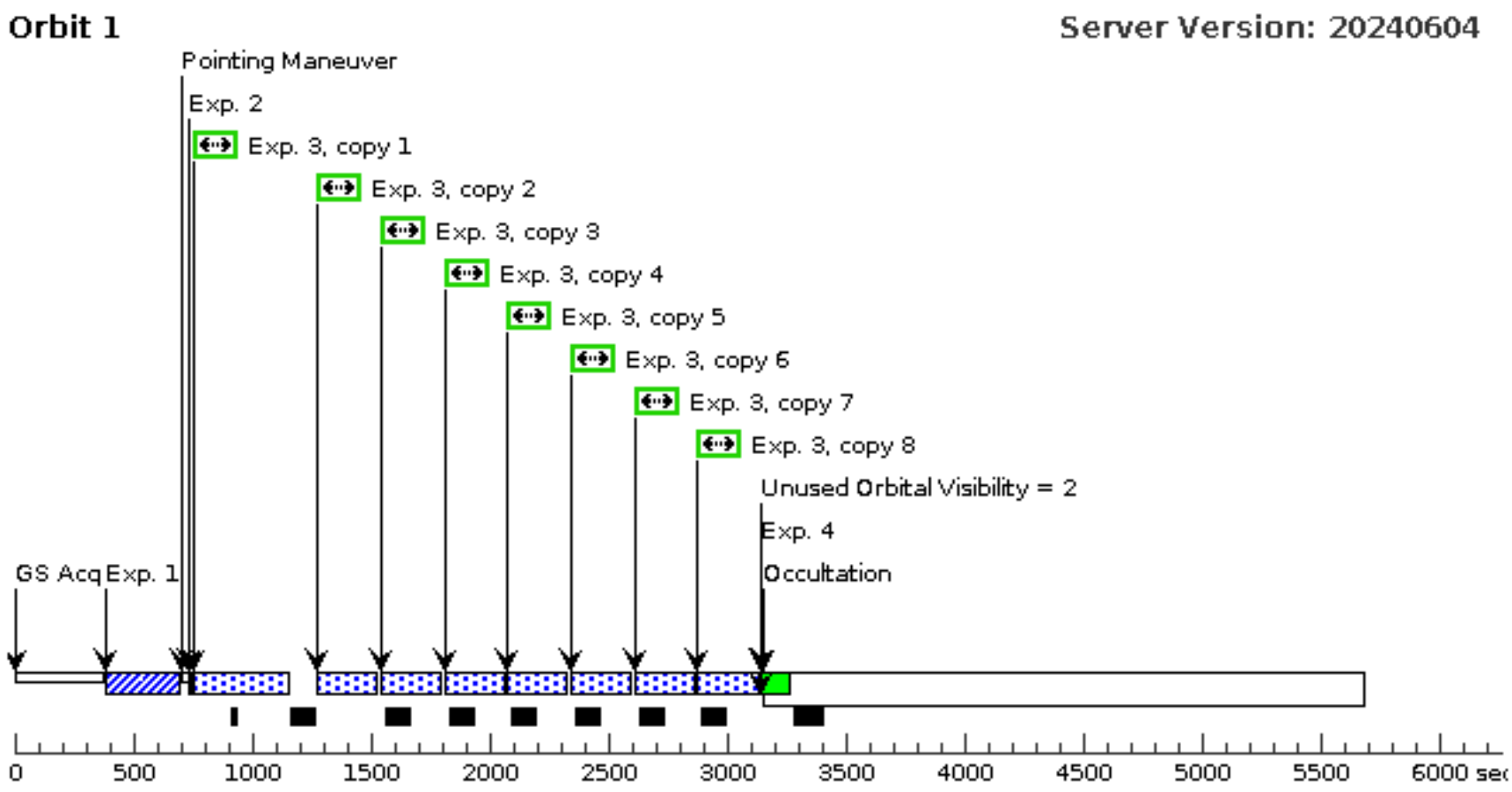
Fixed Targets

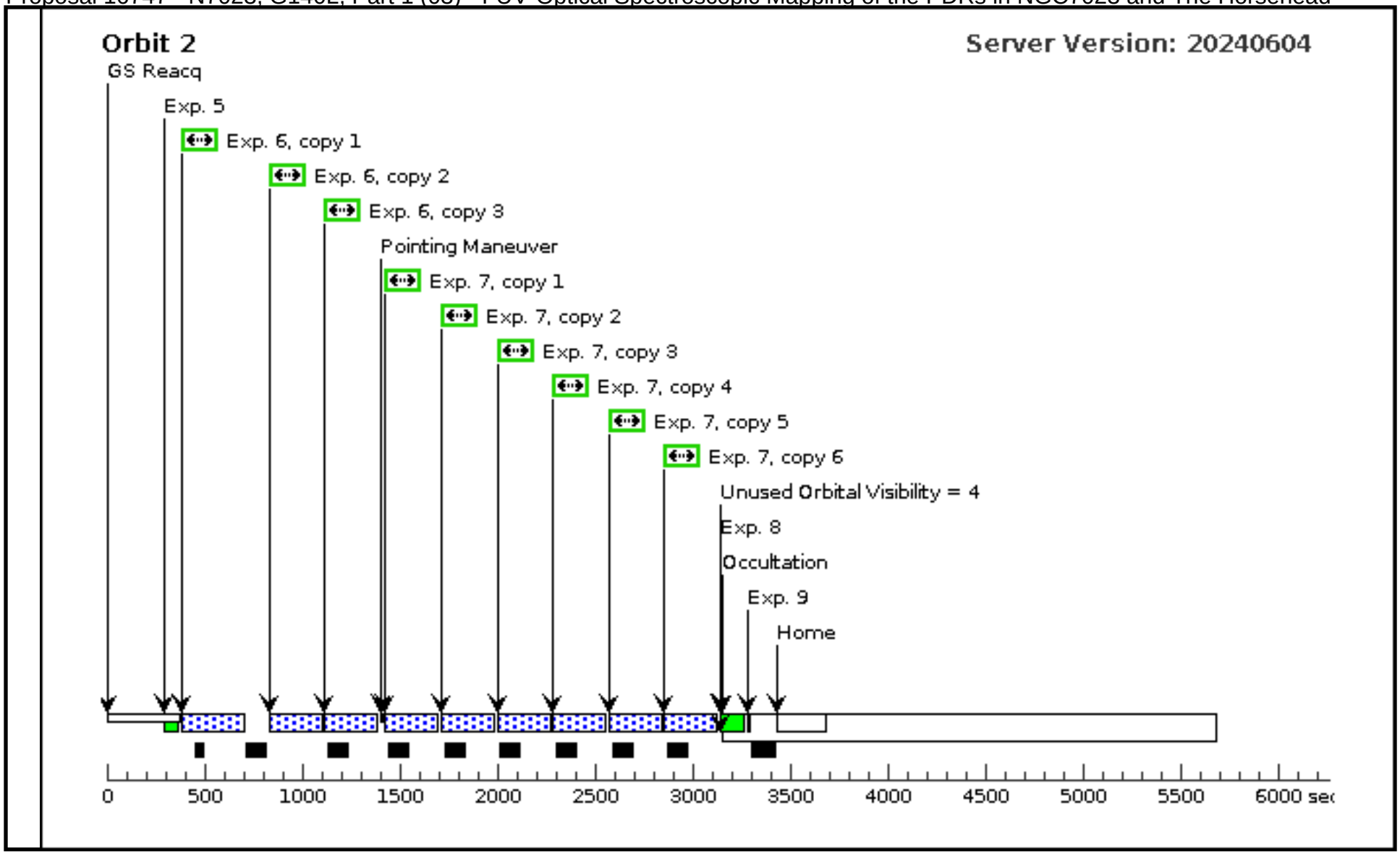
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	NGC7023	RA: 21 01 31.8800 (315.3828333d) Dec: +68 10 24.50 (68.17347d) Equinox: J2000		V=20+/-20	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. *Category=ISM* *Description=[HII REGION, IONIZATION FRONT, MOLECULAR CLOUD, PDR]* *Extended=YES*					
(3)	HD200775	RA: 21 01 36.9185 (315.4038271d) Dec: +68 09 47.77 (68.16327d) Equinox: J2000	Proper Motion RA: 8.336 mas/yr Proper Motion Dec: -1.566 mas/yr Epoch of Position: 2000	V=7.36+/-0.011	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. *Will be used for Target aquisition on NGC7023.* *Category=EXT-STAR* *Description=[B0-B2 V-IV]* *Extended=NO*					

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.1535078)	(3) HD200775	STIS/CCD, ACQ, F25ND3	MIRROR				5 Secs (5 Secs) *[==>]*	***[1]***
Comments: SN 350									
2	MSOFF ZERO	NONE	STIS, MSMOFF		SETOFFSET=ZERO; GRATING1=ALL			*[==>]*	***[1]***
3	N7023, 8 repeats, 0.5 offset (STIS.sp.1535952)	(1) NGC7023	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A	WAVECAL=NO	POS TARG 0.5,3.5		280 Secs X 8 (1960 Secs) *[==>245.0 Secs (Copy 1)]* *[==>245.0 Secs (Copy 2)]* *[==>245.0 Secs (Copy 3)]* *[==>245.0 Secs (Copy 4)]* *[==>245.0 Secs (Copy 5)]* *[==>245.0 Secs (Copy 6)]* *[==>245.0 Secs (Copy 7)]* *[==>245.0 Secs (Copy 8)]*	***[1]***
Comments: WIth total exposure time of 12320 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
4	Manual Wavecal	WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				*[==>]*	***[1]***
5	Manual Wavecal	WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				*[==>]*	***[2]***
6	N7023, 3 repeats, 0.5 offset (STIS.sp.1535952)	(1) NGC7023	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A	WAVECAL=NO	POS TARG 0.5,3.5		280 Secs X 3 (792 Secs) *[==>264.0 Secs (Copy 1)]* *[==>264.0 Secs (Copy 2)]* *[==>264.0 Secs (Copy 3)]*	***[2]***
Comments: WIth total exposure time of 12320 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
7	N7023, 6 repeats, -0.5 offset (STIS.sp.1535952)	(1) NGC7023	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A	WAVECAL=NO	POS TARG -0.5,3.5		280 Secs X 6 (1584 Secs) *[==>264.0 Secs (Copy 1)]* *[==>264.0 Secs (Copy 2)]* *[==>264.0 Secs (Copy 3)]* *[==>264.0 Secs (Copy 4)]* *[==>264.0 Secs (Copy 5)]* *[==>264.0 Secs (Copy 6)]*	***[2]***
Comments: WIth total exposure time of 12320 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
8	Manual Wavecal	WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				*[==>]*	***[2]***
9	MSOFF Restore	NONE	STIS, MSMOFF		GRATING1=ALL; SETOFFSET=RESTORE			*[==>]*	***[2]***

Orbit Structure




Orbit 2
Server Version: 20240604
GS Reacq
Exp. 5
Exp. 6, copy 1
Exp. 6, copy 2
Exp. 6, copy 3
Pointing Maneuver
Exp. 7, copy 1
Exp. 7, copy 2
Exp. 7, copy 3
Exp. 7, copy 4
Exp. 7, copy 5
Exp. 7, copy 6
Unused Orbital Visibility = 4
Exp. 8
Occultation
Exp. 9
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 16747, N7023, G140L, Part 2 (04), completed Fri Aug 02 13:01:08 GMT 2024

Diagnostic Status: Warning

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

Special Requirements: ORIENT 188D TO 188 D; ORIENT 8D TO 8 D

Diagnostics

(N7023, G140L, Part 2 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(N7023, G140L, Part 2 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(N7023, G140L, Part 2 (04)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(N7023, G140L, Part 2 (04)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(N7023, G140L, Part 2 (04)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
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(N7023, G140L, Part 2 (04)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(N7023, G140L, Part 2 (04)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(N7023, G140L, Part 2 (04)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(N7023, G140L, Part 2 (04)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(N7023, G140L, Part 2 (04)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(N7023, G140L, Part 2 (04)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(N7023, G140L, Part 2 (04)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(N7023, G140L, Part 2 (04)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	NGC7023	RA: 21 01 31.8800 (315.3828333d)		V=20+/-20	Reference Frame: ICRS
		Dec: +68 10 24.50 (68.17347d)			
		Equinox: J2000			

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=ISM
Description=[HII REGION, IONIZATION FRONT, MOLECULAR CLOUD, PDR]
Extended=YES

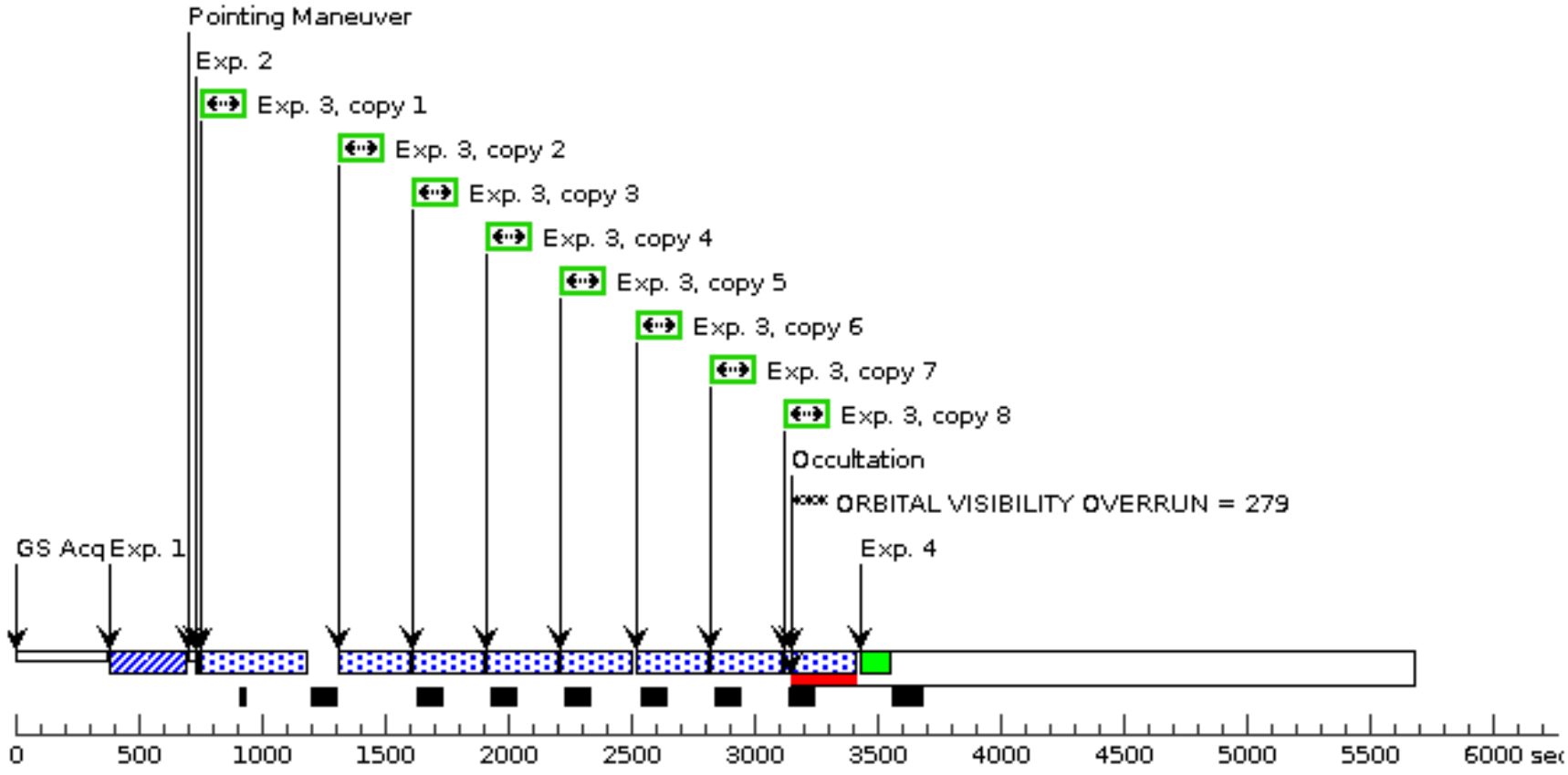
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	HD200775	RA: 21 01 36.9185 (315.4038271d)	Proper Motion RA: 8.336 mas/yr	V=7.36+/-0.011	Reference Frame: ICRS
		Dec: +68 09 47.77 (68.16327d)	Proper Motion Dec: -1.566 mas/yr		
		Equinox: J2000	Epoch of Position: 2000		

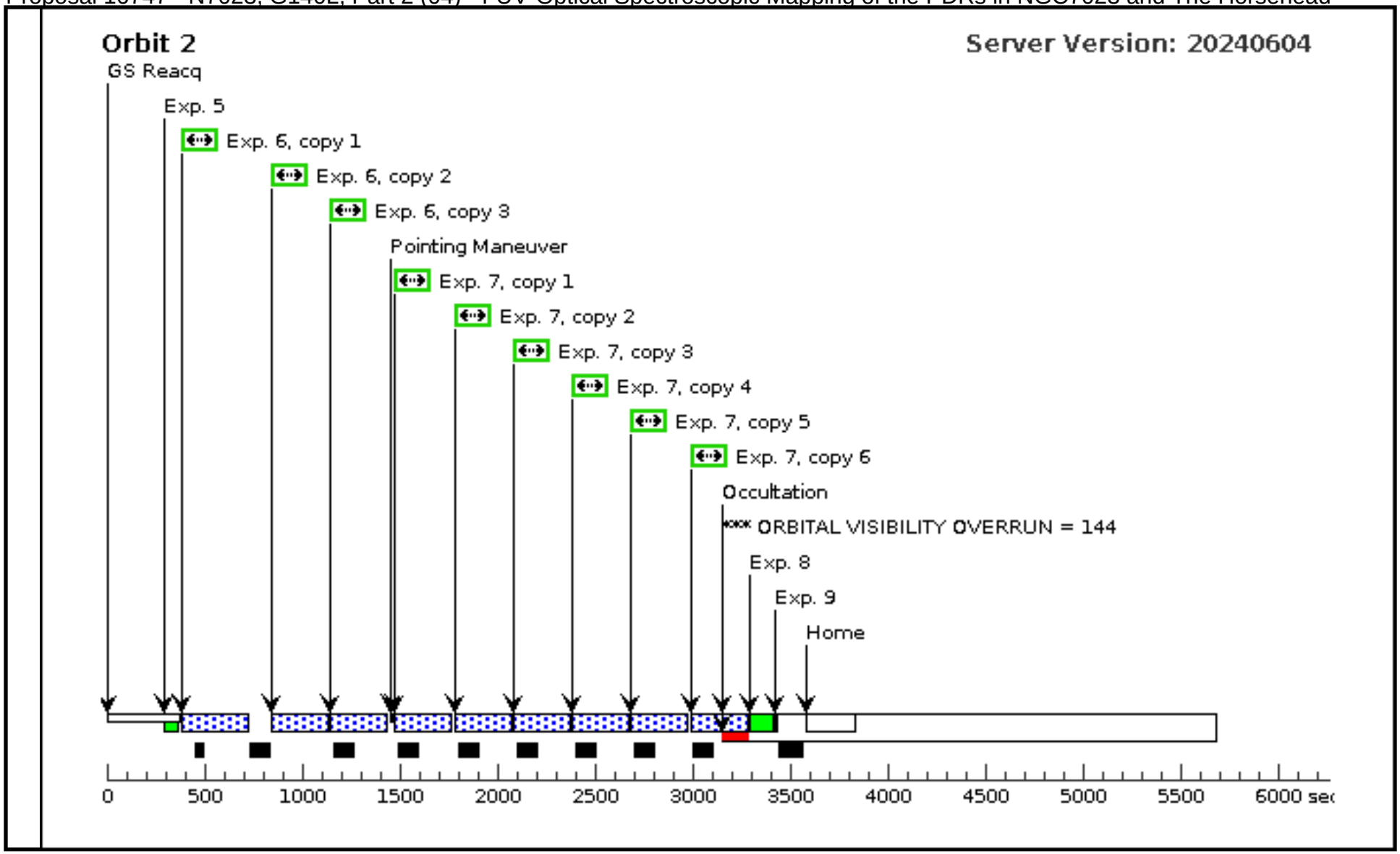
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Will be used for Target aquisition on NGC7023.
Category=EXT-STAR
Description=[B0-B2 V-IV]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.1535078)	(3) HD200775	STIS/CCD, ACQ, F25ND3	MIRROR				5 Secs (5 Secs) *[==>]*	***[1]***
Comments: SN 350									
2	MSOFF ZERO	NONE	STIS, MSMOFF		SETOFFSET=ZERO; GRATING1=ALL			*[==>]*	***[1]***
3	N7023, 8 repeats, 1.5 offset (STIS.sp.1535952)	(1) NGC7023	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A	WAVECAL=NO	POS TARG 1.5,3.5		280 Secs X 8 (2240 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	***[1]***
Comments: WIth total exposure time of 12320 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
4	Manual Wavecal	WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				*[==>]*	***[1]***
5	Manual Wavecal	WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				*[==>]*	***[2]***
6	N7023, 3 repeats, 1.5 offset (STIS.sp.1535952)	(1) NGC7023	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A	WAVECAL=NO	POS TARG 1.5,3.5		280 Secs X 3 (840 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]*	***[2]***
Comments: WIth total exposure time of 12320 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
7	N7023, 6 repeats, -1.5 offset (STIS.sp.1535952)	(1) NGC7023	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A	WAVECAL=NO	POS TARG -1.5,3.5		280 Secs X 6 (1680 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]*	***[2]***
Comments: WIth total exposure time of 12320 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
8	Manual Wavecal	WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				*[==>]*	***[2]***
9	MSOFF Restore	NONE	STIS, MSMOFF		GRATING1=ALL; SETOFFSET=RESTORE			*[==>]*	***[2]***

Orbit Structure




Orbit 2
Server Version: 20240604
GS Reacq
Exp. 5
Exp. 6, copy 1
Exp. 6, copy 2
Exp. 6, copy 3
Pointing Maneuver
Exp. 7, copy 1
Exp. 7, copy 2
Exp. 7, copy 3
Exp. 7, copy 4
Exp. 7, copy 5
Exp. 7, copy 6
Occultation
*** ORBITAL VISIBILITY OVERRUN = 144
Exp. 8
Exp. 9
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 16747, N7023, G140L, Part 3 (05), completed Fri Aug 02 13:01:08 GMT 2024

Diagnostic Status: Warning

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

Special Requirements: ORIENT 188D TO 188 D; ORIENT 8D TO 8 D

Diagnostics

(N7023, G140L, Part 3 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(N7023, G140L, Part 3 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(N7023, G140L, Part 3 (05)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(N7023, G140L, Part 3 (05)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(N7023, G140L, Part 3 (05)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(N7023, G140L, Part 3 (05)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(N7023, G140L, Part 3 (05)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

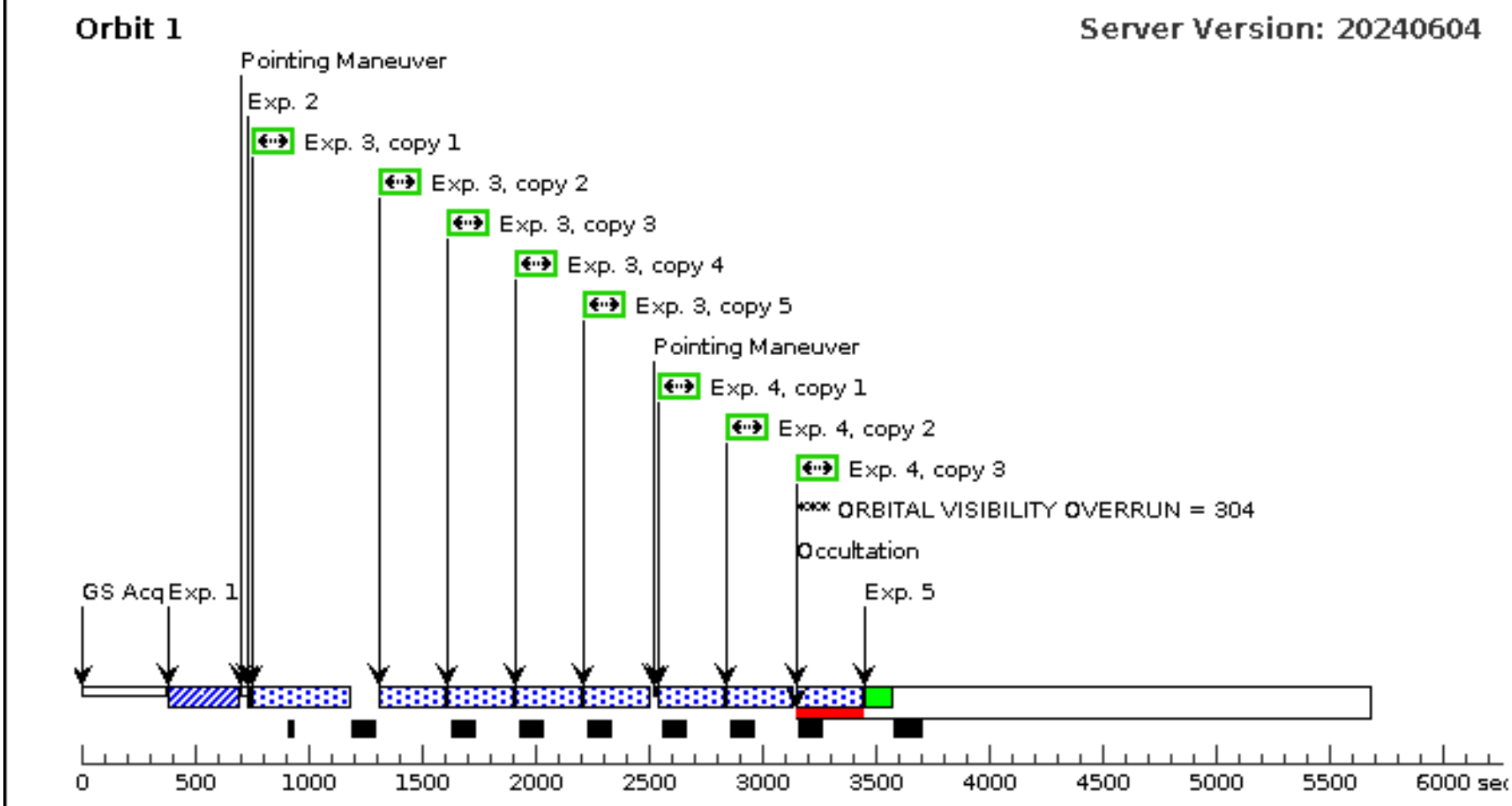
Fixed Targets

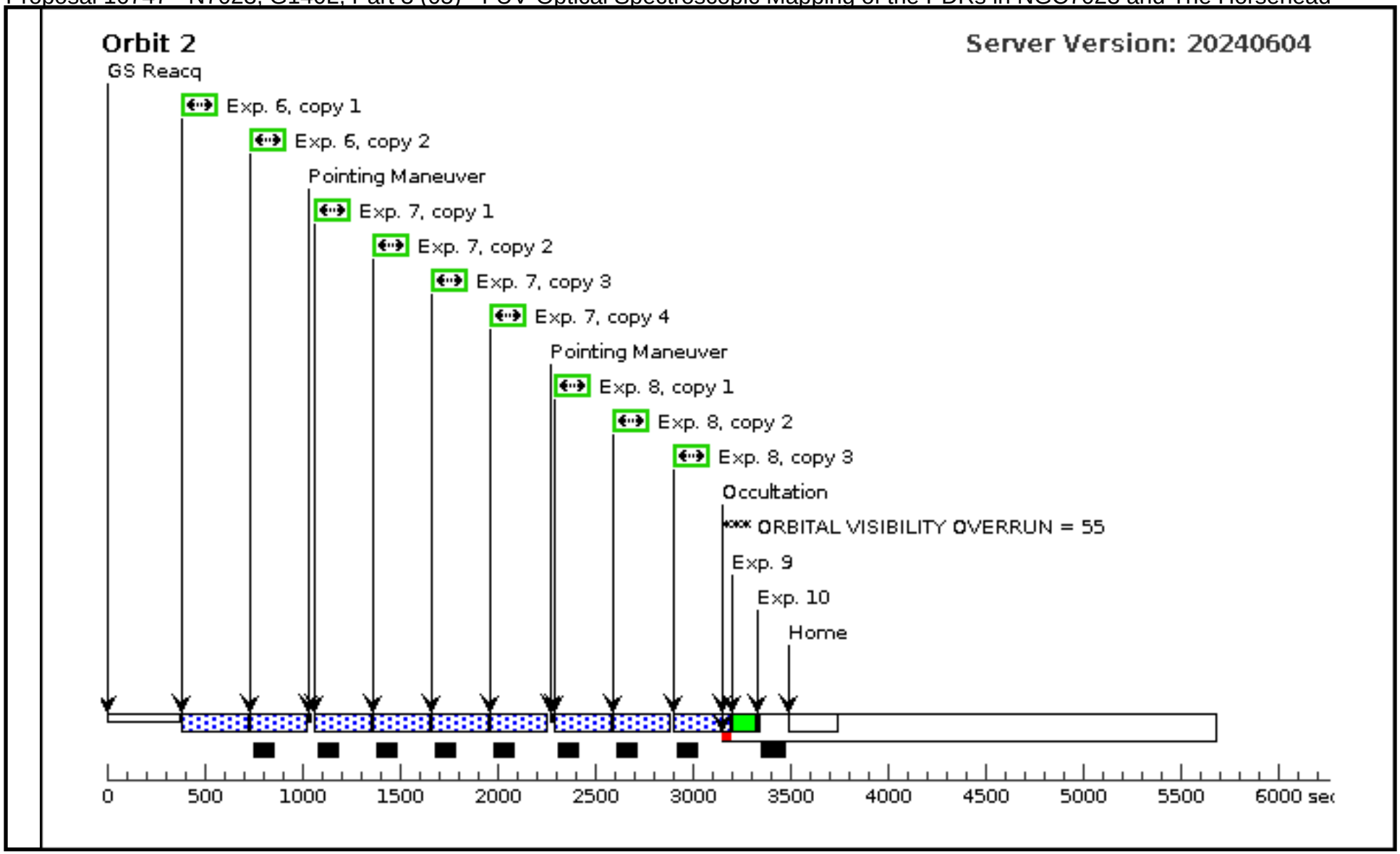
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	NGC7023	RA: 21 01 31.8800 (315.3828333d) Dec: +68 10 24.50 (68.17347d) Equinox: J2000		V=20+/-20	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. *Category=ISM* *Description=[HII REGION, IONIZATION FRONT, MOLECULAR CLOUD, PDR]* *Extended=YES*					
(3)	HD200775	RA: 21 01 36.9185 (315.4038271d) Dec: +68 09 47.77 (68.16327d) Equinox: J2000	Proper Motion RA: 8.336 mas/yr Proper Motion Dec: -1.566 mas/yr Epoch of Position: 2000	V=7.36+/-0.011	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. *Will be used for Target aquisition on NGC7023.* *Category=EXT-STAR* *Description=[B0-B2 V-IV]* *Extended=NO*					

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.1535078)	(3) HD200775	STIS/CCD, ACQ, F25ND3	MIRROR				5 Secs (5 Secs) *[==>]*	***[1]***
Comments: SN 350									
2	MSOFF ZERO	NONE	STIS, MSMOFF		SETOFFSET=ZERO; GRATING1=ALL			*[==>]*	***[1]***
3	N7023, 5 repeats, -0.5 offset (STIS.sp.1535952)	(1) NGC7023	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A	WAVECAL=NO	POS TARG -0.5,3.5		280 Secs X 5 (1400 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]*	***[1]***
Comments: WIth total exposure time of 12320 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
4	N7023, 3 repeats, -1.5 offset (STIS.sp.1535952)	(1) NGC7023	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A	WAVECAL=NO	POS TARG -1.5,3.5		280 Secs X 3 (840 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]*	***[1]***
Comments: WIth total exposure time of 12320 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
5	Manual Wavecal	WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				*[==>]*	***[1]***
6	N7023, 2 repeats, -1.5 offset (STIS.sp.1535952)	(1) NGC7023	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A	WAVECAL=NO	POS TARG -1.5,3.5		280 Secs X 2 (560 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]*	***[2]***
Comments: WIth total exposure time of 12320 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
7	N7023, 4 repeats, 0.5 offset (STIS.sp.1535952)	(1) NGC7023	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A	WAVECAL=NO	POS TARG 0.5,3.5		280 Secs X 4 (1120 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]*	***[2]***
Comments: WIth total exposure time of 12320 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
8	N7023, 3 repeats, -0.5 offset (STIS.sp.1535952)	(1) NGC7023	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A	WAVECAL=NO	POS TARG -0.5,3.5		280 Secs X 3 (840 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]*	***[2]***
Comments: WIth total exposure time of 12320 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
9	Manual Wavecal	WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				*[==>]*	***[2]***
10	MSOFF Restore	NONE	STIS, MSMOFF		GRATING1=ALL; SETOFFSET=RESTORE			*[==>]*	***[2]***

Orbit Structure




Orbit 2
Server Version: 20240604
GS Reacq
Exp. 6, copy 1
Exp. 6, copy 2
Pointing Maneuver
Exp. 7, copy 1
Exp. 7, copy 2
Exp. 7, copy 3
Exp. 7, copy 4
Pointing Maneuver
Exp. 8, copy 1
Exp. 8, copy 2
Exp. 8, copy 3
Occultation
**** ORBITAL VISIBILITY OVERRUN = 55
Exp. 9
Exp. 10
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 16747, N7023, G230L, Part 1 (06), failed Fri Aug 02 13:01:08 GMT 2024

Diagnostic Status: Warning

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

Special Requirements: ORIENT 188D TO 188 D; ORIENT 8D TO 8 D

Diagnostics

(N7023, G230L, Part 1 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(N7023, G230L, Part 1 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(N7023, G230L, Part 1 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(N7023, G230L, Part 1 (06)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(N7023, G230L, Part 1 (06)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(N7023, G230L, Part 1 (06)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(N7023, G230L, Part 1 (06)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(N7023, G230L, Part 1 (06)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

