



18422 - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Through G280 and E230M Spectroscopy

Cycle: 34, 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	(1) HD-209458 BIAS	WFC3/UVIS	4	19-Aug-2026 13:01:31.0	yes
02	(2) CD-34-14724A BIAS	WFC3/UVIS	5	19-Aug-2026 13:01:35.0	yes
03	(4) CD-30-1812 BIAS	WFC3/UVIS	5	19-Aug-2026 13:01:38.0	yes
04	(7) HD-85628 BIAS	WFC3/UVIS	5	19-Aug-2026 13:01:42.0	yes
05	(3) CD-27-10695 WAVE	STIS/CCD STIS/NUV-MAMA	5	19-Aug-2026 13:01:44.0	yes
06	(3) CD-27-10695 WAVE	STIS/CCD STIS/NUV-MAMA	5	19-Aug-2026 13:01:45.0	yes
07	(3) CD-27-10695 WAVE	STIS/CCD STIS/NUV-MAMA	5	19-Aug-2026 13:01:46.0	yes
08	(3) CD-27-10695 WAVE	STIS/CCD STIS/NUV-MAMA	5	19-Aug-2026 13:01:47.0	yes
09	(5) HAT-P-32 WAVE	STIS/CCD STIS/NUV-MAMA	5	19-Aug-2026 13:01:49.0	yes
10	(5) HAT-P-32 WAVE	STIS/CCD STIS/NUV-MAMA	5	19-Aug-2026 13:01:50.0	yes
11	(5) HAT-P-32 WAVE	STIS/CCD STIS/NUV-MAMA	5	19-Aug-2026 13:01:51.0	yes
12	(5) HAT-P-32 WAVE	STIS/CCD STIS/NUV-MAMA	5	19-Aug-2026 13:01:52.0	yes
13	(6) BD+44-2654 WAVE	STIS/CCD STIS/NUV-MAMA	5	19-Aug-2026 13:01:53.0	yes
14	(6) BD+44-2654 WAVE	STIS/CCD STIS/NUV-MAMA	5	19-Aug-2026 13:01:54.0	yes

69 Total Orbits Used

ABSTRACT

We propose a survey of seven transiting hot to ultra-hot Jupiters (HD 209458 b, WASP-94 b, WASP-17 b, WASP-79 b, HAT-P-32 b, HAT-P-67 b, MASCARA-4 b) with HST WFC3/UVIS G280 and STIS E230M spectroscopy to characterize the solid-to-gas transition of silicon species in their upper atmospheres. Our survey will utilize the complementary potential of the WFC3/UVIS G280, which can detect aerosol coverage from UV-visible aerosol opacity and scattering, and the STIS E230M, which can unambiguously detect gas-phase species (i.e., SiO) from their forest of absorption lines. Our target list samples five targets in the equilibrium temperature range of 1600-1900 K where silicon gas and aerosols are predicted to coexist, as well two control targets at 1450 K (where aerosol coverage should be global) and 2250 K (where silicon should be globally vapor). We target planets with prior observations in G280 or E230M to efficiently complete complementary datasets using a minimal number of orbits. By constraining the aerosol coverage and reservoir of silicon vapor at the limbs of these targets, we will be able to test theories of silicate condensation and global reprocessing under different irradiation regimes.

OBSERVING DESCRIPTION

This program will acquire transmission spectra for seven hot Jupiters through either the HST WFC3/UVIS G280, or the STIS/NUV-MAMA E230M. Each target in this program has been selected for its temperature and for having a pre-existing transit spectroscopy dataset from one but not both of the instruments listed above. The combined spectroscopic information in these complementary G280+E230M datasets will allow robust constraints to be placed on the atmospheric abundance of SiO vapor and coverage by silicate grain aerosols.

Our HST WFC3/UVIS G280 observations target four exoplanets: HD-209458 b, WASP-94A b, WASP-79 b, and MASCARA-4 b. A total of 19 orbits across 4 visits are requested for these observations. All targets have one visit allocated. Each exposure places the target on Chip 2 of the WFC3/UVIS detector and reach between 103% and 105% full well saturation, as per WFC3 ISR 2010-10, the WFC3/UVIS detector remains linear well beyond saturation. We use Chip 2 as recommended by previous G280 observing programs (e.g. GO-16086, GO-17183) for its better sensitivity and more reliable calibration. This requires setting the Y POS TARG argument to -50" to center the target on Chip 2.

Every observation begins with an F300X image taken of the target which will enable wavelength calibration during analysis. Where possible, exposures with the G280 after the first orbit collect one more frame than the initial G280 exposures in Orbit 1 to maximize use of target visibility in each orbit. The G280 is a slitless observing mode, and therefore orient constraints are placed on our observations to prevent contamination of the target star's dispersed traces by those of near-field stars. Where necessary, FLASH is set to ensure a background of at least 20 e- that minimizes CTE.

We set SIZEAXIS1=2100 and SIZEAXIS2=600 to define a subarray that lets us minimize data volume and overheads, and ensure that buffer dumps occur during occultation of the target by Earth so that no orbit visibility is wasted. For one target (MASCARA-4 b) we further reduce the subarray to size 2050x500 due to its lower exposure time. We set CENTERAXIS1=2148 and CENTERAXIS2=1208 to center the subarray on the center of Chip 2. As we are using custom subarrays, we additionally request bias frames be taken at the end of each G280 visit, with parameters matching the subarrays of our exposures. These parameters are based on successful observations of transiting hot Jupiters carried out as part of HST-GO 16086 and 17183.

Our STIS/NUV-MAMA E230M observations target three exoplanets: WASP-17 b, HAT-P-32 b, and HAT-P-67A b. A total of 50 orbits across 10 visits are requested for these observations. Four visits each are allocated to WASP-17 b and HAT-P-32 b, while two are allocated to HAT-P-67A b. All visits start with a target acquisition image collected through the STIS/CCD with the MIRROR element and the F28X50LP aperture. Each E230M exposure is taken in TIME TAG mode using 80% of the buffer time recommended by the ETC, as recommended by STIS Instrument Handbook chapter 11.1.3. This results in a maximum of 30 buffer dumps during any one visit, which is at or below the 30-per-visit threshold which would require special handling of this program. Observations are centered on 2707 AA and use the square 0.2"x0.2" slit. E230M exposures are shorter in duration during the first orbit to accommodate the ACQ exposure. We have disabled automatic WAVECAL exposures for our E230M observations and instead schedule them manually to occur during occultation of the target star by Earth, ensuring that we make full use of available visibility. These parameters are based on successful observations of transiting hot Jupiters carried out as part of HST-GO 16086.

STIS/NUV-MAMA observations are limited to no more than five consecutive orbits. For two of our targets this is sufficient to capture pre- and post-transit baseline flux as well as the full transit. However, HAT-P-67A b has a transit duration of 6.989 hours and there is no configuration of orbits that can capture the full transit and adequate baseline flux. We therefore set two different phase constraints on each visit, with one visit beginning before and ending during transit, while the other visit begins during and ends after transit. Combining these visits will enable us to recover the full transit of HAT-P-67A b. As requested in the Phase I APT, these two observations are constrained to occur within 30 days of each other to minimize degradation of the transmission spectrum due to stellar activity.

Proposal 18422 - HD-209458 G280 Transit (01) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Through ...

Visit	Proposal 18422, HD-209458 G280 Transit (01), implementation Wed Aug 19 17:01:54 GMT 2026				
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 0D TO 20 D; ORIENT 60D TO 200 D; ORIENT 250D TO 359 D; Period 3.52474859 D AND ZERO-PHASE HJD2455216.40564 Comments: We require all four orbits in this visit to be taken contiguously with no interruptions. These observations are phase-constrained to begin when HD-209458 b is between orbital phases 0.961044706-0.96695529 to ensure that Orbits 2 and 3 capture the maximal amount of in-transit flux. Orient constraints are included to avoid near-field sources that could contaminate our target star's trace. SIZEAXIS and CENTERAXIS parameters set to manage data volume and are based on successful past observations (GO 17183). Exposure times are calculated from the ETC using Kurucz Models F8V 6200 4.4 with a V magnitude of 7.65. G280 exposures are expected to saturate at 9.34 s. Per WFC3 ISR 2010-10 we set exposure time to 105% of this value or 9.8 s, as G280 remains linear well beyond saturation. Where necessary, we set FLASH to achieve a background of 20 e- to mitigate charge transfer inefficiency.				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(1)	HD-209458	RA: 22 03 10.7727 (330.7948863d) Dec: +18 53 3.55 (18.88432d) Equinox: J2000	Proper Motion RA: 29.76599999999995 mas/yr Proper Motion Dec: -17.976000003727677 mas/yr Parallax: 0.0207694" Epoch of Position: 2000	V=7.63
Fixed Targets	Miscellaneous Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, G V-IV] Extended=NO				

Proposal 18422 - HD-209458 G280 Transit (01) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Through ...

	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	HD-209458, ACQ, phase constrained (WFC3UVI S.im.236157 1)	(1) HD-209458	WFC3/UVIS, ACCUM, G280-REF	F300X	FLASH=20; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50; PHASE 0.961044706 TO 0.96695529	Same Guide Stars in HD-209458 G280 Transit (01) Sequence 1-2 Non-Int in Same Guide Stars in HD-209458 G280 Transit (01) Same Obset in Sequence 1-2 Non-Int in Same Guide Stars in HD-209458 G280 Transit (01)	0.5 Secs (0.5 Secs) [==>]	[1]
	2	HD-209458, SCIENCE (WFC3UVI S.sp.236157 2)	(1) HD-209458	WFC3/UVIS, ACCUM, UVIS	G280	FLASH=20; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Same Guide Stars in HD-209458 G280 Transit (01) Sequence 1-2 Non-Int in Same Guide Stars in HD-209458 G280 Transit (01) Same Obset in Sequence 1-2 Non-Int in Same Guide Stars in HD-209458 G280 Transit (01)	9.8 Secs X 27 (264.6 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)]	[1]

Proposal 18422 - HD-209458 G280 Transit (01) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Through ...

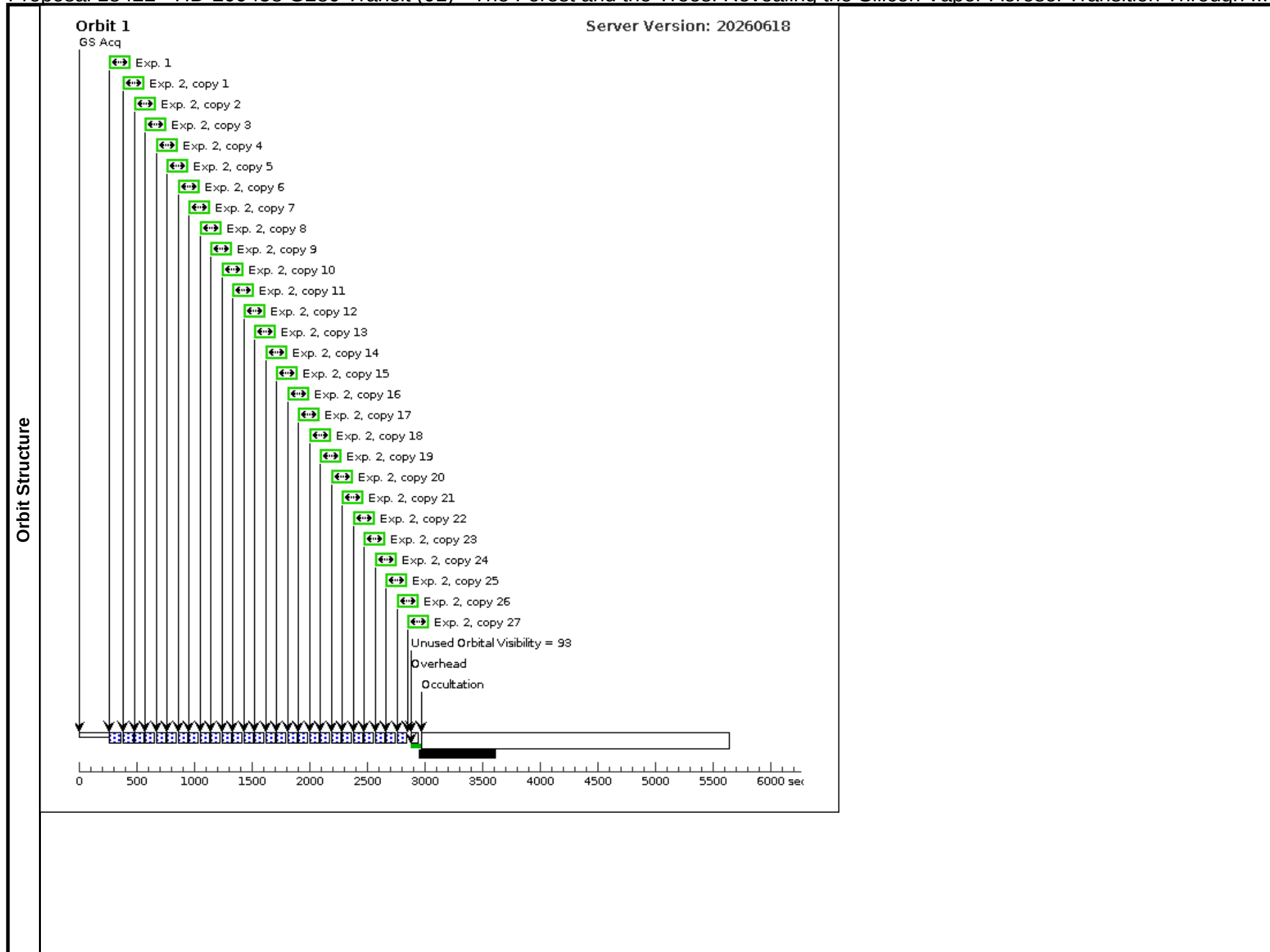
3	HD-209458, (1) HD-209458 SCIENCE (WFC3UVI S.sp.236157 2)	WFC3/UVIS, ACCUM, UVIS	G280	FLASH=20; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=21 48; CENTERAXIS2=12 08	POS TARG null,-50	Same Guide Stars in HD-209458 G280 Tr ansit (01) Sequence 3-3 Non-In t in Same Guide Star s in HD-209458 G28 0 Transit (01) Same Obset in Seque nce 3-3 Non-Int in S ame Guide Stars in H D-209458 G280 Tra nsit (01)	9.8 Secs X 28 (274.4 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)]	[2]
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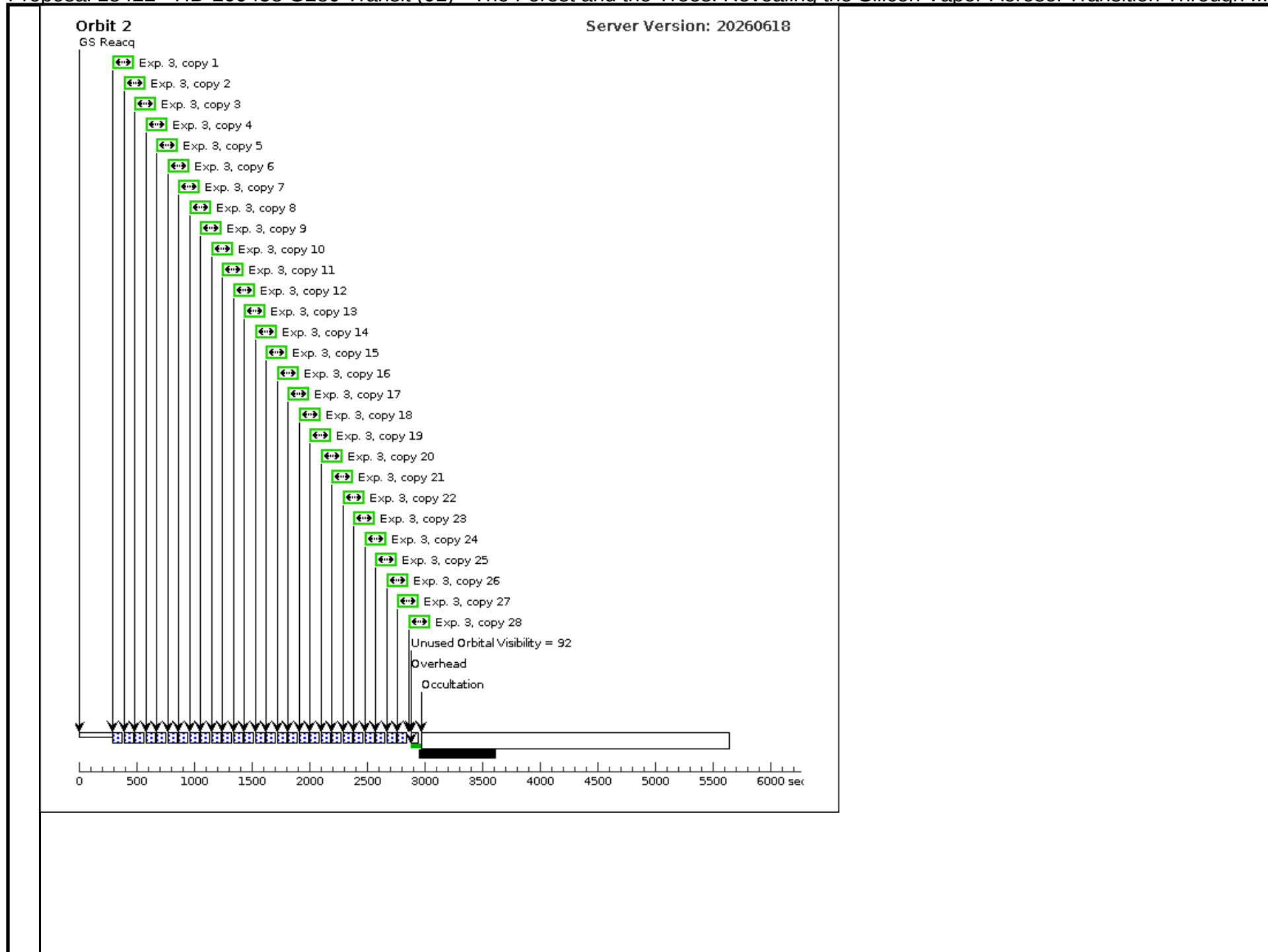
Proposal 18422 - HD-209458 G280 Transit (01) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Through ...