Fixed Targets

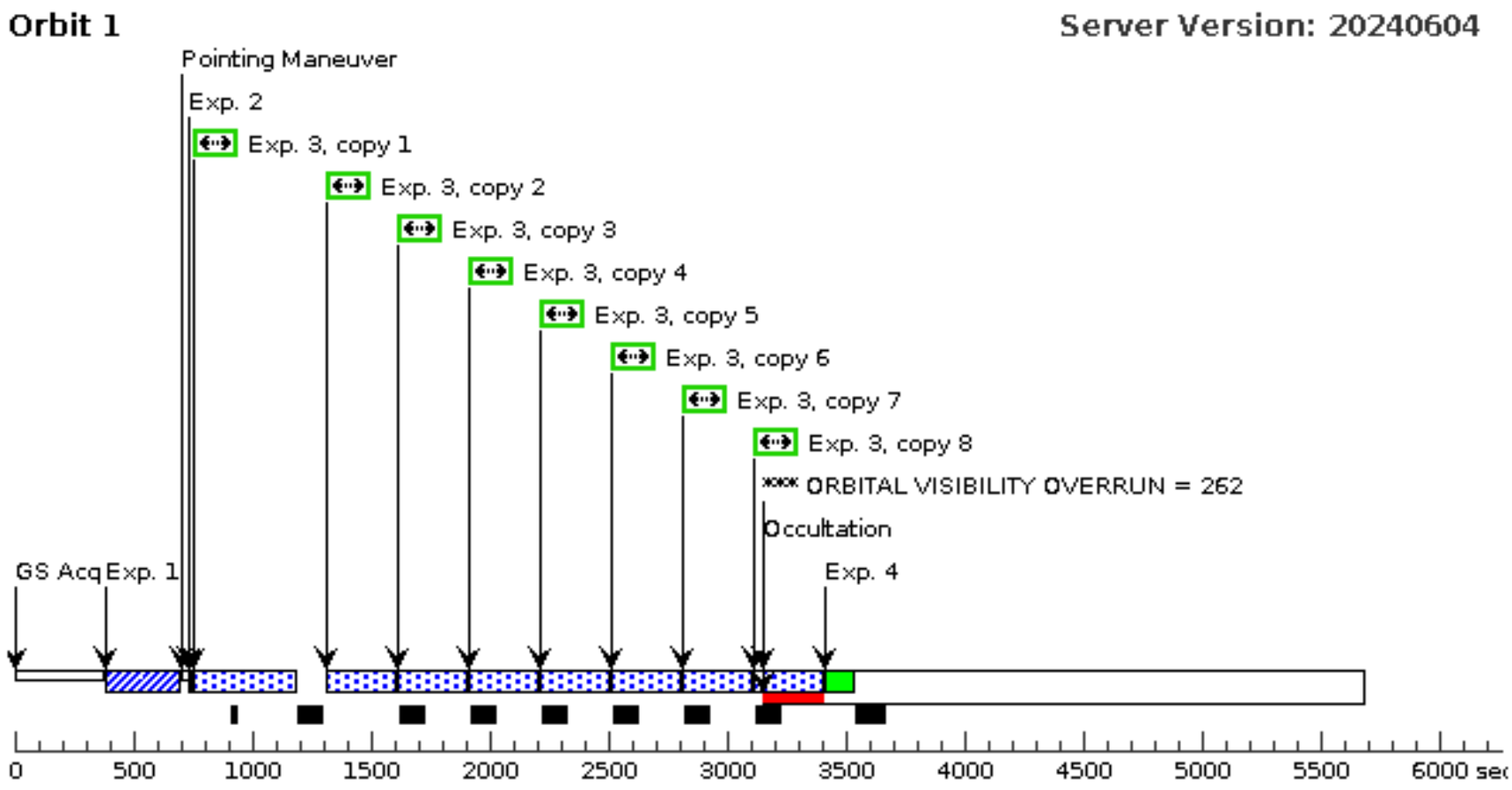
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	NGC7023	RA: 21 01 31.8800 (315.3828333d) Dec: +68 10 24.50 (68.17347d) Equinox: J2000		V=20+/-20	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. *Category=ISM* *Description=[HII REGION, IONIZATION FRONT, MOLECULAR CLOUD, PDR]* *Extended=YES*					
(3)	HD200775	RA: 21 01 36.9185 (315.4038271d) Dec: +68 09 47.77 (68.16327d) Equinox: J2000	Proper Motion RA: 8.336 mas/yr Proper Motion Dec: -1.566 mas/yr Epoch of Position: 2000	V=7.36+/-0.011	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. *Will be used for Target aquisition on NGC7023.* *Category=EXT-STAR* *Description=[B0-B2 V-IV]* *Extended=NO*					

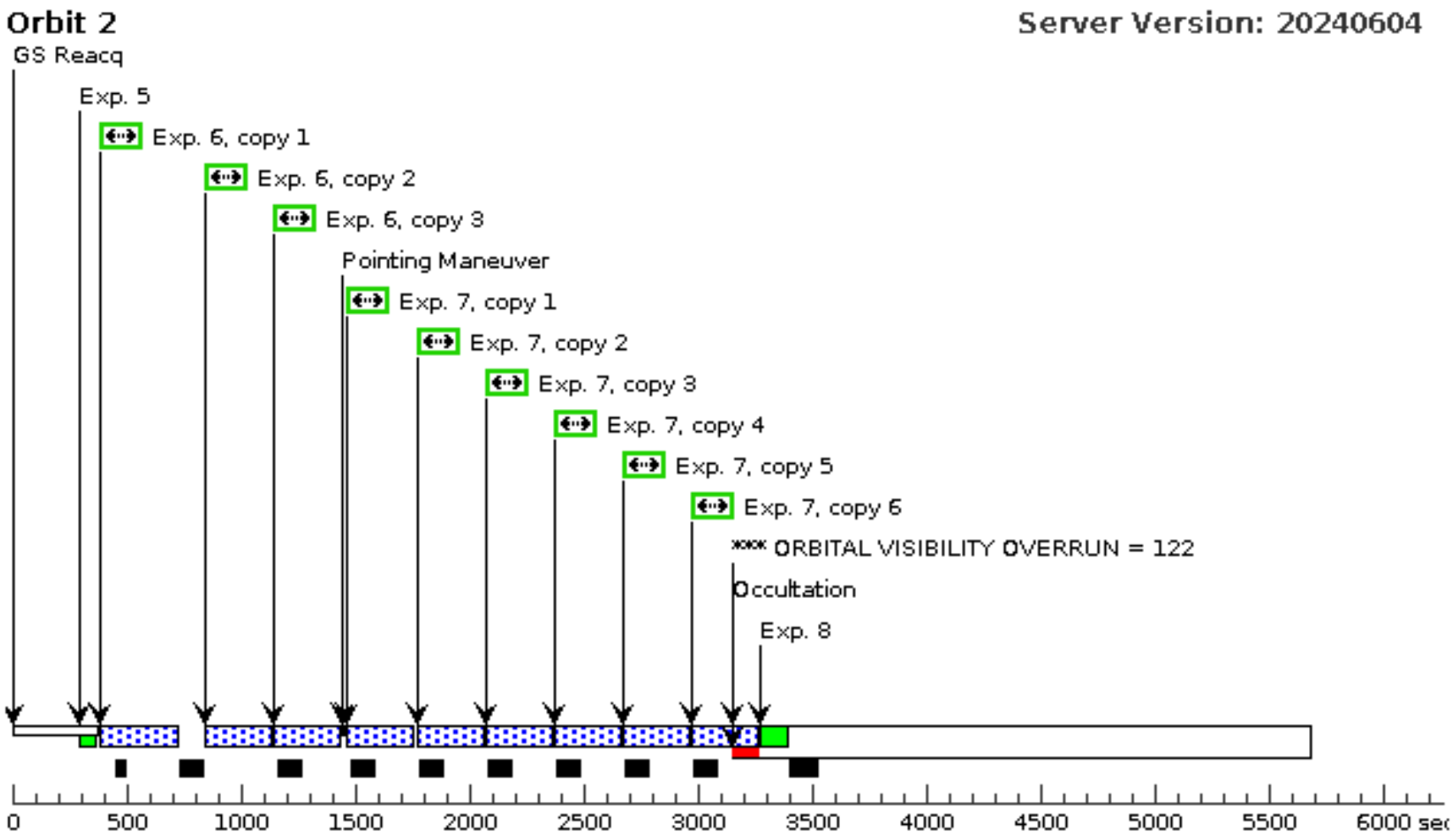
Exposures

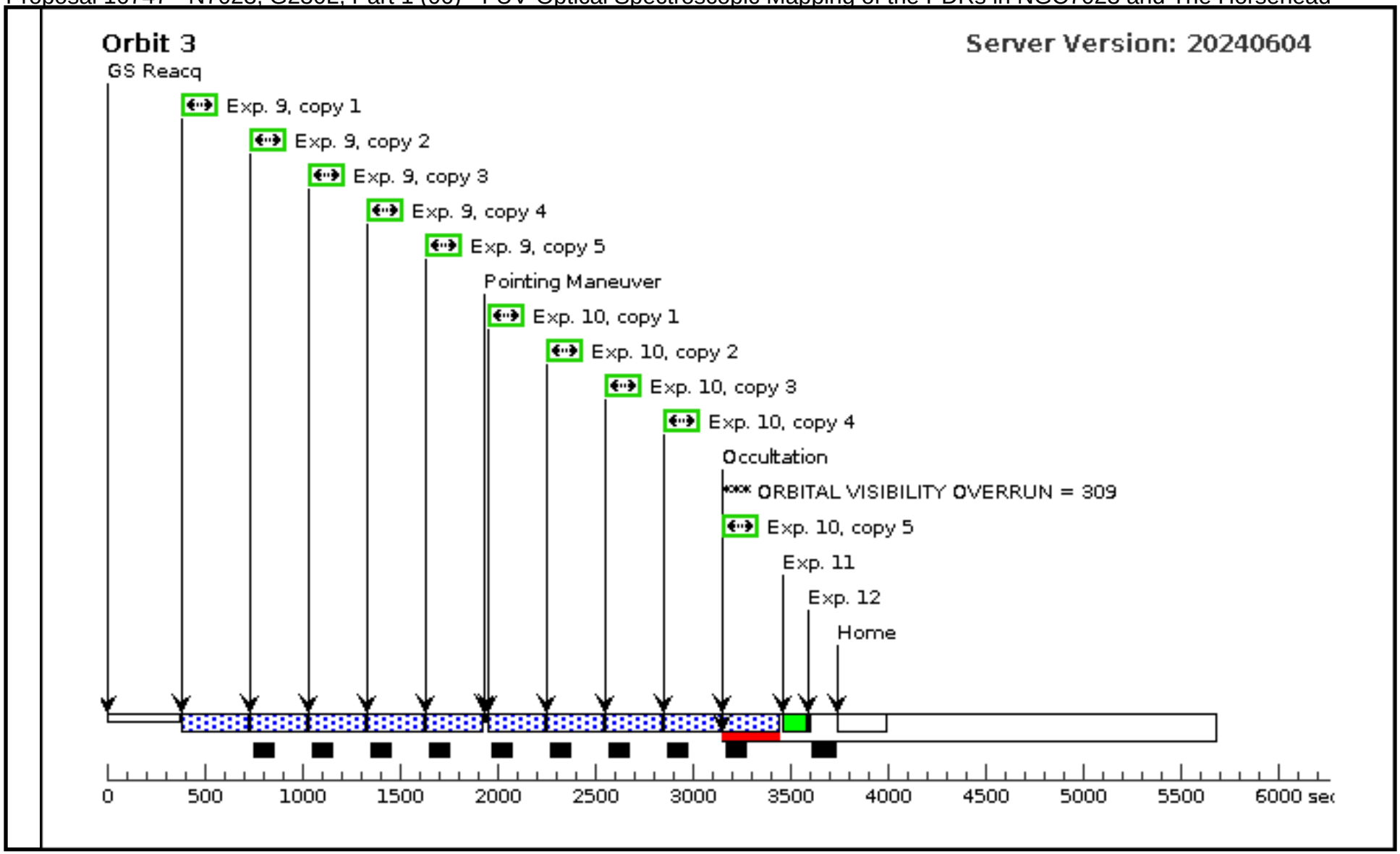
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.1535078)	(3) HD200775	STIS/CCD, ACQ, F25ND3	MIRROR				5 Secs (5 Secs) *[==>]*	***[1]***
Comments: SN 350									
2	MSOFF ZERO	NONE	STIS, MSMOFF		SETOFFSET=ZERO; GRATING1=ALL			*[==>]*	***[1]***
3	N7023, 8 repeats, 0.5 offset (STIS.sp.153595)	(1) NGC7023	STIS/NUV-MAMA, ACCUM, 52X2	G230L 2376 A	WAVECAL=NO	POS TARG 0.5,null		278 Secs X 8 (2224 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	***[1]***
Comments: WIth total exposure time of 15568 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
4	Manual Wavecal	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				*[==>]*	***[1]***
5	Manual Wavecal	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				*[==>]*	***[2]***
6	N7023, 3 repeats, 0.5 offset (STIS.sp.1535954)	(1) NGC7023	STIS/NUV-MAMA, ACCUM, 52X2	G230L 2376 A	WAVECAL=NO	POS TARG 0.5,null		278 Secs X 3 (834 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]*	***[2]***
Comments: WIth total exposure time of 15568 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
7	N7023, 6 repeats, -0.5 offset (STIS.sp.1535954)	(1) NGC7023	STIS/NUV-MAMA, ACCUM, 52X2	G230L 2376 A	WAVECAL=NO	POS TARG -0.5,null		278 Secs X 6 (1668 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]*	***[2]***
Comments: WIth total exposure time of 15568 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
8	Manual Wavecal	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				*[==>]*	***[2]***
9	N7023, 5 repeats, -0.5 offset (STIS.sp.1535954)	(1) NGC7023	STIS/NUV-MAMA, ACCUM, 52X2	G230L 2376 A	WAVECAL=NO	POS TARG -0.5,null		278 Secs X 5 (1390 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]*	***[3]***
Comments: WIth total exposure time of 15568 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									

	10	N7023, 5 repeats, -1.5 offset (STIS.sp.1535954)	(1) NGC7023	STIS/NUV-MAMA, ACCUM, 52X2	G230L 2376 A	WAVECAL=NO	POS TARG -1.5,null	278 Secs X 5 (1390 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]*	***[3]***
	Comments: WIth total exposure time of 15568 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.								
	11	Manual Wavecal	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A			*[==>]*	***[3]***
	12	MSOFF Restore	NONE	STIS, MSMOFF		GRATING1=ALL; SETOFFSET=RESTORE		*[==>]*	***[3]***

Orbit Structure




Orbit 2
Server Version: 20240604
GS Reacq
Exp. 5
Exp. 6, copy 1
Exp. 6, copy 2
Exp. 6, copy 3
Pointing Maneuver
Exp. 7, copy 1
Exp. 7, copy 2
Exp. 7, copy 3
Exp. 7, copy 4
Exp. 7, copy 5
Exp. 7, copy 6
**** ORBITAL VISIBILITY OVERRUN = 122
Occultation
Exp. 8
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 3
Server Version: 20240604
GS Reacq
Exp. 9, copy 1
Exp. 9, copy 2
Exp. 9, copy 3
Exp. 9, copy 4
Exp. 9, copy 5
Pointing Maneuver
Exp. 10, copy 1
Exp. 10, copy 2
Exp. 10, copy 3
Exp. 10, copy 4
Occultation
**** ORBITAL VISIBILITY OVERRUN = 309
Exp. 10, copy 5
Exp. 11
Exp. 12
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 16747, N7023, G230L, Part 1 (HOPR 92588) (29), implementation Fri Aug 02 13:01:08 GMT 2024

Diagnostic Status: Warning

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

Special Requirements: ORIENT 188D TO 188 D; ORIENT 8D TO 8 D

Diagnostics

(N7023, G230L, Part 1 (HOPR 92588) (29)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(N7023, G230L, Part 1 (HOPR 92588) (29)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(N7023, G230L, Part 1 (HOPR 92588) (29)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(N7023, G230L, Part 1 (HOPR 92588) (29)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(N7023, G230L, Part 1 (HOPR 92588) (29)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

Fixed Targets

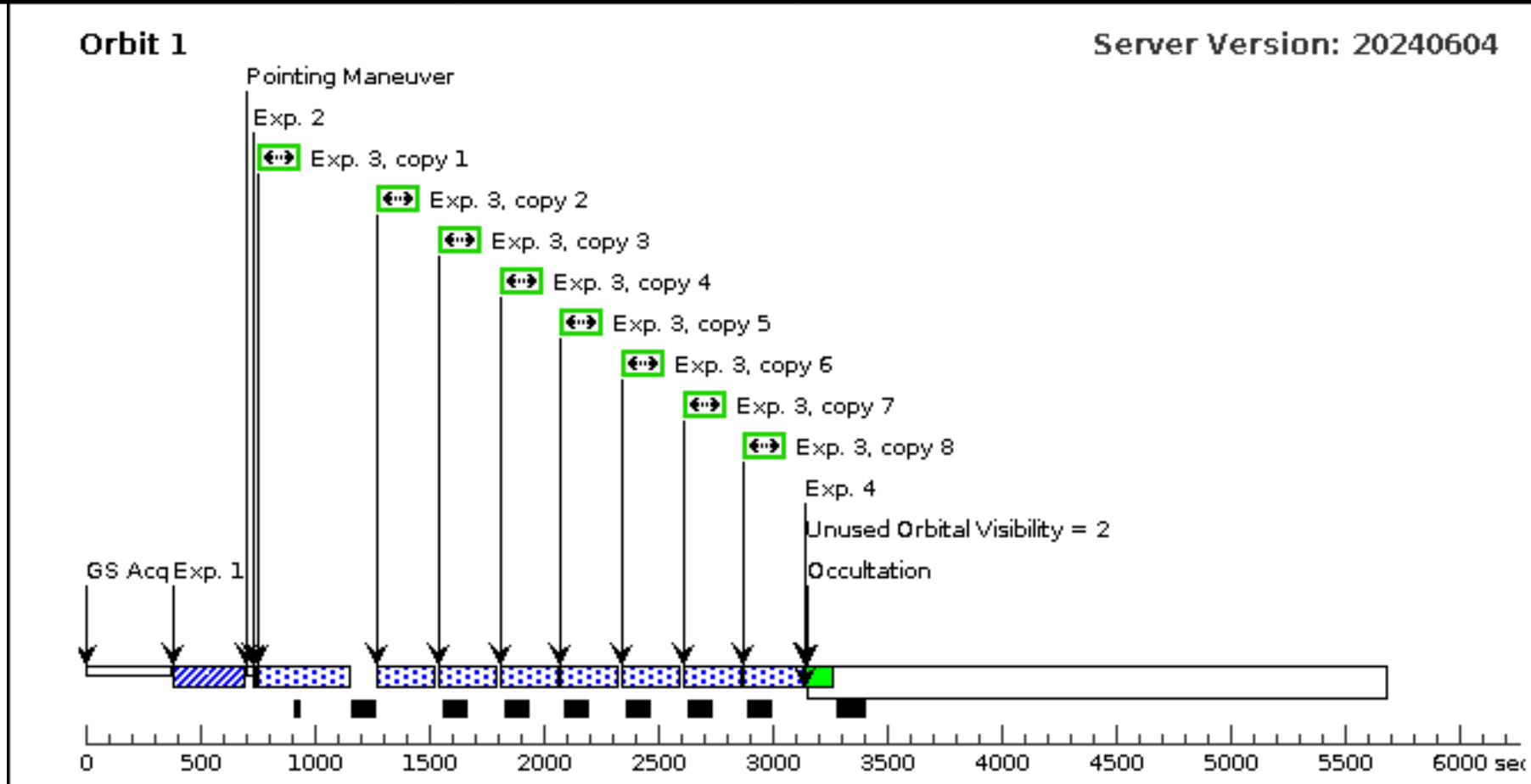
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	NGC7023	RA: 21 01 31.8800 (315.3828333d) Dec: +68 10 24.50 (68.17347d) Equinox: J2000		V=20+/-20	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. *Category=ISM* *Description=[HII REGION, IONIZATION FRONT, MOLECULAR CLOUD, PDR]* *Extended=YES*					
(3)	HD200775	RA: 21 01 36.9185 (315.4038271d) Dec: +68 09 47.77 (68.16327d) Equinox: J2000	Proper Motion RA: 8.336 mas/yr Proper Motion Dec: -1.566 mas/yr Epoch of Position: 2000	V=7.36+/-0.011	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. *Will be used for Target aquisition on NGC7023.* *Category=EXT-STAR* *Description=[B0-B2 V-IV]* *Extended=NO*					

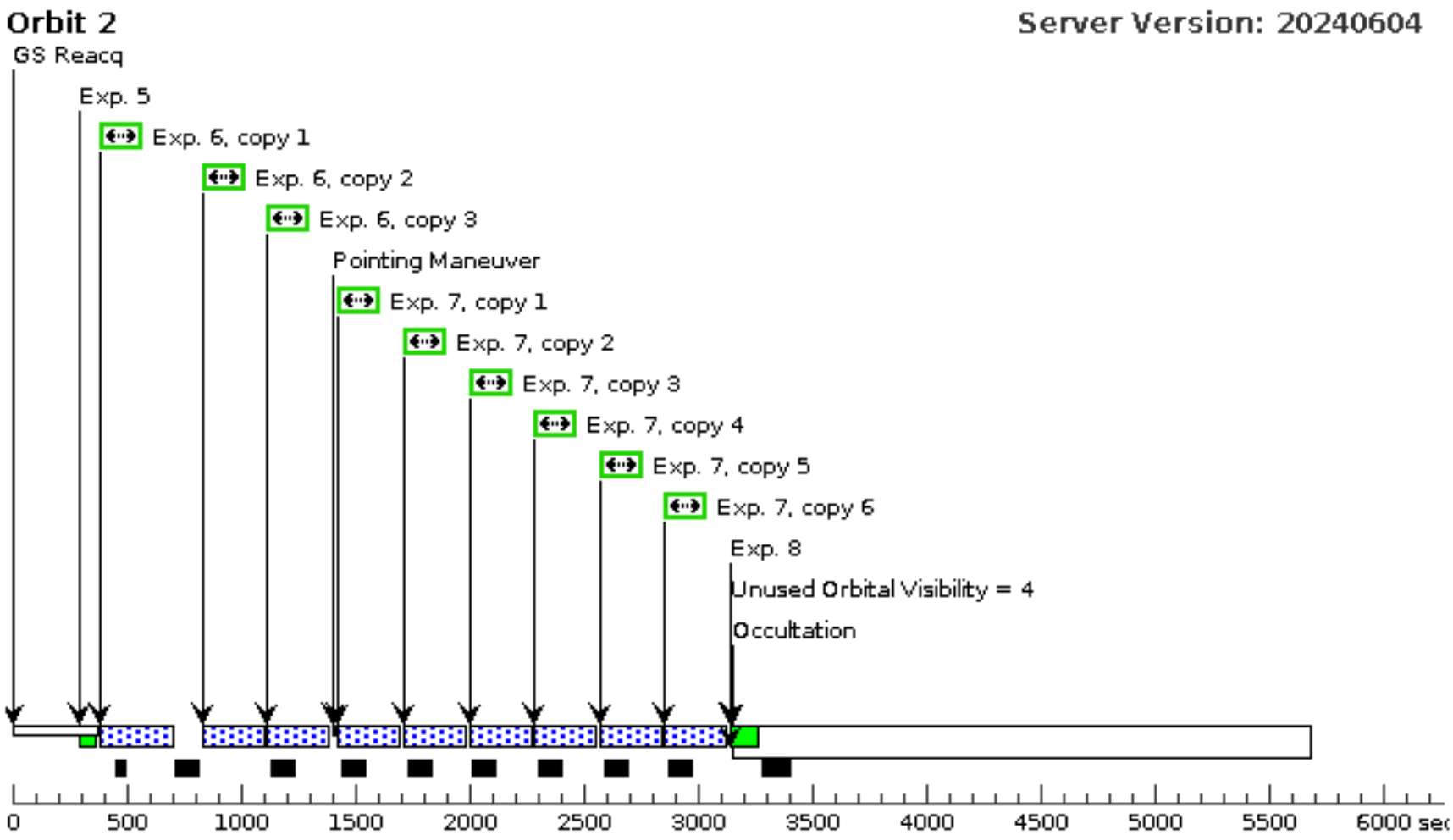
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.1535078)	(3) HD200775	STIS/CCD, ACQ, F25ND3	MIRROR				5 Secs (5 Secs) *[==>]*	***[1]***
Comments: SN 350									
2	MSOFF ZERO	NONE	STIS, MSMOFF		SETOFFSET=ZERO ; GRATING1=ALL			*[==>]*	***[1]***
3	N7023, 8 repeats, 0.5 offset (STIS.sp.153595)	(1) NGC7023	STIS/NUV-MAMA, ACCUM, 52X2	G230L 2376 A	WAVECAL=NO	POS TARG 0.5,null		278 Secs X 8 (1960 Secs) *[==>245.0 Secs (Copy 1)]* *[==>245.0 Secs (Copy 2)]* *[==>245.0 Secs (Copy 3)]* *[==>245.0 Secs (Copy 4)]* *[==>245.0 Secs (Copy 5)]* *[==>245.0 Secs (Copy 6)]* *[==>245.0 Secs (Copy 7)]* *[==>245.0 Secs (Copy 8)]*	***[1]***
Comments: WIth total exposure time of 15568 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
4	Manual Wavecal	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				*[==>]*	***[1]***
5	Manual Wavecal	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				*[==>]*	***[2]***
6	N7023, 3 repeats, 0.5 offset (STIS.sp.1535954)	(1) NGC7023	STIS/NUV-MAMA, ACCUM, 52X2	G230L 2376 A	WAVECAL=NO	POS TARG 0.5,null		278 Secs X 3 (792 Secs) *[==>264.0 Secs (Copy 1)]* *[==>264.0 Secs (Copy 2)]* *[==>264.0 Secs (Copy 3)]*	***[2]***
Comments: WIth total exposure time of 15568 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
7	N7023, 6 repeats, -0.5 offset (STIS.sp.1535954)	(1) NGC7023	STIS/NUV-MAMA, ACCUM, 52X2	G230L 2376 A	WAVECAL=NO	POS TARG -0.5,null		278 Secs X 6 (1584 Secs) *[==>264.0 Secs (Copy 1)]* *[==>264.0 Secs (Copy 2)]* *[==>264.0 Secs (Copy 3)]* *[==>264.0 Secs (Copy 4)]* *[==>264.0 Secs (Copy 5)]* *[==>264.0 Secs (Copy 6)]*	***[2]***
Comments: WIth total exposure time of 15568 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
8	Manual Wavecal	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				*[==>]*	***[2]***
9	N7023, 5 repeats, -0.5 offset (STIS.sp.1535954)	(1) NGC7023	STIS/NUV-MAMA, ACCUM, 52X2	G230L 2376 A	WAVECAL=NO	POS TARG -0.5,null		278 Secs X 5 (1235 Secs) *[==>247.0 Secs (Copy 1)]* *[==>247.0 Secs (Copy 2)]* *[==>247.0 Secs (Copy 3)]* *[==>247.0 Secs (Copy 4)]* *[==>247.0 Secs (Copy 5)]*	***[3]***
Comments: WIth total exposure time of 15568 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									

	10	N7023, 5 repeats, -1.5 offset (STIS.sp.15 35954)	(1) NGC7023	STIS/NUV-MAMA, ACCUM, 52X2	G230L 2376 A	WAVECAL=NO	POS TARG -1.5,null	278 Secs X 5 (1235 Secs) *[==>247.0 Secs (Copy 1)]* *[==>247.0 Secs (Copy 2)]* *[==>247.0 Secs (Copy 3)]* *[==>247.0 Secs (Copy 4)]* *[==>247.0 Secs (Copy 5)]*	***[3]***
	Comments: WIth total exposure time of 15568 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.								
	11	Manual Wavecal	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A			*[==>]*	***[3]***
	12	MSOFF Restore	NONE	STIS, MSMOFF		GRATING1=ALL; SETOFFSET=RESTORE		*[==>]*	***[3]***

Orbit Structure

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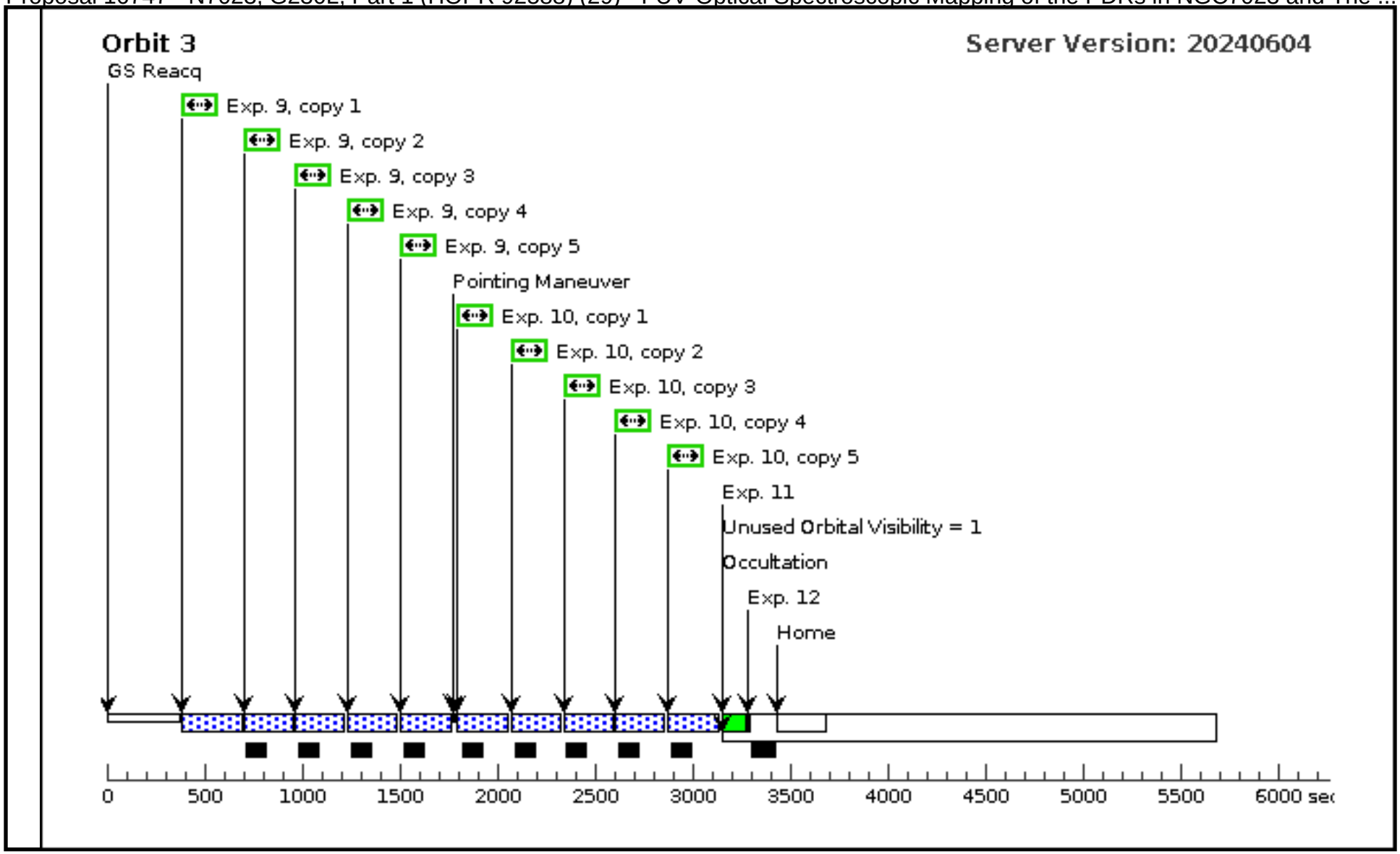
Server Version: 20240604
GS Reacq
Exp. 5
Exp. 6, copy 1
Exp. 6, copy 2
Exp. 6, copy 3
Pointing Maneuver
Exp. 7, copy 1
Exp. 7, copy 2
Exp. 7, copy 3
Exp. 7, copy 4
Exp. 7, copy 5
Exp. 7, copy 6
Exp. 8
Unused Orbital Visibility = 4
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 3
Server Version: 20240604
GS Reacq
Exp. 9, copy 1
Exp. 9, copy 2
Exp. 9, copy 3
Exp. 9, copy 4
Exp. 9, copy 5
Pointing Maneuver
Exp. 10, copy 1
Exp. 10, copy 2
Exp. 10, copy 3
Exp. 10, copy 4
Exp. 10, copy 5
Exp. 11
Unused Orbital Visibility = 1
Occultation
Exp. 12
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 16747, N7023, G230L, Part 2 (07), implementation Fri Aug 02 13:01:09 GMT 2024

Diagnostic Status: Warning

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

Special Requirements: ORIENT 188D TO 188 D; ORIENT 8D TO 8 D

Diagnostics

(N7023, G230L, Part 2 (07)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(N7023, G230L, Part 2 (07)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(N7023, G230L, Part 2 (07)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
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(N7023, G230L, Part 2 (07)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(N7023, G230L, Part 2 (07)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(N7023, G230L, Part 2 (07)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