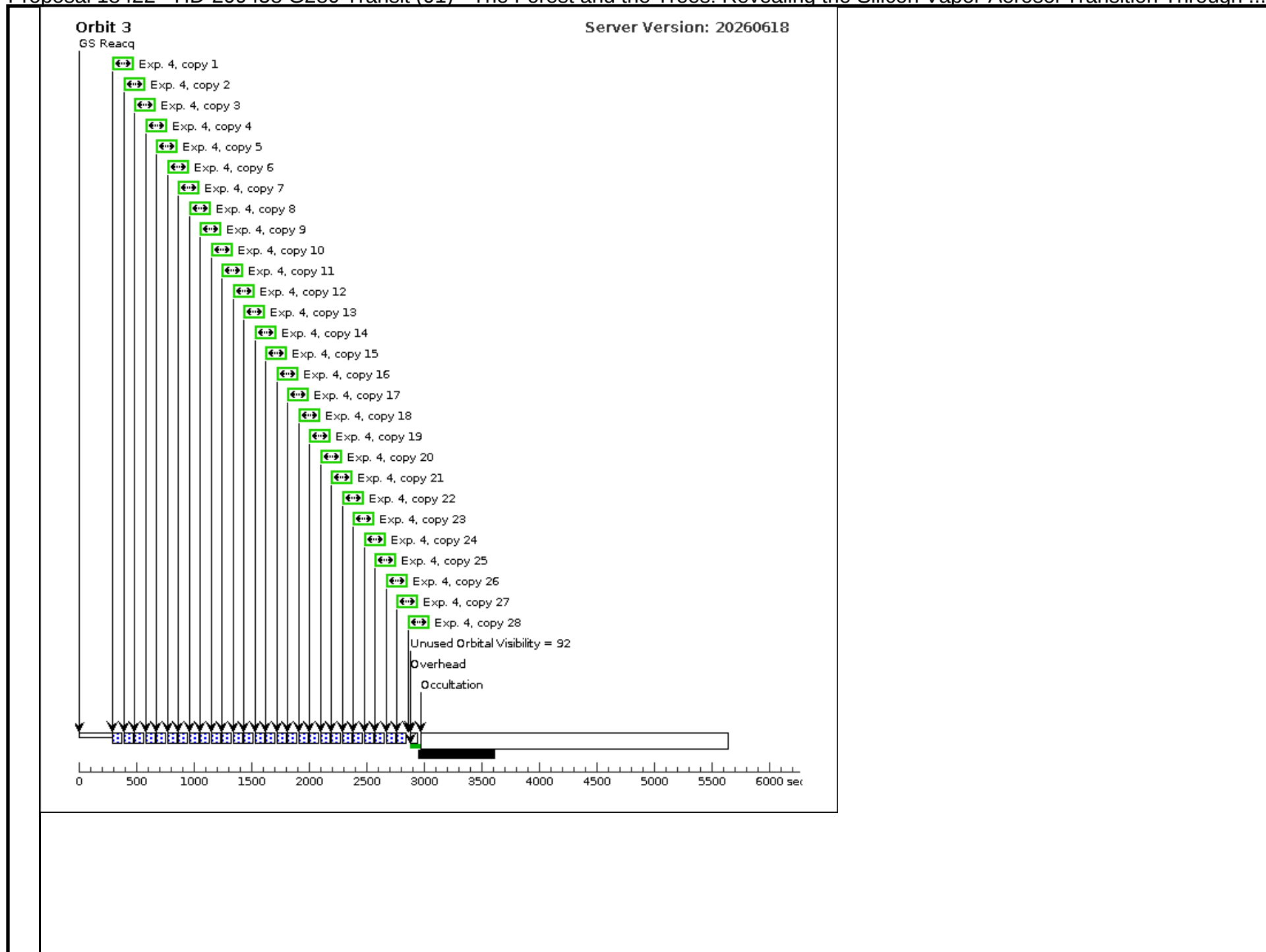
4	HD-209458, (1) HD-209458 SCIENCE (WFC3UVI S.sp.236157 2)	WFC3/UVIS, ACCUM, UVIS	G280	FLASH=20; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=21 48; CENTERAXIS2=12 08	POS TARG null,-50	Same Guide Stars in HD-209458 G280 Tr ansit (01) Sequence 4-4 Non-In t in Same Guide Star s in HD-209458 G28 0 Transit (01) Same Obset in Seque nce 4-4 Non-Int in S ame Guide Stars in H D-209458 G280 Tra nsit (01)	9.8 Secs X 28 (274.4 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)]	[3]
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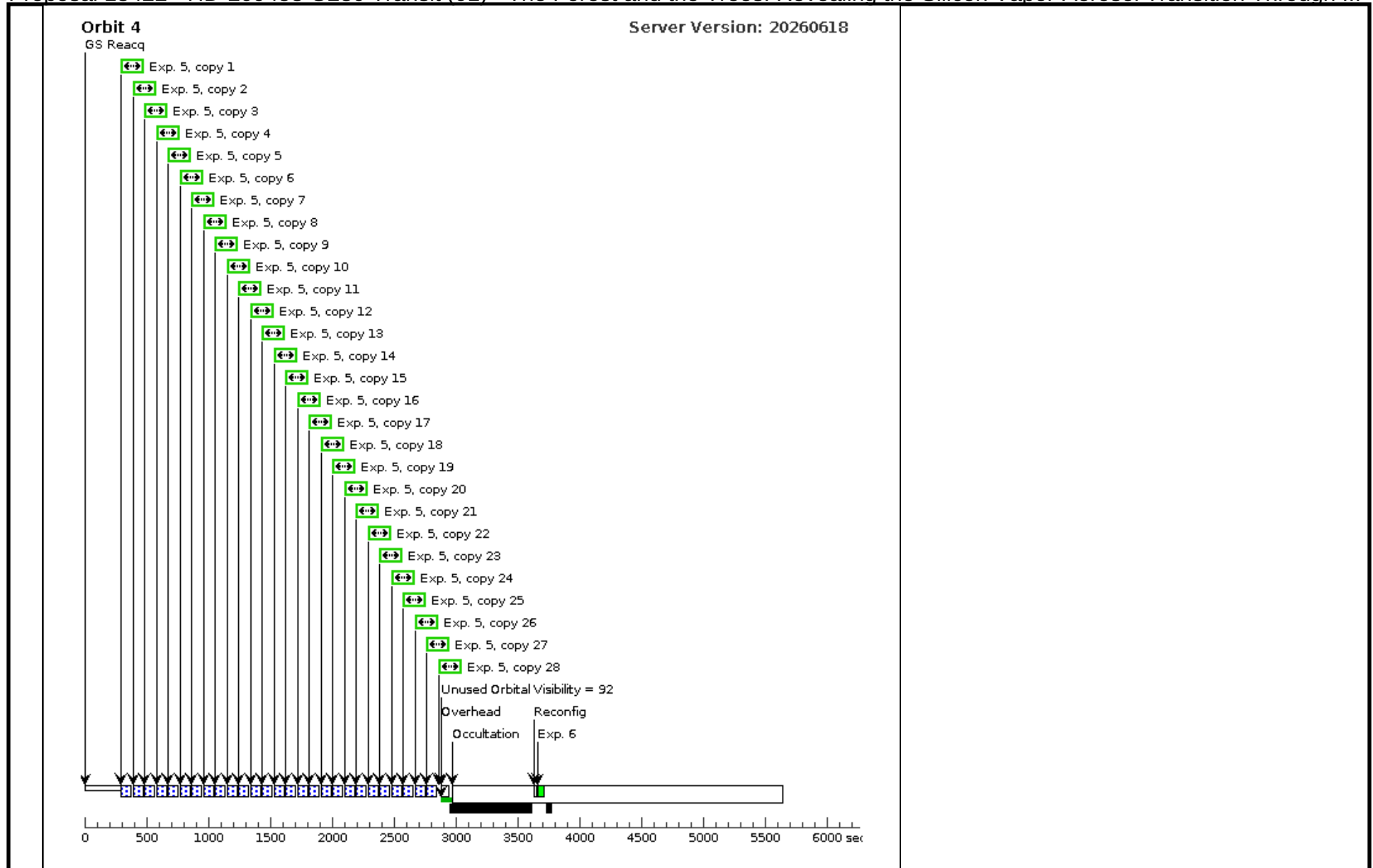
Proposal 18422 - HD-209458 G280 Transit (01) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Through ...

5	HD-209458, (1) HD-209458 SCIENCE (WFC3UVI S.sp.236157 2)	WFC3/UVIS, ACCUM, UVIS	G280	FLASH=20; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Same Guide Stars in HD-209458 G280 Transit (01) Sequence 5-6 Non-Int in Same Guide Stars in HD-209458 G280 Transit (01) Same Obset in Sequence 5-6 Non-Int in Same Guide Stars in HD-209458 G280 Transit (01)	9.8 Secs X 28 (274.4 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)]	[4]
6	HD-209458, BIAS BIAS	WFC3/UVIS, ACCUM, UVIS	DEF	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208		Same Guide Stars in HD-209458 G280 Transit (01) Sequence 5-6 Non-Int in Same Guide Stars in HD-209458 G280 Transit (01) Same Obset in Sequence 5-6 Non-Int in Same Guide Stars in HD-209458 G280 Transit (01)	0.0 Secs (0 Secs) [==>]	[4]









Proposal 18422 - WASP-94 G280 Transit (02) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Through G2...

Visit	Proposal 18422, WASP-94 G280 Transit (02), implementation Wed Aug 19 17:01:55 GMT 2026				
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 0D TO 100 D; ORIENT 160D TO 240 D; ORIENT 350D TO 359 D; Period 3.95020219 D AND ZERO-PHASE HJD2458328.2989 <i>Comments: We require all five orbits in this visit to be taken contiguously with no interruptions. These observations are phase-constrained to begin when WASP-94A b is between orbital phases 0.95936300-0.9646369958 to ensure that Orbits 2 through 4 capture the maximal amount of in-transit flux. Orient constraints are included to avoid near-field sources that could contaminate our target star's trace. SIZEAXIS and CENTERAXIS parameters set to manage data volume and are based on successful past observations (GO 17183). Exposure times are calculated from the ETC using Kurucz Models F8V 6200 4.4 with a V magnitude of 10.051. G280 exposures are expected to saturate at 85.27 s. Per WFC3 ISR 2010-10 we set exposure time to 105% of this value or 89.5 s, as G280 remains linear well beyond saturation. Where necessary, we set FLASH to achieve a background of 20 e- to mitigate charge transfer inefficiency.</i>				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(2)	CD-34-14724A Alt Name1: WASP-94	RA: 20 55 7.9444 (313.7831017d) Dec: -34 08 8.01 (-34.13556d) Equinox: J2000	Proper Motion RA: 26.5 mas/yr Proper Motion Dec: -44.971000056648336 mas/yr Parallax: 0.004749799999999999" Epoch of Position: 2000	V=10.05 Reference Frame: ICRS
Fixed Targets	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>				
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, F3-F9] Extended=NO				

Proposal 18422 - WASP-94 G280 Transit (02) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Through G2...

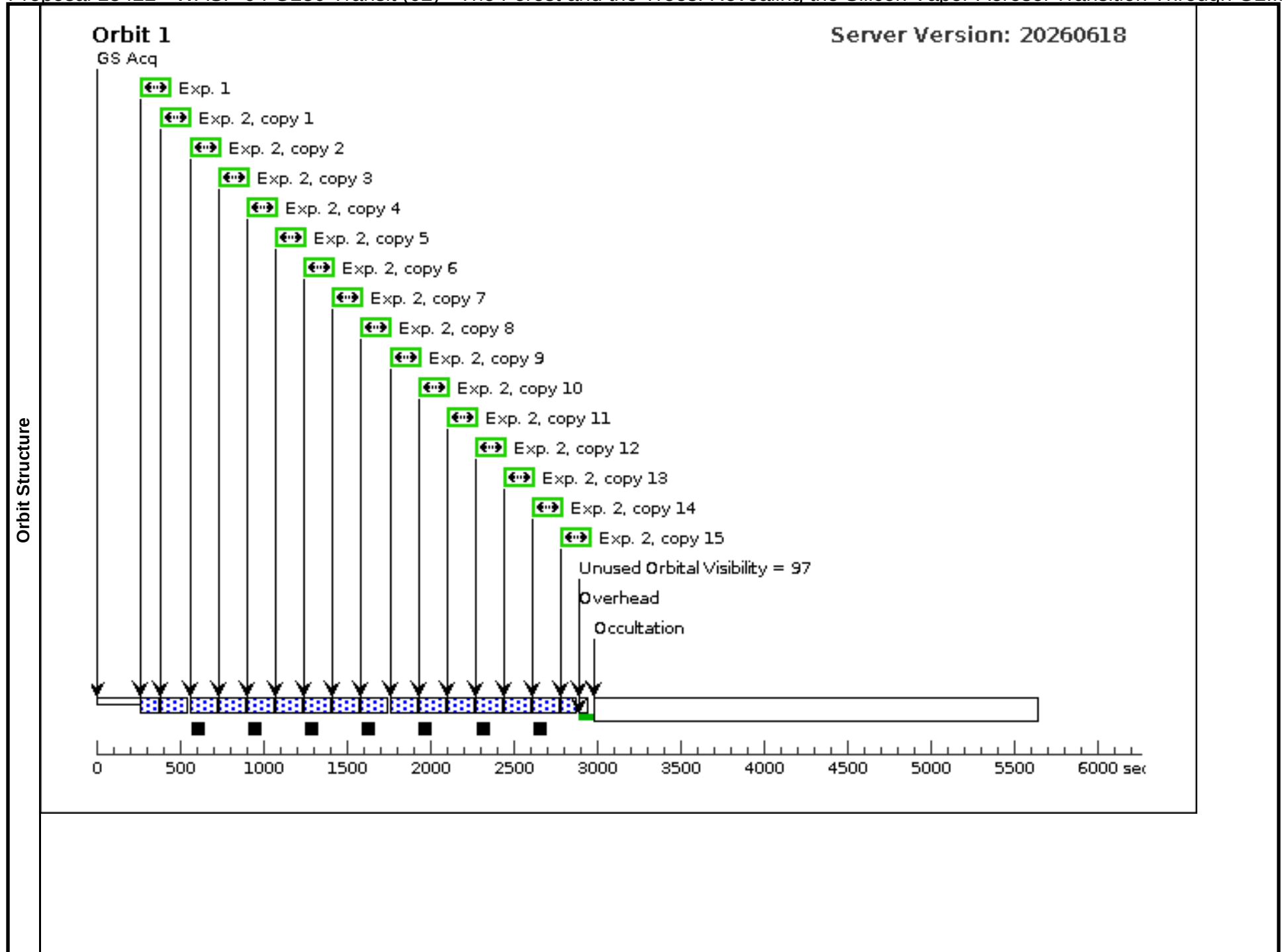
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	WASP-94, ACQ, phase constrained (WFC3UVI S.im.236157 4)	(2) CD-34-14724A	WFC3/UVIS, ACCUM, G280-REF	F300X	FLASH=20; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=21 48; CENTERAXIS2=12 08	POS TARG null,-50; PHASE 0.95936300 TO 0.9646369958	Same Guide Stars in WASP-94 G280 Tra nsit (02) Sequence 1-2 Non-In t in Same Guide Star s in WASP-94 G280 Transit (02) Same Obset in Seque nce 1-2 Non-Int in S ame Guide Stars in WASP-94 G280 Tra nsit (02)	4 Secs (4 Secs) [==>]	[1]
	2	WASP-94, S CIENCE (WFC3UVI S.sp.236158 2)	(2) CD-34-14724A	WFC3/UVIS, ACCUM, UVIS	G280	FLASH=12; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=21 48; CENTERAXIS2=12 08	POS TARG null,-50	Same Guide Stars in WASP-94 G280 Tra nsit (02) Sequence 1-2 Non-In t in Same Guide Star s in WASP-94 G280 Transit (02) Same Obset in Seque nce 1-2 Non-Int in S ame Guide Stars in WASP-94 G280 Tra nsit (02)	89.5 Secs X 15 (1342.5 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)]	[1]
	3	WASP-94, S CIENCE (WFC3UVI S.sp.236158 2)	(2) CD-34-14724A	WFC3/UVIS, ACCUM, UVIS	G280	FLASH=12; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=21 48; CENTERAXIS2=12 08	POS TARG null,-50	Same Guide Stars in WASP-94 G280 Tra nsit (02) Sequence 3-3 Non-In t in Same Guide Star s in WASP-94 G280 Transit (02) Same Obset in Seque nce 3-3 Non-Int in S ame Guide Stars in WASP-94 G280 Tra nsit (02)	89.5 Secs X 16 (1432 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)]	[2]

Proposal 18422 - WASP-94 G280 Transit (02) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Through G2...

4	WASP-94, S (2) CD-34-14724A CIENCE (WFC3UVI S.sp.236158 2)	WFC3/UVIS, ACCUM, UVIS	G280	FLASH=12; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=21 48; CENTERAXIS2=12 08	POS TARG null,-50	Same Guide Stars in WASP-94 G280 Tra nsit (02) Sequence 4-4 Non-In t in Same Guide Star s in WASP-94 G280 Transit (02) Same Obset in Seque nce 4-4 Non-Int in S ame Guide Stars in WASP-94 G280 Tra nsit (02)	89.5 Secs X 16 (1432 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)]	[3]
5	WASP-94, S (2) CD-34-14724A CIENCE (WFC3UVI S.sp.236158 2)	WFC3/UVIS, ACCUM, UVIS	G280	FLASH=12; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=21 48; CENTERAXIS2=12 08	POS TARG null,-50	Same Guide Stars in WASP-94 G280 Tra nsit (02) Sequence 5-5 Non-In t in Same Guide Star s in WASP-94 G280 Transit (02) Same Obset in Seque nce 5-5 Non-Int in S ame Guide Stars in WASP-94 G280 Tra nsit (02)	89.5 Secs X 16 (1432 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)]	[4]

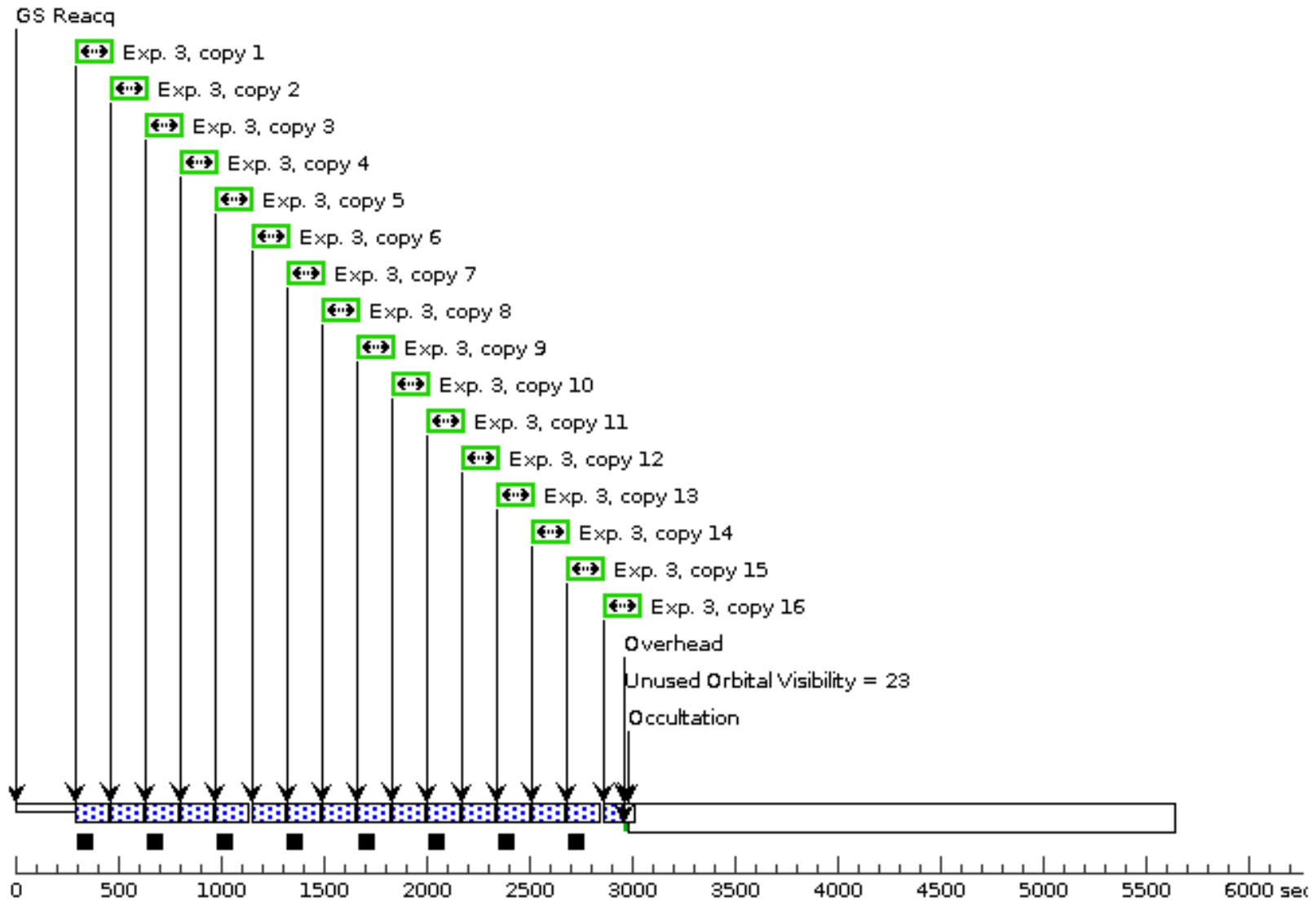
Proposal 18422 - WASP-94 G280 Transit (02) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Through G2...

6	WASP-94, S (2) CD-34-14724A CIENCE (WFC3UVI S.sp.236158 2)	WFC3/UVIS, ACCUM, UVIS	G280	FLASH=12; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Same Guide Stars in WASP-94 G280 Transit (02) Sequence 6-7 Non-Int in Same Guide Stars in WASP-94 G280 Transit (02) Same Obset in Sequence 6-7 Non-Int in Same Guide Stars in WASP-94 G280 Transit (02)	89.5 Secs X 16 (1432 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)]	[5]
7	WASP-94, BIAS	WFC3/UVIS, ACCUM, UVIS	DEF	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208		Same Guide Stars in WASP-94 G280 Transit (02) Sequence 6-7 Non-Int in Same Guide Stars in WASP-94 G280 Transit (02) Same Obset in Sequence 6-7 Non-Int in Same Guide Stars in WASP-94 G280 Transit (02)	0.0 Secs (0 Secs) [==>]	[5]