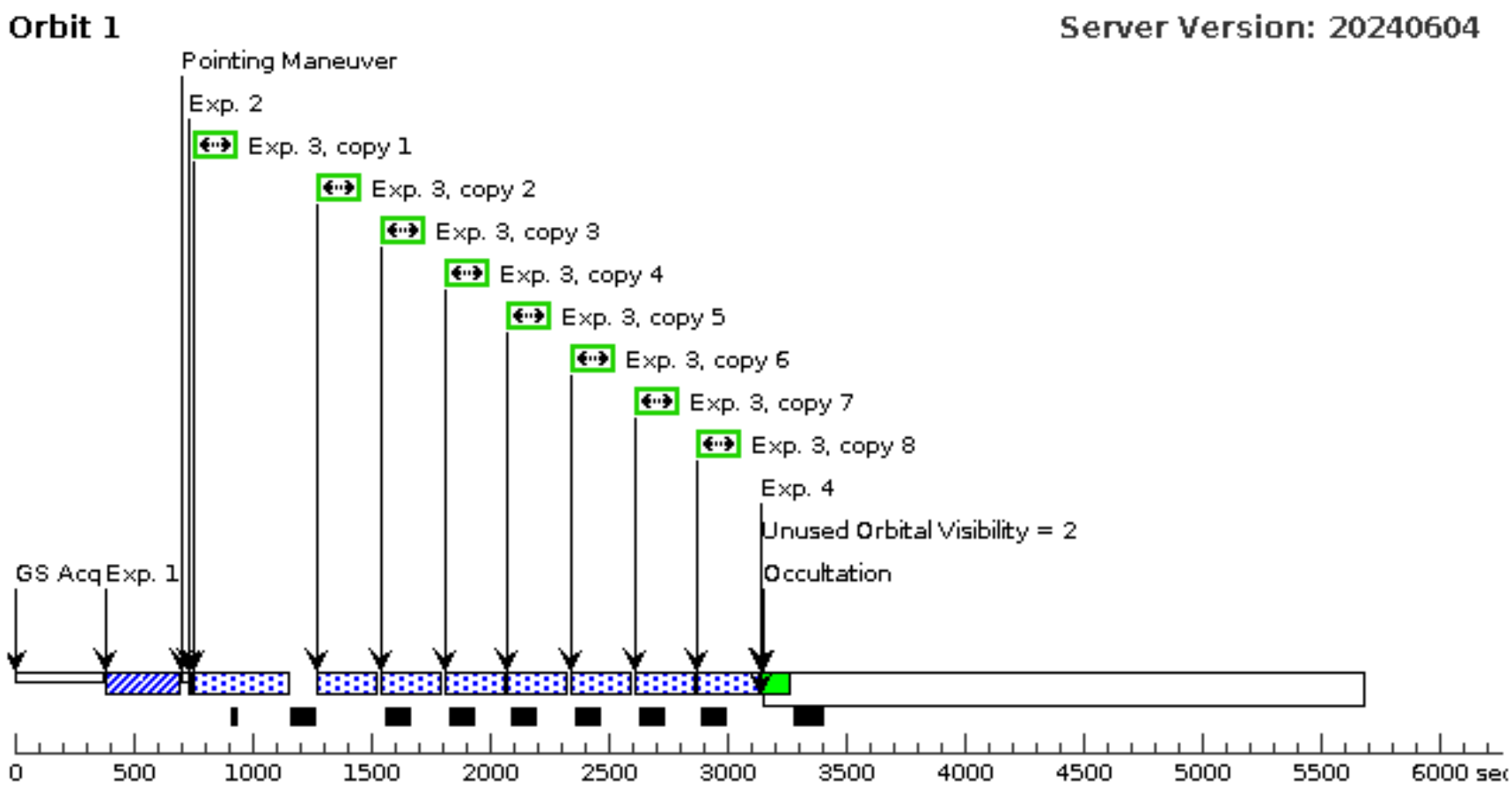
Fixed Targets

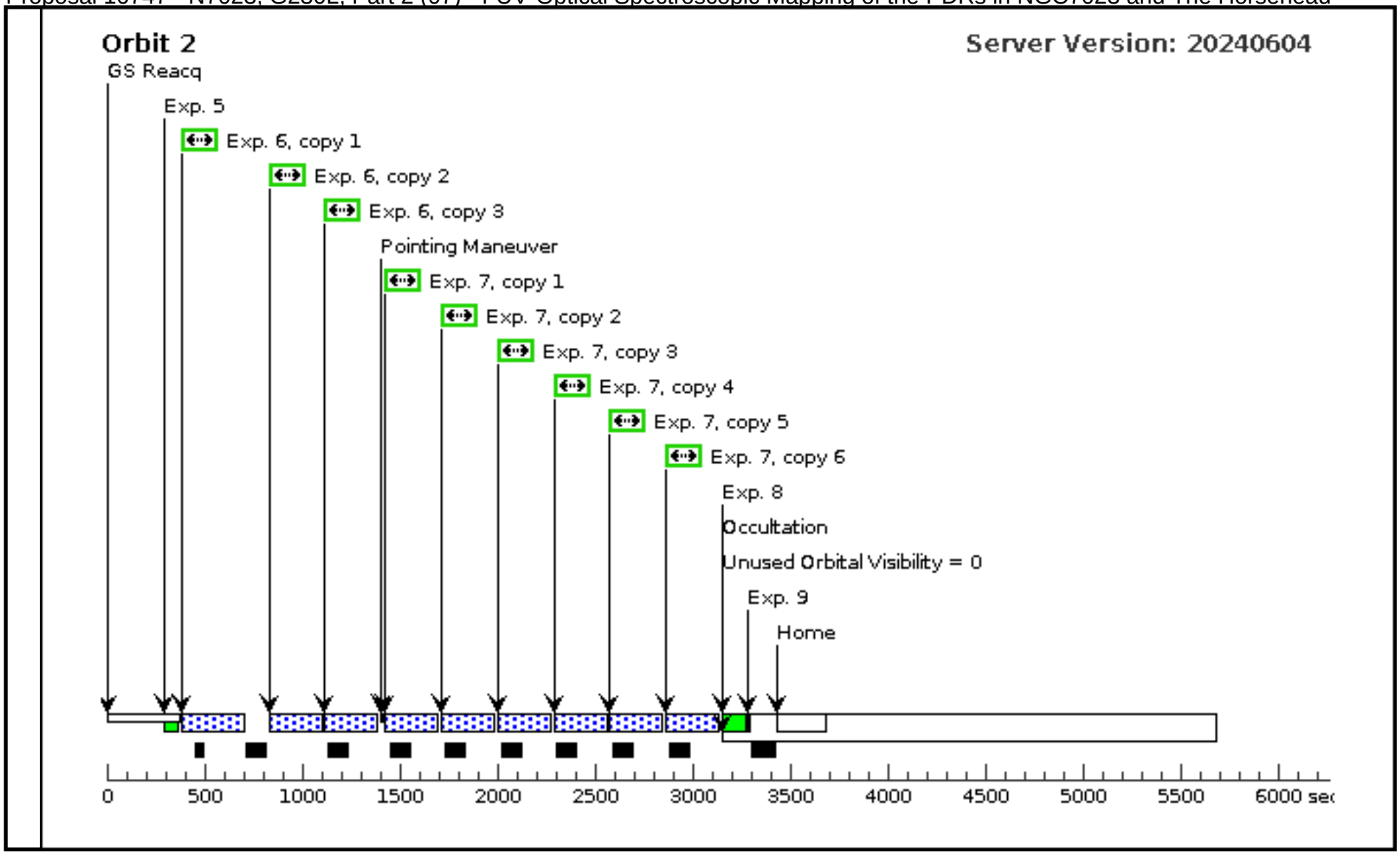
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	NGC7023	RA: 21 01 31.8800 (315.3828333d) Dec: +68 10 24.50 (68.17347d) Equinox: J2000		V=20+/-20	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=ISM Description=[HII REGION, IONIZATION FRONT, MOLECULAR CLOUD, PDR] Extended=YES					
(3)	HD200775	RA: 21 01 36.9185 (315.4038271d) Dec: +68 09 47.77 (68.16327d) Equinox: J2000	Proper Motion RA: 8.336 mas/yr Proper Motion Dec: -1.566 mas/yr Epoch of Position: 2000	V=7.36+/-0.011	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Will be used for Target aquisition on NGC7023. Category=EXT-STAR Description=[B0-B2 V-IV] Extended=NO					

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.1535078)	(3) HD200775	STIS/CCD, ACQ, F25ND3	MIRROR				5 Secs (5 Secs) *[==>]*	***[1]***
Comments: SN 350									
2	MSOFF ZERO	NONE	STIS, MSMOFF		SETOFFSET=ZERO; GRATING1=ALL			*[==>]*	***[1]***
3	N7023, 8 repeats, 1.5 offset (STIS.sp.1535954)	(1) NGC7023	STIS/NUV-MAMA, ACCUM, 52X2	G230L 2376 A	WAVECAL=NO	POS TARG 1.5,null		278 Secs X 8 (1960 Secs) *[==>245.0 Secs (Copy 1)]* *[==>245.0 Secs (Copy 2)]* *[==>245.0 Secs (Copy 3)]* *[==>245.0 Secs (Copy 4)]* *[==>245.0 Secs (Copy 5)]* *[==>245.0 Secs (Copy 6)]* *[==>245.0 Secs (Copy 7)]* *[==>245.0 Secs (Copy 8)]*	***[1]***
Comments: WIth total exposure time of 15568 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
4	Manual Wavecal	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				*[==>]*	***[1]***
5	Manual Wavecal	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				*[==>]*	***[2]***
6	N7023, 3 repeats, 1.5 offset (STIS.sp.1535954)	(1) NGC7023	STIS/NUV-MAMA, ACCUM, 52X2	G230L 2376 A	WAVECAL=NO	POS TARG 1.5,null		278 Secs X 3 (792 Secs) *[==>264.0 Secs (Copy 1)]* *[==>264.0 Secs (Copy 2)]* *[==>264.0 Secs (Copy 3)]*	***[2]***
Comments: WIth total exposure time of 15568 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
7	N7023, 6 repeats, -1.5 offset (STIS.sp.1535954)	(1) NGC7023	STIS/NUV-MAMA, ACCUM, 52X2	G230L 2376 A	WAVECAL=NO	POS TARG -1.5,null		278 Secs X 6 (1584 Secs) *[==>264.0 Secs (Copy 1)]* *[==>264.0 Secs (Copy 2)]* *[==>264.0 Secs (Copy 3)]* *[==>264.0 Secs (Copy 4)]* *[==>264.0 Secs (Copy 5)]* *[==>264.0 Secs (Copy 6)]*	***[2]***
Comments: WIth total exposure time of 15568 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
8	Manual Wavecal	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				*[==>]*	***[2]***
9	MSOFF Restore	NONE	STIS, MSMOFF		GRATING1=ALL; SETOFFSET=RESTORE			*[==>]*	***[2]***

Orbit Structure




Orbit 2
Server Version: 20240604
GS Reacq
Exp. 5
Exp. 6, copy 1
Exp. 6, copy 2
Exp. 6, copy 3
Pointing Maneuver
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. 8
Occultation
Unused Orbital Visibility = 0
Exp. 9
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 16747, N7023, G230L, Part 3 (08), implementation Fri Aug 02 13:01:09 GMT 2024

Diagnostic Status: Warning

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

Special Requirements: ORIENT 188D TO 188 D; ORIENT 8D TO 8 D

Diagnostics

(N7023, G230L, Part 3 (08)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(N7023, G230L, Part 3 (08)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(N7023, G230L, Part 3 (08)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(N7023, G230L, Part 3 (08)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(N7023, G230L, Part 3 (08)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

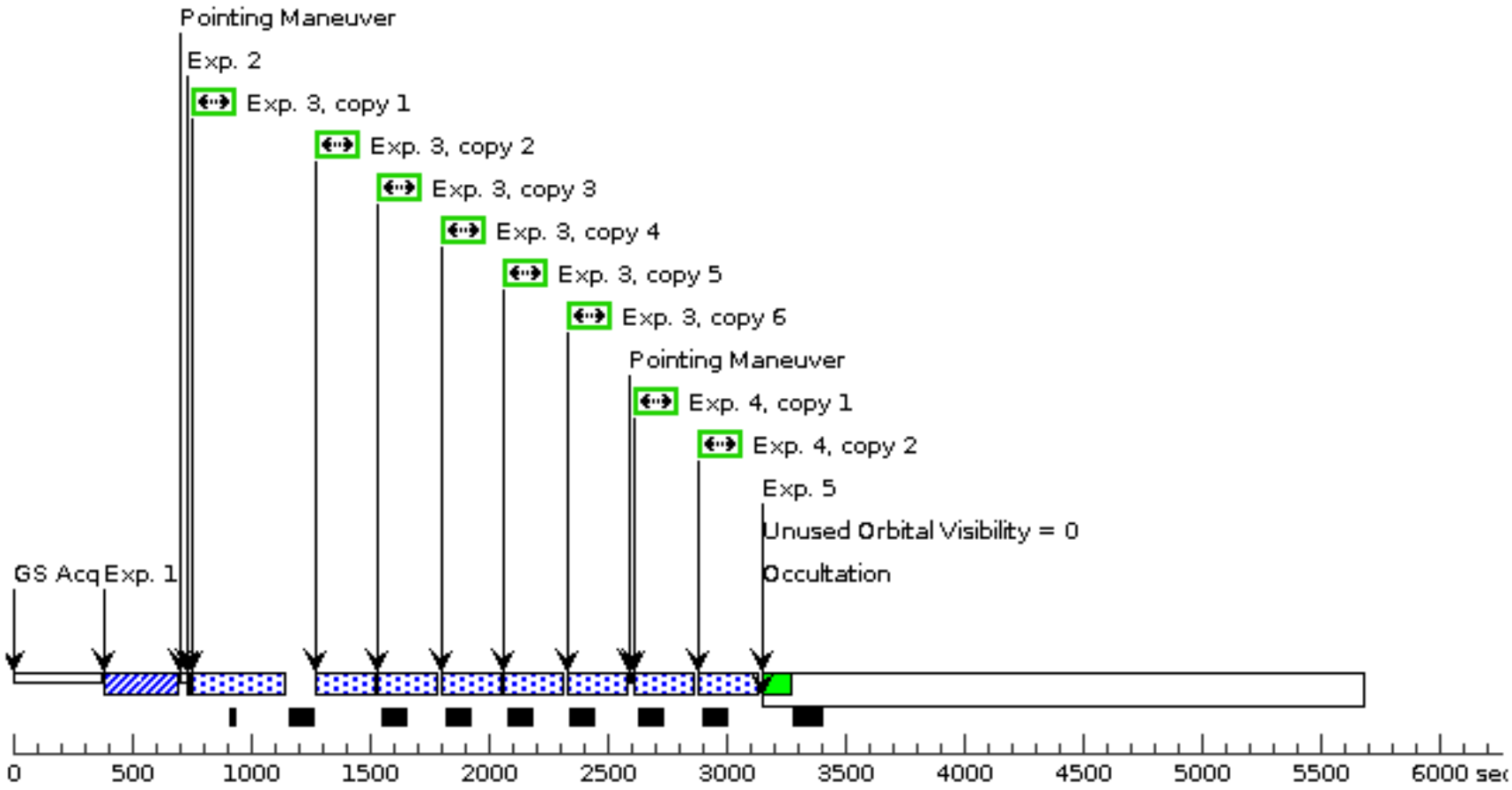
Fixed Targets

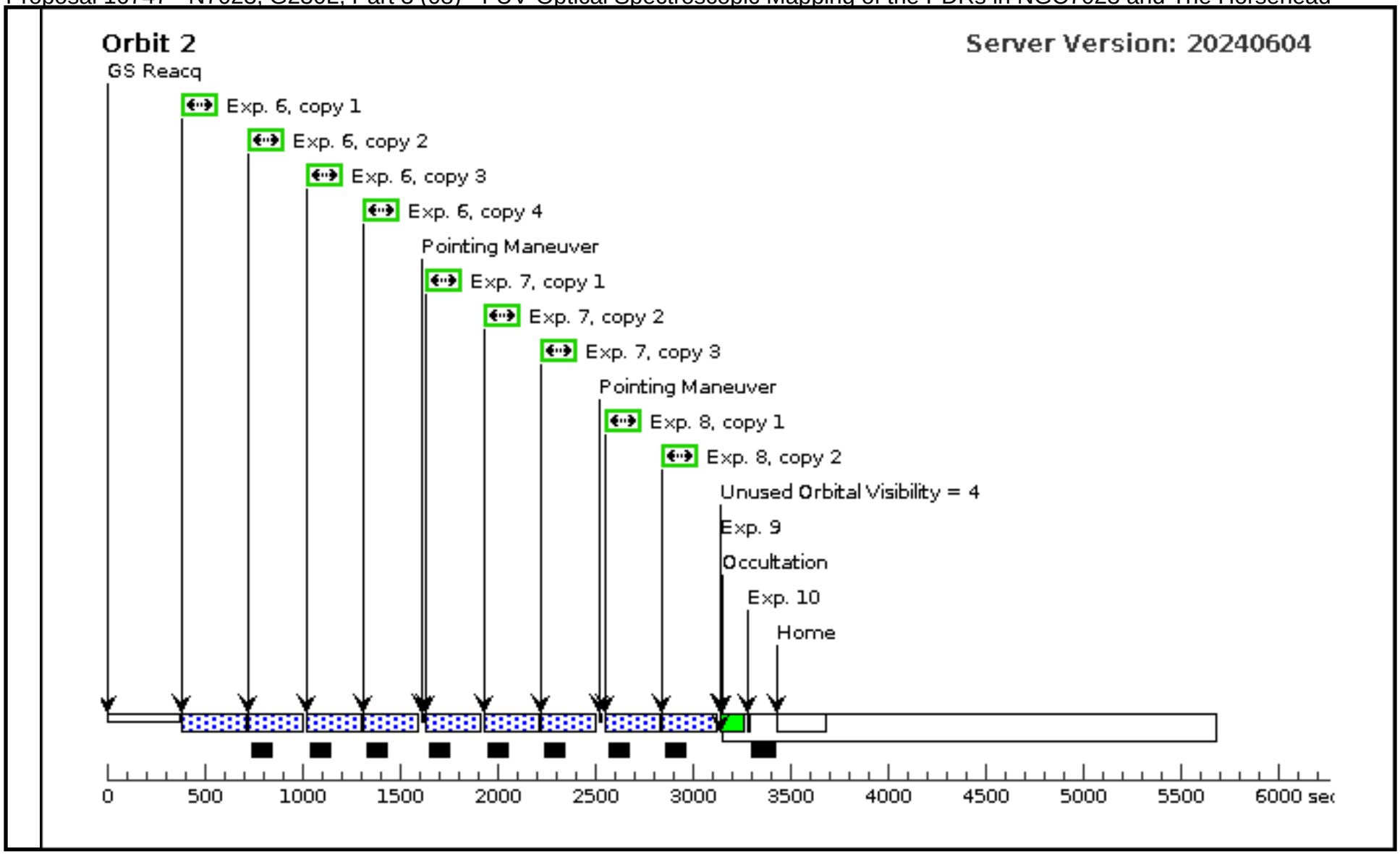
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	NGC7023	RA: 21 01 31.8800 (315.3828333d) Dec: +68 10 24.50 (68.17347d) Equinox: J2000		V=20+/-20	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. *Category=ISM* *Description=[HII REGION, IONIZATION FRONT, MOLECULAR CLOUD, PDR]* *Extended=YES*					
(3)	HD200775	RA: 21 01 36.9185 (315.4038271d) Dec: +68 09 47.77 (68.16327d) Equinox: J2000	Proper Motion RA: 8.336 mas/yr Proper Motion Dec: -1.566 mas/yr Epoch of Position: 2000	V=7.36+/-0.011	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. *Will be used for Target aquisition on NGC7023.* *Category=EXT-STAR* *Description=[B0-B2 V-IV]* *Extended=NO*					

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.1535078)	(3) HD200775	STIS/CCD, ACQ, F25ND3	MIRROR				5 Secs (5 Secs) *[==>]*	***[1]***
Comments: SN 350									
2	MSOFF ZERO	NONE	STIS, MSMOFF		SETOFFSET=ZERO; GRATING1=ALL			*[==>]*	***[1]***
3	N7023, 6 repeats, 0.5 offset (STIS.sp.1535954)	(1) NGC7023	STIS/NUV-MAMA, ACCUM, 52X2	G230L 2376 A	WAVECAL=NO	POS TARG 0.5,null		278 Secs X 6 (1452 Secs) *[==>242.0 Secs (Copy 1)]* *[==>242.0 Secs (Copy 2)]* *[==>242.0 Secs (Copy 3)]* *[==>242.0 Secs (Copy 4)]* *[==>242.0 Secs (Copy 5)]* *[==>242.0 Secs (Copy 6)]*	***[1]***
Comments: WIth total exposure time of 15568 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
4	N7023, 2 repeats, -0.5 offset (STIS.sp.1535954)	(1) NGC7023	STIS/NUV-MAMA, ACCUM, 52X2	G230L 2376 A	WAVECAL=NO	POS TARG -0.5,null		278 Secs X 2 (484 Secs) *[==>242.0 Secs (Copy 1)]* *[==>242.0 Secs (Copy 2)]*	***[1]***
Comments: WIth total exposure time of 15568 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
5	Manual Wavecal	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				*[==>]*	***[1]***
6	N7023, 4 repeats, -0.5 offset (STIS.sp.1535954)	(1) NGC7023	STIS/NUV-MAMA, ACCUM, 52X2	G230L 2376 A	WAVECAL=NO	POS TARG -0.5,null		278 Secs X 4 (1092 Secs) *[==>273.0 Secs (Copy 1)]* *[==>273.0 Secs (Copy 2)]* *[==>273.0 Secs (Copy 3)]* *[==>273.0 Secs (Copy 4)]*	***[2]***
Comments: WIth total exposure time of 15568 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
7	N7023, 3 repeats, 1.5 offset (STIS.sp.1535954)	(1) NGC7023	STIS/NUV-MAMA, ACCUM, 52X2	G230L 2376 A	WAVECAL=NO	POS TARG 1.5,null		278 Secs X 3 (819 Secs) *[==>273.0 Secs (Copy 1)]* *[==>273.0 Secs (Copy 2)]* *[==>273.0 Secs (Copy 3)]*	***[2]***
Comments: WIth total exposure time of 15568 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
8	N7023, 2 repeats, -1.5 offset (STIS.sp.1535954)	(1) NGC7023	STIS/NUV-MAMA, ACCUM, 52X2	G230L 2376 A	WAVECAL=NO	POS TARG -1.5,null		278 Secs X 2 (546 Secs) *[==>273.0 Secs (Copy 1)]* *[==>273.0 Secs (Copy 2)]*	***[2]***
Comments: WIth total exposure time of 15568 seconds, SN in contiuum is 2-4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
9	Manual Wavecal	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				*[==>]*	***[2]***
10	MSOFF Restore	NONE	STIS, MSMOFF		GRATING1=ALL; SETOFFSET=RESTORE			*[==>]*	***[2]***

Orbit Structure




Orbit 2
Server Version: 20240604
GS Reacq
Exp. 6, copy 1
Exp. 6, copy 2
Exp. 6, copy 3
Exp. 6, copy 4
Pointing Maneuver
Exp. 7, copy 1
Exp. 7, copy 2
Exp. 7, copy 3
Pointing Maneuver
Exp. 8, copy 1
Exp. 8, copy 2
Unused Orbital Visibility = 4
Exp. 9
Occultation
Exp. 10
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 16747, NGC7023 UV backgrounds (09), completed Fri Aug 02 13:01:09 GMT 2024

Diagnostic Status: Warning

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

Special Requirements: (none)

Diagnostics

(NGC7023 UV backgrounds (09)) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronography with STIS or COS.

(NGC7023 UV backgrounds (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	NGC7023BACKGROUND	RA: 21 00 16.1800 (315.0674167d) Dec: +68 20 25.10 (68.34031d) Equinox: J2000		V=15	Reference Frame: ICRS

Comments: Background region selected from Gallex image to monitor instrumental background/stability.
Category=CALIBRATION
Description=[UNDESIGNATED]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Manual Wavecal	WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				*[==>]*	***[1]***
2	N7023 Background (STIS.sp.15 35952)	(6) NGC7023BACKGROUND	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A				280 Secs X 5 (1400 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]*	***[1]***

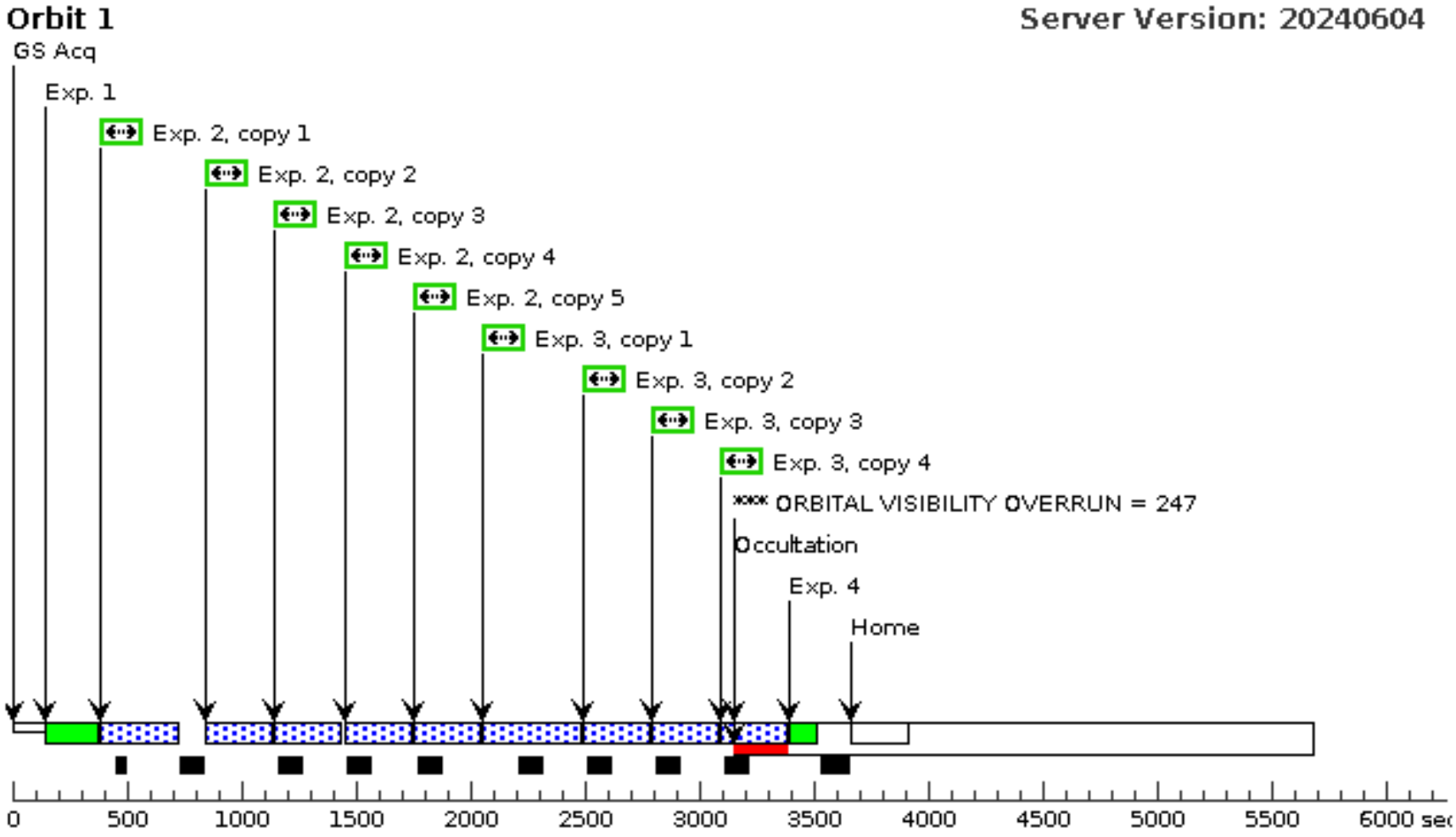
Comments: No ETC run performed. These are mainly targeted at instrumental background so are specified at the maximum exposure length on targets, not a specific SN target. ETC number is made up to reduce the number of yellow exclamation points I have to look at.

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
3	N7023 Background (STIS.sp.15 35954)	(6) NGC7023BACKGROUND	STIS/NUV-MAMA, ACCUM, 52X2	G230L 2376 A	WAVECAL=NO			278 Secs X 4 (1112 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]*	***[1]***

Comments: No ETC run performed. These are mainly targeted at instrumental background so are specified at the maximum exposure length on targets, not a specific SN target. ETC number is made up to reduce the number of yellow exclamation points I have to look at.

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
4	Manual Wavecal	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				*[==>]*	***[1]***

Orbit Structure



Proposal 16747 - N7023, G430L/G750L (10) - FUV-Optical Spectroscopic Mapping of the PDRs in NGC7023 and The Horsehead

Visit

Proposal 16747, N7023, G430L/G750L (10), completed Fri Aug 02 13:01:09 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: ORIENT 188D TO 188 D; ORIENT 8D TO 8 D

Diagnostics

(N7023, G430L/G750L (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(N7023, G430L/G750L (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(N7023, G430L/G750L (10)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(N7023, G430L/G750L (10)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(N7023, G430L/G750L (10)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(N7023, G430L/G750L (10)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(N7023, G430L/G750L (10)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(N7023, G430L/G750L (10)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(N7023, G430L/G750L (10)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(N7023, G430L/G750L (10)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	NGC7023	RA: 21 01 31.8800 (315.3828333d) Dec: +68 10 24.50 (68.17347d) Equinox: J2000		V=20+/-20	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=ISM
Description=[HII REGION, IONIZATION FRONT, MOLECULAR CLOUD, PDR]
Extended=YES

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	HD200775	RA: 21 01 36.9185 (315.4038271d) Dec: +68 09 47.77 (68.16327d) Equinox: J2000	Proper Motion RA: 8.336 mas/yr Proper Motion Dec: -1.566 mas/yr Epoch of Position: 2000	V=7.36+/-0.011	Reference Frame: ICRS

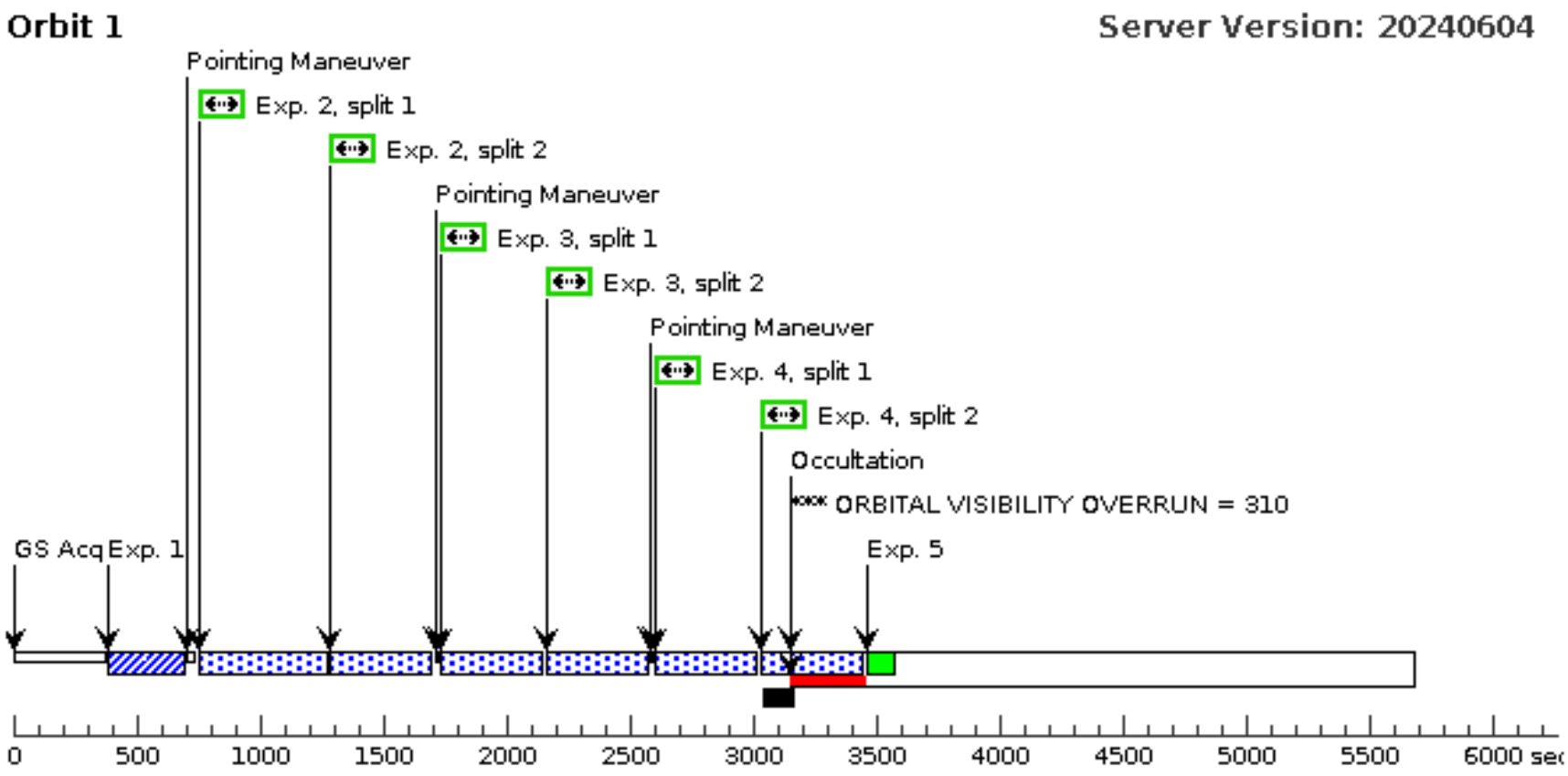
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Will be used for Target aquisition on NGC7023.
Category=EXT-STAR
Description=[B0-B2 V-IV]
Extended=NO

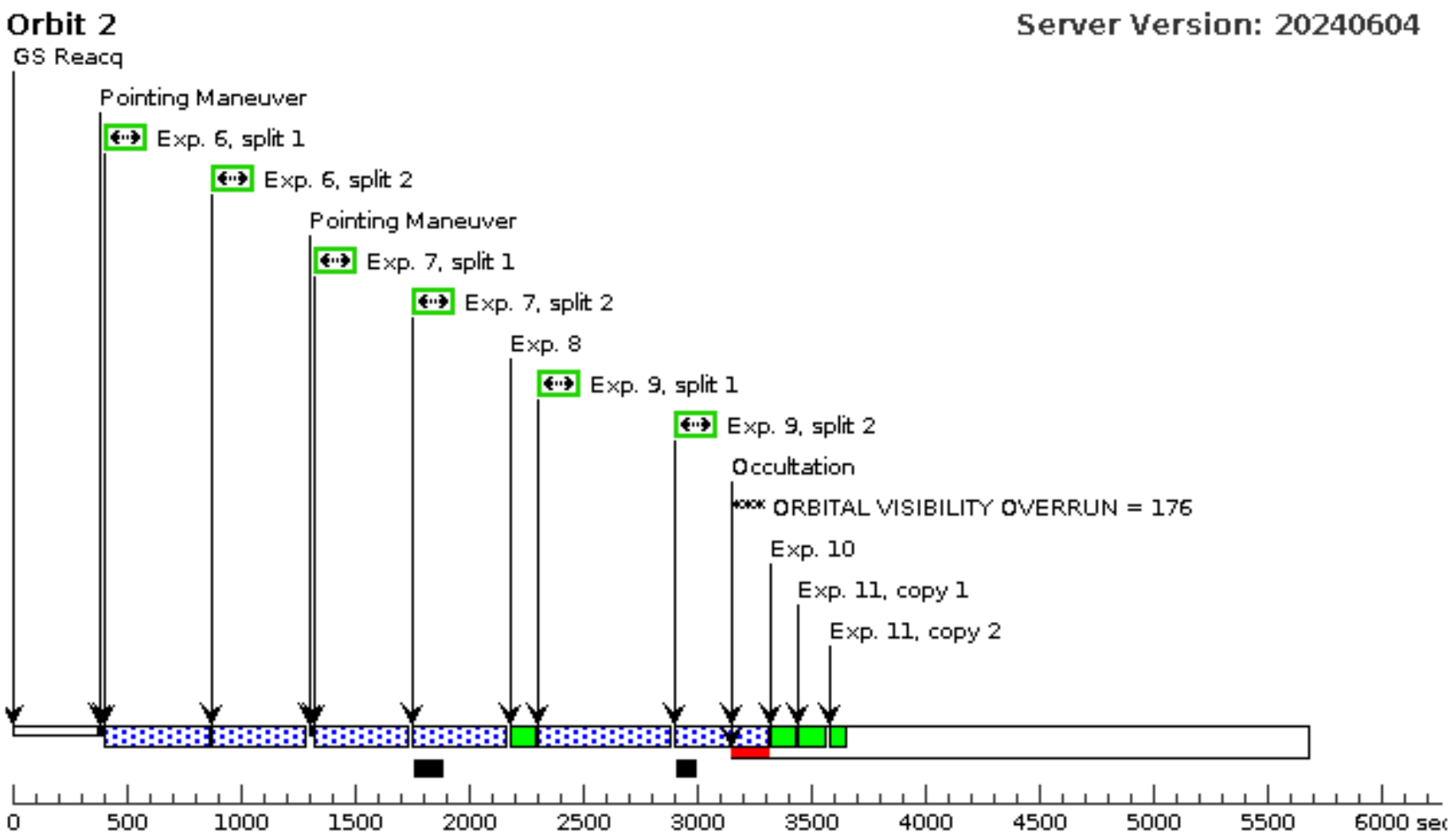
Exposures

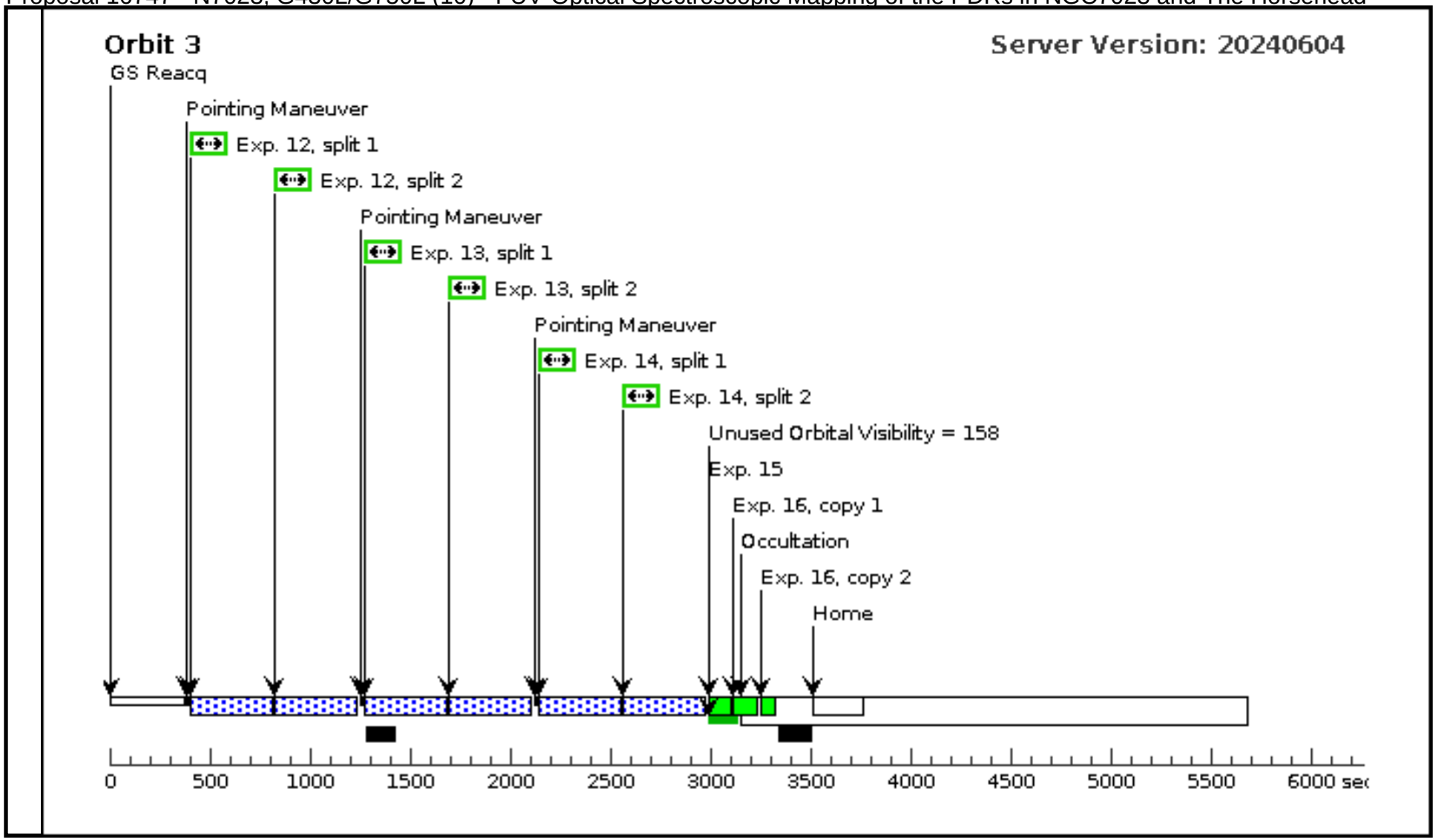
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.1535078)	(3) HD200775	STIS/CCD, ACQ, F25ND3	MIRROR				5 Secs (5 Secs) *[==>]*	***[1]***
Comments: SN 350									
2	no offset, center pos. G430L (STIS.sp.1536371)	(1) NGC7023	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=2; WAVECAL=NO			760 Secs (760 Secs) *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***
Comments: Total exposure time of 3040 seconds yields a S/N in the continuum is ~7. Line SN of 10-40. Spectral binning will be used in the continuum to increase SN.									
3	Offset, 0.5 G430L (STIS.sp.1536371)	(1) NGC7023	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=2; WAVECAL=NO	POS TARG 0.5,null		760 Secs (760 Secs) *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***
Comments: Total exposure time of 3040 seconds yields a S/N in the continuum is ~7. Line SN of 10-40. Spectral binning will be used in the continuum to increase SN.									
4	Offset -0.5, G430L (STIS.sp.1536371)	(1) NGC7023	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=2; WAVECAL=NO	POS TARG -0.5,null		760 Secs (760 Secs) *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***
Comments: Total exposure time of 3040 seconds yields a S/N in the continuum is ~7. Line SN of 10-40. Spectral binning will be used in the continuum to increase SN.									
5	Manual Wavecal	WAVE	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A				*[==>]*	***[1]***
6	Offset 1.5 G403L (STIS.sp.1536371)	(1) NGC7023	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=2; WAVECAL=NO	POS TARG 1.5,null		760 Secs (760 Secs) *[==>(Split 1)]* *[==>(Split 2)]*	***[2]***
Comments: Total exposure time of 3040 seconds yields a S/N in the continuum is ~7. Line SN of 10-40. Spectral binning will be used in the continuum to increase SN.									
7	Offset -1.5, G430L (STIS.sp.1536371)	(1) NGC7023	STIS/CCD, ACCUM, 52X2	G430L 4300 A	CR-SPLIT=2; WAVECAL=NO	POS TARG -1.5,null		760 Secs (760 Secs) *[==>(Split 1)]* *[==>(Split 2)]*	***[2]***
Comments: Total exposure time of 3040 seconds yields a S/N in the continuum is ~7. Line SN of 10-40. Spectral binning will be used in the continuum to increase SN.									
8	Manual Wavecal	WAVE	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A				*[==>]*	***[2]***
9	Offset -1.5, G750L (STIS.sp.1536373)	(1) NGC7023	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=2; WAVECAL=NO	POS TARG -1.5,null		756 Secs (756 Secs) *[==>(Split 1)]* *[==>(Split 2)]*	***[2]***
Comments: Total exposure time of 3024 seconds yields a S/N in the continuum is ~8-9. Line SN of ~15-50.									
10	Manual Wavecal	WAVE	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A				*[==>]*	***[2]***
11	Fringe Flat	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A				*[==>(Copy 1)]* *[==>(Copy 2)]*	***[2]***
12	Offset -0.5, G750L (STIS.sp.1536373)	(1) NGC7023	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=2; WAVECAL=NO	POS TARG -0.5,null		756 Secs (756 Secs) *[==>(Split 1)]* *[==>(Split 2)]*	***[3]***
Comments: Total exposure time of 3024 seconds yields a S/N in the continuum is ~8-9. Line SN of ~15-50.									

13	Offset, 0.5, G750L (STIS.sp.15 36373)	(1) NGC7023	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=2; WAVECAL=NO	POS TARG 0.5,null	756 Secs (756 Secs) *[==>(Split 1)]* *[==>(Split 2)]*	***[3]***
Comments: Total exposure time of 3024 seconds yields a S/N in the continuum is ~8-9. Line SN of ~15-50.								
14	Offset 1.5, G750L (STIS.sp.15 36373)	(1) NGC7023	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=2; WAVECAL=NO	POS TARG 1.5,null	756 Secs (756 Secs) *[==>(Split 1)]* *[==>(Split 2)]*	***[3]***
Comments: Total exposure time of 3024 seconds yields a S/N in the continuum is ~8-9. Line SN of ~15-50.								
15	Manual Wav ecal	WAVE	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A			*[==>]*	***[3]***
16	Fringe Flat	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A			*[==>(Copy 1)]* *[==>(Copy 2)]*	***[3]***

Orbit Structure




Orbit 2
Server Version: 20240604
GS Reacq
Pointing Maneuver
Exp. 6, split 1
Exp. 6, split 2
Pointing Maneuver
Exp. 7, split 1
Exp. 7, split 2
Exp. 8
Exp. 9, split 1
Exp. 9, split 2
Occultation
**** ORBITAL VISIBILITY OVERRUN = 176
Exp. 10
Exp. 11, copy 1
Exp. 11, copy 2
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 3
Server Version: 20240604
GS Reacq
Pointing Maneuver
Exp. 12, split 1
Exp. 12, split 2
Pointing Maneuver
Exp. 13, split 1
Exp. 13, split 2
Pointing Maneuver
Exp. 14, split 1
Exp. 14, split 2
Unused Orbital Visibility = 158
Exp. 15
Exp. 16, copy 1
Occultation
Exp. 16, copy 2
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 16747, N7023, Optical backgrounds (11), completed Fri Aug 02 13:01:09 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: (none)

Diagnostics

(N7023, Optical backgrounds (11)) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronography with STIS or COS.

(N7023, Optical backgrounds (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

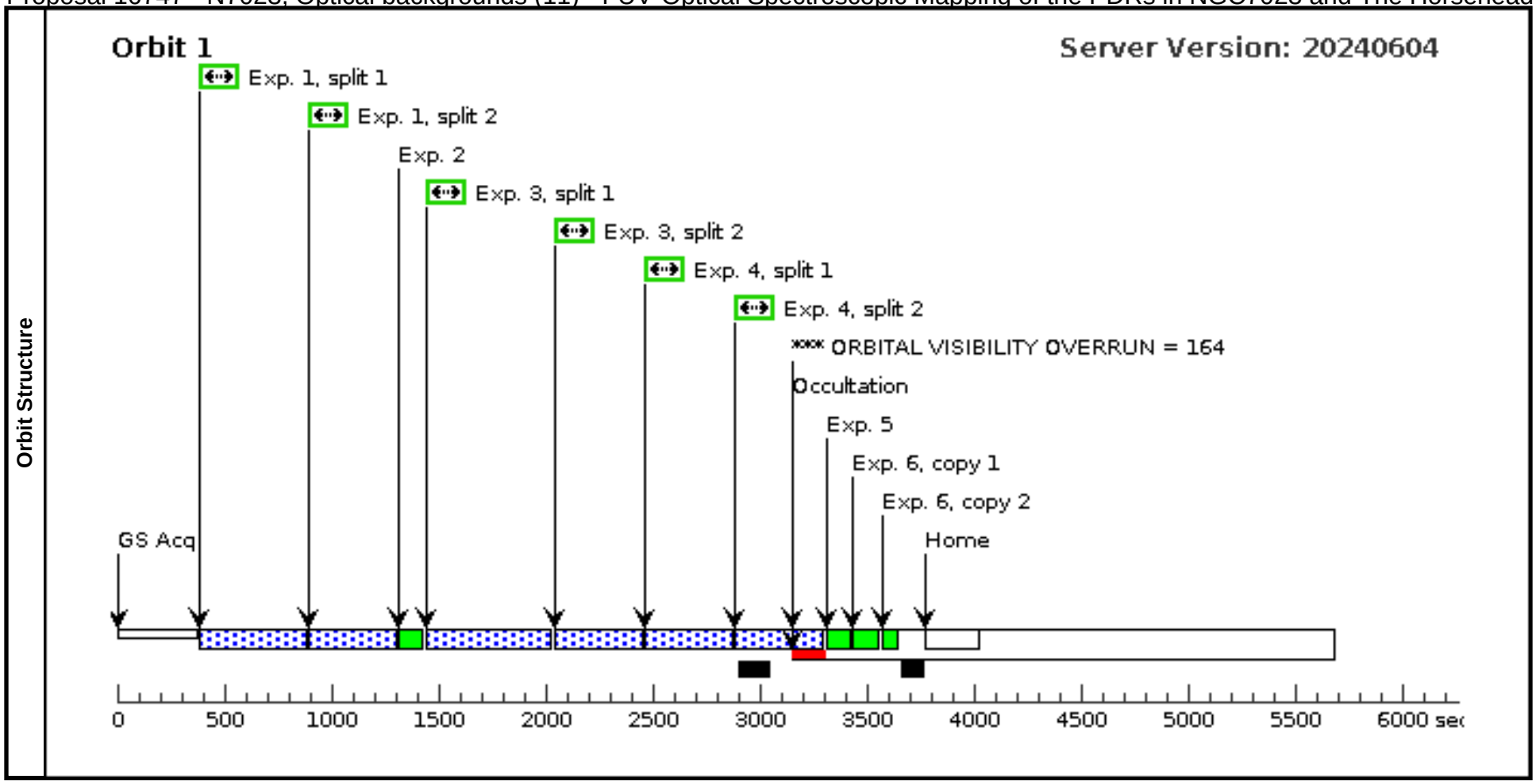
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	NGC7023BACKGROUND	RA: 21 00 16.1800 (315.0674167d) Dec: +68 20 25.10 (68.34031d) Equinox: J2000		V=15	Reference Frame: ICRS

Comments: Background region selected from Gallex image to monitor instrumental background/stability.
Category=CALIBRATION
Description=[UNDESIGNATED]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Background (STIS.sp.15 35955)	(6) NGC7023BACKGROUND	STIS/CCD, ACCUM, 52X2	G430L 4300 A	WAVECAL=NO			760 Secs (760 Secs) *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***
2	Manual Wavecal	WAVE	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A				*[==>]*	***[1]***
3	Background (STIS.sp.15 36373)	(6) NGC7023BACKGROUND	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=2; WAVECAL=NO			760 Secs (760 Secs) *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***
4	Background (STIS.sp.15 36373)	(6) NGC7023BACKGROUND	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=2; WAVECAL=NO			760 Secs (760 Secs) *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***
5	Manual Wavecal	WAVE	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A				*[==>]*	***[1]***
6	Fringe Flat	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A				*[==>(Copy 1)]* *[==>(Copy 2)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20240604
Exp. 1, split 1
Exp. 1, split 2
Exp. 2
Exp. 3, split 1
Exp. 3, split 2
Exp. 4, split 1
Exp. 4, split 2
*** ORBITAL VISIBILITY OVERRUN = 164
Occultation
Exp. 5
Exp. 6, copy 1
Exp. 6, copy 2
Home
GS Acq
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 16747, Horsehead, G140L, part 1 (12), completed Fri Aug 02 13:01:09 GMT 2024

Diagnostic Status: Warning

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

Special Requirements: ORIENT 301D TO 301 D; ORIENT 121D TO 121 D

Diagnostics

(Horsehead, G140L, part 1 (12)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Horsehead, G140L, part 1 (12)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

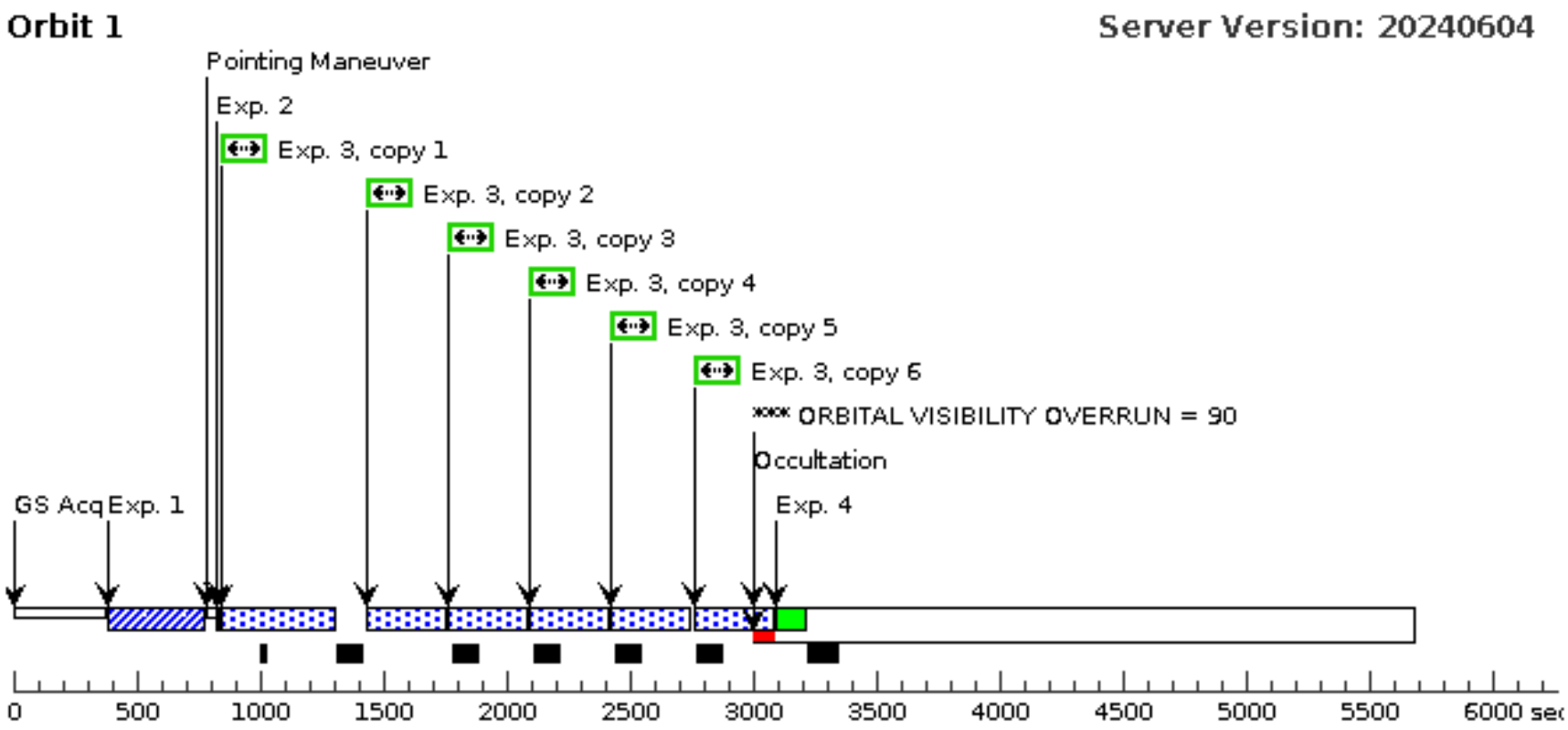
Fixed Targets

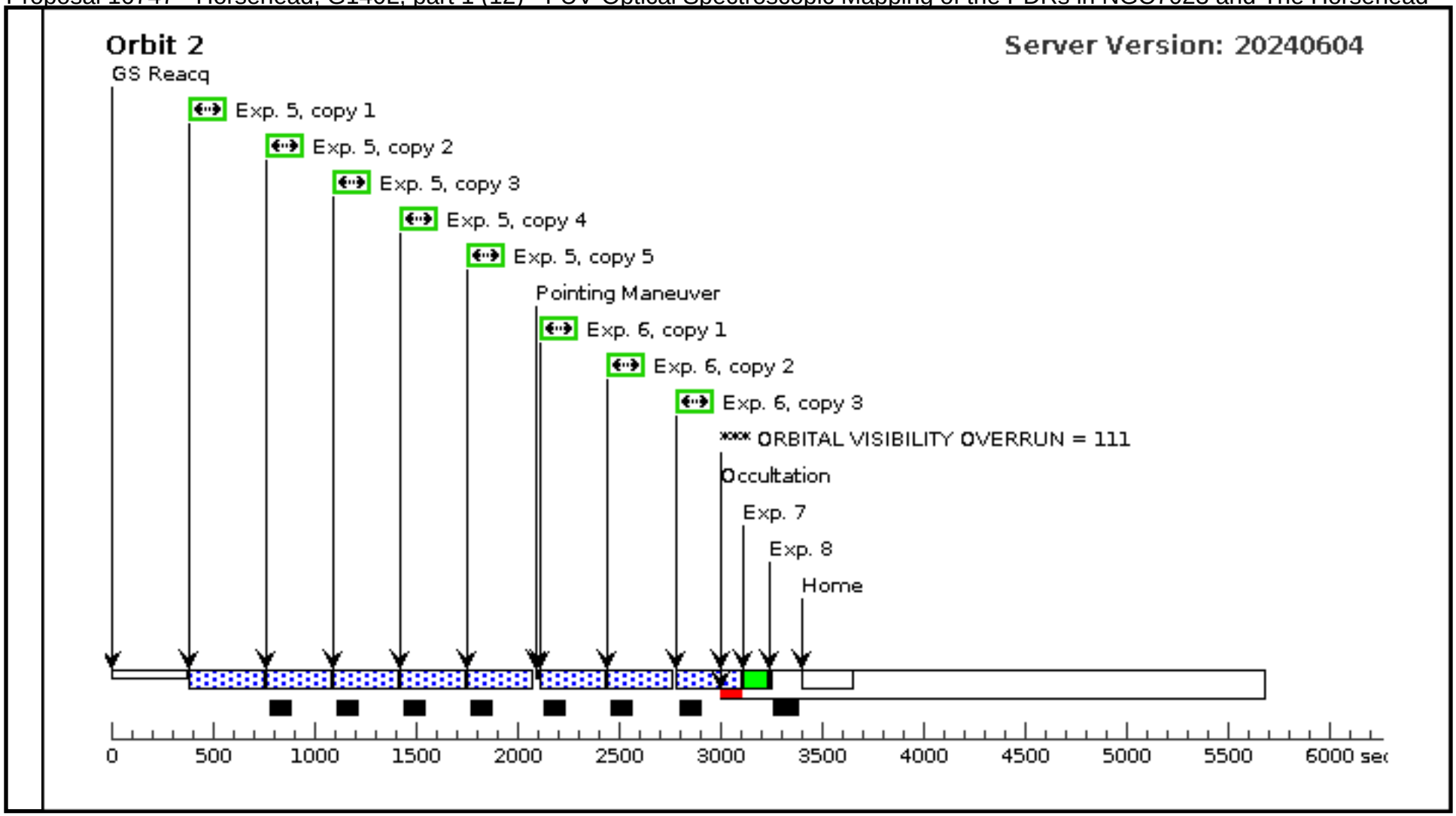
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	HORSEHEAD	RA: 05 40 53.6500 (85.2235417d) Dec: -02 28 4.30 (-2.46786d) Equinox: J2000		V=20+/-20	Reference Frame: ICRS
Comments: *Category=ISM* *Description=[HII REGION, IONIZATION FRONT, MOLECULAR CLOUD, PDR]* *Extended=YES*					
(5)	MSJ2009L1630MIR14	RA: 05 40 49.6002 (85.2066675d) Dec: -02 28 56.22 (-2.48228d) Equinox: J2000	Proper Motion RA: 1.373 mas/yr Proper Motion Dec: 1.865 mas/yr Epoch of Position: 2000	V=12+/-1	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. *Category=EXT-STAR* *Description=[A0-A3 III-I]* *Extended=NO*					

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.1535128)	(5) MSJ2009L1630 MIR14	STIS/CCD, ACQ, F25ND3	MIRROR				25 Secs (25 Secs) *[==>]*	***[1]***
	Comments: No specrtral type for L1630MIR-14. Assume M2V, use J=9.703 (2mass) to normalize. Assume E(B-V)=0.1 Go for longer than you might expect! 10 seconds predicts SN of 50 with ND3, go for 25 seconds. (~80 SN)								
2	MSOFF ZERO	NONE	STIS, MSMOFF		SETOFFSET=ZERO; GRATING1=ALL			*[==>]*	***[1]***
3	Horsehead 6 repeats, 0.5 offset (STIS.sp.1535935)	(2) HORSEHEAD	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A	WAVECAL=NO	POS TARG 0.5,3.5		310 Secs X 6 (1860 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]*	***[1]***
	Comments: WIth total exposure time of 7880 seconds, SN in contiuum is ~4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.								
4	Manual Wavecal	WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				*[==>]*	***[1]***
5	Horsehead 5 repeats, 0.5 offset (STIS.sp.1535935)	(2) HORSEHEAD	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A	WAVECAL=NO	POS TARG 0.5,3.5		310 Secs X 5 (1550 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]*	***[2]***
	Comments: WIth total exposure time of 7880 seconds, SN in contiuum is ~4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.								
6	Horsehead 3 repeats, -0.5 offset (STIS.sp.1535935)	(2) HORSEHEAD	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A	WAVECAL=NO	POS TARG -0.5,3.5		310 Secs X 3 (930 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]*	***[2]***
	Comments: WIth total exposure time of 7880 seconds, SN in contiuum is ~4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.								
7	Manual Wavecal	WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				*[==>]*	***[2]***
8	MSOFF Restore	NONE	STIS, MSMOFF		GRATING1=ALL; SETOFFSET=RESTORE			*[==>]*	***[2]***

Orbit Structure




Orbit 2
Server Version: 20240604
GS Reacq
Exp. 5, copy 1
Exp. 5, copy 2
Exp. 5, copy 3
Exp. 5, copy 4
Exp. 5, copy 5
Pointing Maneuver
Exp. 6, copy 1
Exp. 6, copy 2
Exp. 6, copy 3
*** ORBITAL VISIBILITY OVERRUN = 111
Occultation
Exp. 7
Exp. 8
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 16747, Horsehead, G140L, part 2 (13), completed Fri Aug 02 13:01:09 GMT 2024

Diagnostic Status: Warning

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

Special Requirements: ORIENT 301D TO 301 D; ORIENT 121D TO 121 D

Diagnostics

(Horsehead, G140L, part 2 (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(Horsehead, G140L, part 2 (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(Horsehead, G140L, part 2 (13)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G140L, part 2 (13)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G140L, part 2 (13)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G140L, part 2 (13)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G140L, part 2 (13)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G140L, part 2 (13)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

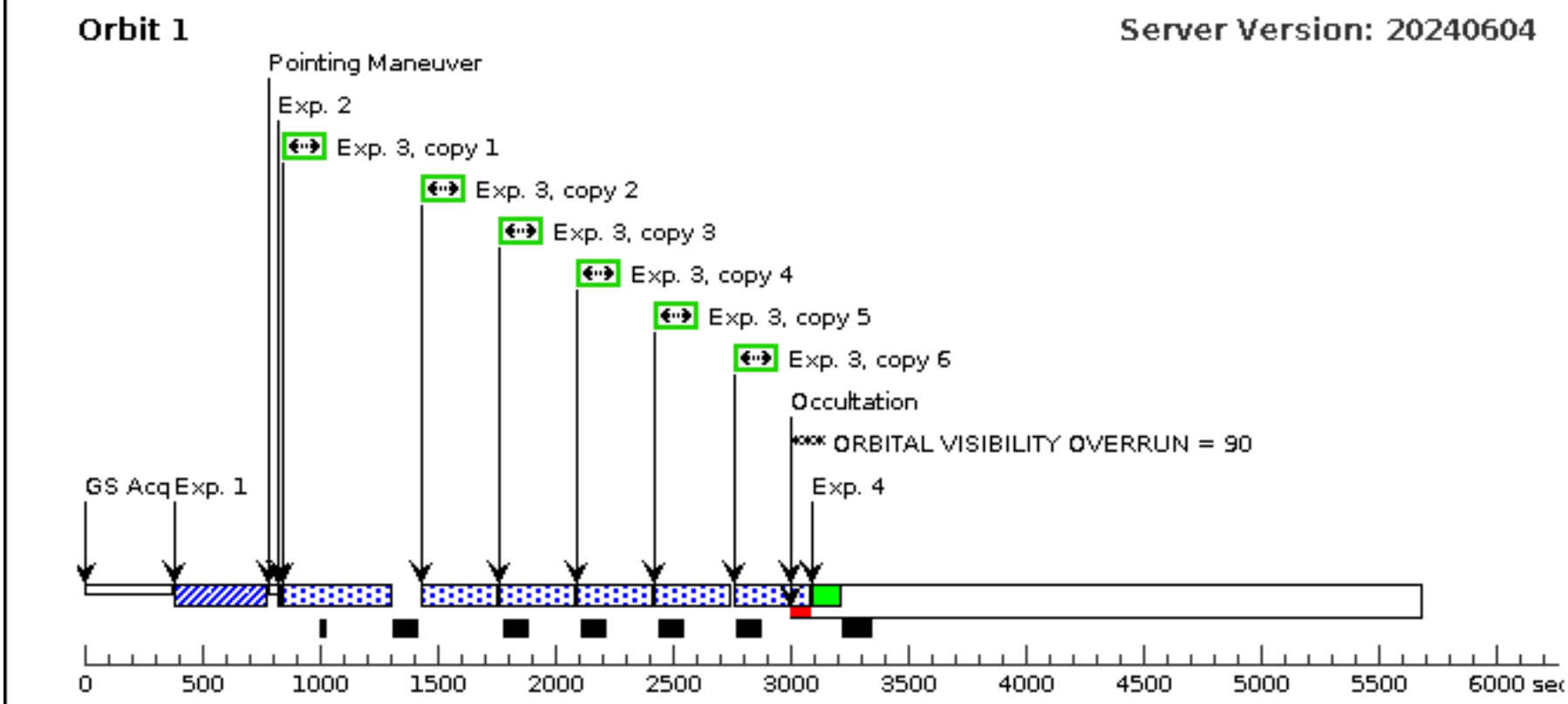
Fixed Targets

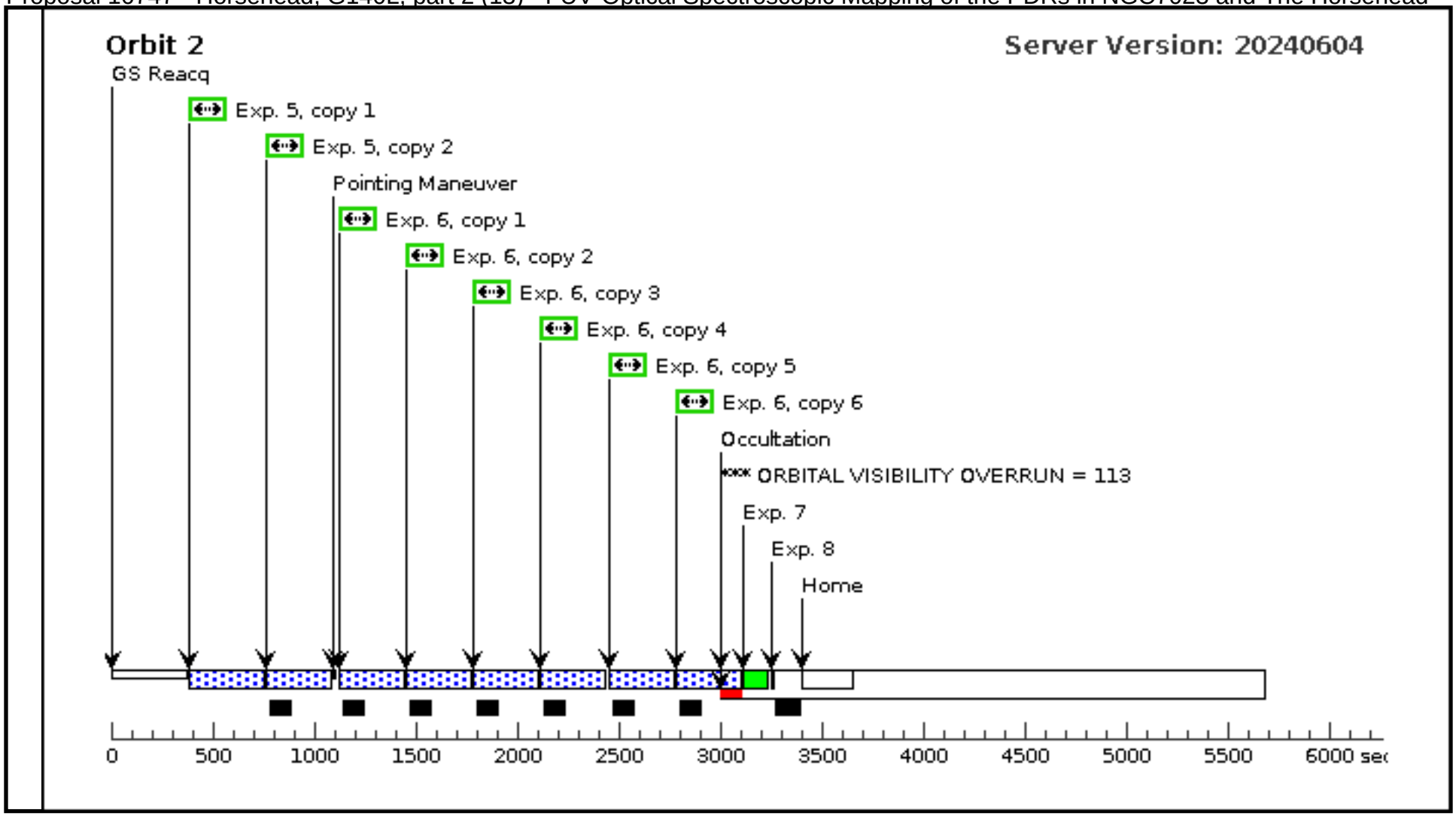
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	HORSEHEAD	RA: 05 40 53.6500 (85.2235417d) Dec: -02 28 4.30 (-2.46786d) Equinox: J2000		V=20+/-20	Reference Frame: ICRS
Comments: Category=ISM Description=[HII REGION, IONIZATION FRONT, MOLECULAR CLOUD, PDR] Extended=YES					
(5)	MSJ2009L1630MIR14	RA: 05 40 49.6002 (85.2066675d) Dec: -02 28 56.22 (-2.48228d) Equinox: J2000	Proper Motion RA: 1.373 mas/yr Proper Motion Dec: 1.865 mas/yr Epoch of Position: 2000	V=12+/-1	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=EXT-STAR Description=[A0-A3 III-I] Extended=NO					

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.1535128)	(5) MSJ2009L1630 MIR14	STIS/CCD, ACQ, F25ND3	MIRROR				25 Secs (25 Secs) *[==>]*	***[1]***
	Comments: No specrtral type for L1630MIR-14. Assume M2V, use J=9.703 (2mass) to normalize. Assume E(B-V)=0.1 Go for longer than you might expect! 10 seconds predicts SN of 50 with ND3, go for 25 seconds. (~80 SN)								
2	MSOFF ZERO	NONE	STIS, MSMOFF		SETOFFSET=ZERO; GRATING1=ALL			*[==>]*	***[1]***
3	Horsehead 6 repeats, -0.5 offset (STIS.sp.1535935)	(2) HORSEHEAD	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A	WAVECAL=NO	POS TARG -0.5,3.5		310 Secs X 6 (1860 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]*	***[1]***
	Comments: WIth total exposure time of 7880 seconds, SN in contiuum is ~4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.								
4	Manual Wavecal	WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				*[==>]*	***[1]***
5	Horsehead 2 repeats, -0.5 offset (STIS.sp.1535935)	(2) HORSEHEAD	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A	WAVECAL=NO	POS TARG -0.5,3.5		310 Secs X 2 (620 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]*	***[2]***
	Comments: WIth total exposure time of 7880 seconds, SN in contiuum is ~4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.								
6	Horsehead 6 repeats, 1.5 offset (STIS.sp.1535935)	(2) HORSEHEAD	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A	WAVECAL=NO	POS TARG 1.5,3.5		310 Secs X 6 (1860 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]*	***[2]***
	Comments: WIth total exposure time of 7880 seconds, SN in contiuum is ~4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.								
7	Manual Wavecal	WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				*[==>]*	***[2]***
8	MSOFF Restore	NONE	STIS, MSMOFF		GRATING1=ALL; SETOFFSET=RESTORE			*[==>]*	***[2]***