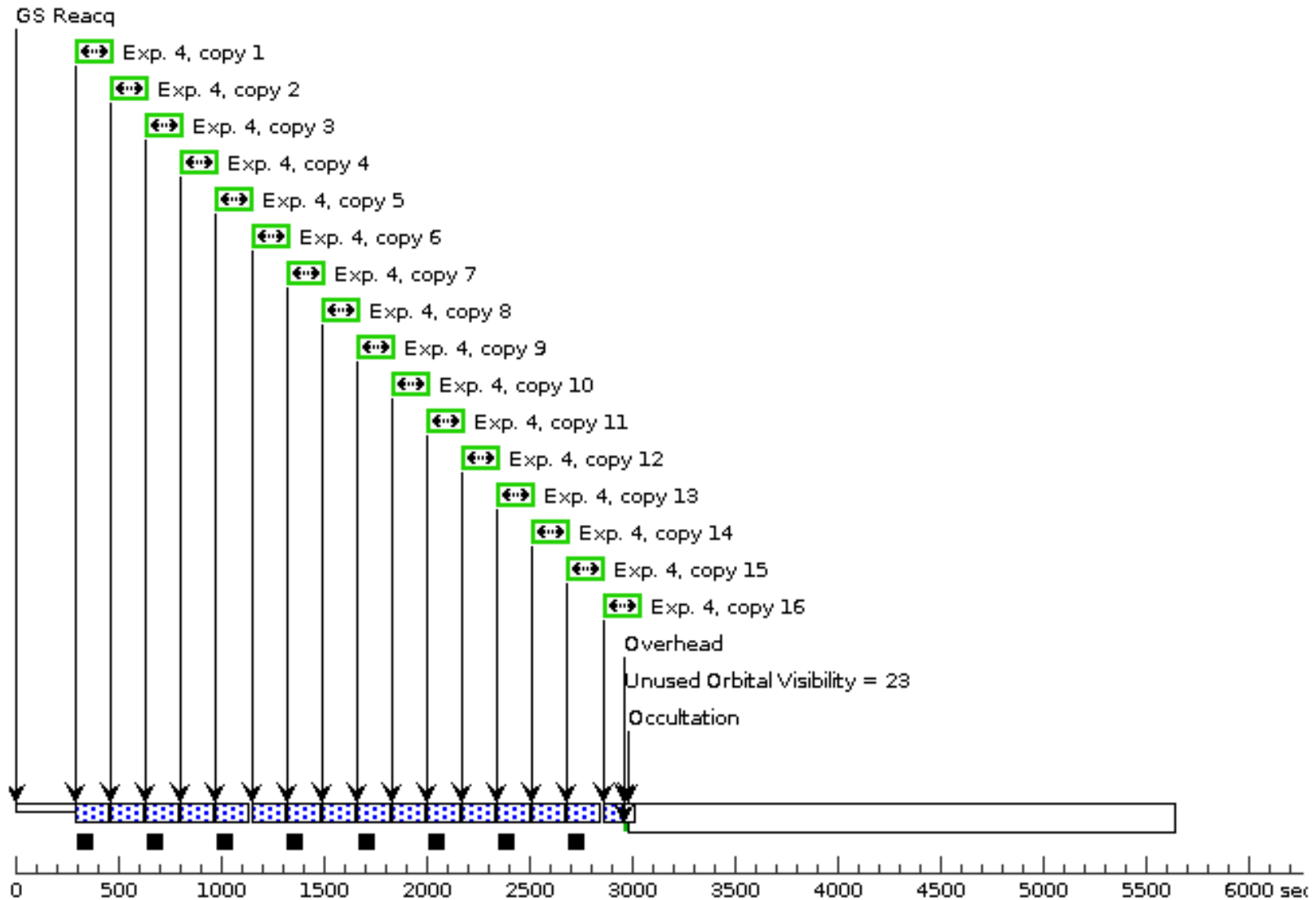
Orbit 2

Server Version: 20260618



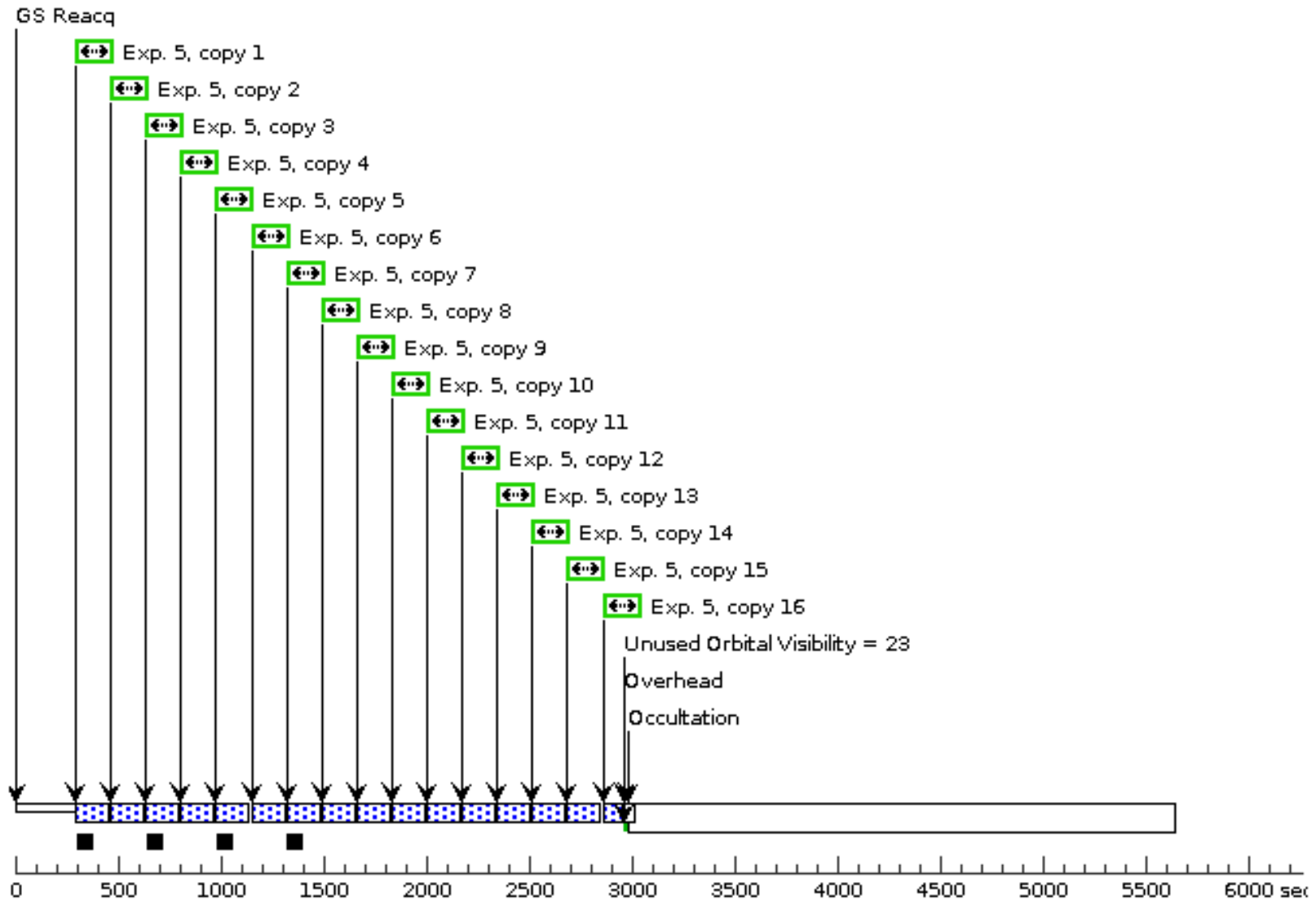
Orbit 3

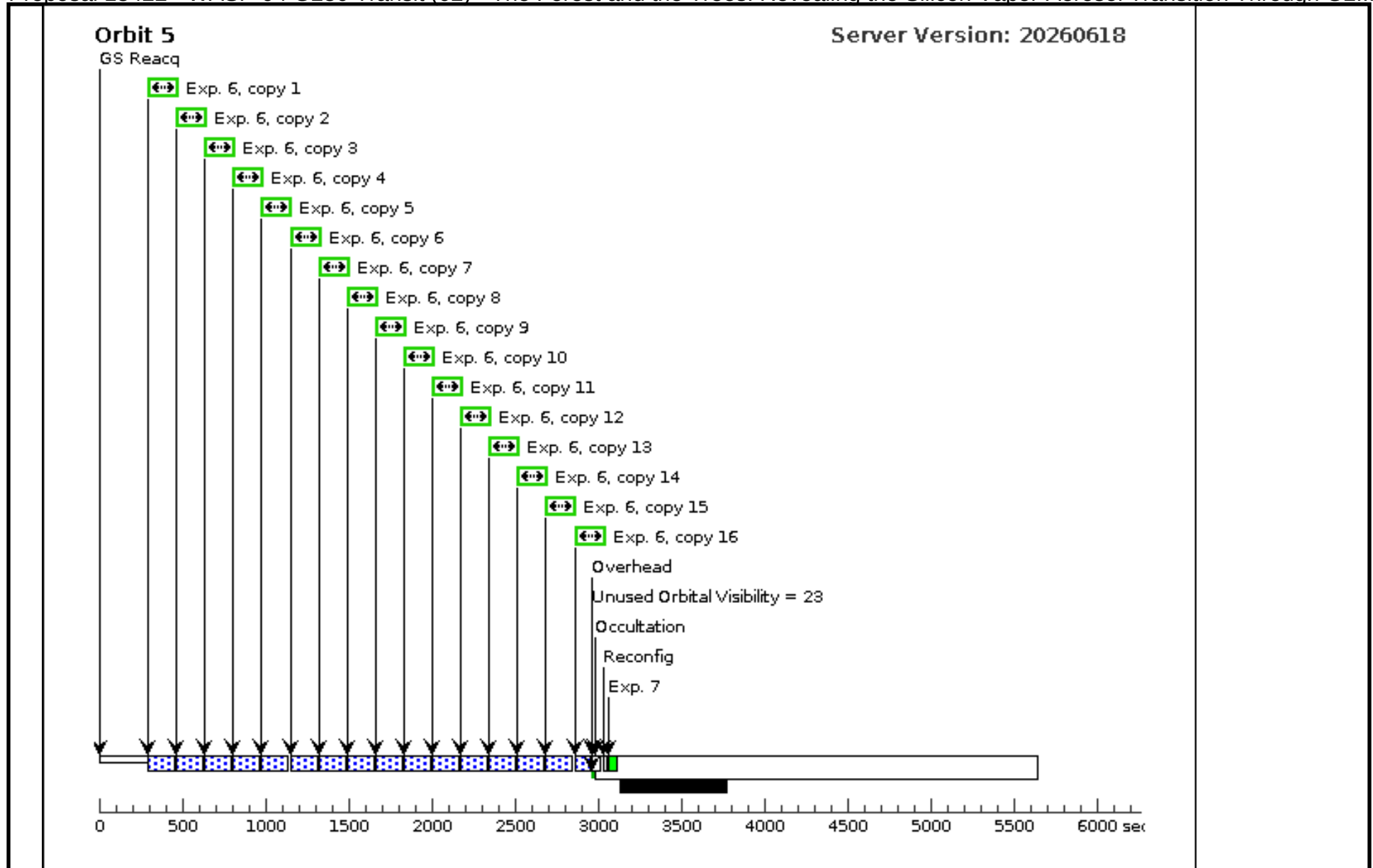
Server Version: 20260618



Orbit 4

Server Version: 20260618





Proposal 18422 - WASP-79 G280 Transit (03) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Through G2...

Visit	Proposal 18422, WASP-79 G280 Transit (03), implementation Wed Aug 19 17:01:55 GMT 2026				
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 0D TO 100 D; ORIENT 140D TO 270 D; ORIENT 320D TO 359 D; Period 3.662392 D AND ZERO-PHASE HJD2455545.23906 <i>Comments: We require all five orbits in this visit to be taken contiguously with no interruptions. These observations are phase-constrained to begin when WASP-79 b is between orbital phases 0.959155775-0.96484422 to ensure that Orbits 2 through 4 capture the maximal amount of in-transit flux. Orient constraints are included to avoid near-field sources that could contaminate our target star's trace. SIZEAXIS and CENTERAXIS parameters set to manage data volume and are based on successful past observations (GO 17183). Exposure times are calculated from the ETC using Castelli-Kurucz Models F5V 6500 4.0 with a V magnitude of 10.044. G280 exposures are expected to saturate at 77.5 s. Per WFC3 ISR 2010-10 we set exposure time to 103% of this value or 80.0 s, as G280 remains linear well beyond saturation. We do not take the exposure to 105% as in our other observations to avoid visibility overruns. Where necessary, we set FLASH to achieve a background of 20 e- to mitigate charge transfer inefficiency.</i>				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(4)	CD-30-1812 Alt Name1: WASP-79	RA: 04 25 29.0167 (66.3709029d) Dec: -30 36 1.61 (-30.60045d) Equinox: J2000	Proper Motion RA: -0.2219999999999998 mas/yr Proper Motion Dec: 2.615 mas/yr Parallax: 0.0040708" Epoch of Position: 2000	V=10.04 Reference Frame: ICRS
Fixed Targets	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>				
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, F3-F9] Extended=NO				

Proposal 18422 - WASP-79 G280 Transit (03) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Through G2...

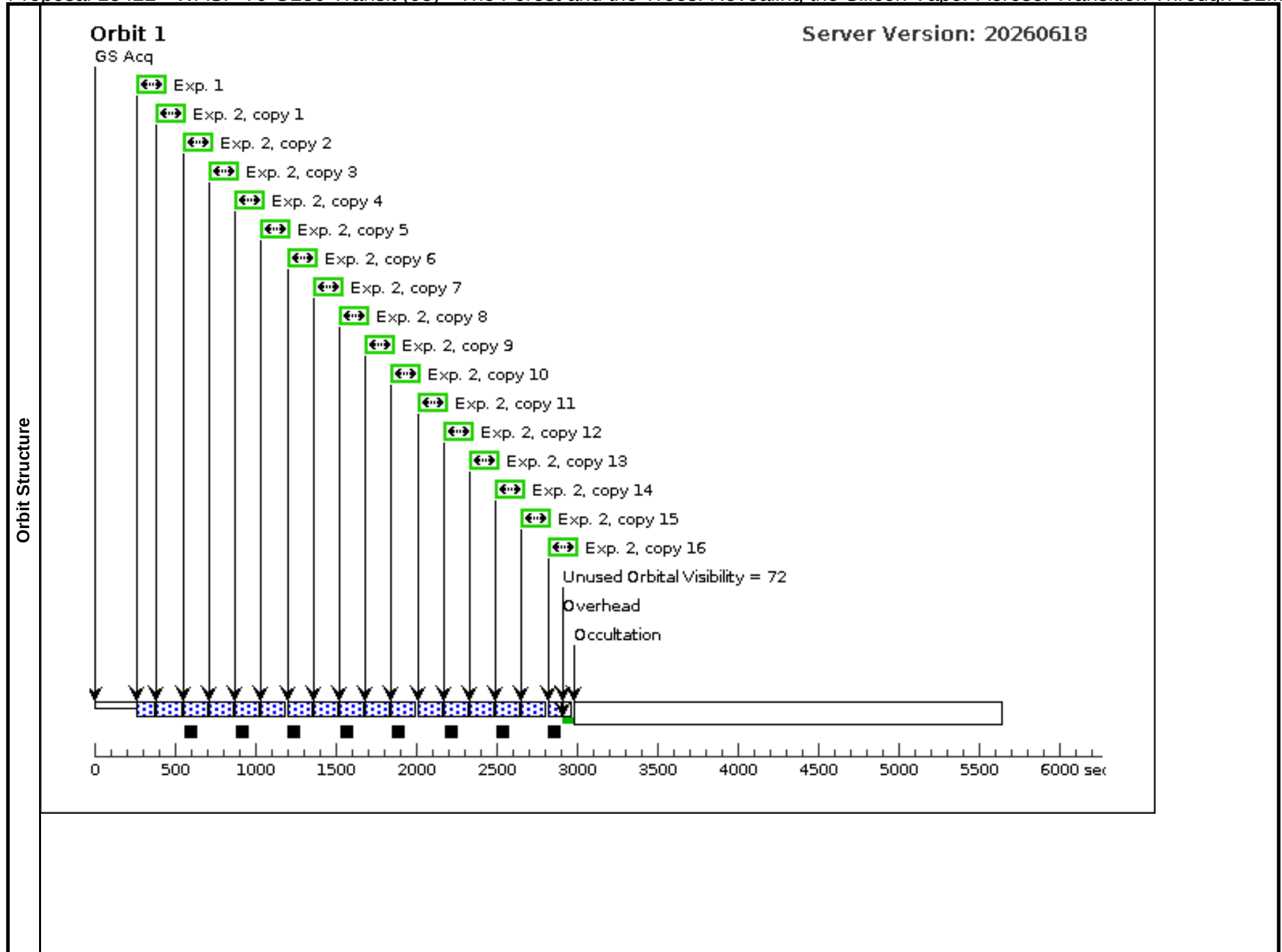
	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	WASP-79, ACQ, phase constrained (WFC3UVI S.im.2361584)	(4) CD-30-1812	WFC3/UVIS, ACCUM, G280-REF	F300X	FLASH=20; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50; PHASE 0.959155775 TO 0.96484422	Same Guide Stars in WASP-79 G280 Transit (03) Sequence 1-2 Non-Int in Same Guide Stars in WASP-79 G280 Transit (03) Same Obset in Sequence 1-2 Non-Int in Same Guide Stars in WASP-79 G280 Transit (03)	3 Secs (3 Secs) [==>]	[1]
	2	WASP-79, SCIENCE (WFC3UVI S.sp.2361588)	(4) CD-30-1812	WFC3/UVIS, ACCUM, UVIS	G280	FLASH=13; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Same Guide Stars in WASP-79 G280 Transit (03) Sequence 1-2 Non-Int in Same Guide Stars in WASP-79 G280 Transit (03) Same Obset in Sequence 1-2 Non-Int in Same Guide Stars in WASP-79 G280 Transit (03)	80 Secs X 16 (1280 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)]	[1]

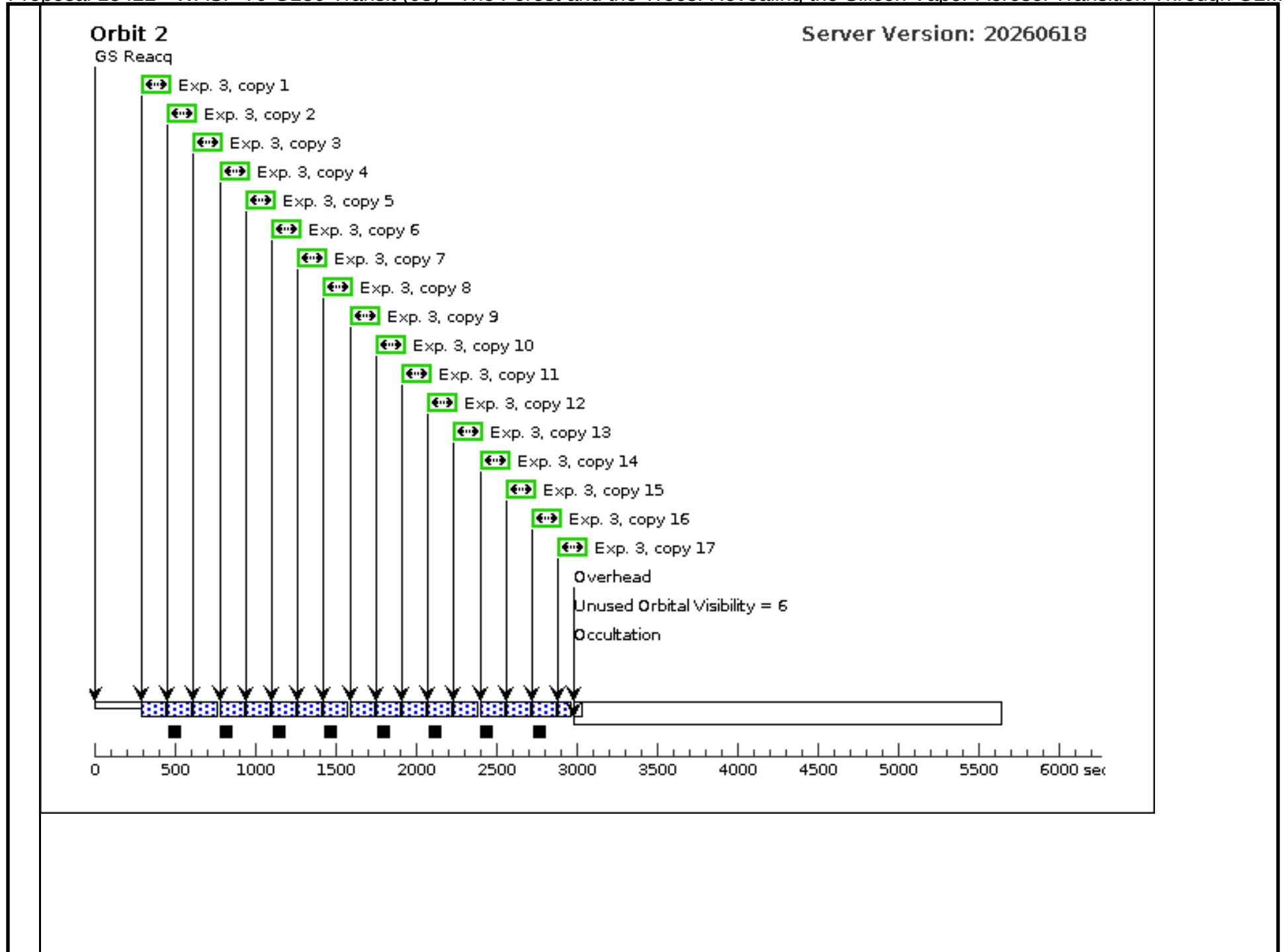
Proposal 18422 - WASP-79 G280 Transit (03) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Through G2...