Orbit Structure




Orbit 2
Server Version: 20240604
GS Reacq
Exp. 5, copy 1
Exp. 5, copy 2
Pointing Maneuver
Exp. 6, copy 1
Exp. 6, copy 2
Exp. 6, copy 3
Exp. 6, copy 4
Exp. 6, copy 5
Exp. 6, copy 6
Occultation
*** ORBITAL VISIBILITY OVERRUN = 113
Exp. 7
Exp. 8
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 16747, Horsehead, G140L, part 3 (23), completed Fri Aug 02 13:01:09 GMT 2024

Diagnostic Status: Warning

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

Special Requirements: ORIENT 301D TO 301 D; ORIENT 121D TO 121 D

Diagnostics

(Horsehead, G140L, part 3 (23)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(Horsehead, G140L, part 3 (23)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(Horsehead, G140L, part 3 (23)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G140L, part 3 (23)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G140L, part 3 (23)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G140L, part 3 (23)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G140L, part 3 (23)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G140L, part 3 (23)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G140L, part 3 (23)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G140L, part 3 (23)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G140L, part 3 (23)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G140L, part 3 (23)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G140L, part 3 (23)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G140L, part 3 (23)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G140L, part 3 (23)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G140L, part 3 (23)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	HORSEHEAD	RA: 05 40 53.6500 (85.2235417d) Dec: -02 28 4.30 (-2.46786d) Equinox: J2000		V=20+/-20	Reference Frame: ICRS

Comments:
Category=ISM
Description=[HII REGION, IONIZATION FRONT, MOLECULAR CLOUD, PDR]
Extended=YES

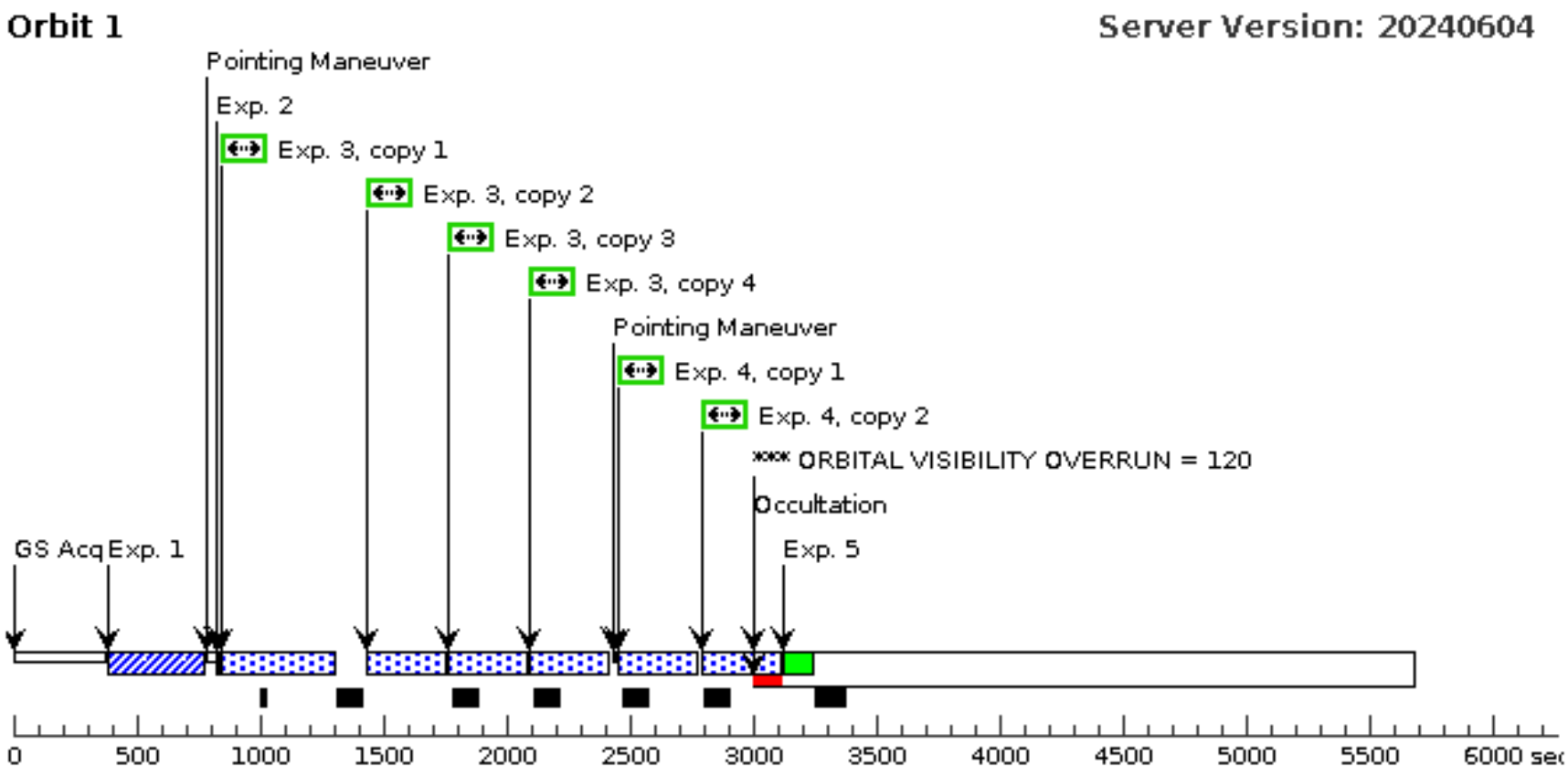
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	MSJ2009L1630MIR14	RA: 05 40 49.6002 (85.2066675d) Dec: -02 28 56.22 (-2.48228d) Equinox: J2000	Proper Motion RA: 1.373 mas/yr Proper Motion Dec: 1.865 mas/yr Epoch of Position: 2000	V=12+/-1	Reference Frame: ICRS

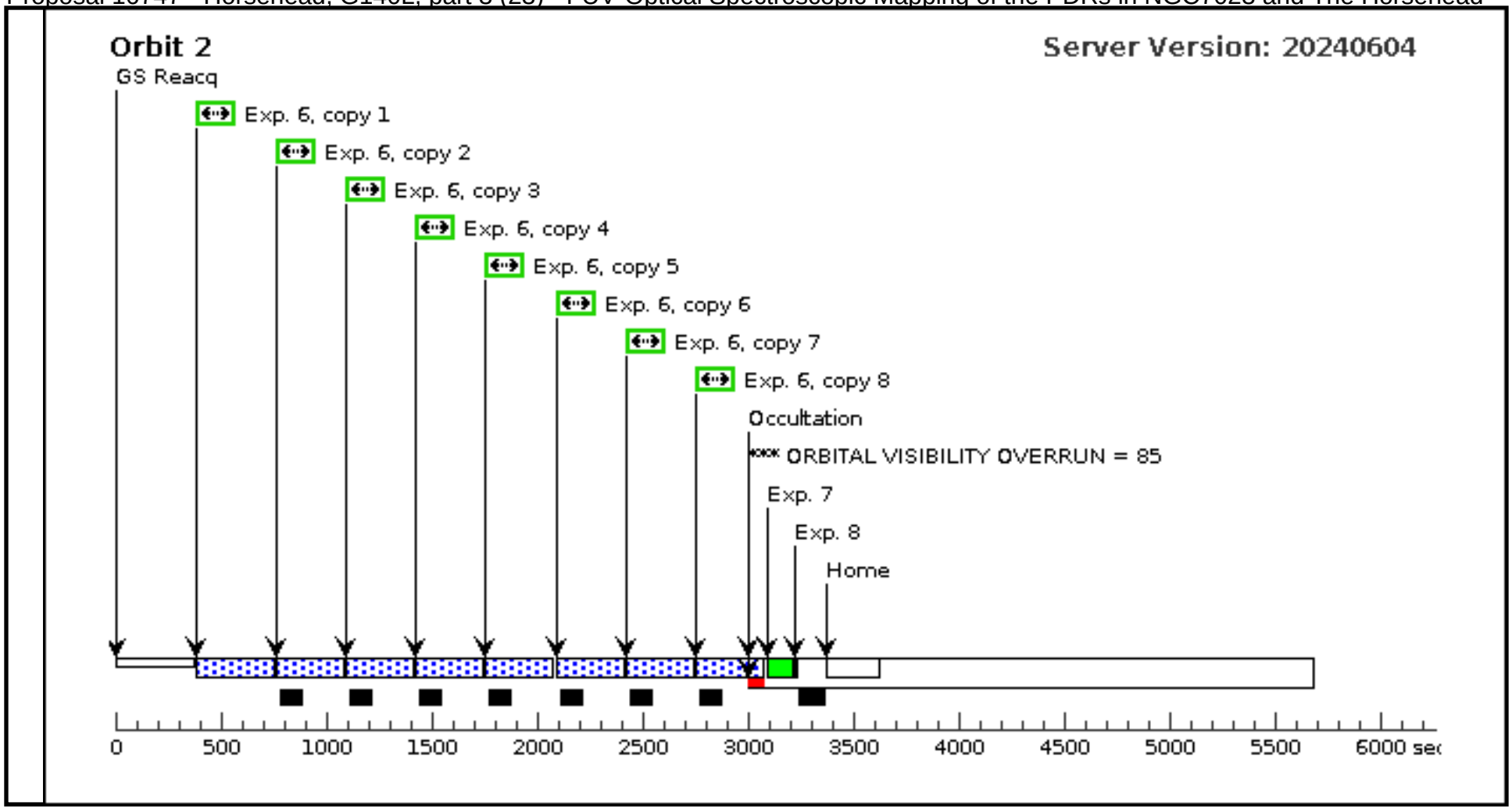
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=EXT-STAR
Description=[A0-A3 III-I]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.1535128)	(5) MSJ2009L1630 MIR14	STIS/CCD, ACQ, F25ND3	MIRROR				25 Secs (25 Secs) *[==>]*	***[1]***
	Comments: No specrtral type for L1630MIR-14. Assume M2V, use J=9.703 (2mass) to normalize. Assume E(B-V)=0.1 Go for longer than you might expect! 10 seconds predicts SN of 50 with ND3, go for 25 seconds. (~80 SN)								
2	MSOFF ZERO	NONE	STIS, MSMOFF		SETOFFSET=ZERO; GRATING1=ALL			*[==>]*	***[1]***
3	Horsehead 4 repeats, 1.5 offset (STIS.sp.1535935)	(2) HORSEHEAD	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A	WAVECAL=NO	POS TARG 1.5,3.5		310 Secs X 4 (1240 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]*	***[1]***
	Comments: WIth total exposure time of 7880 seconds, SN in contiuum is ~4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.								
4	Horsehead 2 repeats, -1.5 offset (STIS.sp.1535935)	(2) HORSEHEAD	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A	WAVECAL=NO	POS TARG -1.5,3.5		310 Secs X 2 (620 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]*	***[1]***
	Comments: WIth total exposure time of 7880 seconds, SN in contiuum is ~4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.								
5	Manual Wavecal	WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				*[==>]*	***[1]***
6	Horsehead 8 repeats, -1.5 offset (STIS.sp.1535935)	(2) HORSEHEAD	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A	WAVECAL=NO	POS TARG -1.5,3.5		310 Secs X 8 (2480 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	***[2]***
	Comments: WIth total exposure time of 7880 seconds, SN in contiuum is ~4. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.								
7	Manual Wavecal	WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				*[==>]*	***[2]***
8	MSOFF Restore	NONE	STIS, MSMOFF		GRATING1=ALL; SETOFFSET=RESTORE			*[==>]*	***[2]***

Orbit Structure




Orbit 2
Server Version: 20240604
GS Reacq
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
Occultation
**** ORBITAL VISIBILITY OVERRUN = 85
Exp. 7
Exp. 8
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 16747, Horsehead, G230L, part 1 (14), completed Fri Aug 02 13:01:09 GMT 2024

Diagnostic Status: Warning

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

Special Requirements: ORIENT 301D TO 301 D; ORIENT 121D TO 121 D

Diagnostics

(Horsehead, G230L, part 1 (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Horsehead, G230L, part 1 (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Horsehead, G230L, part 1 (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

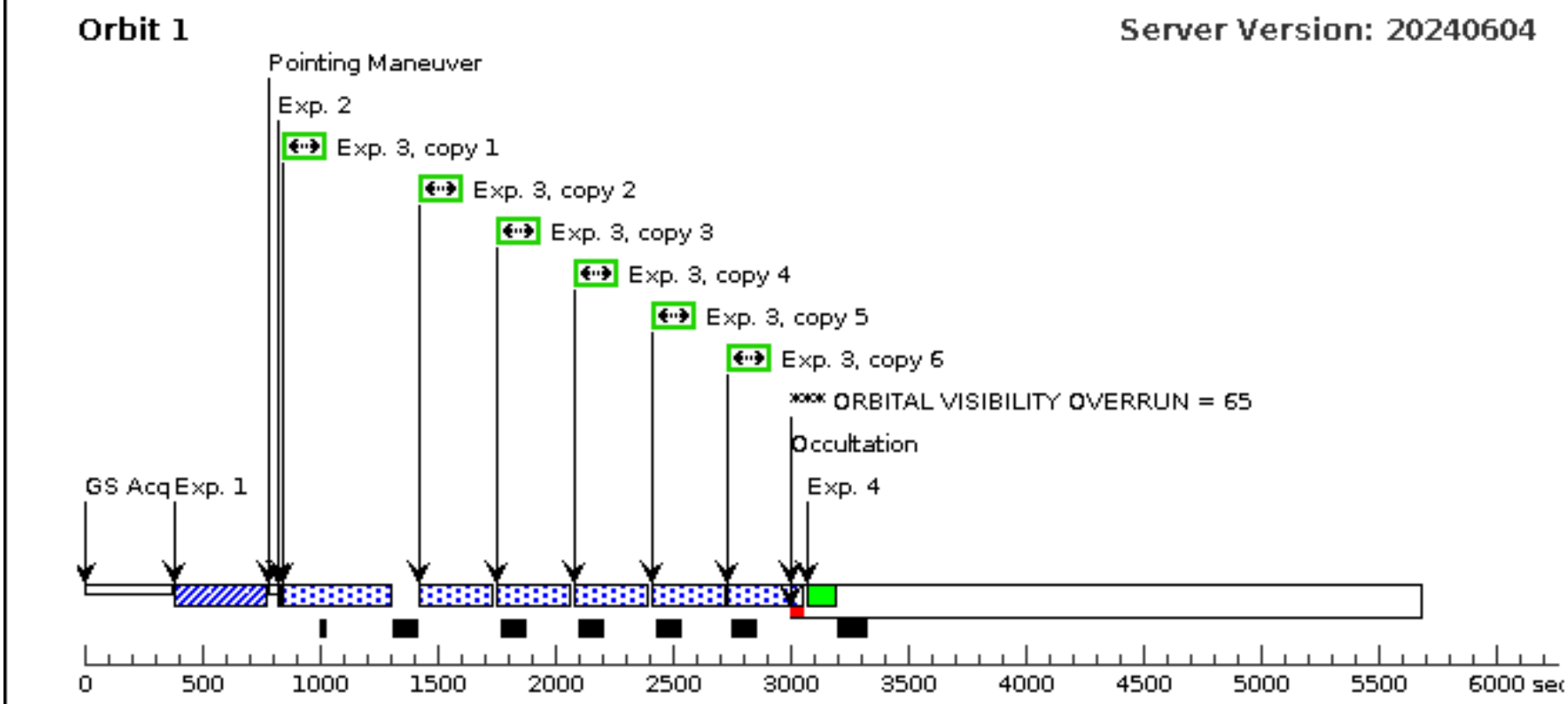
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	HORSEHEAD	RA: 05 40 53.6500 (85.2235417d) Dec: -02 28 4.30 (-2.46786d) Equinox: J2000		V=20+/-20	Reference Frame: ICRS
Comments: *Category=ISM* *Description=[HII REGION, IONIZATION FRONT, MOLECULAR CLOUD, PDR]* *Extended=YES*					
(5)	MSJ2009L1630MIR14	RA: 05 40 49.6002 (85.2066675d) Dec: -02 28 56.22 (-2.48228d) Equinox: J2000	Proper Motion RA: 1.373 mas/yr Proper Motion Dec: 1.865 mas/yr Epoch of Position: 2000	V=12+/-1	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. *Category=EXT-STAR* *Description=[A0-A3 III-I]* *Extended=NO*					

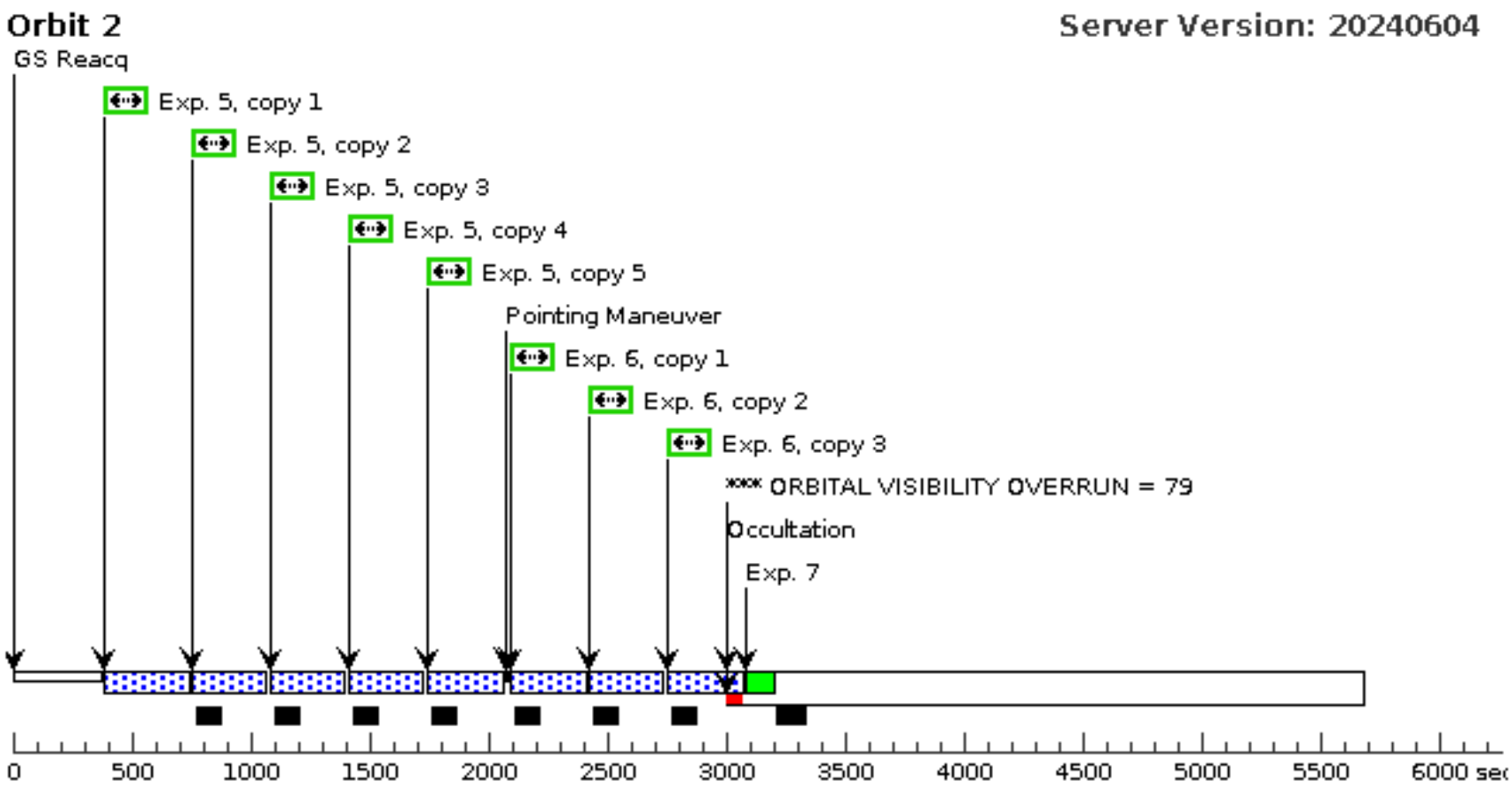
Exposures

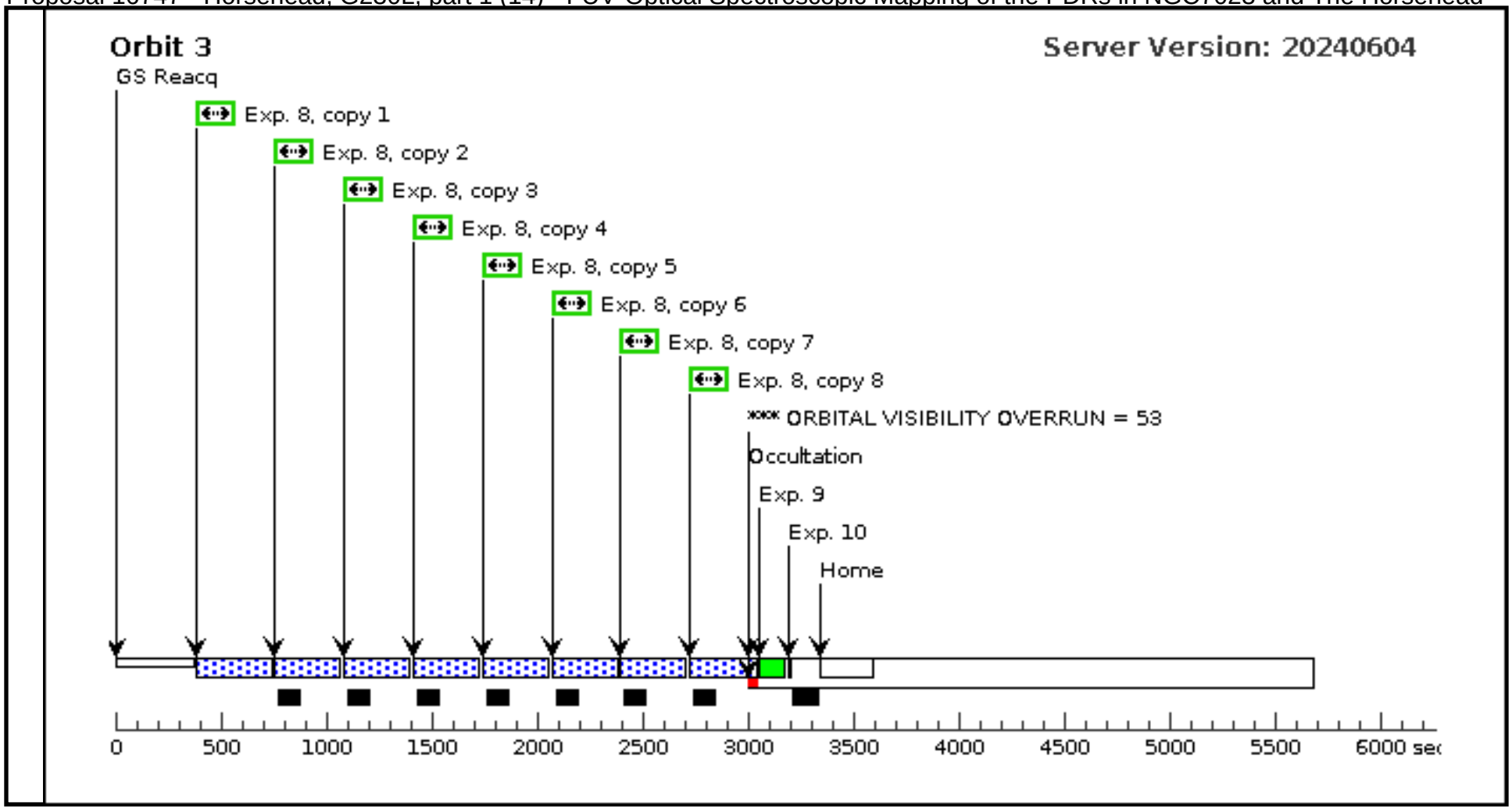
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.1535128)	(5) MSJ2009L1630 MIR14	STIS/CCD, ACQ, F25ND3	MIRROR				25 Secs (25 Secs) *[==>]*	*[1]*
	Comments: No specrtral type for L1630MIR-14. Assume M2V, use J=9.703 (2mass) to normalize. Assume E(B-V)=0.1 Go for longer than you might expect! 10 seconds predicts SN of 50 with ND3, go for 25 seconds. (~80 SN)								
2	MSOFF ZERO	NONE	STIS, MSMOFF		SETOFFSET=ZERO ; GRATING1=ALL			*[==>]*	*[1]*
3	Horsehead 6 repeats, 0.5 offset (STIS.sp.1535942)	(2) HORSEHEAD	STIS/NUV-MAMA, ACCUM, 52X2	G230L 2376 A	WAVECAL=NO	POS TARG 0.5,null		306 Secs X 6 (1836 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]*	*[1]*
	Comments: WIth total exposure time of 12240 seconds, SN in contiuum is 2-3 We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.								
4	Manual Wavecal	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				*[==>]*	*[1]*
5	Horsehead 5 repeats, 0.5 offset (STIS.sp.1535942)	(2) HORSEHEAD	STIS/NUV-MAMA, ACCUM, 52X2	G230L 2376 A	WAVECAL=NO	POS TARG 0.5,null		306 Secs X 5 (1530 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]*	*[2]*
	Comments: WIth total exposure time of 12240 seconds, SN in contiuum is 2-3 We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.								
6	Horsehead 3 repeats, -0.5 offset (STIS.sp.1535942)	(2) HORSEHEAD	STIS/NUV-MAMA, ACCUM, 52X2	G230L 2376 A	WAVECAL=NO	POS TARG -0.5,null		306 Secs X 3 (918 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]*	*[2]*
	Comments: WIth total exposure time of 12240 seconds, SN in contiuum is 2-3 We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.								
7	Manual Wavecal	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				*[==>]*	*[2]*
8	Horsehead 8 repeats, -0.5 offset (STIS.sp.1535942)	(2) HORSEHEAD	STIS/NUV-MAMA, ACCUM, 52X2	G230L 2376 A	WAVECAL=NO	POS TARG -0.5,null		306 Secs X 8 (2448 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	*[3]*
	Comments: WIth total exposure time of 12240 seconds, SN in contiuum is 2-3 We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.								
9	Manual Wavecal	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				*[==>]*	*[3]*

	10	MSOFF Restore	NONE	STIS, MSMOFF	GRATING1=ALL; SETOFFSET=RESTORE	*[==>]*	***[3]***

Orbit Structure




Orbit 2
Server Version: 20240604
GS Reacq
Exp. 5, copy 1
Exp. 5, copy 2
Exp. 5, copy 3
Exp. 5, copy 4
Exp. 5, copy 5
Pointing Maneuver
Exp. 6, copy 1
Exp. 6, copy 2
Exp. 6, copy 3
*** ORBITAL VISIBILITY OVERRUN = 79
Occultation
Exp. 7
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 3
Server Version: 20240604
GS Reacq
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
*** ORBITAL VISIBILITY OVERRUN = 53
Occultation
Exp. 9
Exp. 10
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 16747, Horsehead, G230L, part 2 (15), implementation Fri Aug 02 13:01:09 GMT 2024

Diagnostic Status: Warning

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

Special Requirements: ORIENT 301D TO 301 D; ORIENT 121D TO 121 D

Diagnostics

(Horsehead, G230L, part 2 (15)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G230L, part 2 (15)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G230L, part 2 (15)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
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(Horsehead, G230L, part 2 (15)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G230L, part 2 (15)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G230L, part 2 (15)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G230L, part 2 (15)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

Fixed Targets

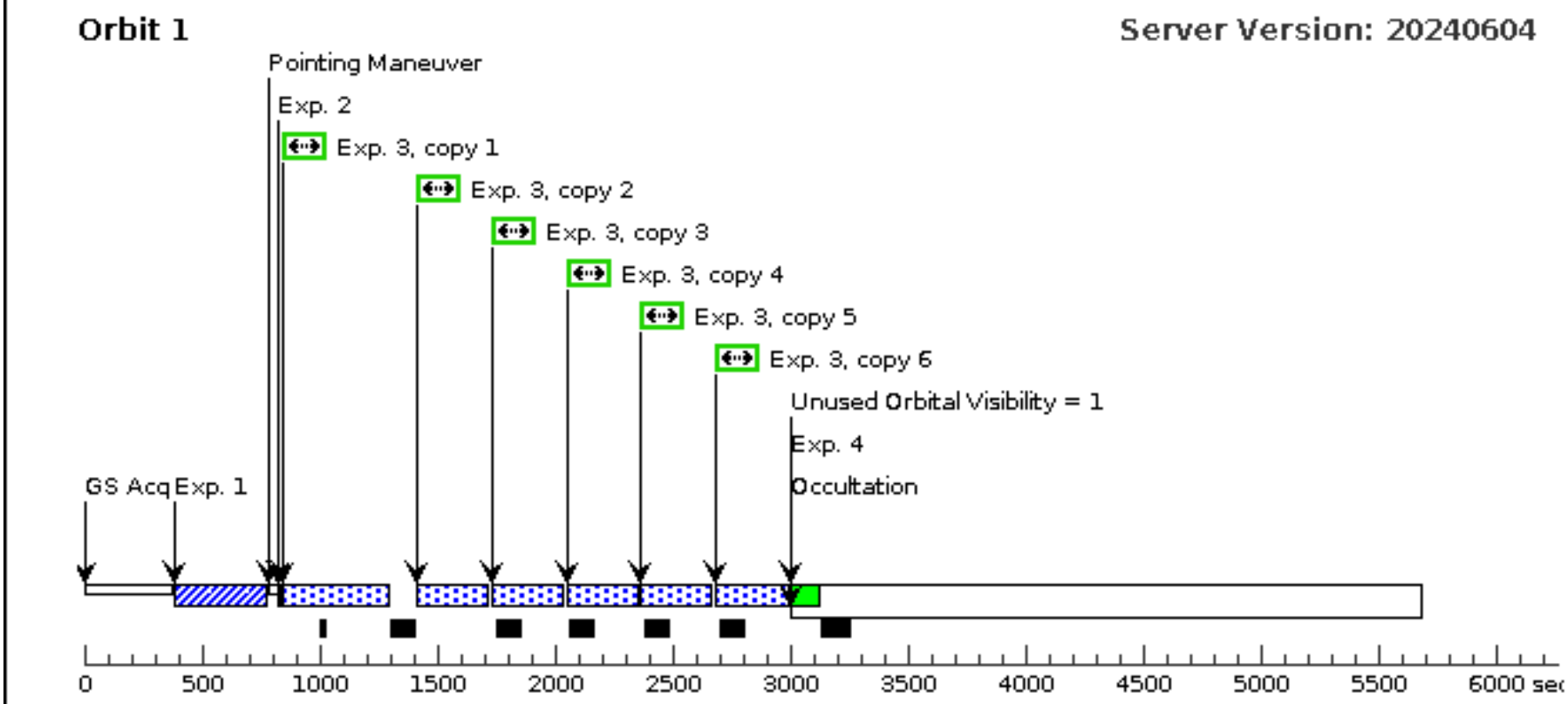
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	HORSEHEAD	RA: 05 40 53.6500 (85.2235417d) Dec: -02 28 4.30 (-2.46786d) Equinox: J2000		V=20+/-20	Reference Frame: ICRS
Comments: *Category=ISM* *Description=[HII REGION, IONIZATION FRONT, MOLECULAR CLOUD, PDR]* *Extended=YES*					
(5)	MSJ2009L1630MIR14	RA: 05 40 49.6002 (85.2066675d) Dec: -02 28 56.22 (-2.48228d) Equinox: J2000	Proper Motion RA: 1.373 mas/yr Proper Motion Dec: 1.865 mas/yr Epoch of Position: 2000	V=12+/-1	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. *Category=EXT-STAR* *Description=[A0-A3 III-I]* *Extended=NO*					

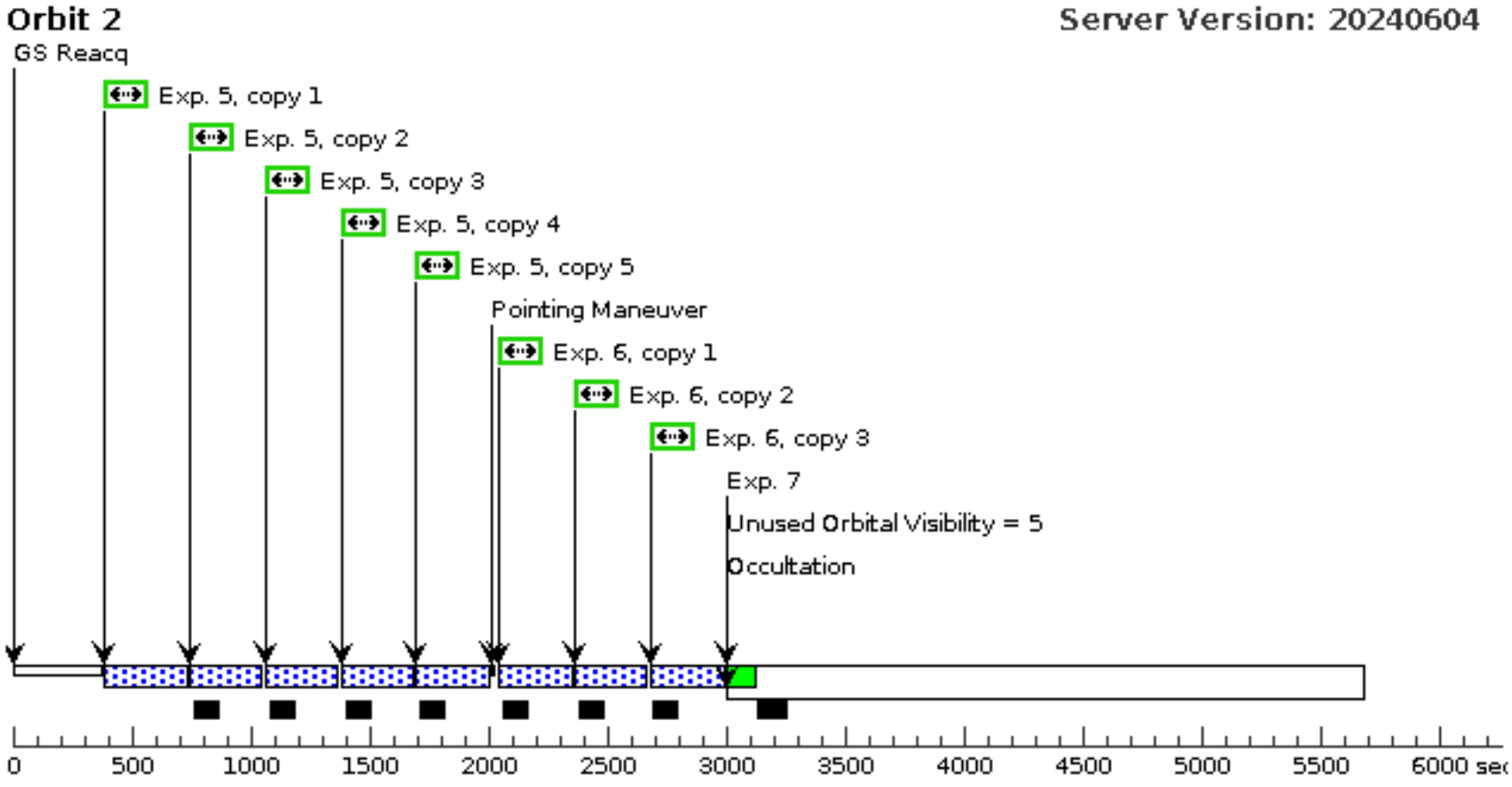
Exposures

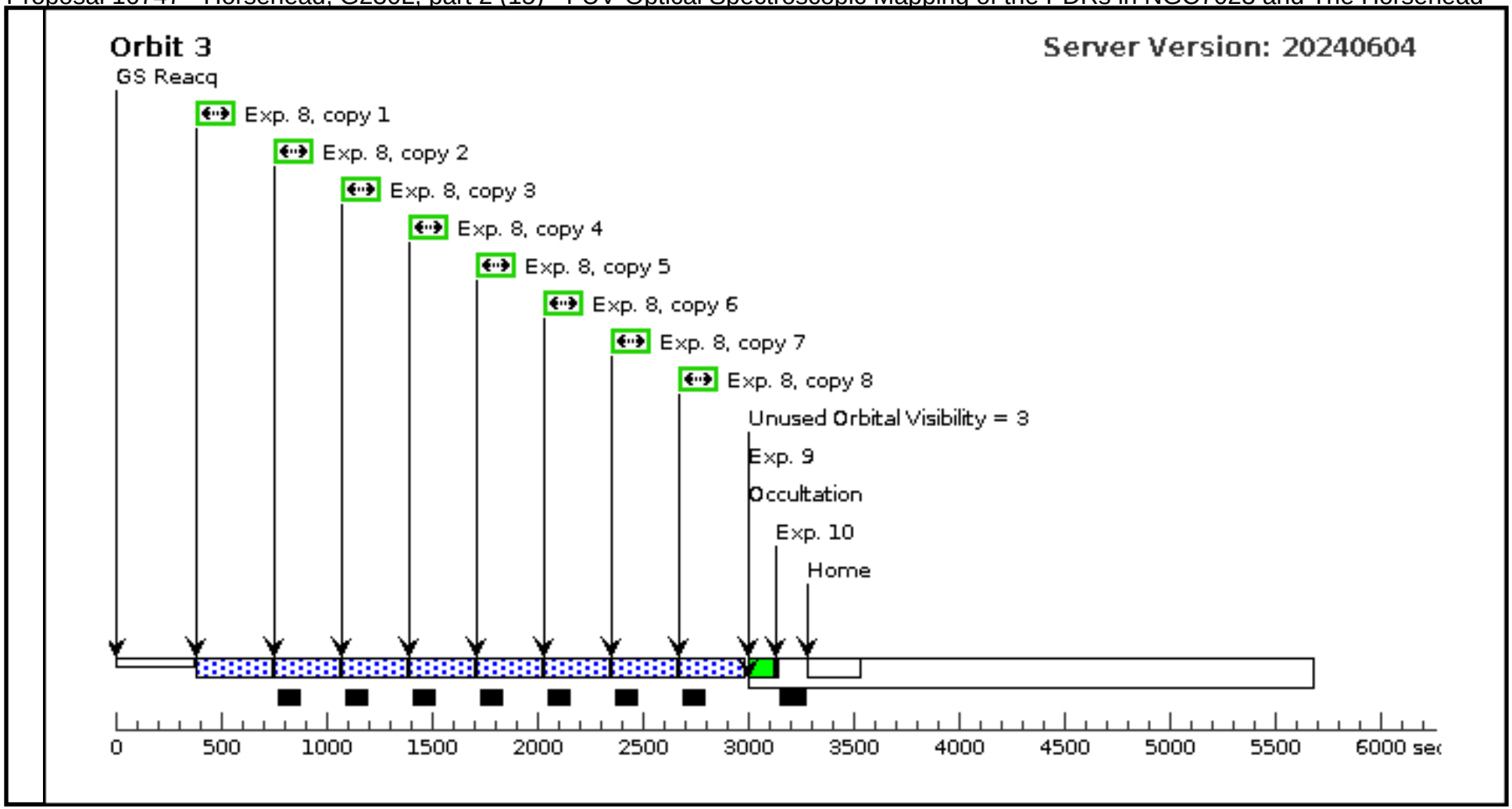
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.1535128)	(5) MSJ2009L1630 MIR14	STIS/CCD, ACQ, F25ND3	MIRROR				25 Secs (25 Secs) *[==>]*	***[1]***
	Comments: No specrtral type for L1630MIR-14. Assume M2V, use J=9.703 (2mass) to normalize. Assume E(B-V)=0.1 Go for longer than you might expect! 10 seconds predicts SN of 50 with ND3, go for 25 seconds. (~80 SN)								
2	MSOFF ZERO	NONE	STIS, MSMOFF		SETOFFSET=ZERO ; GRATING1=ALL			*[==>]*	***[1]***
3	Horsehead 6 repeats, 1.5 offset (STIS.sp.1535942)	(2) HORSEHEAD	STIS/NUV-MAMA, ACCUM, 52X2	G230L 2376 A	WAVECAL=NO	POS TARG 1.5,null		306 Secs X 6 (1770 Secs) *[==>295.0 Secs (Copy 1)]* *[==>295.0 Secs (Copy 2)]* *[==>295.0 Secs (Copy 3)]* *[==>295.0 Secs (Copy 4)]* *[==>295.0 Secs (Copy 5)]* *[==>295.0 Secs (Copy 6)]*	***[1]***
	Comments: WIth total exposure time of 12240 seconds, SN in contiuum is 2-3 We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.								
4	Manual Wavecal	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				*[==>]*	***[1]***
5	Horsehead 5 repeats, 1.5 offset (STIS.sp.1535942)	(2) HORSEHEAD	STIS/NUV-MAMA, ACCUM, 52X2	G230L 2376 A	WAVECAL=NO	POS TARG 1.5,null		306 Secs X 5 (1475 Secs) *[==>295.0 Secs (Copy 1)]* *[==>295.0 Secs (Copy 2)]* *[==>295.0 Secs (Copy 3)]* *[==>295.0 Secs (Copy 4)]* *[==>295.0 Secs (Copy 5)]*	***[2]***
	Comments: WIth total exposure time of 12240 seconds, SN in contiuum is 2-3 We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.								
6	Horsehead 3 repeats, -1.5 offset (STIS.sp.1535942)	(2) HORSEHEAD	STIS/NUV-MAMA, ACCUM, 52X2	G230L 2376 A	WAVECAL=NO	POS TARG -1.5,null		306 Secs X 3 (885 Secs) *[==>295.0 Secs (Copy 1)]* *[==>295.0 Secs (Copy 2)]* *[==>295.0 Secs (Copy 3)]*	***[2]***
	Comments: WIth total exposure time of 12240 seconds, SN in contiuum is 2-3 We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.								
7	Manual Wavecal	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				*[==>]*	***[2]***
8	Horsehead 8 repeats, -1.5 offset (STIS.sp.1535942)	(2) HORSEHEAD	STIS/NUV-MAMA, ACCUM, 52X2	G230L 2376 A	WAVECAL=NO	POS TARG -1.5,null		306 Secs X 8 (2392 Secs) *[==>299.0 Secs (Copy 1)]* *[==>299.0 Secs (Copy 2)]* *[==>299.0 Secs (Copy 3)]* *[==>299.0 Secs (Copy 4)]* *[==>299.0 Secs (Copy 5)]* *[==>299.0 Secs (Copy 6)]* *[==>299.0 Secs (Copy 7)]* *[==>299.0 Secs (Copy 8)]*	***[3]***
	Comments: WIth total exposure time of 12240 seconds, SN in contiuum is 2-3 We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.								
9	Manual Wavecal	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				*[==>]*	***[3]***

	10	MSOFF Restore	NONE	STIS, MSMOFF	GRATING1=ALL; SETOFFSET=RESTORE	*[==>]*	***[3]***

Orbit Structure




Orbit 2
Server Version: 20240604
GS Reacq
Exp. 5, copy 1
Exp. 5, copy 2
Exp. 5, copy 3
Exp. 5, copy 4
Exp. 5, copy 5
Pointing Maneuver
Exp. 6, copy 1
Exp. 6, copy 2
Exp. 6, copy 3
Exp. 7
Unused Orbital Visibility = 5
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 3
Server Version: 20240604
GS Reacq
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
Unused Orbital Visibility = 3
Exp. 9
Occultation
Exp. 10
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 16747, Horsehead, G430L, part 1 (17), completed Fri Aug 02 13:01:09 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: ORIENT 301D TO 301 D; ORIENT 121D TO 121 D

Diagnostics

(Horsehead, G430L, part 1 (17)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Horsehead, G430L, part 1 (17)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Horsehead, G430L, part 1 (17)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Horsehead, G430L, part 1 (17)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Horsehead, G430L, part 1 (17)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

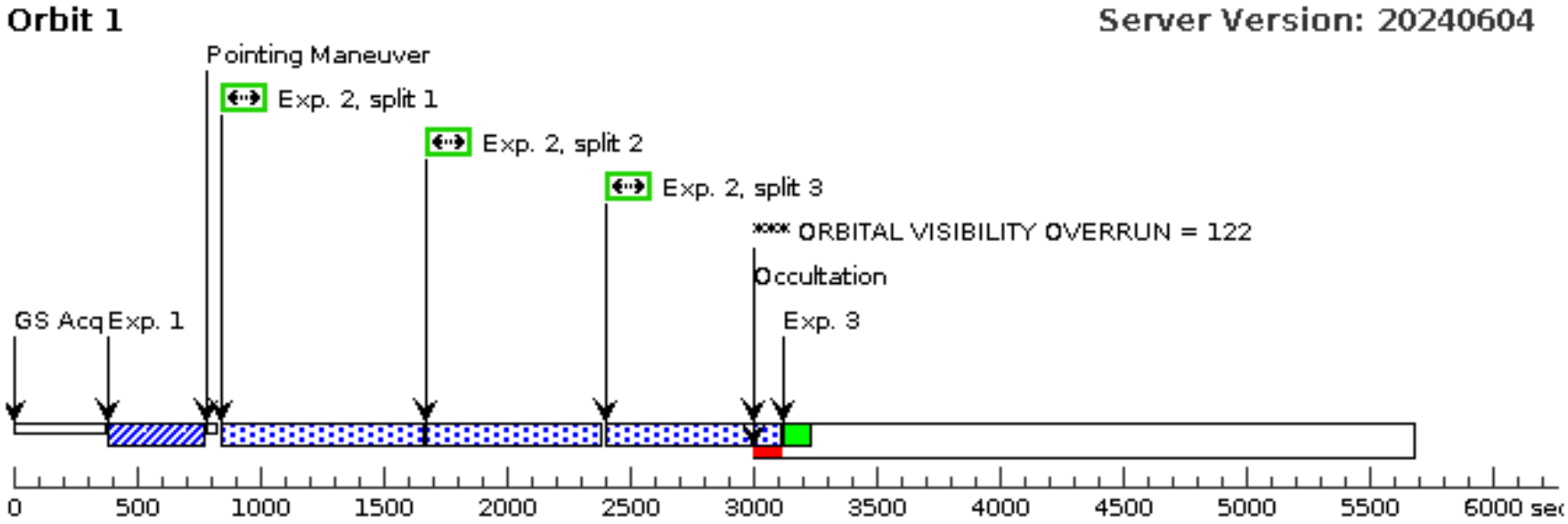
Fixed Targets

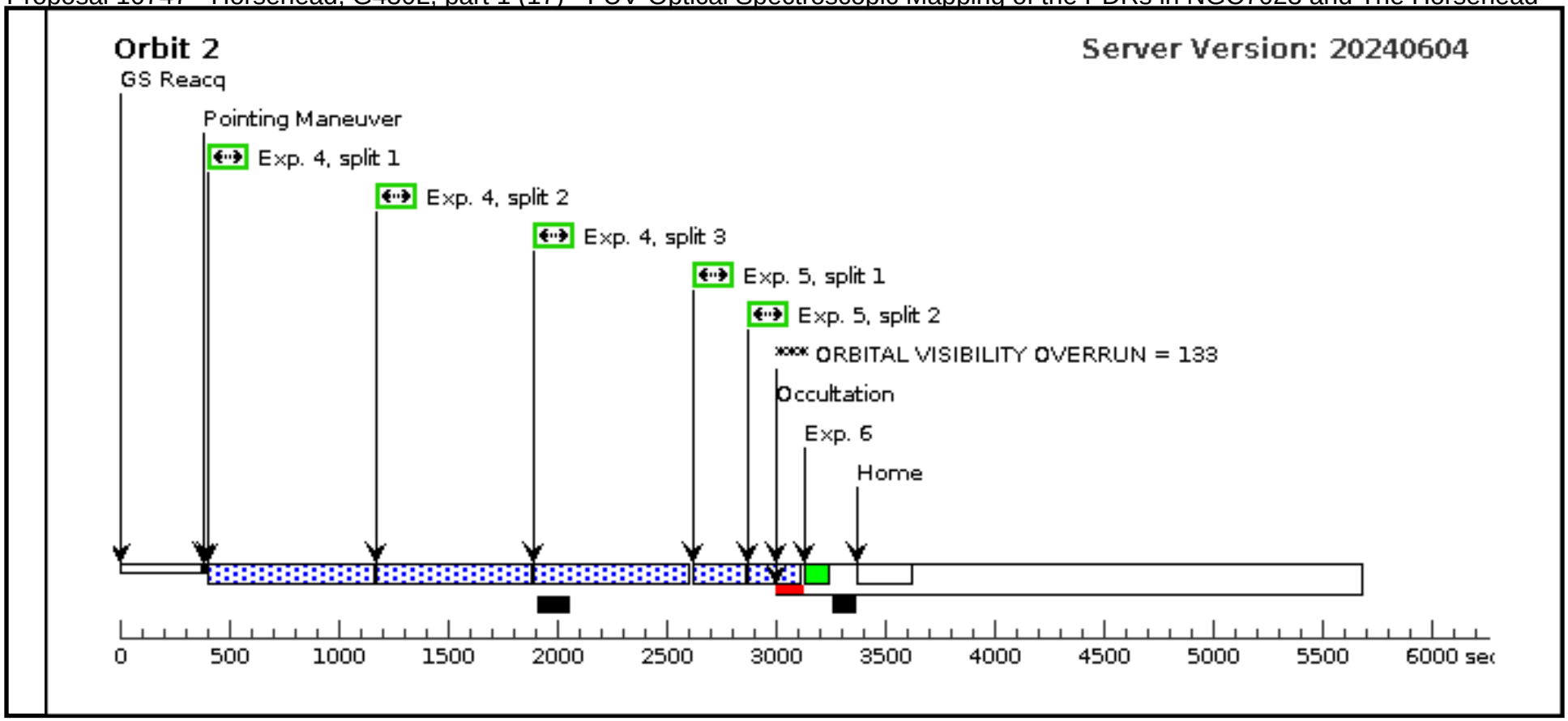
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	HORSEHEAD	RA: 05 40 53.6500 (85.2235417d) Dec: -02 28 4.30 (-2.46786d) Equinox: J2000		V=20+/-20	Reference Frame: ICRS
Comments: *Category=ISM* *Description=[HII REGION, IONIZATION FRONT, MOLECULAR CLOUD, PDR]* *Extended=YES*					
(5)	MSJ2009L1630MIR14	RA: 05 40 49.6002 (85.2066675d) Dec: -02 28 56.22 (-2.48228d) Equinox: J2000	Proper Motion RA: 1.373 mas/yr Proper Motion Dec: 1.865 mas/yr Epoch of Position: 2000	V=12+/-1	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. *Category=EXT-STAR* *Description=[A0-A3 III-I]* *Extended=NO*					

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.1535128)	(5) MSJ2009L1630 MIR14	STIS/CCD, ACQ, F25ND3	MIRROR				25 Secs (25 Secs) *[==>]*	***[1]***
Comments: No specrtral type for L1630MIR-14. Assume M2V, use J=9.703 (2mass) to normalize. Assume E(B-V)=0.1 Go for longer than you might expect! 10 seconds predicts SN of 50 with ND3, go for 25 seconds. (~80 SN)									
2	Horsehead 3 repeats, -1.5 offset (STIS.sp.1535943)	(2) HORSEHEAD	STIS/CCD, ACCUM, 52X2	G430L 4300 A	WAVECAL=NO; CR-SPLIT=3	POS TARG -1.5,null		2040 Secs (2040 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[1]***
Comments: WIth total exposure time of 7512 seconds, SN in contiuum is 3-5. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
3	Manual Wav ecal	WAVE	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A				*[==>]*	***[1]***
4	Horsehead 3 repeats, -0.5 offset (STIS.sp.1535943)	(2) HORSEHEAD	STIS/CCD, ACCUM, 52X2	G430L 4300 A	WAVECAL=NO; CR-SPLIT=3	POS TARG -0.5,null		2040 Secs (2040 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[2]***
Comments: WIth total exposure time of 7512 seconds, SN in contiuum is 3-5. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
5	Horsehead 2 SHORT rep eats, -0.5 off set (STIS.sp.1535943)	(2) HORSEHEAD	STIS/CCD, ACCUM, 52X2	G430L 4300 A	WAVECAL=NO	POS TARG -0.5,null		424 Secs (424 Secs) *[==>(Split 1)]* *[==>(Split 2)]*	***[2]***
Comments: WIth total exposure time of 7512 seconds, SN in contiuum is 3-5. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
6	Manual Wav ecal	WAVE	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A				*[==>]*	***[2]***

Orbit Structure




Orbit 2
Server Version: 20240604
GS Reacq
Pointing Maneuver
Exp. 4, split 1
Exp. 4, split 2
Exp. 4, split 3
Exp. 5, split 1
Exp. 5, split 2
*** ORBITAL VISIBILITY OVERRUN = 133
Occultation
Exp. 6
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 16747, Horsehead, G430L, part 2 (18), completed Fri Aug 02 13:01:09 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: ORIENT 301D TO 301 D; ORIENT 121D TO 121 D

Diagnostics

(Horsehead, G430L, part 2 (18)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Horsehead, G430L, part 2 (18)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Horsehead, G430L, part 2 (18)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Horsehead, G430L, part 2 (18)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Horsehead, G430L, part 2 (18)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

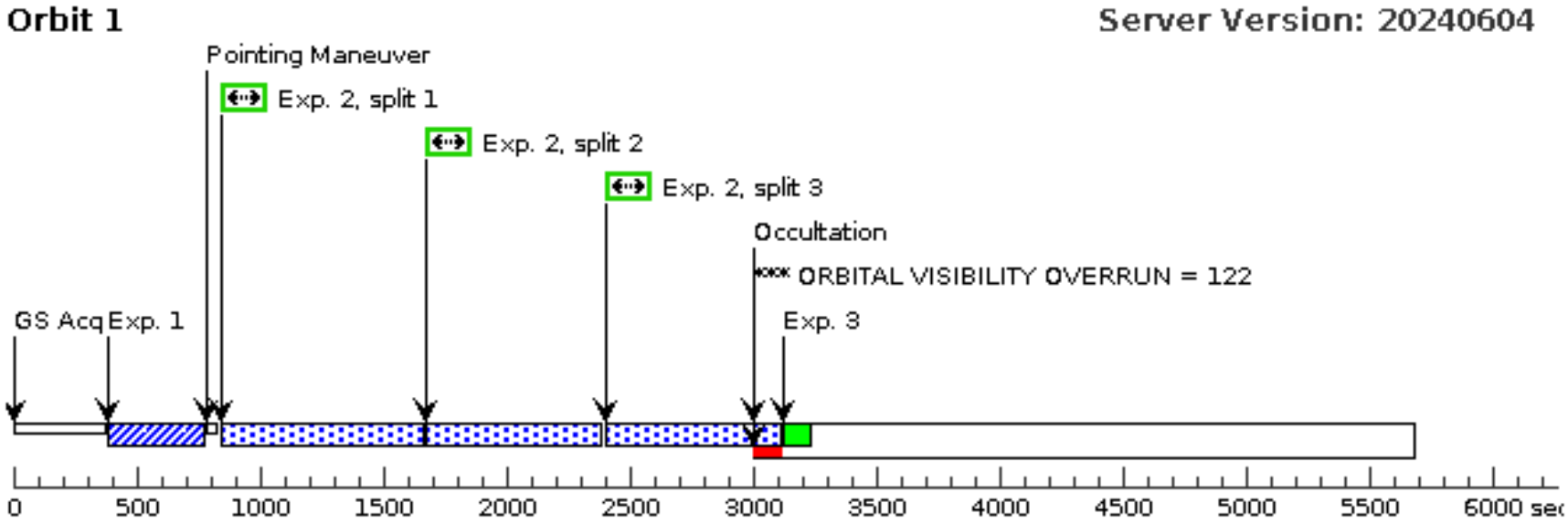
Fixed Targets

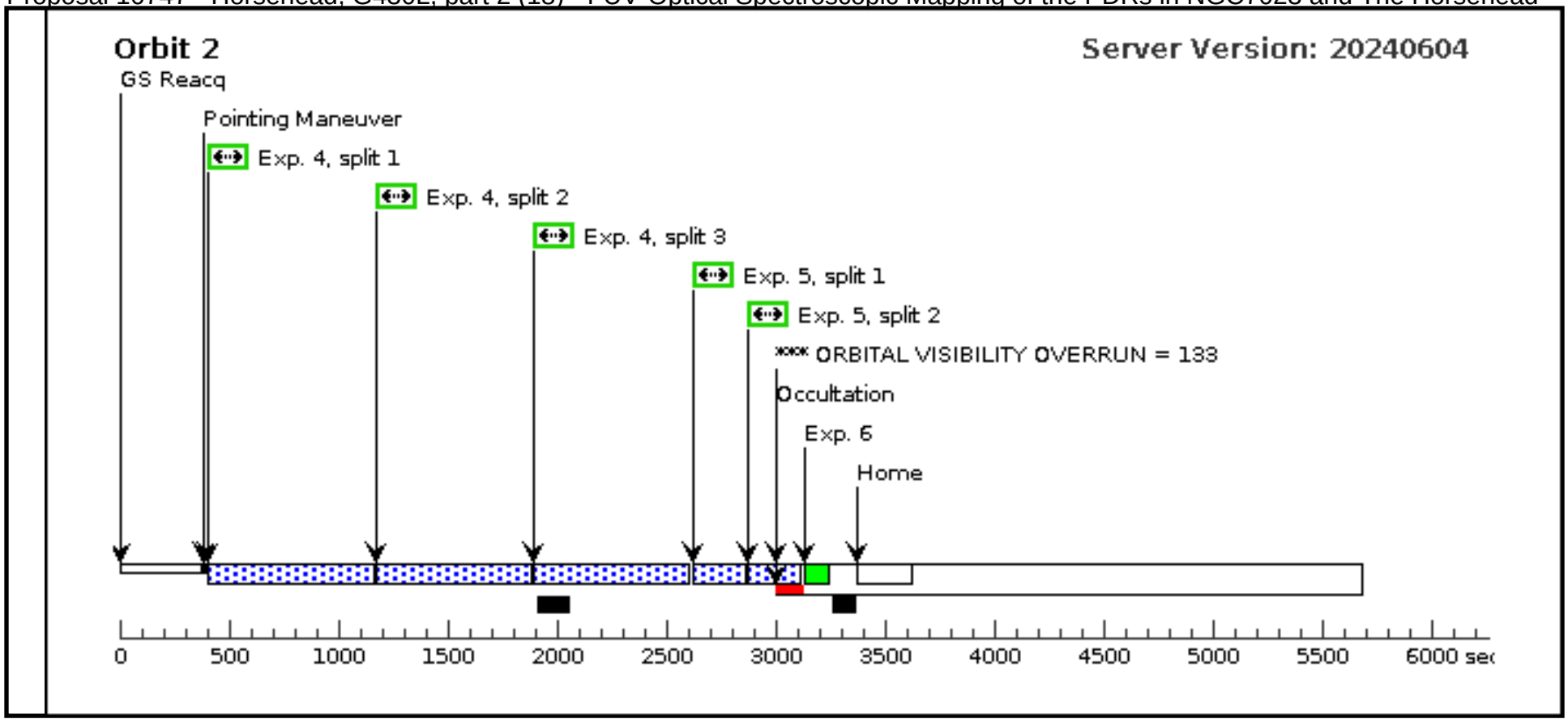
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	HORSEHEAD	RA: 05 40 53.6500 (85.2235417d) Dec: -02 28 4.30 (-2.46786d) Equinox: J2000		V=20+/-20	Reference Frame: ICRS
Comments: *Category=ISM* *Description=[HII REGION, IONIZATION FRONT, MOLECULAR CLOUD, PDR]* *Extended=YES*					
(5)	MSJ2009L1630MIR14	RA: 05 40 49.6002 (85.2066675d) Dec: -02 28 56.22 (-2.48228d) Equinox: J2000	Proper Motion RA: 1.373 mas/yr Proper Motion Dec: 1.865 mas/yr Epoch of Position: 2000	V=12+/-1	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. *Category=EXT-STAR* *Description=[A0-A3 III-I]* *Extended=NO*					

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.1535128)	(5) MSJ2009L1630 MIR14	STIS/CCD, ACQ, F25ND3	MIRROR				25 Secs (25 Secs) *[==>]*	***[1]***
Comments: No specrtral type for L1630MIR-14. Assume M2V, use J=9.703 (2mass) to normalize. Assume E(B-V)=0.1 Go for longer than you might expect! 10 seconds predicts SN of 50 with ND3, go for 25 seconds. (~80 SN)									
2	Horsehead 3 repeats, 1.5 offset (STIS.sp.1535943)	(2) HORSEHEAD	STIS/CCD, ACCUM, 52X2	G430L 4300 A	WAVECAL=NO; CR-SPLIT=3	POS TARG 1.5,null		2040 Secs (2040 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[1]***
Comments: WIth total exposure time of 7512 seconds, SN in contiuum is 3-5. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
3	Manual Wavecal	WAVE	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A				*[==>]*	***[1]***
4	Horsehead 3 repeats, 0.5 offset (STIS.sp.1535943)	(2) HORSEHEAD	STIS/CCD, ACCUM, 52X2	G430L 4300 A	WAVECAL=NO; CR-SPLIT=3	POS TARG 0.5,null		2040 Secs (2040 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[2]***
Comments: WIth total exposure time of 7512 seconds, SN in contiuum is 3-5. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
5	Horsehead 2 SHORT repeats, 0.5 offset (STIS.sp.1535943)	(2) HORSEHEAD	STIS/CCD, ACCUM, 52X2	G430L 4300 A	WAVECAL=NO	POS TARG 0.5,null		424 Secs (424 Secs) *[==>(Split 1)]* *[==>(Split 2)]*	***[2]***
Comments: WIth total exposure time of 7512 seconds, SN in contiuum is 3-5. We will bin spectrally (and spatially if necessary to read a SN ~< 10. SN in any lines will be higher will not be binned.									
6	Manual Wavecal	WAVE	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A				*[==>]*	***[2]***

Orbit Structure




Orbit 2
Server Version: 20240604
GS Reacq
Pointing Maneuver
Exp. 4, split 1
Exp. 4, split 2
Exp. 4, split 3
Exp. 5, split 1
Exp. 5, split 2
*** ORBITAL VISIBILITY OVERRUN = 133
Occultation
Exp. 6
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 16747, Horsehead, G750L. Part 1 0.5 offset (19), completed Fri Aug 02 13:01:09 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: ORIENT 301D TO 301 D; ORIENT 121D TO 121 D

Diagnostics

(Horsehead, G750L. Part 1 0.5 offset (19)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Horsehead, G750L. Part 1 0.5 offset (19)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

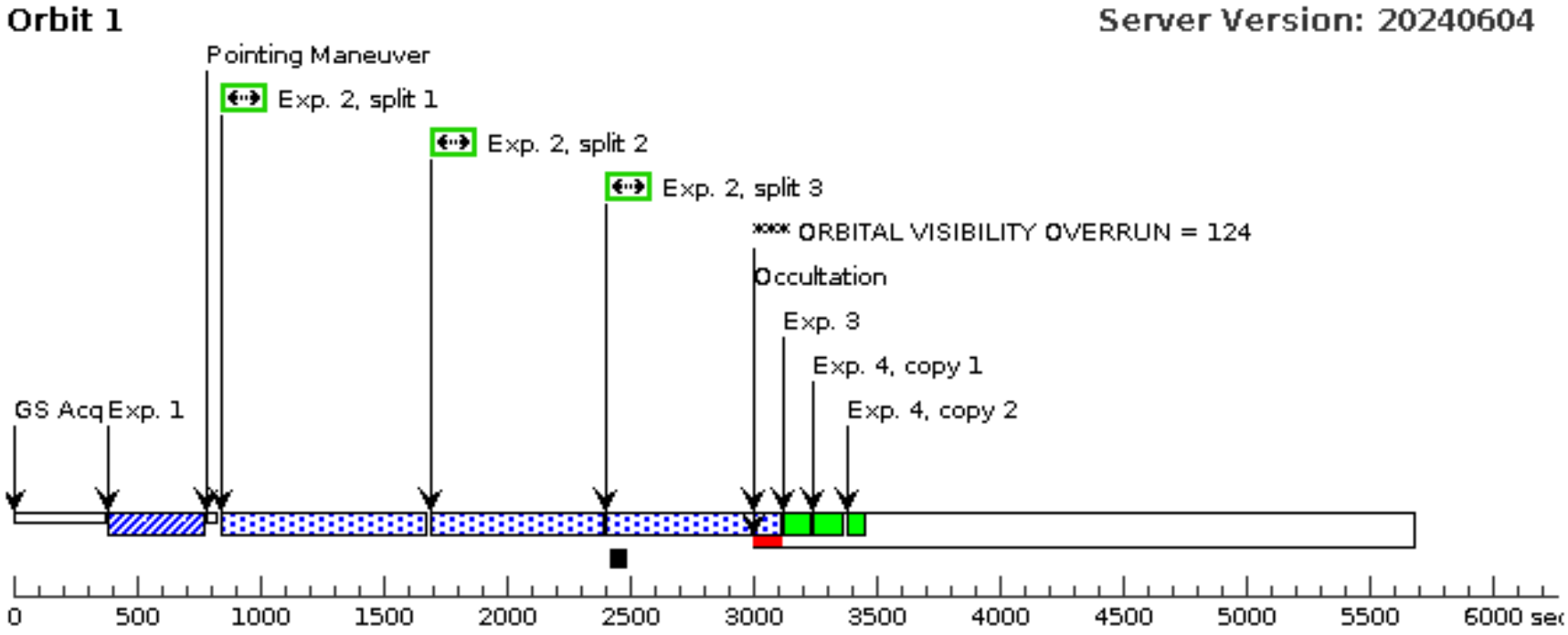
Fixed Targets

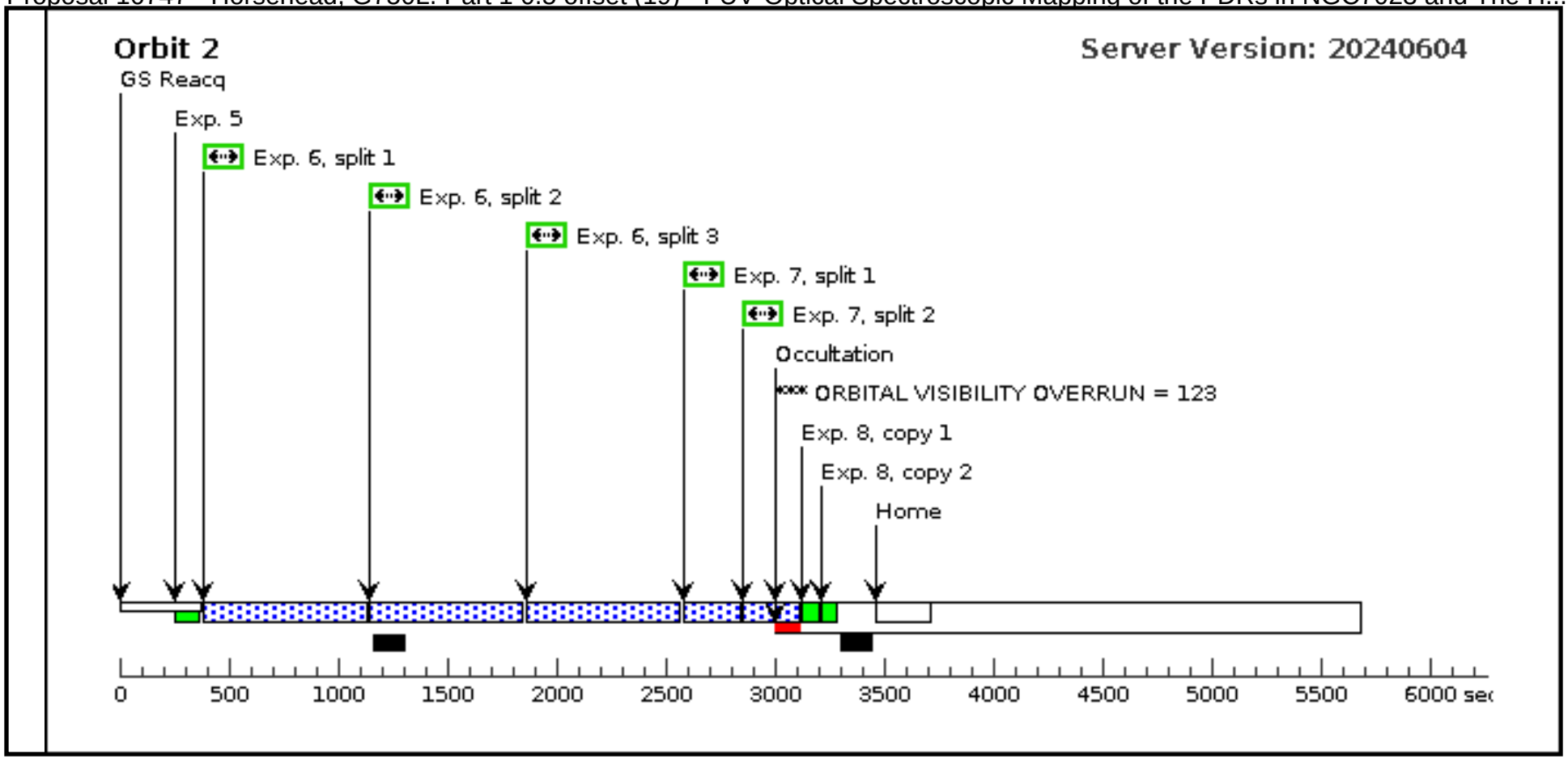
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	HORSEHEAD	RA: 05 40 53.6500 (85.2235417d) Dec: -02 28 4.30 (-2.46786d) Equinox: J2000		V=20+/-20	Reference Frame: ICRS
Comments: *Category=ISM* *Description=[HII REGION, IONIZATION FRONT, MOLECULAR CLOUD, PDR]* *Extended=YES*					
(5)	MSJ2009L1630MIR14	RA: 05 40 49.6002 (85.2066675d) Dec: -02 28 56.22 (-2.48228d) Equinox: J2000	Proper Motion RA: 1.373 mas/yr Proper Motion Dec: 1.865 mas/yr Epoch of Position: 2000	V=12+/-1	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. *Category=EXT-STAR* *Description=[A0-A3 III-I]* *Extended=NO*					