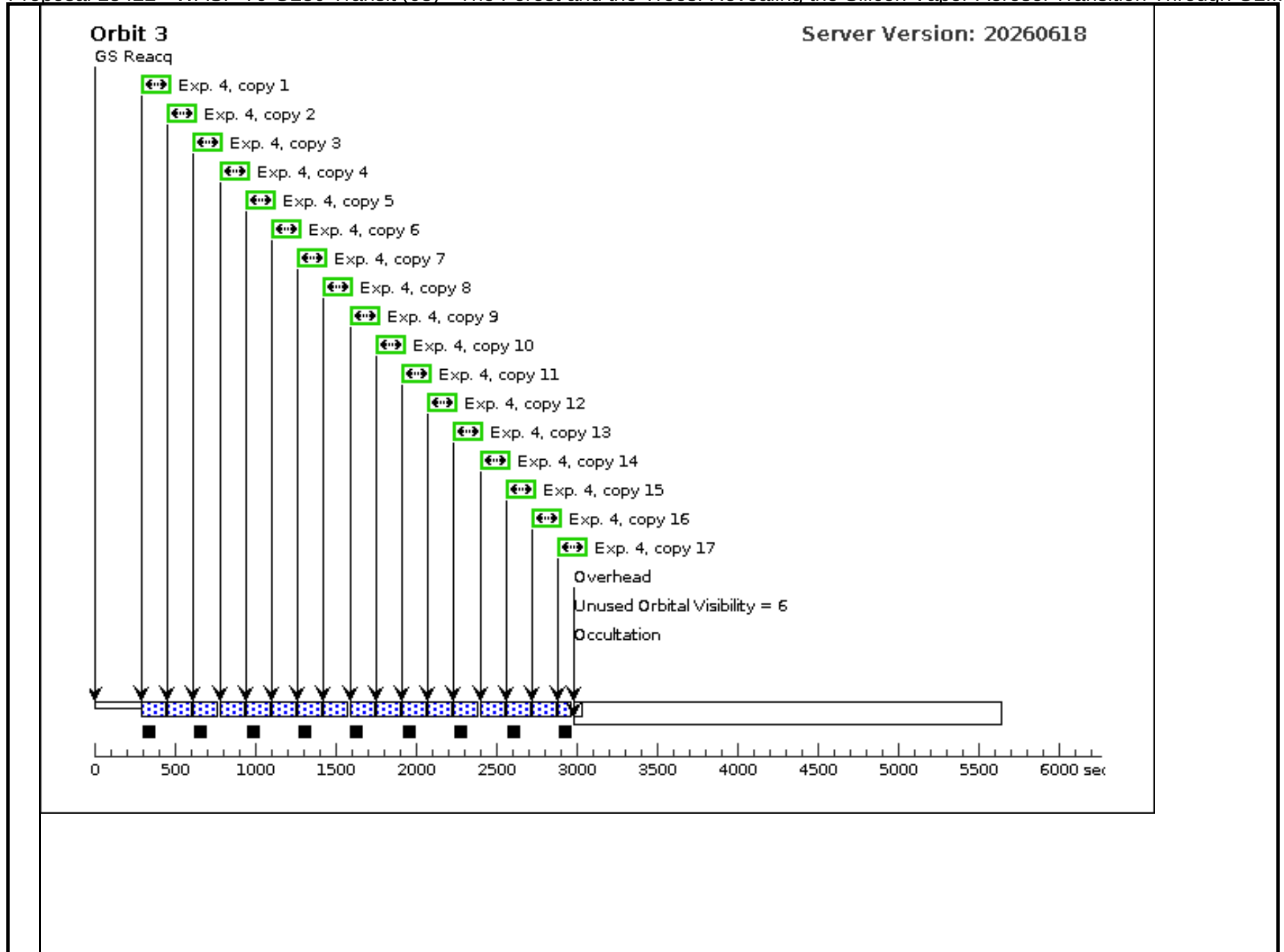
3	WASP-79, S (4) CD-30-1812 CIENCE (WFC3UVI S.sp.236158 8)	WFC3/UVIS, ACCUM, UVIS	G280	FLASH=13; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=21 48; CENTERAXIS2=12 08	POS TARG null,-50	Same Guide Stars in WASP-79 G280 Tra nsit (03) Sequence 3-3 Non-In t in Same Guide Star s in WASP-79 G280 Transit (03) Same Obset in Seque nce 3-3 Non-Int in S ame Guide Stars in WASP-79 G280 Tra nsit (03)	80 Secs X 17 (1360 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)]	[2]
4	WASP-79, S (4) CD-30-1812 CIENCE (WFC3UVI S.sp.236158 8)	WFC3/UVIS, ACCUM, UVIS	G280	FLASH=13; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=21 48; CENTERAXIS2=12 08	POS TARG null,-50	Same Guide Stars in WASP-79 G280 Tra nsit (03) Sequence 4-4 Non-In t in Same Guide Star s in WASP-79 G280 Transit (03) Same Obset in Seque nce 4-4 Non-Int in S ame Guide Stars in WASP-79 G280 Tra nsit (03)	80 Secs X 17 (1360 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)]	[3]

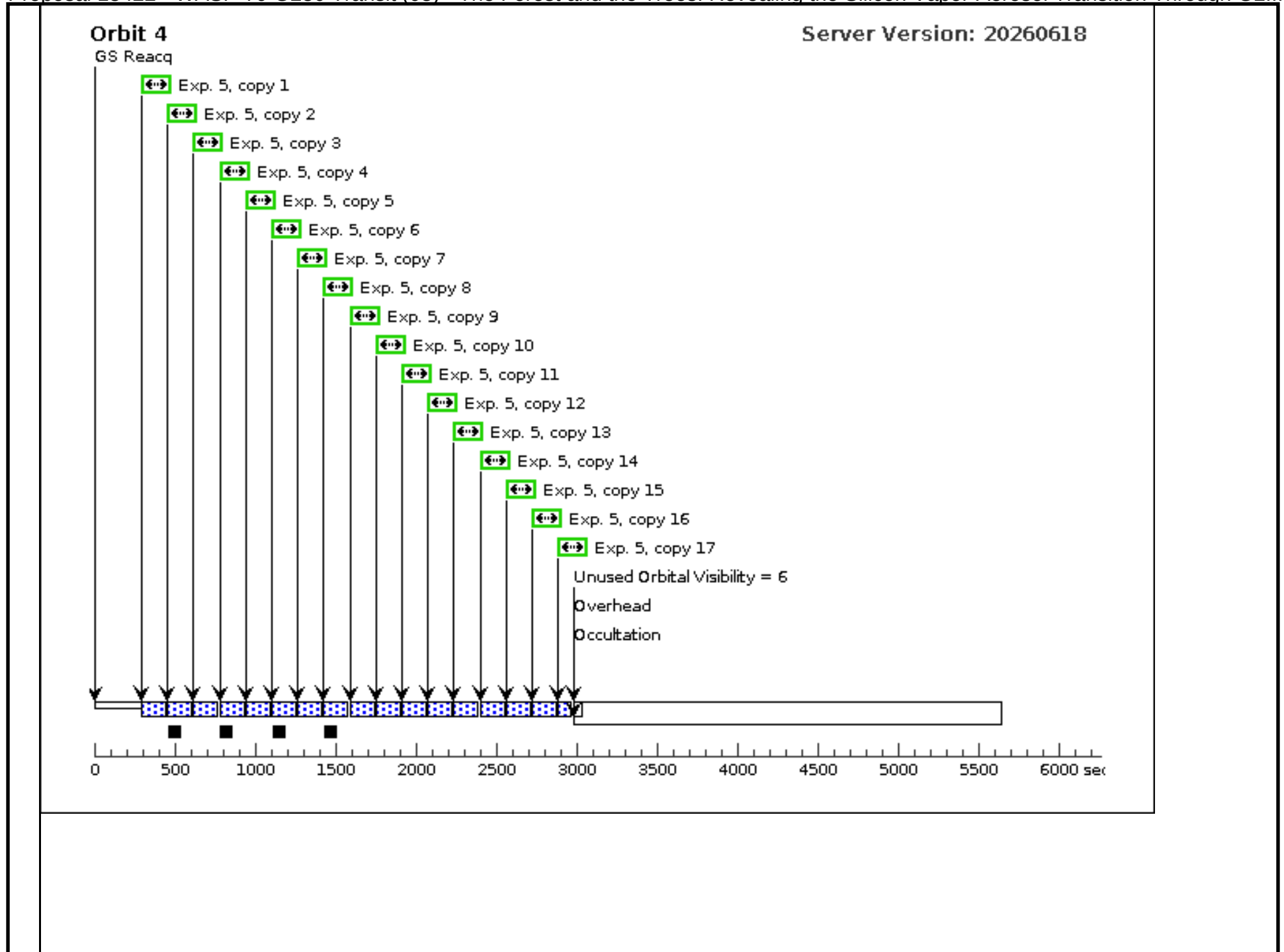
Proposal 18422 - WASP-79 G280 Transit (03) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Through G2...

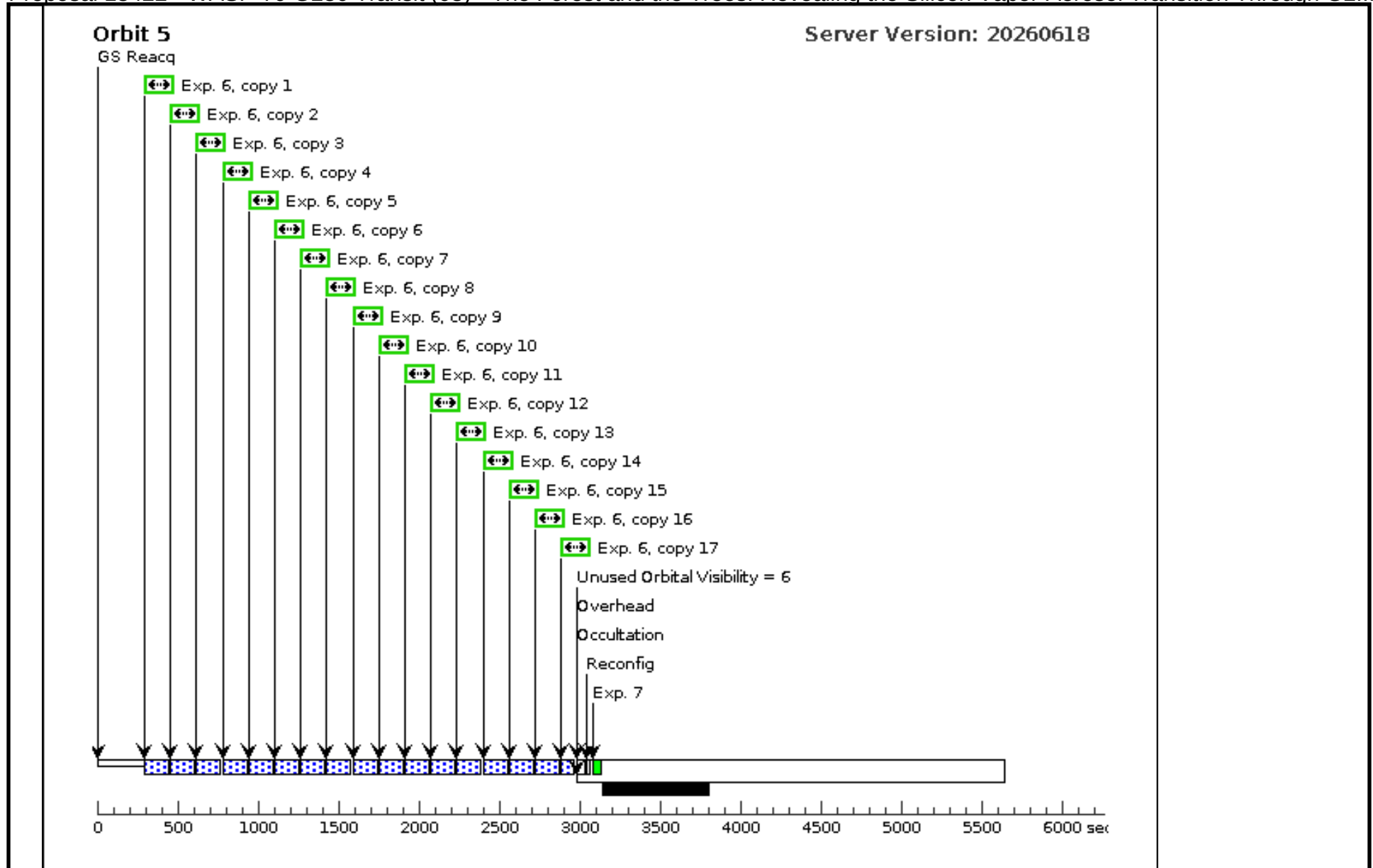
5	WASP-79, S (4) CD-30-1812 CIENCE (WFC3UVI S.sp.236158 8)	WFC3/UVIS, ACCUM, UVIS	G280	FLASH=13; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=21 48; CENTERAXIS2=12 08	POS TARG null,-50	Same Guide Stars in WASP-79 G280 Tra nsit (03) Sequence 5-5 Non-In t in Same Guide Star s in WASP-79 G280 Transit (03) Same Obset in Seque nce 5-5 Non-Int in S ame Guide Stars in WASP-79 G280 Tra nsit (03)	80 Secs X 17 (1360 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)]	[4]
6	WASP-79, S (4) CD-30-1812 CIENCE (WFC3UVI S.sp.236158 8)	WFC3/UVIS, ACCUM, UVIS	G280	FLASH=13; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=21 48; CENTERAXIS2=12 08	POS TARG null,-50	Same Guide Stars in WASP-79 G280 Tra nsit (03) Sequence 6-7 Non-In t in Same Guide Star s in WASP-79 G280 Transit (03) Same Obset in Seque nce 6-7 Non-Int in S ame Guide Stars in WASP-79 G280 Tra nsit (03)	80 Secs X 17 (1360 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)]	[5]
7	WASP-79, BIAS	WFC3/UVIS, ACCUM, UVIS	DEF	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=21 48; CENTERAXIS2=12 08		Same Guide Stars in WASP-79 G280 Tra nsit (03) Sequence 6-7 Non-In t in Same Guide Star s in WASP-79 G280 Transit (03) Same Obset in Seque nce 6-7 Non-Int in S ame Guide Stars in WASP-79 G280 Tra nsit (03)	0.0 Secs (0 Secs) [==>]	[5]











Proposal 18422 - MASCARA-4 G280 Transit (04) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Through...

Visit	Proposal 18422, MASCARA-4 G280 Transit (04), implementation Wed Aug 19 17:01:55 GMT 2026				
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 65D TO 122 D; ORIENT 220D TO 305 D; Period 2.8240932 D AND ZERO-PHASE HJD2458909.66419 Comments: We require all five orbits in this visit to be taken contiguously with no interruptions. These observations are phase-constrained to begin when MASCARA-4 b is between orbital phases 0.9513115-0.9586884996 to ensure that Orbits 2 through 4 capture the maximal amount of in-transit flux. Orient constraints are included to avoid near-field sources that could contaminate our target star's trace. SIZEAXIS and CENTERAXIS parameters set to manage data volume and are based on successful past observations (GO 17183). Due to data volume constraints, we reduce subarray size for this target to 2050x500. Exposure times are calculated from the ETC using Kurucz Models A5V 8200 4.3 with a V magnitude of 8.191. G280 exposures are expected to saturate at 9.38 s. Per WFC3 ISR 2010-10 we set exposure time to 105% of this value or 9.8 s, as G280 remains linear well beyond saturation. Where necessary, we set FLASH to achieve a background of 20 e- to mitigate charge transfer inefficiency.				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(7)	HD-85628 Alt Name1: MASCARA-4	RA: 09 50 19.2009 (147.5800038d) Dec: -66 06 49.90 (-66.11386d) Equinox: J2000	Proper Motion RA: 5.91 mas/yr Proper Motion Dec: -15.044000042507832 mas/yr Parallax: 0.0059437" Epoch of Position: 2000	V=8.19 Reference Frame: ICRS
Fixed Targets	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.				
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[A4-A9 V-IV, EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM] Extended=NO				

Proposal 18422 - MASCARA-4 G280 Transit (04) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Through...

	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	MASCARA-4, ACQ, phase constrained (WFC3UVIS.im.2361592)	(7) HD-85628	WFC3/UVIS, ACCUM, G280-REF	F300X	FLASH=20; SIZEAXIS1=2050; SIZEAXIS2=500; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50; PHASE 0.9513115 TO 0.9586884996	Same Guide Stars in MASCARA-4 G280 Transit (04) Sequence 1-2 Non-Int in Same Guide Stars in MASCARA-4 G280 Transit (04) Same Obset in Sequence 1-2 Non-Int in Same Guide Stars in MASCARA-4 G280 Transit (04)	0.5 Secs (0.5 Secs) [==>]	[1]
	2	MASCARA-4, SCIENCE (WFC3UVIS.sp.2361595)	(7) HD-85628	WFC3/UVIS, ACCUM, UVIS	G280	FLASH=20; SIZEAXIS1=2050; SIZEAXIS2=500; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Same Guide Stars in MASCARA-4 G280 Transit (04) Sequence 1-2 Non-Int in Same Guide Stars in MASCARA-4 G280 Transit (04) Same Obset in Sequence 1-2 Non-Int in Same Guide Stars in MASCARA-4 G280 Transit (04)	9.8 Secs X 31 (303.8 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)]	[1]

Proposal 18422 - MASCARA-4 G280 Transit (04) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Through...

3	MASCARA (7) HD-85628 -4, SCIENC E (WFC3UVI S.sp.236159 5)	WFC3/UVIS, ACCUM, UVIS	G280	FLASH=20; SIZEAXIS1=2050; SIZEAXIS2=500; CENTERAXIS1=21 48; CENTERAXIS2=12 08	POS TARG null,-50	Same Guide Stars in MASCARA-4 G280 Transit (04) Sequence 3-3 Non-Int in Same Guide Stars in MASCARA-4 G 280 Transit (04) Same Obset in Sequence 3-3 Non-Int in Same Guide Stars in MASCARA-4 G280 Transit (04)	9.8 Secs X 32 (313.6 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)]	[2]
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Proposal 18422 - MASCARA-4 G280 Transit (04) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Through...

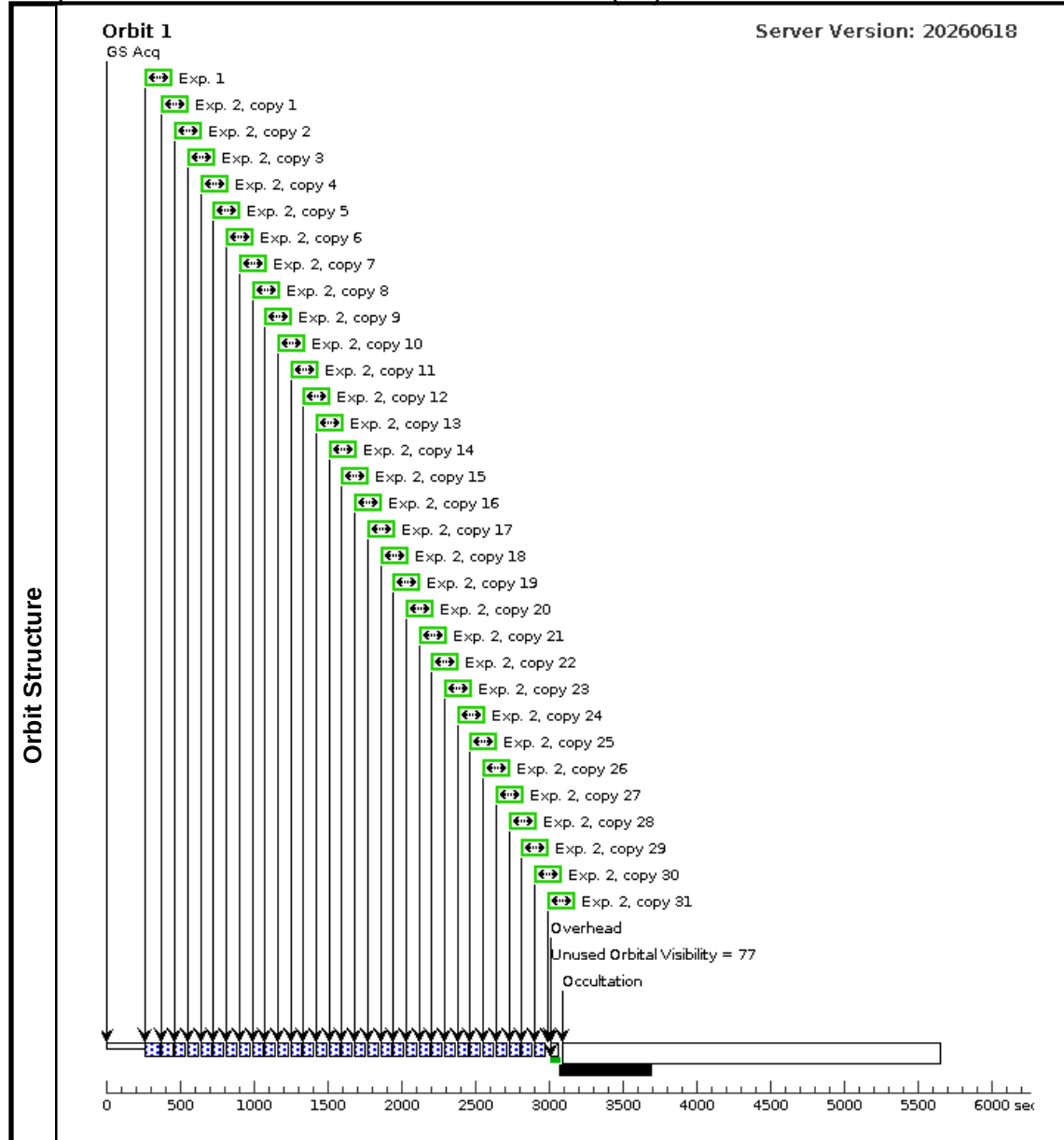
4	MASCARA (7) HD-85628 -4, SCIENC E (WFC3UVI S.sp.236159 5)	WFC3/UVIS, ACCUM, UVIS	G280	FLASH=20; SIZEAXIS1=2050; SIZEAXIS2=500; CENTERAXIS1=21 48; CENTERAXIS2=12 08	POS TARG null,-50	Same Guide Stars in MASCARA-4 G280 Transit (04) Sequence 4-4 Non-Int in Same Guide Stars in MASCARA-4 G 280 Transit (04) Same Obset in Sequence 4-4 Non-Int in Same Guide Stars in MASCARA-4 G280 Transit (04)	9.8 Secs X 32 (313.6 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)]	[3]
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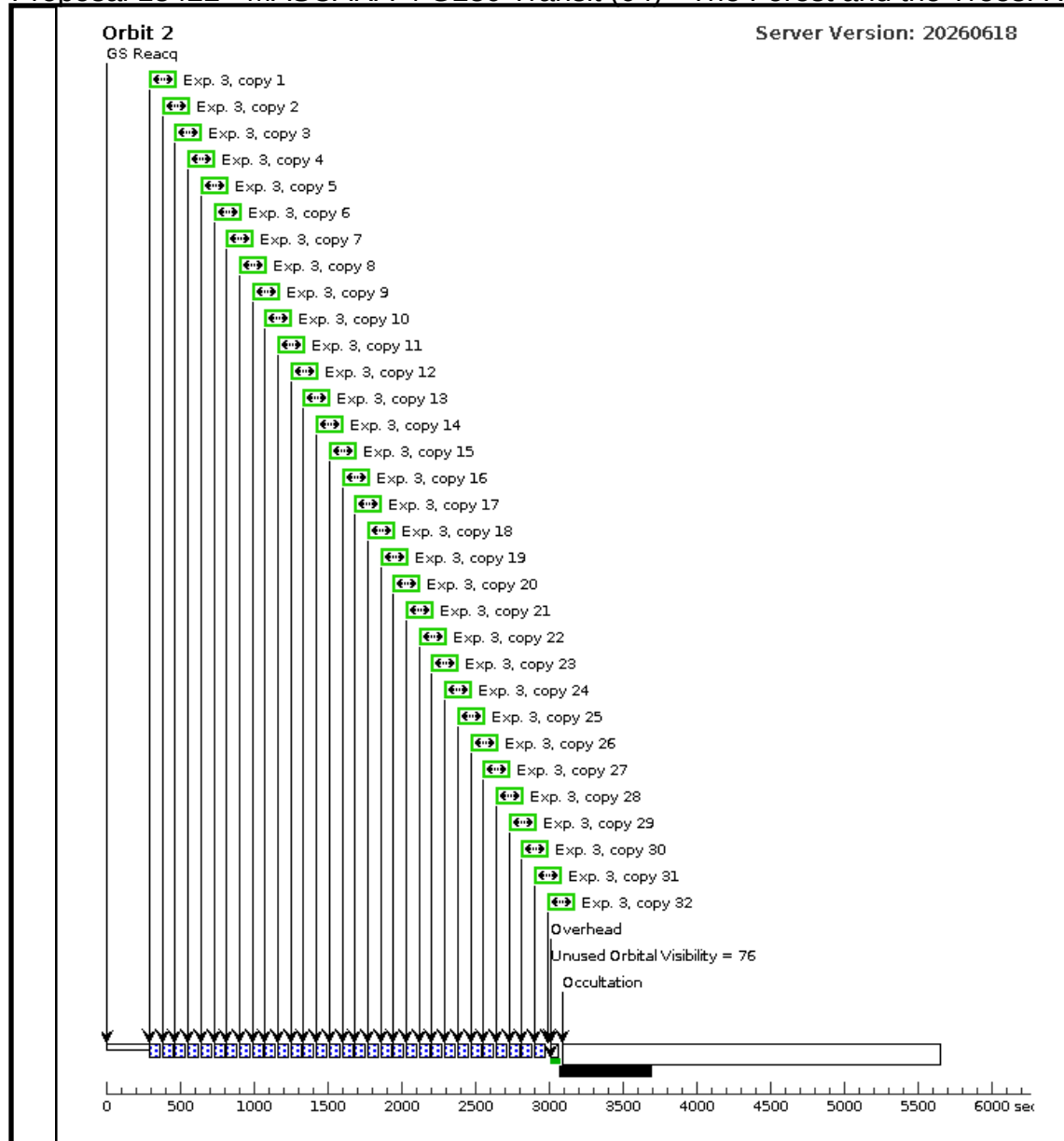
Proposal 18422 - MASCARA-4 G280 Transit (04) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Through...

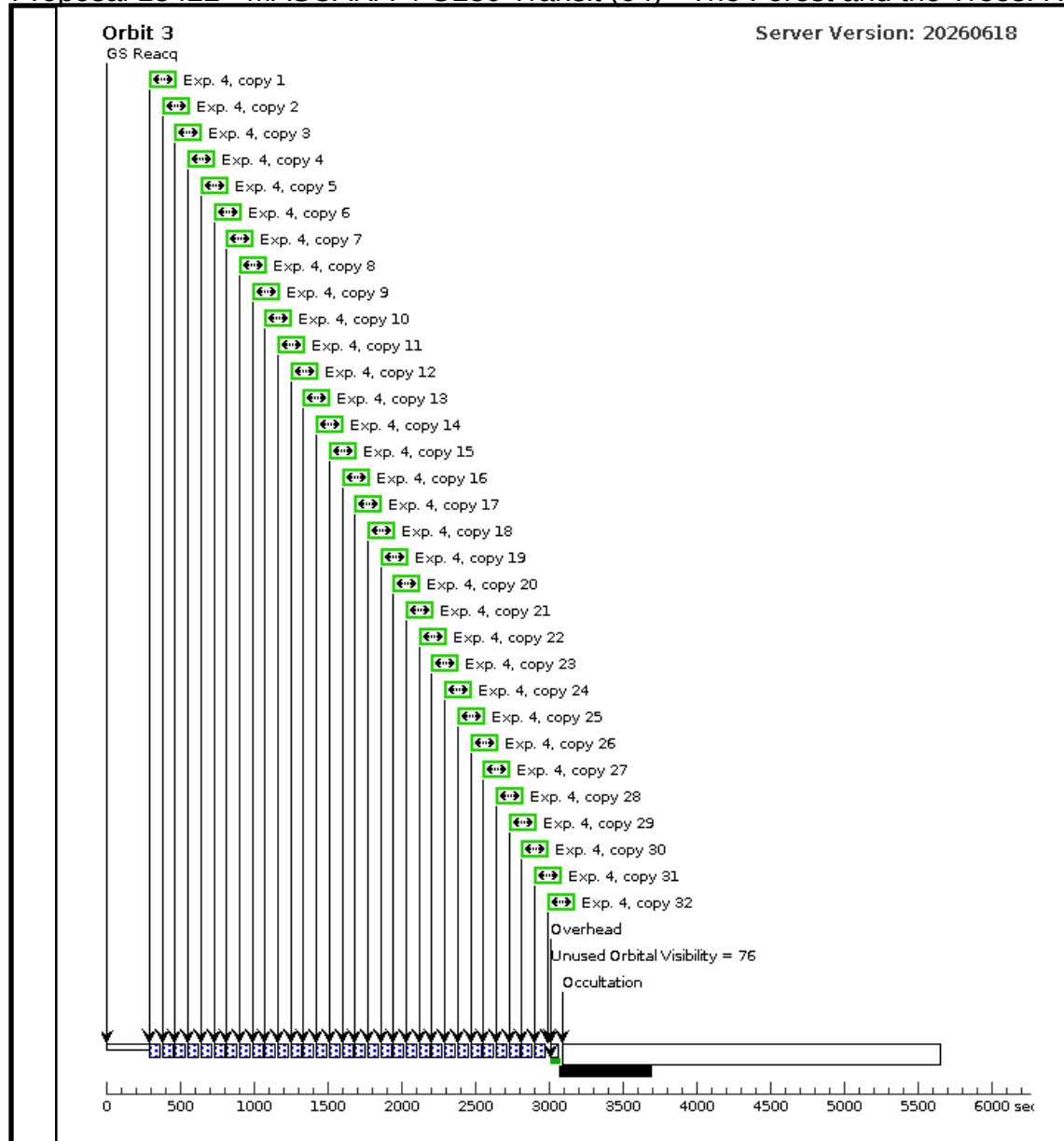
5	MASCARA (7) HD-85628 -4, SCIENC E (WFC3UVI S.sp.236159 5)	WFC3/UVIS, ACCUM, UVIS	G280	FLASH=20; SIZEAXIS1=2050; SIZEAXIS2=500; CENTERAXIS1=21 48; CENTERAXIS2=12 08	POS TARG null,-50	Same Guide Stars in MASCARA-4 G280 Transit (04) Sequence 5-5 Non-Int in Same Guide Stars in MASCARA-4 G 280 Transit (04) Same Obset in Sequence 5-5 Non-Int in Same Guide Stars in MASCARA-4 G280 Transit (04)	9.8 Secs X 32 (313.6 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)]	[4]
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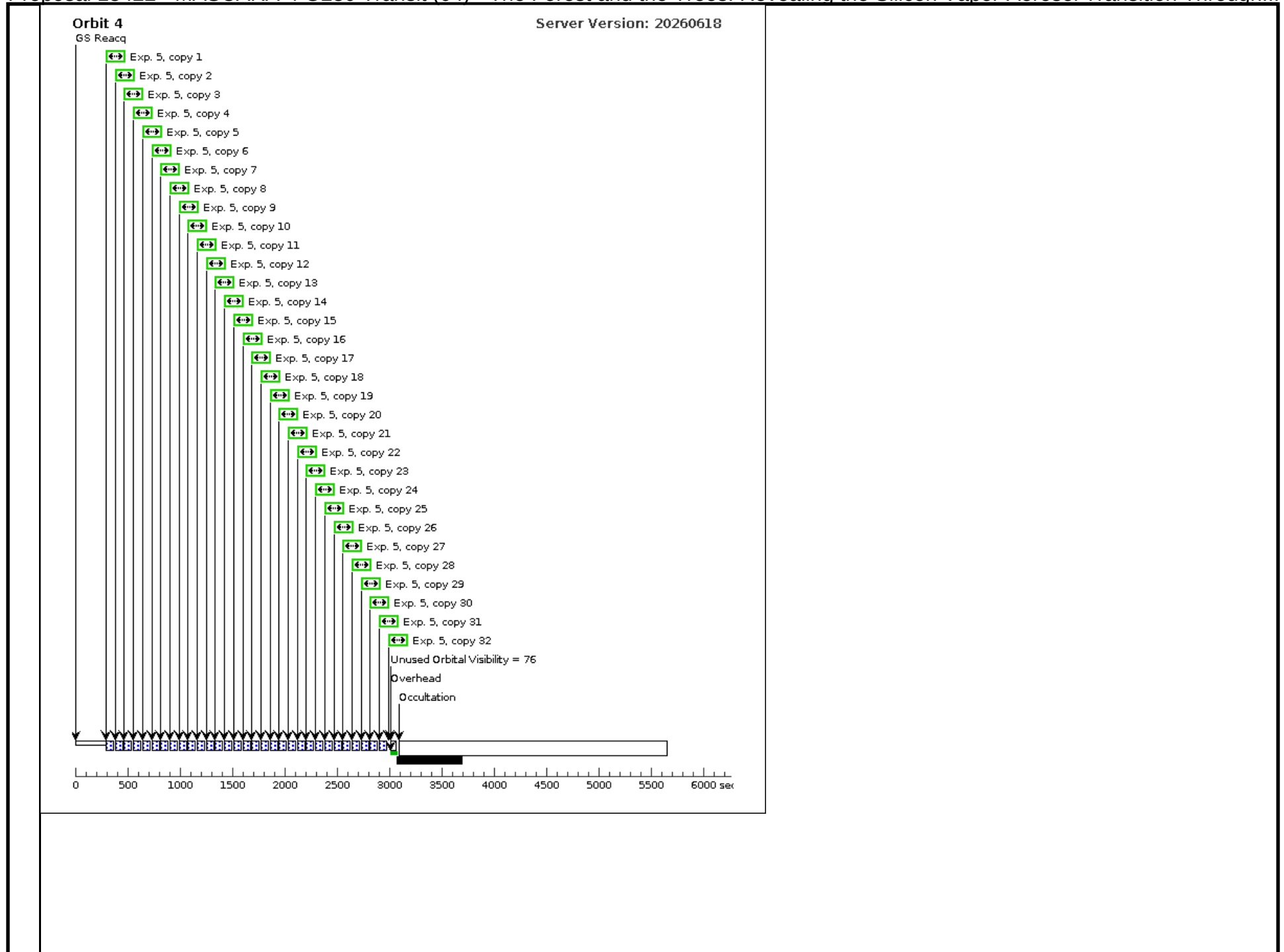
Proposal 18422 - MASCARA-4 G280 Transit (04) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Through...