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.1535128)	(5) MSJ2009L1630 MIR14	STIS/CCD, ACQ, F25ND3	MIRROR				25 Secs (25 Secs) *[==>]*	***[1]***
	Comments: No specrtral type for L1630MIR-14. Assume M2V, use J=9.703 (2mass) to normalize. Assume E(B-V)=0.1 Go for longer than you might expect! 10 seconds predicts SN of 50 with ND3, go for 25 seconds. (~80 SN)								
2	Horsehead 3 repeats, Offset 0.5 (STIS.sp.1536390)	(2) HORSEHEAD	STIS/CCD, ACCUM, 52X2	G750L 7751 A	WAVECAL=NO; CR-SPLIT=3	POS TARG 0.5,null		2022 Secs (2022 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[1]***
	Comments: WIth total exposure time of 14649 seconds, SN in contiuum is ~4. We will bin spectrally (and spatially if necessary) to reach a SN 10. Line SN is 5-40.								
3	Manual Wavecal	WAVE	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A				*[==>]*	***[1]***
4	Fringe Flat	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A				*[==>(Copy 1)]* *[==>(Copy 2)]*	***[1]***
5	Manual Wavecal	WAVE	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A				*[==>]*	***[2]***
6	Horsehead 3 repeats Offset 0.5 (STIS.sp.1536390)	(2) HORSEHEAD	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=3; WAVECAL=NO	POS TARG 0.5,null		2022 Secs (2022 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[2]***
	Comments: WIth total exposure time of 14649 seconds, SN in contiuum is ~4. We will bin spectrally (and spatially if necessary) to reach a SN 10. Line SN is 5-40.								
7	Horsehead 2 SHORT REPEATS Offset 0.5 (STIS.sp.1536390)	(2) HORSEHEAD	STIS/CCD, ACCUM, 52X2	G750L 7751 A	WAVECAL=NO	POS TARG 0.5,null		452 Secs (452 Secs) *[==>(Split 1)]* *[==>(Split 2)]*	***[2]***
	Comments: WIth total exposure time of 14649 seconds, SN in contiuum is ~4. We will bin spectrally (and spatially if necessary) to reach a SN 10. Line SN is 5-40.								
8	Fringe Flat	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A				*[==>(Copy 1)]* *[==>(Copy 2)]*	***[2]***

Orbit Structure




Orbit 2
Server Version: 20240604
GS Reacq
Exp. 5
Exp. 6, split 1
Exp. 6, split 2
Exp. 6, split 3
Exp. 7, split 1
Exp. 7, split 2
Occultation
**** ORBITAL VISIBILITY OVERRUN = 123
Exp. 8, copy 1
Exp. 8, copy 2
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 16747, Horsehead, G750L. Part 2 -0.5 offset (25), failed Fri Aug 02 13:01:09 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: ORIENT 301D TO 301 D; ORIENT 121D TO 121 D

Diagnostics

(Horsehead, G750L. Part 2 -0.5 offset (25)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Horsehead, G750L. Part 2 -0.5 offset (25)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

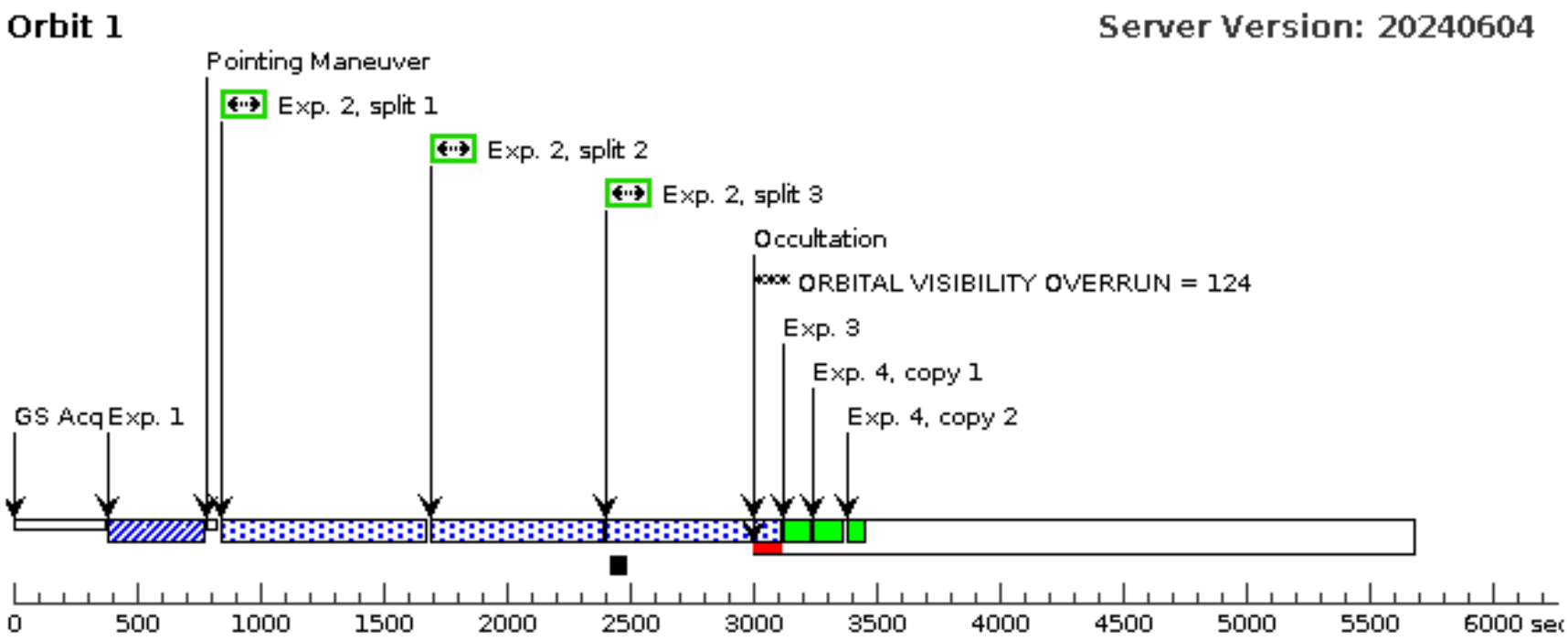
Fixed Targets

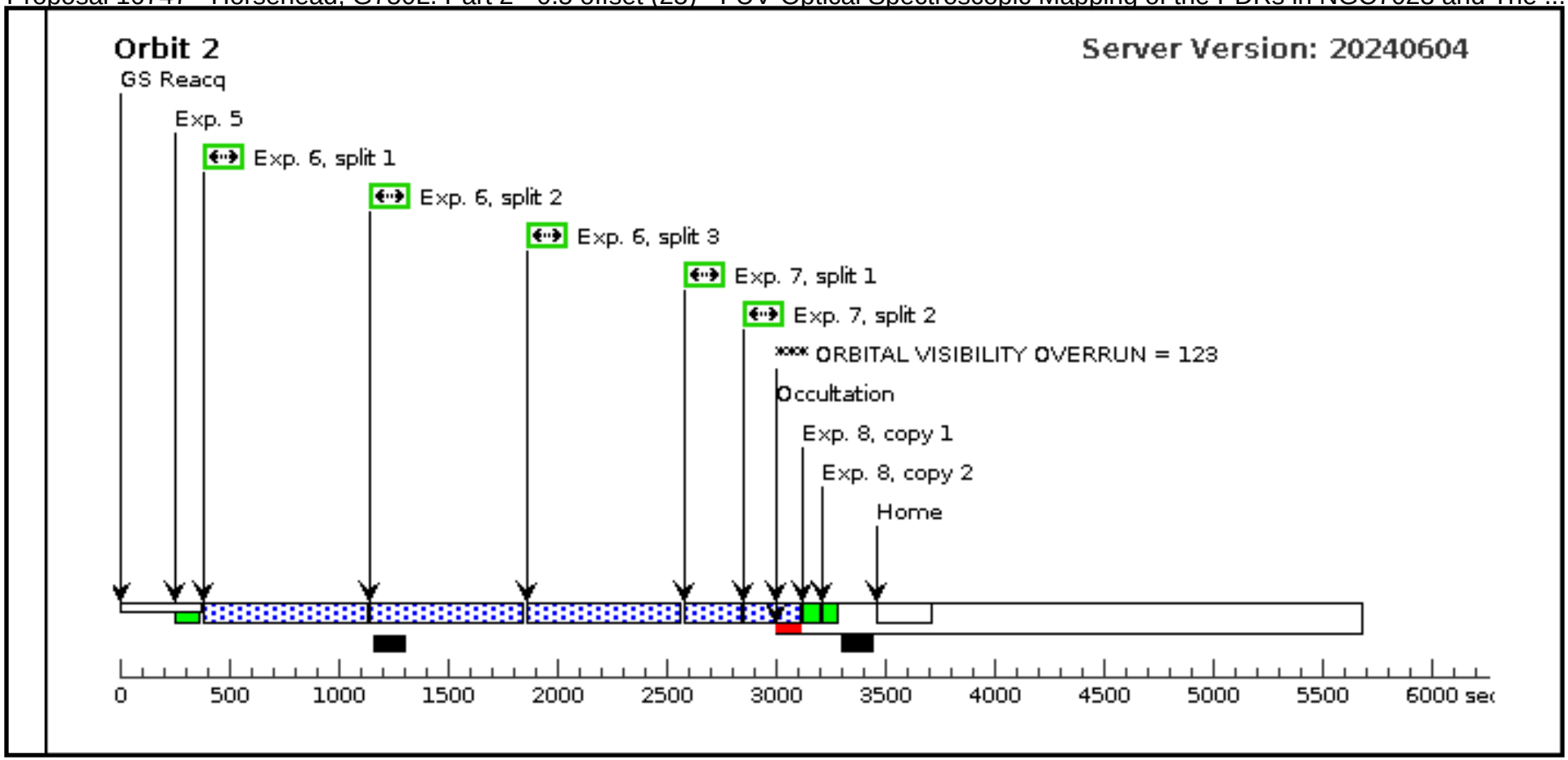
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	HORSEHEAD	RA: 05 40 53.6500 (85.2235417d) Dec: -02 28 4.30 (-2.46786d) Equinox: J2000		V=20+/-20	Reference Frame: ICRS
Comments: *Category=ISM* *Description=[HII REGION, IONIZATION FRONT, MOLECULAR CLOUD, PDR]* *Extended=YES*					
(5)	MSJ2009L1630MIR14	RA: 05 40 49.6002 (85.2066675d) Dec: -02 28 56.22 (-2.48228d) Equinox: J2000	Proper Motion RA: 1.373 mas/yr Proper Motion Dec: 1.865 mas/yr Epoch of Position: 2000	V=12+/-1	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. *Category=EXT-STAR* *Description=[A0-A3 III-I]* *Extended=NO*					

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.1535128)	(5) MSJ2009L1630 MIR14	STIS/CCD, ACQ, F25ND3	MIRROR				25 Secs (25 Secs) *[==>]*	***[1]***
	Comments: No specrtral type for L1630MIR-14. Assume M2V, use J=9.703 (2mass) to normalize. Assume E(B-V)=0.1 Go for longer than you might expect! 10 seconds predicts SN of 50 with ND3, go for 25 seconds. (~80 SN)								
2	Horsehead 3 repeats, Offset -0.5 (STIS.sp.1536390)	(2) HORSEHEAD	STIS/CCD, ACCUM, 52X2	G750L 7751 A	WAVECAL=NO; CR-SPLIT=3	POS TARG -0.5,null		2022 Secs (2022 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[1]***
	Comments: WIth total exposure time of 14649 seconds, SN in contiuum is ~4. We will bin spectrally (and spatially if necessary) to reach a SN 10. Line SN is 5-40.								
3	Manual Wavecal	WAVE	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A				*[==>]*	***[1]***
4	Fringe Flat	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A				*[==>(Copy 1)]* *[==>(Copy 2)]*	***[1]***
5	Manual Wavecal	WAVE	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A				*[==>]*	***[2]***
6	Horsehead 3 repeats, Offset -0.5 (STIS.sp.1536390)	(2) HORSEHEAD	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=3; WAVECAL=NO	POS TARG -0.5,null		2022 Secs (2022 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[2]***
	Comments: WIth total exposure time of 14649 seconds, SN in contiuum is ~4. We will bin spectrally (and spatially if necessary) to reach a SN 10. Line SN is 5-40.								
7	Horsehead 2 SHORT REPEATS, Offset -0.5 (STIS.sp.1536390)	(2) HORSEHEAD	STIS/CCD, ACCUM, 52X2	G750L 7751 A	WAVECAL=NO	POS TARG -0.5,null		452 Secs (452 Secs) *[==>(Split 1)]* *[==>(Split 2)]*	***[2]***
	Comments: WIth total exposure time of 14649 seconds, SN in contiuum is ~4. We will bin spectrally (and spatially if necessary) to reach a SN 10. Line SN is 5-40.								
8	Fringe Flat	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A				*[==>(Copy 1)]* *[==>(Copy 2)]*	***[2]***

Orbit Structure




Orbit 2
Server Version: 20240604
GS Reacq
Exp. 5
Exp. 6, split 1
Exp. 6, split 2
Exp. 6, split 3
Exp. 7, split 1
Exp. 7, split 2
**** ORBITAL VISIBILITY OVERRUN = 123
Occultation
Exp. 8, copy 1
Exp. 8, copy 2
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 16747, Horsehead, G750L. HOPR 92698, pt 1 (31), implementation Fri Aug 02 13:01:09 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: ORIENT 299D TO 303 D; ORIENT 121D TO 121 D

Comments: complete -0.5" offset (2 of 3 failed in visit 25), partial at -1.5" offset (3 of 3 failed in visit 26)

Diagnostics

(Horsehead, G750L. HOPR 92698, pt 1 (31)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Horsehead, G750L. HOPR 92698, pt 1 (31)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

(Horsehead, G750L. HOPR 92698, pt 1 (31)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

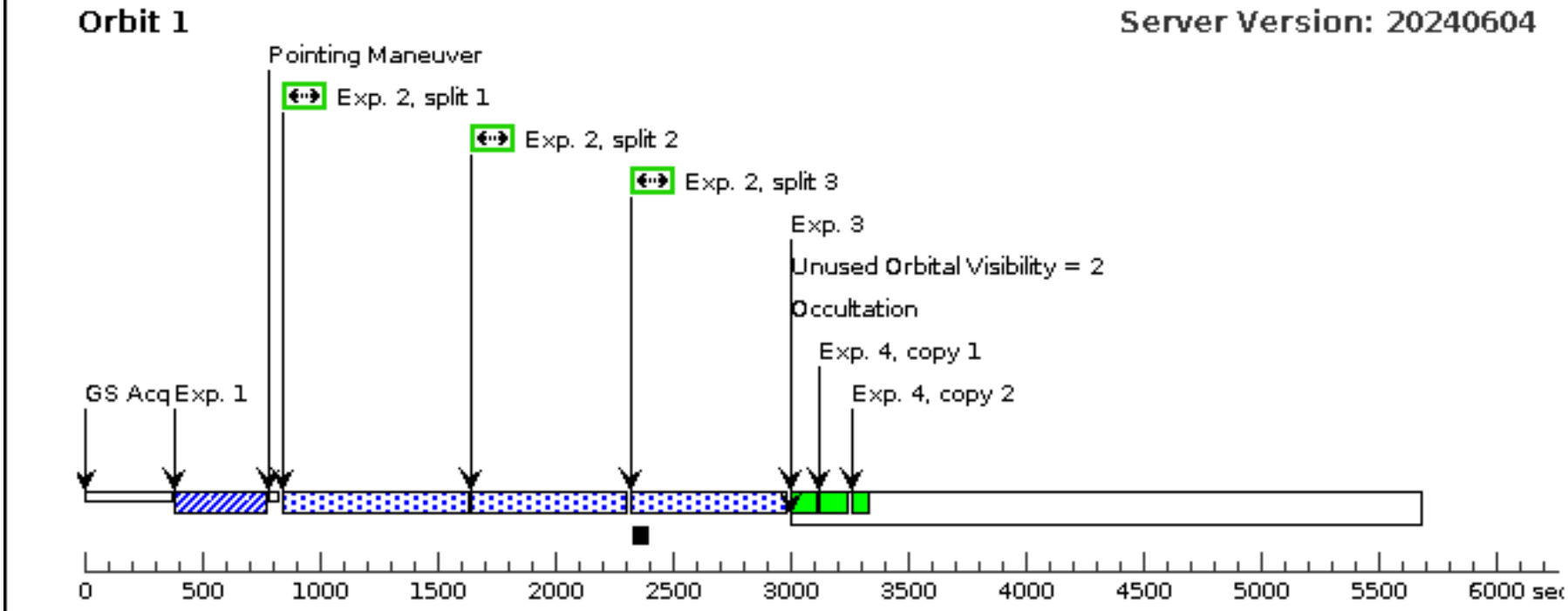
Fixed Targets

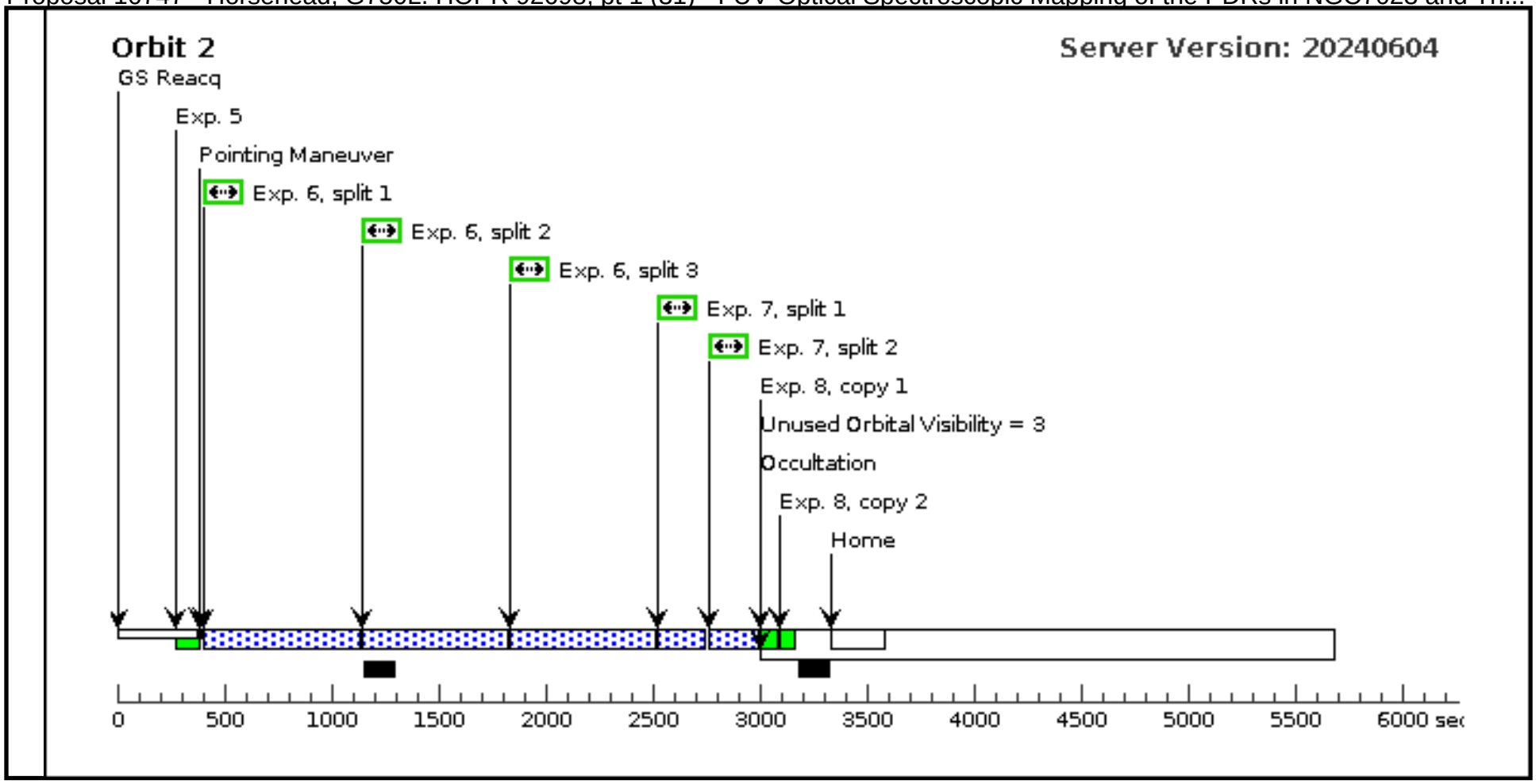
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	HORSEHEAD	RA: 05 40 53.6500 (85.2235417d) Dec: -02 28 4.30 (-2.46786d) Equinox: J2000		V=20+/-20	Reference Frame: ICRS
Comments: *Category=ISM* *Description=[HII REGION, IONIZATION FRONT, MOLECULAR CLOUD, PDR]* *Extended=YES*					
(5)	MSJ2009L1630MIR14	RA: 05 40 49.6002 (85.2066675d) Dec: -02 28 56.22 (-2.48228d) Equinox: J2000	Proper Motion RA: 1.373 mas/yr Proper Motion Dec: 1.865 mas/yr Epoch of Position: 2000	V=12+/-1	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. *Category=EXT-STAR* *Description=[A0-A3 III-I]* *Extended=NO*					

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.1535128)	(5) MSJ2009L1630 MIR14	STIS/CCD, ACQ, F25ND3	MIRROR				25 Secs (25 Secs) *[==>]*	***[1]***
	Comments: No specrtral type for L1630MIR-14. Assume M2V, use J=9.703 (2mass) to normalize. Assume E(B-V)=0.1 Go for longer than you might expect! 10 seconds predicts SN of 50 with ND3, go for 25 seconds. (~80 SN)								
2	Horsehead 3 repeats, Offset -1.5 (STIS.sp.1536390)	(2) HORSEHEAD	STIS/CCD, ACCUM, 52X2	G750L 7751 A	WAVECAL=NO; CR-SPLIT=3	POS TARG -1.5,null		1955 Secs (1894.8 Secs) *[==>631.6 Secs (Split 1)]* *[==>631.6 Secs (Split 2)]* *[==>631.6 Secs (Split 3)]*	***[1]***
	Comments: WIth total exposure time of 14649 seconds, SN in contiuum is ~4. We will bin spectrally (and spatially if necessary) to reach a SN 10. Line SN is 5-40.								
3	Manual Wavecal	WAVE	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A				*[==>]*	***[1]***
4	Fringe Flat	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A				*[==>(Copy 1)]* *[==>(Copy 2)]*	***[1]***
5	Manual Wavecal	WAVE	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A				*[==>]*	***[2]***
6	Horsehead 3 repeats, Offset -0.5 (STIS.sp.1536390)	(2) HORSEHEAD	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=3; WAVECAL=NO	POS TARG -0.5,null		2022 Secs (1938 Secs) *[==>646.0 Secs (Split 1)]* *[==>646.0 Secs (Split 2)]* *[==>646.0 Secs (Split 3)]*	***[2]***
	Comments: WIth total exposure time of 14649 seconds, SN in contiuum is ~4. We will bin spectrally (and spatially if necessary) to reach a SN 10. Line SN is 5-40.								
7	Horsehead 2 SHORT REPEATS, Offset -0.5 (STIS.sp.1536390)	(2) HORSEHEAD	STIS/CCD, ACCUM, 52X2	G750L 7751 A	WAVECAL=NO	POS TARG -0.5,null		445 Secs (389 Secs) *[==>194.5 Secs (Split 1)]* *[==>194.5 Secs (Split 2)]*	***[2]***
	Comments: WIth total exposure time of 14649 seconds, SN in contiuum is ~4. We will bin spectrally (and spatially if necessary) to reach a SN 10. Line SN is 5-40.								
8	Fringe Flat	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A				*[==>(Copy 1)]* *[==>(Copy 2)]*	***[2]***

Orbit Structure




Orbit 2
Server Version: 20240604
GS Reacq
Exp. 5
Pointing Maneuver
Exp. 6, split 1
Exp. 6, split 2
Exp. 6, split 3
Exp. 7, split 1
Exp. 7, split 2
Exp. 8, copy 1
Unused Orbital Visibility = 3
Occultation
Exp. 8, copy 2
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 16747, Horsehead, G750L. Part 3 -1.5 offset (26), failed Fri Aug 02 13:01:09 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: ORIENT 301D TO 301 D; ORIENT 121D TO 121 D

Diagnostics

(Horsehead, G750L. Part 3 -1.5 offset (26)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(Horsehead, G750L. Part 3 -1.5 offset (26)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(Horsehead, G750L. Part 3 -1.5 offset (26)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G750L. Part 3 -1.5 offset (26)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G750L. Part 3 -1.5 offset (26)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G750L. Part 3 -1.5 offset (26)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G750L. Part 3 -1.5 offset (26)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G750L. Part 3 -1.5 offset (26)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G750L. Part 3 -1.5 offset (26)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G750L. Part 3 -1.5 offset (26)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	HORSEHEAD	RA: 05 40 53.6500 (85.2235417d) Dec: -02 28 4.30 (-2.46786d) Equinox: J2000		V=20+/-20	Reference Frame: ICRS

Comments:
Category=ISM
Description=[HII REGION, IONIZATION FRONT, MOLECULAR CLOUD, PDR]
Extended=YES

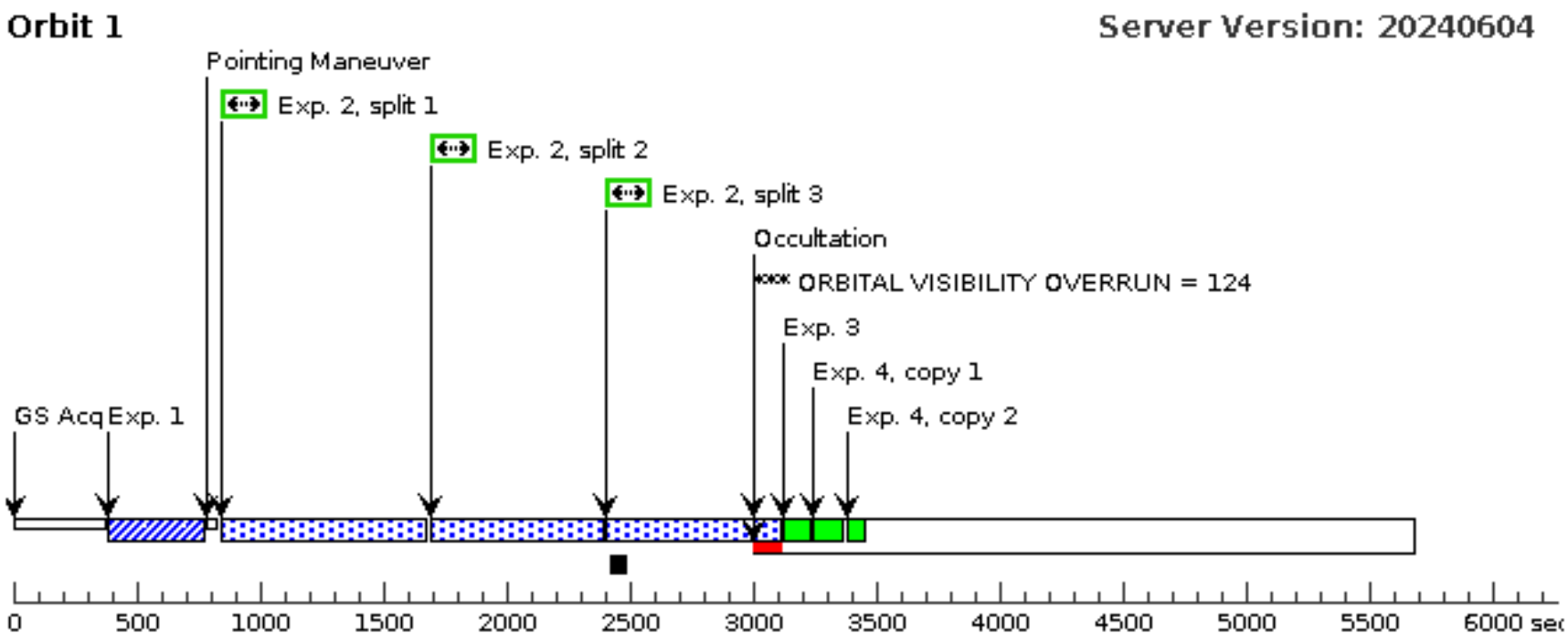
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	MSJ2009L1630MIR14	RA: 05 40 49.6002 (85.2066675d) Dec: -02 28 56.22 (-2.48228d) Equinox: J2000	Proper Motion RA: 1.373 mas/yr Proper Motion Dec: 1.865 mas/yr Epoch of Position: 2000	V=12+/-1	Reference Frame: ICRS

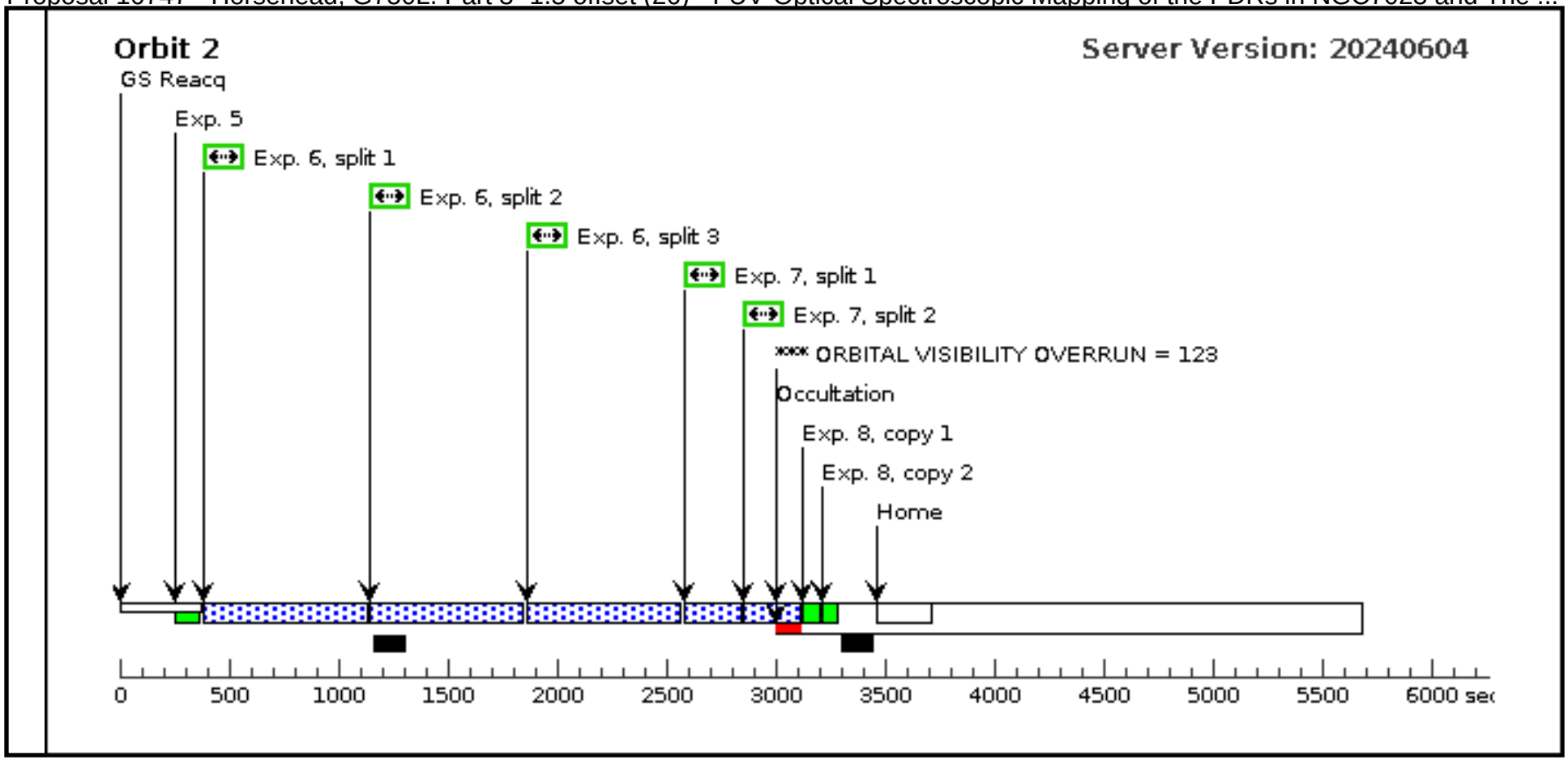
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=EXT-STAR
Description=[A0-A3 III-I]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.1535128)	(5) MSJ2009L1630 MIR14	STIS/CCD, ACQ, F25ND3	MIRROR				25 Secs (25 Secs) *[==>]*	***[1]***
Comments: No specrtral type for L1630MIR-14. Assume M2V, use J=9.703 (2mass) to normalize. Assume E(B-V)=0.1 Go for longer than you might expect! 10 seconds predicts SN of 50 with ND3, go for 25 seconds. (~80 SN)									
2	Horsehead 3 repeats, Offset -1.5 (STIS.sp.1536390)	(2) HORSEHEAD	STIS/CCD, ACCUM, 52X2	G750L 7751 A	WAVECAL=NO; CR-SPLIT=3	POS TARG -1.5,null		2022 Secs (2022 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[1]***
Comments: WIth total exposure time of 14649 seconds, SN in contiuum is ~4. We will bin spectrally (and spatially if necessary) to reach a SN 10. Line SN is 5-40.									
3	Manual Wavecal	WAVE	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A				*[==>]*	***[1]***
4	Fringe Flat	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A				*[==>(Copy 1)]* *[==>(Copy 2)]*	***[1]***
5	Manual Wavecal	WAVE	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A				*[==>]*	***[2]***
6	Horsehead 3 repeats Offset -1.5 (STIS.sp.1536390)	(2) HORSEHEAD	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=3; WAVECAL=NO	POS TARG -1.5,null		2022 Secs (2022 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[2]***
Comments: WIth total exposure time of 14649 seconds, SN in contiuum is ~4. We will bin spectrally (and spatially if necessary) to reach a SN 10. Line SN is 5-40.									
7	Horsehead 2 SHORT REPEATS Offset -1.5 (STIS.sp.1536390)	(2) HORSEHEAD	STIS/CCD, ACCUM, 52X2	G750L 7751 A	WAVECAL=NO	POS TARG -1.5,null		452 Secs (452 Secs) *[==>(Split 1)]* *[==>(Split 2)]*	***[2]***
Comments: WIth total exposure time of 14649 seconds, SN in contiuum is ~4. We will bin spectrally (and spatially if necessary) to reach a SN 10. Line SN is 5-40.									
8	Fringe Flat	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A				*[==>(Copy 1)]* *[==>(Copy 2)]*	***[2]***