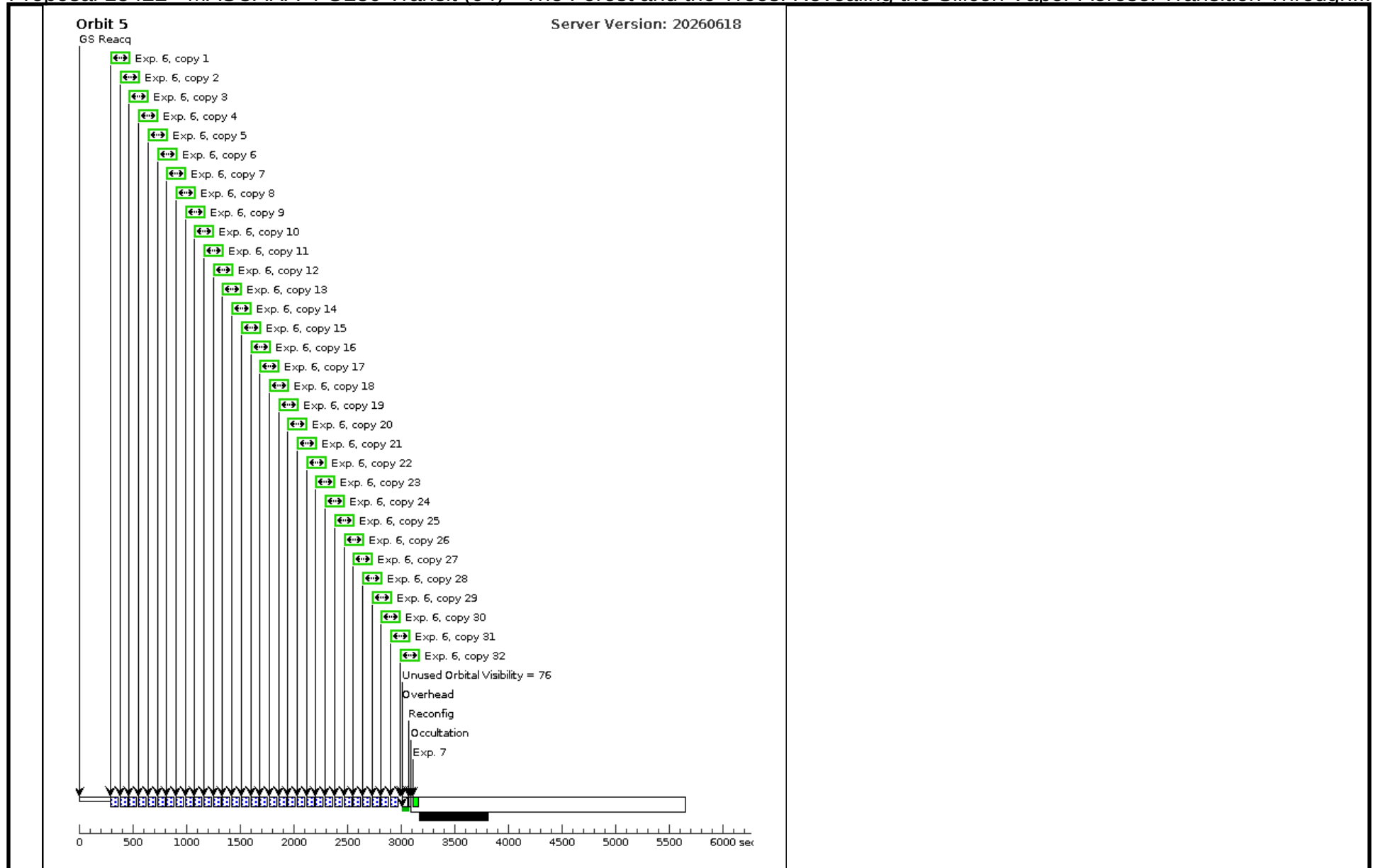
6	MASCARA (7) HD-85628 -4, SCIENC E (WFC3UVI S.sp.236159 5)	WFC3/UVIS, ACCUM, UVIS	G280	FLASH=20; SIZEAXIS1=2050; SIZEAXIS2=500; CENTERAXIS1=21 48; CENTERAXIS2=12 08	POS TARG null,-50	Same Guide Stars in MASCARA-4 G280 Transit (04) Sequence 6-7 Non-Int in Same Guide Stars in MASCARA-4 G 280 Transit (04) Same Obset in Sequence 6-7 Non-Int in Same Guide Stars in MASCARA-4 G280 Transit (04)	9.8 Secs X 32 (313.6 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)] [==>(Copy 10)] [==>(Copy 11)] [==>(Copy 12)] [==>(Copy 13)] [==>(Copy 14)] [==>(Copy 15)] [==>(Copy 16)] [==>(Copy 17)] [==>(Copy 18)] [==>(Copy 19)] [==>(Copy 20)] [==>(Copy 21)] [==>(Copy 22)] [==>(Copy 23)] [==>(Copy 24)] [==>(Copy 25)] [==>(Copy 26)] [==>(Copy 27)] [==>(Copy 28)] [==>(Copy 29)] [==>(Copy 30)] [==>(Copy 31)] [==>(Copy 32)]	[5]
7	MASCARA BIAS -4, BIAS	WFC3/UVIS, ACCUM, UVIS	DEF	SIZEAXIS1=2050; SIZEAXIS2=500; CENTERAXIS1=21 48; CENTERAXIS2=12 08		Same Guide Stars in MASCARA-4 G280 Transit (04) Sequence 6-7 Non-Int in Same Guide Stars in MASCARA-4 G 280 Transit (04) Same Obset in Sequence 6-7 Non-Int in Same Guide Stars in MASCARA-4 G280 Transit (04)	0.0 Secs (0 Secs) [==>]	[5]











Proposal 18422 - WASP-17 E230M Transit 1 of 4 (05) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

Visit	Proposal 18422, WASP-17 E230M Transit 1 of 4 (05), implementation Wed Aug 19 17:01:55 GMT 2026				
	Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: Period 3.73548546 D AND ZERO-PHASE HJD2457569.988220 Comments: We require all five orbits in this visit to be taken contiguously with no interruptions. These observations are phase-constrained to begin when WASP-17 b is between orbital phases 0.9542114289-0.95978857 to ensure that Orbits 2 through 4 capture the maximal amount of in-transit flux. Exposure times are calculated from the ETC using Castelli-Kurucz Models F5V 6500 4.0 with a V magnitude of 11.588, which predicts count rates low enough to enable use of TIME TAG mode. Per recommendations by STIS Instrument Handbook chapter 11.1.3, we reduce the buffer time from 1416 s (recommended by the ETC) to 1133 s (4/5 of the ETC value). This results in 15 buffer dumps in one visit, which does not exceed the threshold specified by the STIS Instrument Handbook chapter 11.1.3.				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(3)	CD-27-10695 Alt Name1: WASP-17	RA: 15 59 50.9492 (239.9622883d) Dec: -28 03 42.31 (-28.06175d) Equinox: J2000	Proper Motion RA: -8.263 mas/yr Proper Motion Dec: -9.427000031791977 mas/yr Parallax: 0.0024811" Epoch of Position: 2000	V=11.59 Reference Frame: ICRS
Fixed Targets	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, F3-F9] Extended=NO				

Proposal 18422 - WASP-17 E230M Transit 1 of 4 (05) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	WASP-17, ACQ, phase -constrained (STIS.ta.236 1008)	(3) CD-27-10695	STIS/CCD, ACQ, F28X50LP	MIRROR		PHASE 0.95421142 89 TO 0.95978857	Same Guide Stars in WASP-17 E230M Tr ansit 1 of 4 (05) Sequence 1-3 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 1 of 4 (05) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 1 of 4 (05)	1 Secs (1 Secs) [==>]	[1]
	2	WASP-17, S CIENCE (STIS.sp.23 61012)	(3) CD-27-10695	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 33; WAVECAL=NO		Same Guide Stars in WASP-17 E230M Tr ansit 1 of 4 (05) Sequence 1-3 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 1 of 4 (05) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 1 of 4 (05)	2188 Secs (2188 Secs) [==>]	[1]
	3	WASP-17, P OST-SCI W AVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A			Same Guide Stars in WASP-17 E230M Tr ansit 1 of 4 (05) Sequence 1-3 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 1 of 4 (05) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 1 of 4 (05)	[==>]	[1]
	4	WASP-17, S CIENCE (STIS.sp.23 61012)	(3) CD-27-10695	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 33; WAVECAL=NO		Same Guide Stars in WASP-17 E230M Tr ansit 1 of 4 (05) Sequence 4-5 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 1 of 4 (05) Same Obset in Seque nce 4-5 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 1 of 4 (05)	2573 Secs (2573 Secs) [==>]	[2]

Proposal 18422 - WASP-17 E230M Transit 1 of 4 (05) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

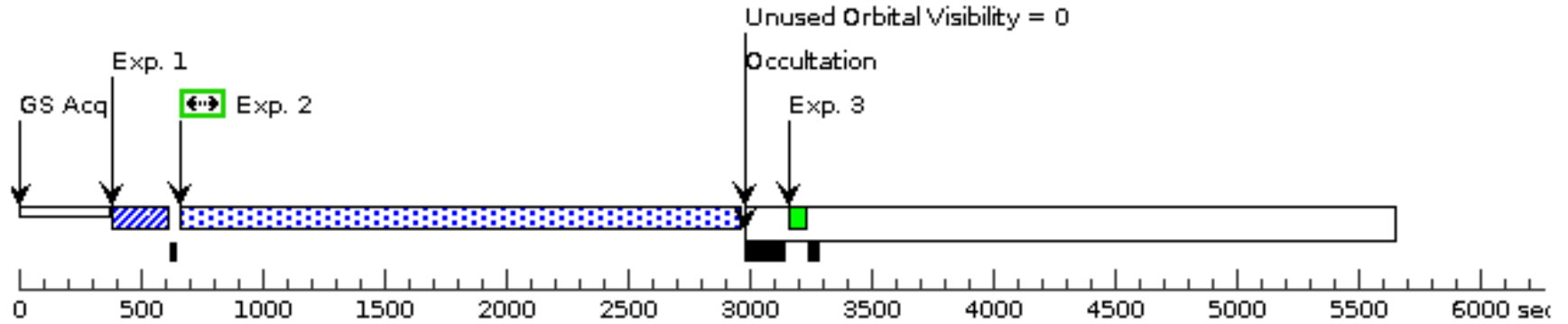
5	WASP-17, P WAVE OST-SCI W AVECAL	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in WASP-17 E230M Tr ansit 1 of 4 (05) Sequence 4-5 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 1 of 4 (05) Same Obset in Seque nce 4-5 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 1 of 4 (05)	[==>]	[2]
6	WASP-17, S (3) CD-27-10695 CIENCE (STIS.sp.23 61012)	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 33; WAVECAL=NO	Same Guide Stars in WASP-17 E230M Tr ansit 1 of 4 (05) Sequence 6-7 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 1 of 4 (05) Same Obset in Seque nce 6-7 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 1 of 4 (05)	2573 Secs (2573 Secs) [==>]	[3]
7	WASP-17, P WAVE OST-SCI W AVECAL	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in WASP-17 E230M Tr ansit 1 of 4 (05) Sequence 6-7 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 1 of 4 (05) Same Obset in Seque nce 6-7 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 1 of 4 (05)	[==>]	[3]
8	WASP-17, S (3) CD-27-10695 CIENCE (STIS.sp.23 61012)	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 33; WAVECAL=NO	Same Guide Stars in WASP-17 E230M Tr ansit 1 of 4 (05) Sequence 8-9 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 1 of 4 (05) Same Obset in Seque nce 8-9 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 1 of 4 (05)	2573 Secs (2573 Secs) [==>]	[4]
9	WASP-17, P WAVE OST-SCI W AVECAL	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in WASP-17 E230M Tr ansit 1 of 4 (05) Sequence 8-9 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 1 of 4 (05) Same Obset in Seque nce 8-9 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 1 of 4 (05)	[==>]	[4]

Proposal 18422 - WASP-17 E230M Transit 1 of 4 (05) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

	10	WASP-17, S (3) CD-27-10695 CIENCE (STIS.sp.23 61012)	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 33; WAVECAL=NO	Same Guide Stars in WASP-17 E230M Tr ansit 1 of 4 (05) Sequence 10-11 Non -Int in Same Guide S tars in WASP-17 E2 30M Transit 1 of 4 (05) Same Obset in Seque nce 10-11 Non-Int in Same Guide Stars in WASP-17 E230M Tr ansit 1 of 4 (05)	2573 Secs (2573 Secs) [==>]	[5]
	11	WASP-17, P WAVE OST-SCI W AVECAL	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in WASP-17 E230M Tr ansit 1 of 4 (05) Sequence 10-11 Non -Int in Same Guide S tars in WASP-17 E2 30M Transit 1 of 4 (05) Same Obset in Seque nce 10-11 Non-Int in Same Guide Stars in WASP-17 E230M Tr ansit 1 of 4 (05)	[==>]	[5]

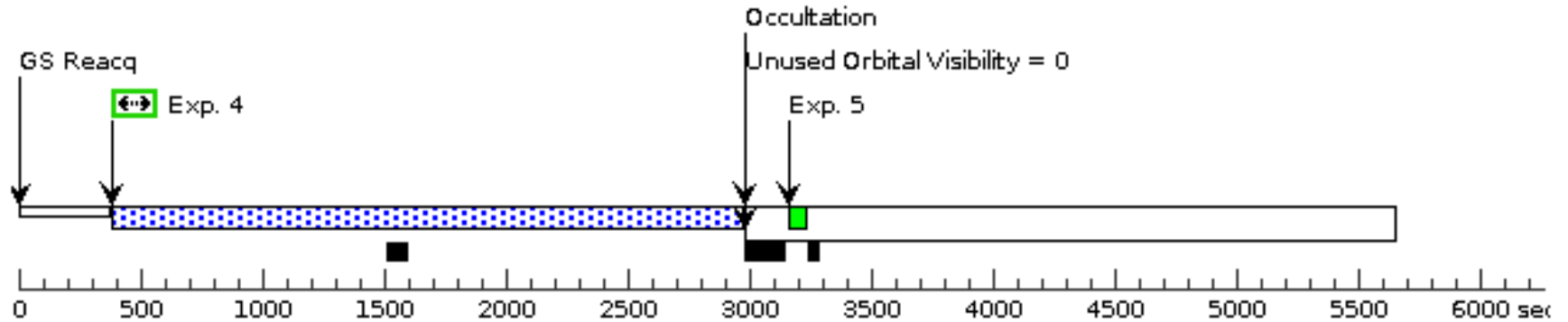
Orbit 1

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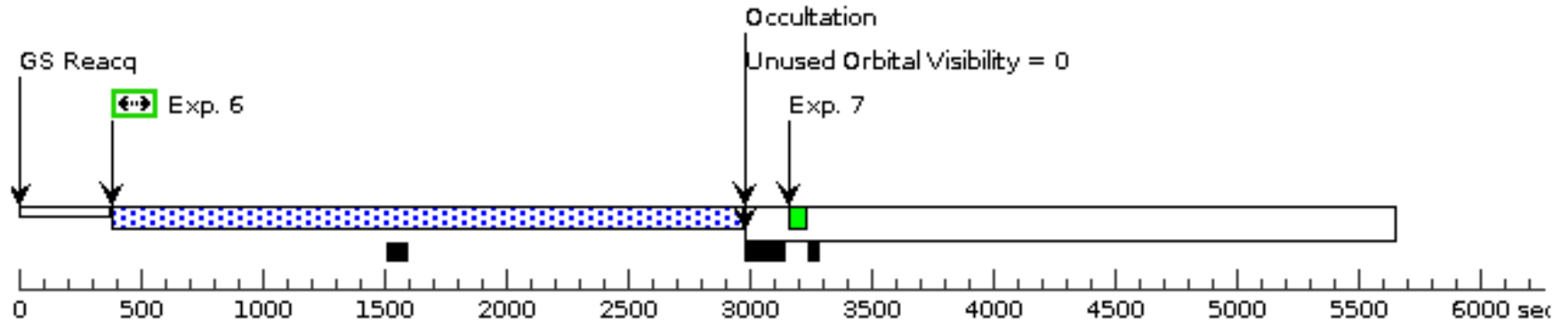
Orbit 2