Orbit Structure




Orbit 2
Server Version: 20240604
GS Reacq
Exp. 5
Exp. 6, split 1
Exp. 6, split 2
Exp. 6, split 3
Exp. 7, split 1
Exp. 7, split 2
**** ORBITAL VISIBILITY OVERRUN = 123
Occultation
Exp. 8, copy 1
Exp. 8, copy 2
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 16747, Horsehead, G750L. HOPR 92698, pt 2 (32), implementation Fri Aug 02 13:01:09 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: ORIENT 299D TO 303 D; ORIENT 121D TO 121 D

Comments: complete -1.5" offset (3 of 3 failed in visit 26) complete (partial) +1.5" offset (2 of 3 failed in visit 27)

Diagnostics

(Horsehead, G750L. HOPR 92698, pt 2 (32)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G750L. HOPR 92698, pt 2 (32)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G750L. HOPR 92698, pt 2 (32)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G750L. HOPR 92698, pt 2 (32)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G750L. HOPR 92698, pt 2 (32)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G750L. HOPR 92698, pt 2 (32)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G750L. HOPR 92698, pt 2 (32)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G750L. HOPR 92698, pt 2 (32)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

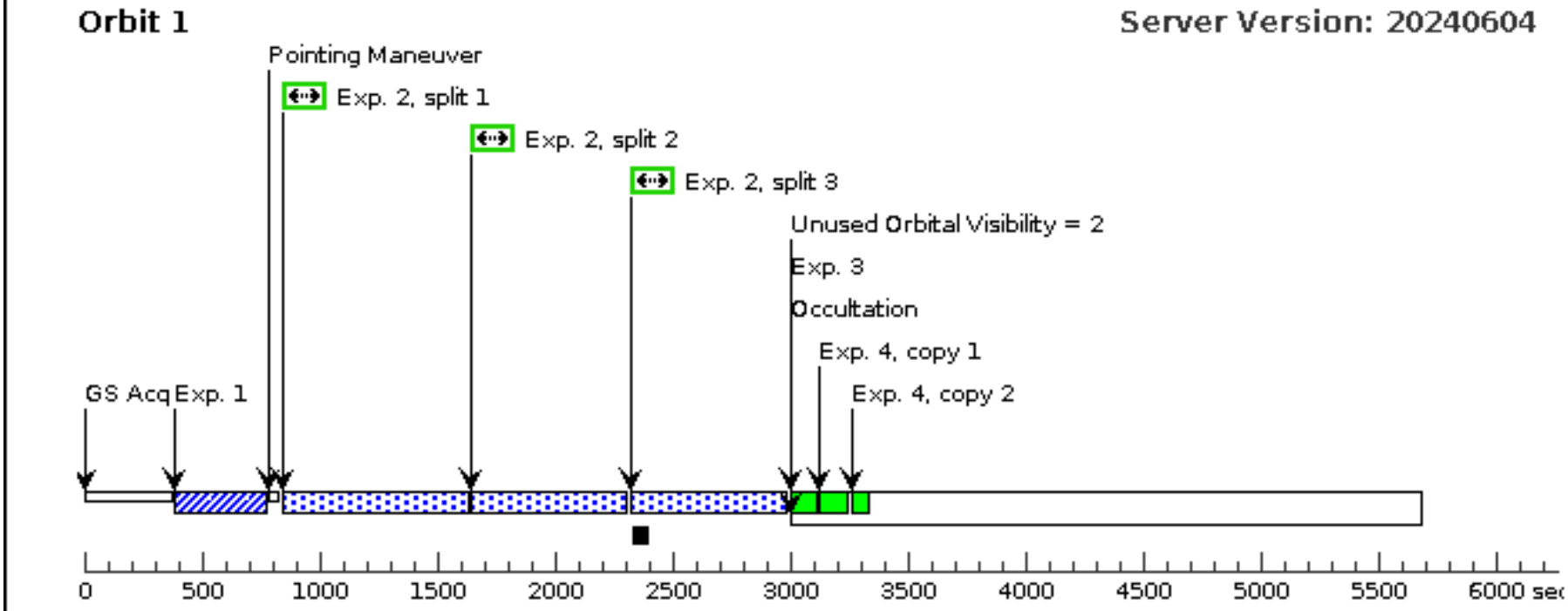
Fixed Targets

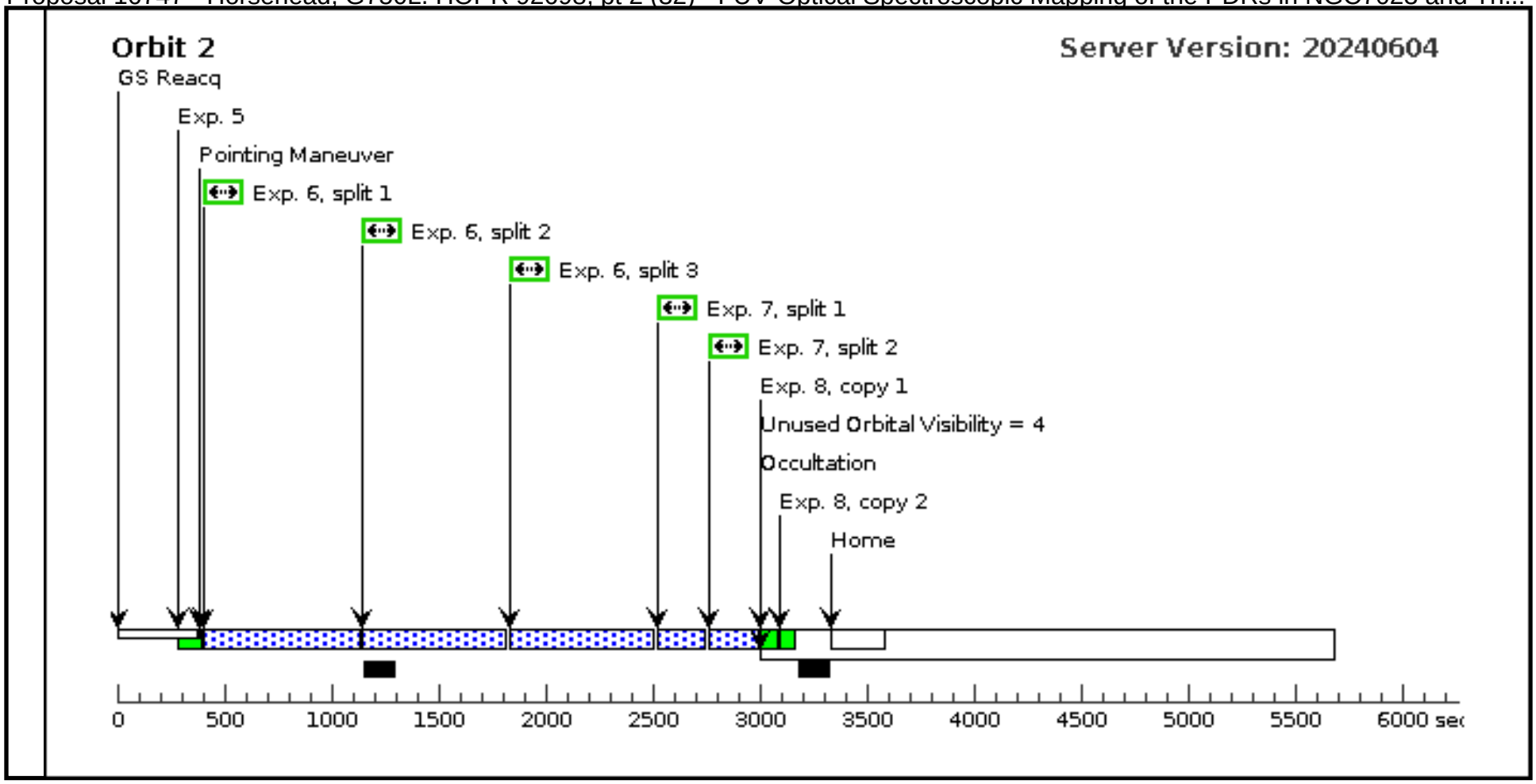
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	HORSEHEAD	RA: 05 40 53.6500 (85.2235417d) Dec: -02 28 4.30 (-2.46786d) Equinox: J2000		V=20+/-20	Reference Frame: ICRS
Comments: Category=ISM Description=[HII REGION, IONIZATION FRONT, MOLECULAR CLOUD, PDR] Extended=YES					
(5)	MSJ2009L1630MIR14	RA: 05 40 49.6002 (85.2066675d) Dec: -02 28 56.22 (-2.48228d) Equinox: J2000	Proper Motion RA: 1.373 mas/yr Proper Motion Dec: 1.865 mas/yr Epoch of Position: 2000	V=12+/-1	Reference Frame: ICRS
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=EXT-STAR Description=[A0-A3 III-I] Extended=NO					

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.1535128)	(5) MSJ2009L1630 MIR14	STIS/CCD, ACQ, F25ND3	MIRROR				25 Secs (25 Secs) *[==>]*	***[1]***
	Comments: No specrtral type for L1630MIR-14. Assume M2V, use J=9.703 (2mass) to normalize. Assume E(B-V)=0.1 Go for longer than you might expect! 10 seconds predicts SN of 50 with ND3, go for 25 seconds. (~80 SN)								
2	Horsehead 3 repeats, Offset 1.5 (STIS.sp.1536390)	(2) HORSEHEAD	STIS/CCD, ACCUM, 52X2	G750L 7751 A	WAVECAL=NO; CR-SPLIT=3	POS TARG 1.5,null		1955 Secs (1894.8 Secs) *[==>631.6 Secs (Split 1)]* *[==>631.6 Secs (Split 2)]* *[==>631.6 Secs (Split 3)]*	***[1]***
	Comments: WIth total exposure time of 14649 seconds, SN in contiuum is ~4. We will bin spectrally (and spatially if necessary) to reach a SN 10. Line SN is 5-40.								
3	Manual Wavecal	WAVE	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A				*[==>]*	***[1]***
4	Fringe Flat	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A				*[==>(Copy 1)]* *[==>(Copy 2)]*	***[1]***
5	Manual Wavecal	WAVE	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A				*[==>]*	***[2]***
6	Horsehead 3 repeats Offset -1.5 (STIS.sp.1536390)	(2) HORSEHEAD	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=3; WAVECAL=NO	POS TARG -1.5,null		2022 Secs (1935 Secs) *[==>645.0 Secs (Split 1)]* *[==>645.0 Secs (Split 2)]* *[==>645.0 Secs (Split 3)]*	***[2]***
	Comments: WIth total exposure time of 14649 seconds, SN in contiuum is ~4. We will bin spectrally (and spatially if necessary) to reach a SN 10. Line SN is 5-40.								
7	Horsehead 2 SHORT REPEATS Offset -1.5 (STIS.sp.1536390)	(2) HORSEHEAD	STIS/CCD, ACCUM, 52X2	G750L 7751 A	WAVECAL=NO	POS TARG -1.5,null		445 Secs (387 Secs) *[==>193.5 Secs (Split 1)]* *[==>193.5 Secs (Split 2)]*	***[2]***
	Comments: WIth total exposure time of 14649 seconds, SN in contiuum is ~4. We will bin spectrally (and spatially if necessary) to reach a SN 10. Line SN is 5-40.								
8	Fringe Flat	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A				*[==>(Copy 1)]* *[==>(Copy 2)]*	***[2]***

Orbit Structure




Orbit 2
Server Version: 20240604
GS Reacq
Exp. 5
Pointing Maneuver
Exp. 6, split 1
Exp. 6, split 2
Exp. 6, split 3
Exp. 7, split 1
Exp. 7, split 2
Exp. 8, copy 1
Unused Orbital Visibility = 4
Occultation
Exp. 8, copy 2
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 16747, Horsehead, G750L. Part 4 1.5 offset (27), failed Fri Aug 02 13:01:09 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: ORIENT 301D TO 301 D; ORIENT 121D TO 121 D

Diagnostics

(Horsehead, G750L. Part 4 1.5 offset (27)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(Horsehead, G750L. Part 4 1.5 offset (27)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(Horsehead, G750L. Part 4 1.5 offset (27)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G750L. Part 4 1.5 offset (27)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G750L. Part 4 1.5 offset (27)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G750L. Part 4 1.5 offset (27)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G750L. Part 4 1.5 offset (27)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G750L. Part 4 1.5 offset (27)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G750L. Part 4 1.5 offset (27)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE
(Horsehead, G750L. Part 4 1.5 offset (27)) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	HORSEHEAD	RA: 05 40 53.6500 (85.2235417d) Dec: -02 28 4.30 (-2.46786d) Equinox: J2000		V=20+/-20	Reference Frame: ICRS

Comments:
Category=ISM
Description=[HII REGION, IONIZATION FRONT, MOLECULAR CLOUD, PDR]
Extended=YES

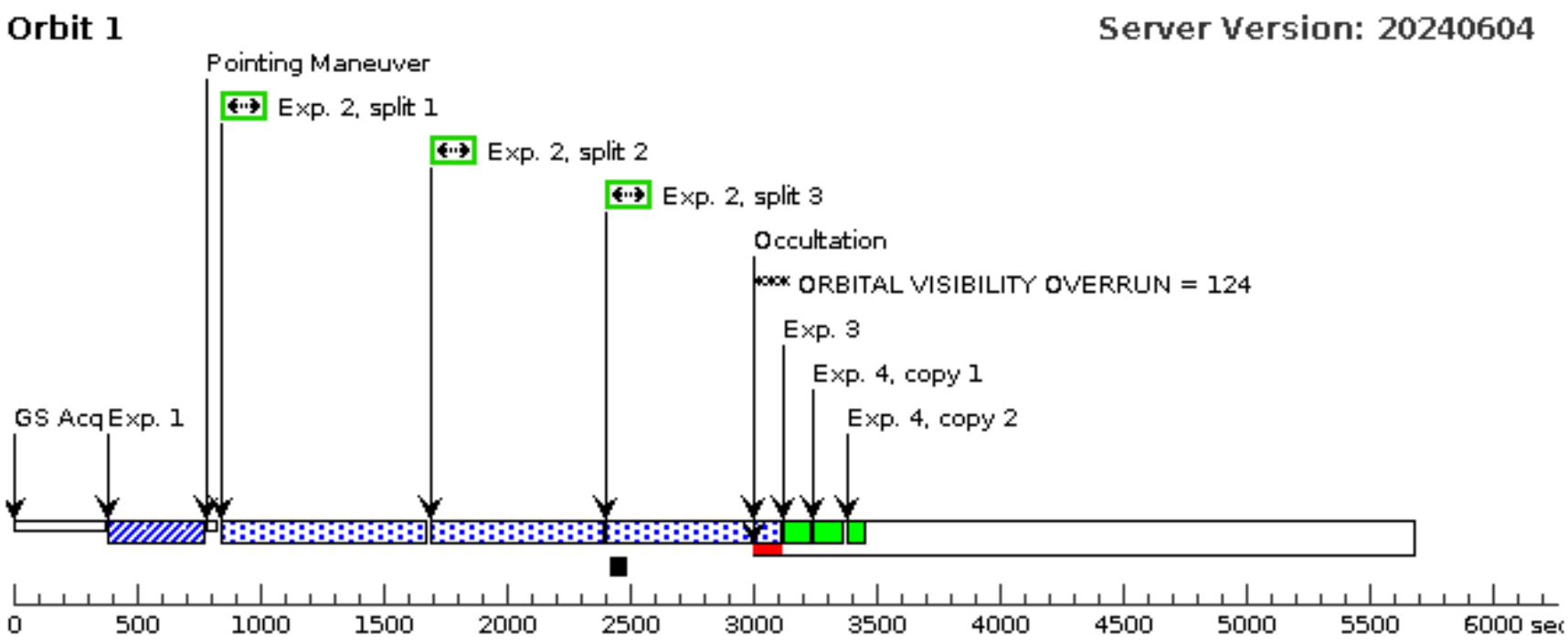
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	MSJ2009L1630MIR14	RA: 05 40 49.6002 (85.2066675d) Dec: -02 28 56.22 (-2.48228d) Equinox: J2000	Proper Motion RA: 1.373 mas/yr Proper Motion Dec: 1.865 mas/yr Epoch of Position: 2000	V=12+/-1	Reference Frame: ICRS

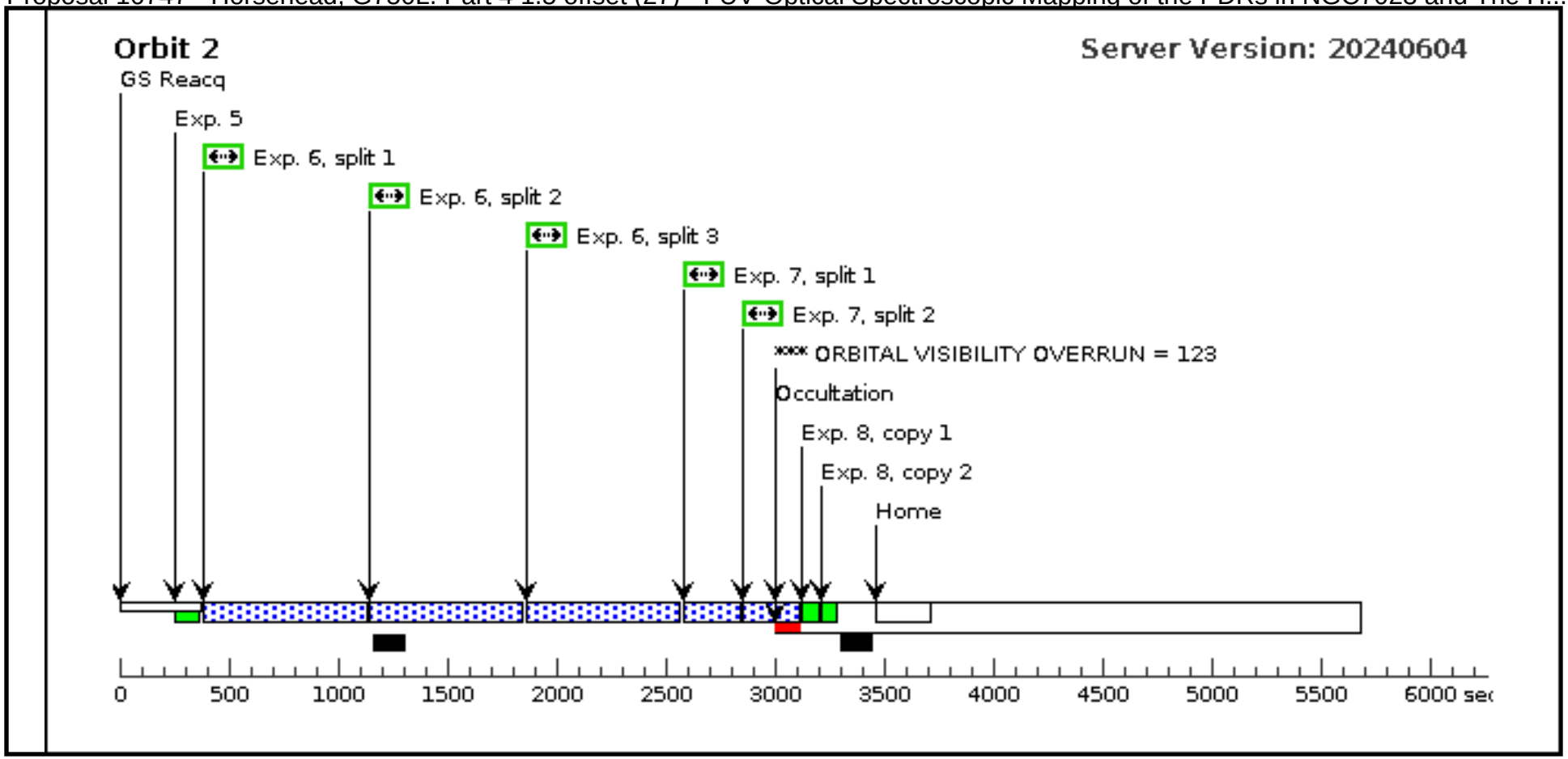
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=EXT-STAR
Description=[A0-A3 III-I]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (STIS.ta.1535128)	(5) MSJ2009L1630 MIR14	STIS/CCD, ACQ, F25ND3	MIRROR				25 Secs (25 Secs) *[==>]*	***[1]***
	Comments: No specrtral type for L1630MIR-14. Assume M2V, use J=9.703 (2mass) to normalize. Assume E(B-V)=0.1 Go for longer than you might expect! 10 seconds predicts SN of 50 with ND3, go for 25 seconds. (~80 SN)								
2	Horsehead 3 repeats, Offset 1.5 (STIS.sp.1536390)	(2) HORSEHEAD	STIS/CCD, ACCUM, 52X2	G750L 7751 A	WAVECAL=NO; CR-SPLIT=3	POS TARG 1.5,null		2022 Secs (2022 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[1]***
	Comments: WIth total exposure time of 14649 seconds, SN in contiuum is ~4. We will bin spectrally (and spatially if necessary) to reach a SN 10. Line SN is 5-40.								
3	Manual Wavecal	WAVE	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A				*[==>]*	***[1]***
4	Fringe Flat	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A				*[==>(Copy 1)]* *[==>(Copy 2)]*	***[1]***
5	Manual Wavecal	WAVE	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A				*[==>]*	***[2]***
6	Horsehead 3 repeats Offset 1.5 (STIS.sp.1536390)	(2) HORSEHEAD	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=3; WAVECAL=NO	POS TARG 1.5,null		2022 Secs (2022 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[2]***
	Comments: WIth total exposure time of 14649 seconds, SN in contiuum is ~4. We will bin spectrally (and spatially if necessary) to reach a SN 10. Line SN is 5-40.								
7	Horsehead 2 SHORT REPEATS Offset 1.5 (STIS.sp.1536390)	(2) HORSEHEAD	STIS/CCD, ACCUM, 52X2	G750L 7751 A	WAVECAL=NO	POS TARG 1.5,null		452 Secs (452 Secs) *[==>(Split 1)]* *[==>(Split 2)]*	***[2]***
	Comments: WIth total exposure time of 14649 seconds, SN in contiuum is ~4. We will bin spectrally (and spatially if necessary) to reach a SN 10. Line SN is 5-40.								
8	Fringe Flat	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A				*[==>(Copy 1)]* *[==>(Copy 2)]*	***[2]***

Orbit Structure




Orbit 2
Server Version: 20240604
GS Reacq
Exp. 5
Exp. 6, split 1
Exp. 6, split 2
Exp. 6, split 3
Exp. 7, split 1
Exp. 7, split 2
**** ORBITAL VISIBILITY OVERRUN = 123
Occultation
Exp. 8, copy 1
Exp. 8, copy 2
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 16747, Horsehead UV backgrounds (22), completed Fri Aug 02 13:01:09 GMT 2024

Diagnostic Status: Warning

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

Special Requirements: (none)

Diagnostics

(Horsehead UV backgrounds (22)) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronography with STIS or COS.

Fixed Targets

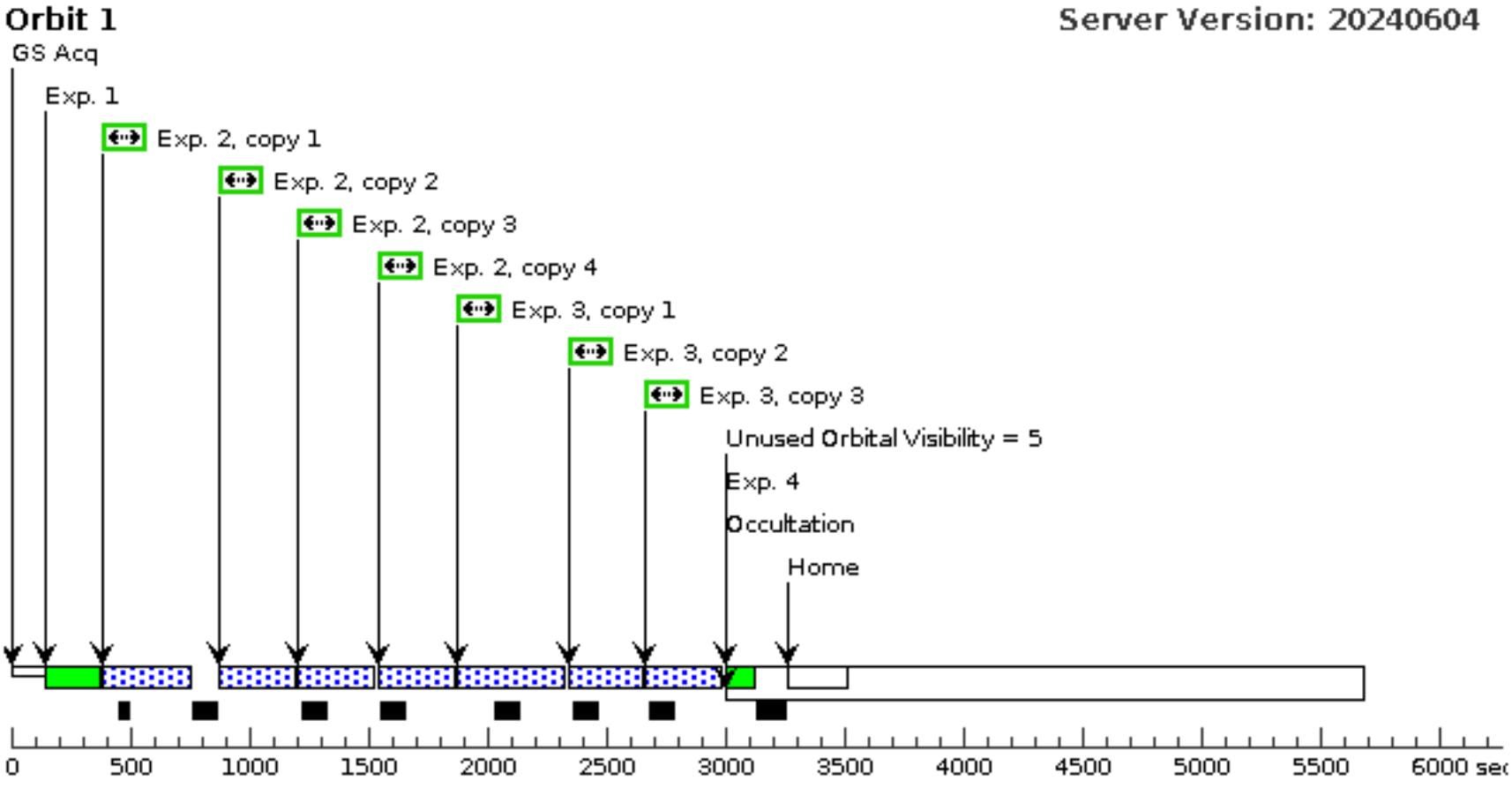
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	HORSEHEADBACKGROUND	RA: 05 40 38.4200 (85.1600833d) Dec: -02 27 39.50 (-2.46097d) Equinox: J2000		V=15	Reference Frame: ICRS

Comments: Background region to monitor instrumental background/stability.
Category=CALIBRATION
Description=[UNDESIGNATED]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Manual Wavecal	WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140L 1425 A				*[==>]*	***[1]***
2	Horsehead G140L Background (STIS.sp.15 35952)	(7) HORSEHEADBACKGROUND	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A				310 Secs X 4 (1240 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]*	***[1]***
	Comments: No ETC run performed. These are mainly targeted at instrumental background so are specified at the maximum exposure length on targets, not a specific SN target. ETC number is made up to reduce the number of yellow exclamation points I have to look at.								
3	Horsehead G230L Background (STIS.sp.15 35954)	(7) HORSEHEADBACKGROUND	STIS/NUV-MAMA, ACCUM, 52X2	G230L 2376 A	WAVECAL=NO			306 Secs X 3 (918 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]*	***[1]***
	Comments: No ETC run performed. These are mainly targeted at instrumental background so are specified at the maximum exposure length on targets, not a specific SN target. ETC number is made up to reduce the number of yellow exclamation points I have to look at.								
4	Manual Wavecal	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.2	G230L 2376 A				*[==>]*	***[1]***

Orbit Structure



Visit

Proposal 16747, Horsehead, G430L background (24), completed Fri Aug 02 13:01:09 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: (none)

Diagnostics

(Horsehead, G430L background (24)) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronography with STIS or COS.

(Horsehead, G430L background (24)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

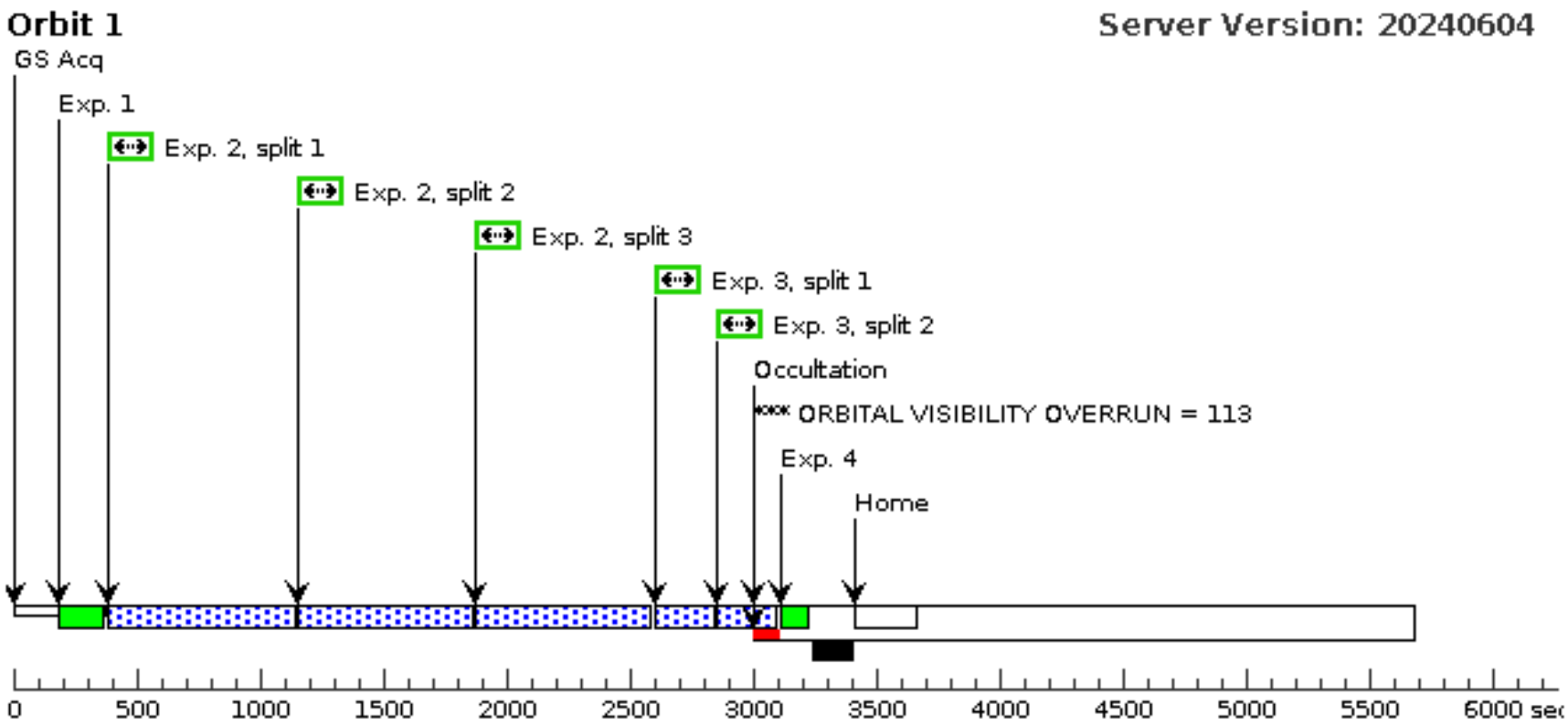
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	HORSEHEADBACKGROUND	RA: 05 40 38.4200 (85.1600833d) Dec: -02 27 39.50 (-2.46097d) Equinox: J2000		V=15	Reference Frame: ICRS

Comments: Background region to monitor instrumental background/stability.
Category=CALIBRATION
Description=[UNDESIGNATED]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Manual Wavecal	WAVE	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A				*[==>]*	***[1]***
2	Background (STIS.sp.15 35955)	(7) HORSEHEADBACKGROUND	STIS/CCD, ACCUM, 52X2	G430L 4300 A	WAVECAL=NO; CR-SPLIT=3			2040 Secs (2040 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[1]***
3	Background (STIS.sp.15 35955)	(7) HORSEHEADBACKGROUND	STIS/CCD, ACCUM, 52X2	G430L 4300 A	WAVECAL=NO			424 Secs (424 Secs) *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***
4	Manual Wavecal	WAVE	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A				*[==>]*	***[1]***

Orbit Structure



Visit

Proposal 16747, Horsehead, G750L background (28), completed Fri Aug 02 13:01:09 GMT 2024

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: (none)

Diagnostics

(Horsehead, G750L background (28)) Warning (Form): A target acquisition should probably be performed before doing spectroscopy or coronography with STIS or COS.

(Horsehead, G750L background (28)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	HORSEHEADBACKGROUND	RA: 05 40 38.4200 (85.1600833d) Dec: -02 27 39.50 (-2.46097d) Equinox: J2000		V=15	Reference Frame: ICRS

Comments: Background region to monitor instrumental background/stability.
Category=CALIBRATION
Description=[UNDESIGNATED]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	Manual Wavecal	WAVE	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A				*[==>]*	***[1]***
2	Background (STIS.sp.15 36373)	(7) HORSEHEADBACKGROUND	STIS/CCD, ACCUM, 52X2	G750L 7751 A	CR-SPLIT=3; WAVECAL=NO			2022 Secs (2022 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]*	***[1]***
3	Background (STIS.sp.15 36373)	(7) HORSEHEADBACKGROUND	STIS/CCD, ACCUM, 52X2	G750L 7751 A	WAVECAL=NO			452 Secs (452 Secs) *[==>(Split 1)]* *[==>(Split 2)]*	***[1]***
4	Manual Wavecal	WAVE	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A				*[==>]*	***[1]***
5	Fringe Flat	CCDFLAT	STIS/CCD, ACCUM, 52X2	G750L 7751 A				*[==>(Copy 1)]* *[==>(Copy 2)]*	***[1]***

Orbit Structure