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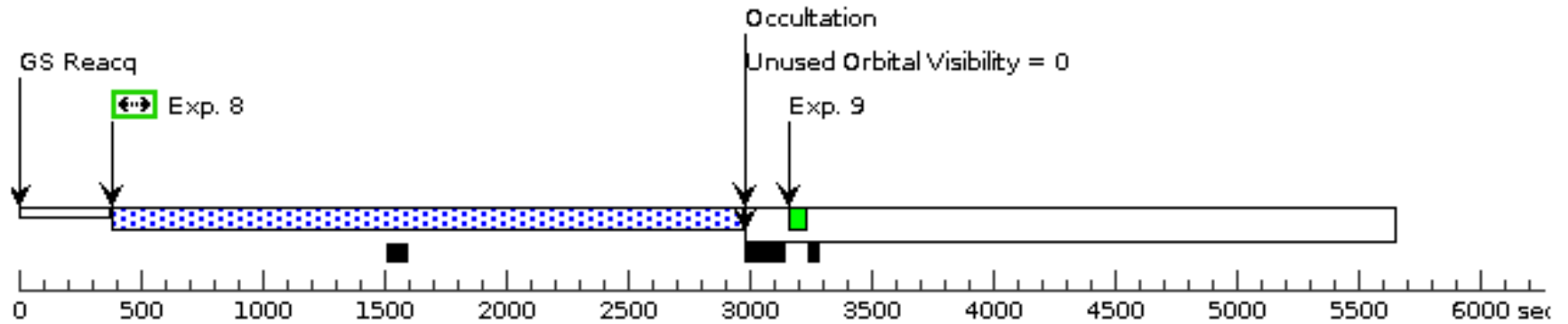
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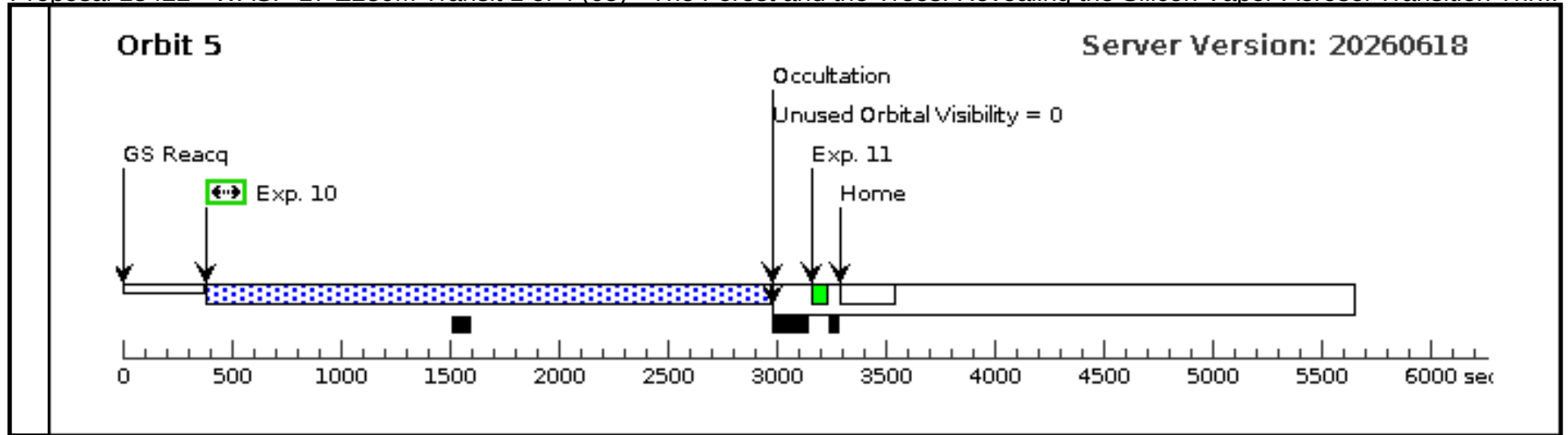
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Orbit 4

Server Version: 20260618





Proposal 18422 - WASP-17 E230M Transit 2 of 4 (06) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

Visit	Proposal 18422, WASP-17 E230M Transit 2 of 4 (06), implementation Wed Aug 19 17:01:55 GMT 2026				
	Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: Period 3.73548546 D AND ZERO-PHASE HJD2457569.988220 Comments: We require all five orbits in this visit to be taken contiguously with no interruptions. These observations are phase-constrained to begin when WASP-17 b is between orbital phases 0.9542114289-0.95978857 to ensure that Orbits 2 through 4 capture the maximal amount of in-transit flux. Exposure times are calculated from the ETC using Castelli-Kurucz Models F5V 6500 4.0 with a V magnitude of 11.588, which predicts count rates low enough to enable use of TIME TAG mode. Per recommendations by STIS Instrument Handbook chapter 11.1.3, we reduce the buffer time from 1416 s (recommended by the ETC) to 1133 s (4/5 of the ETC value). This results in 15 buffer dumps in one visit, which does not exceed the threshold specified by the STIS Instrument Handbook chapter 11.1.3.				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(3)	CD-27-10695 Alt Name1: WASP-17	RA: 15 59 50.9492 (239.9622883d) Dec: -28 03 42.31 (-28.06175d) Equinox: J2000	Proper Motion RA: -8.263 mas/yr Proper Motion Dec: -9.427000031791977 mas/yr Parallax: 0.0024811" Epoch of Position: 2000	V=11.59 Reference Frame: ICRS
Fixed Targets	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, F3-F9] Extended=NO				

Proposal 18422 - WASP-17 E230M Transit 2 of 4 (06) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	WASP-17, ACQ, phase -constrained (STIS.ta.236 1008)	(3) CD-27-10695	STIS/CCD, ACQ, F28X50LP	MIRROR		PHASE 0.95421142 89 TO 0.95978857	Same Guide Stars in WASP-17 E230M Tr ansit 2 of 4 (06) Sequence 1-3 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 2 of 4 (06) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 2 of 4 (06)	1 Secs (1 Secs) [==>]	[1]
	2	WASP-17, S CIENCE (STIS.sp.23 61012)	(3) CD-27-10695	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 33; WAVECAL=NO		Same Guide Stars in WASP-17 E230M Tr ansit 2 of 4 (06) Sequence 1-3 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 2 of 4 (06) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 2 of 4 (06)	2188 Secs (2188 Secs) [==>]	[1]
	3	WASP-17, P OST-SCI W AVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A			Same Guide Stars in WASP-17 E230M Tr ansit 2 of 4 (06) Sequence 1-3 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 2 of 4 (06) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 2 of 4 (06)	[==>]	[1]
	4	WASP-17, S CIENCE (STIS.sp.23 61012)	(3) CD-27-10695	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 33; WAVECAL=NO		Same Guide Stars in WASP-17 E230M Tr ansit 2 of 4 (06) Sequence 4-5 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 2 of 4 (06) Same Obset in Seque nce 4-5 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 2 of 4 (06)	2573 Secs (2573 Secs) [==>]	[2]

Proposal 18422 - WASP-17 E230M Transit 2 of 4 (06) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

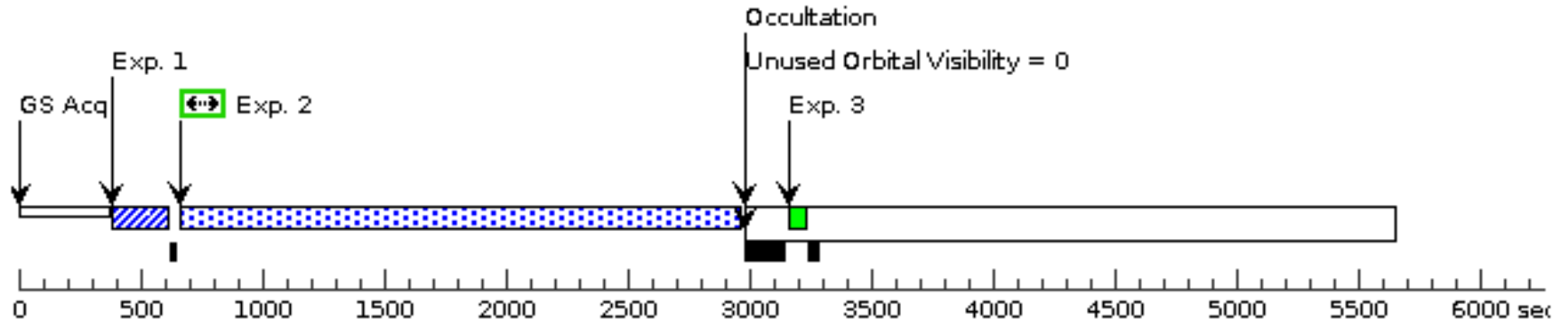
5	WASP-17, P WAVE OST-SCI W AVECAL	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in WASP-17 E230M Tr ansit 2 of 4 (06) Sequence 4-5 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 2 of 4 (06) Same Obset in Seque nce 4-5 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 2 of 4 (06)	[==>]	[2]
6	WASP-17, S (3) CD-27-10695 CIENCE (STIS.sp.23 61012)	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 33; WAVECAL=NO	Same Guide Stars in WASP-17 E230M Tr ansit 2 of 4 (06) Sequence 6-7 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 2 of 4 (06) Same Obset in Seque nce 6-7 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 2 of 4 (06)	2573 Secs (2573 Secs) [==>]	[3]
7	WASP-17, P WAVE OST-SCI W AVECAL	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in WASP-17 E230M Tr ansit 2 of 4 (06) Sequence 6-7 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 2 of 4 (06) Same Obset in Seque nce 6-7 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 2 of 4 (06)	[==>]	[3]
8	WASP-17, S (3) CD-27-10695 CIENCE (STIS.sp.23 61012)	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 33; WAVECAL=NO	Same Guide Stars in WASP-17 E230M Tr ansit 2 of 4 (06) Sequence 8-9 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 2 of 4 (06) Same Obset in Seque nce 8-9 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 2 of 4 (06)	2573 Secs (2573 Secs) [==>]	[4]
9	WASP-17, P WAVE OST-SCI W AVECAL	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in WASP-17 E230M Tr ansit 2 of 4 (06) Sequence 8-9 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 2 of 4 (06) Same Obset in Seque nce 8-9 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 2 of 4 (06)	[==>]	[4]

Proposal 18422 - WASP-17 E230M Transit 2 of 4 (06) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

	10	WASP-17, S (3) CD-27-10695 CIENCE (STIS.sp.23 61012)	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 33; WAVECAL=NO	Same Guide Stars in WASP-17 E230M Tr ansit 2 of 4 (06) Sequence 10-11 Non -Int in Same Guide S tars in WASP-17 E2 30M Transit 2 of 4 (06) Same Obset in Seque nce 10-11 Non-Int in Same Guide Stars in WASP-17 E230M Tr ansit 2 of 4 (06)	2573 Secs (2573 Secs) [==>]	[5]
	11	WASP-17, P WAVE OST-SCI W AVECAL	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in WASP-17 E230M Tr ansit 2 of 4 (06) Sequence 10-11 Non -Int in Same Guide S tars in WASP-17 E2 30M Transit 2 of 4 (06) Same Obset in Seque nce 10-11 Non-Int in Same Guide Stars in WASP-17 E230M Tr ansit 2 of 4 (06)	[==>]	[5]

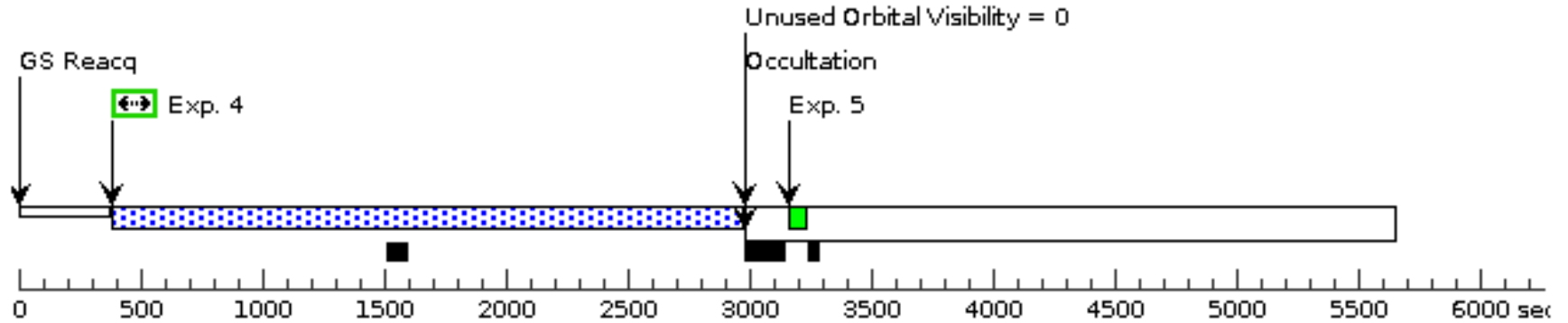
Orbit 1

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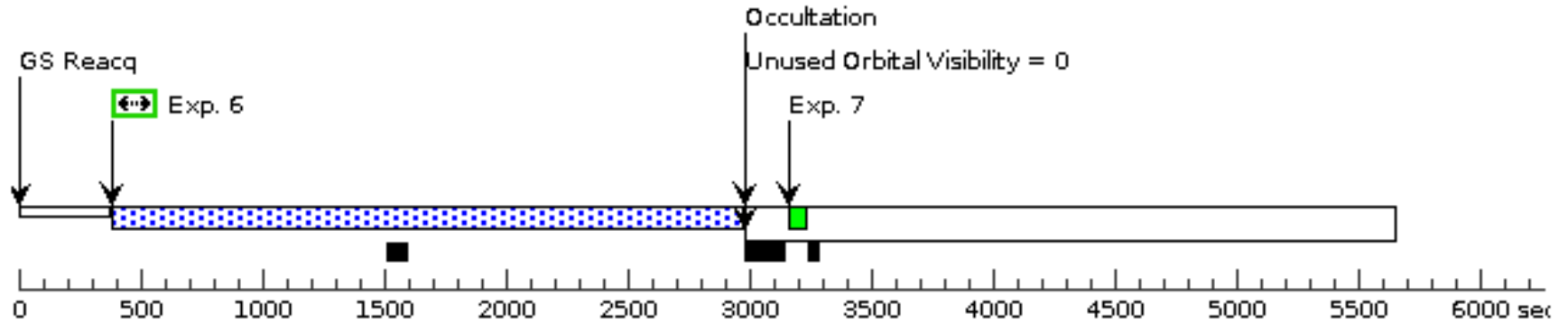
Orbit 2

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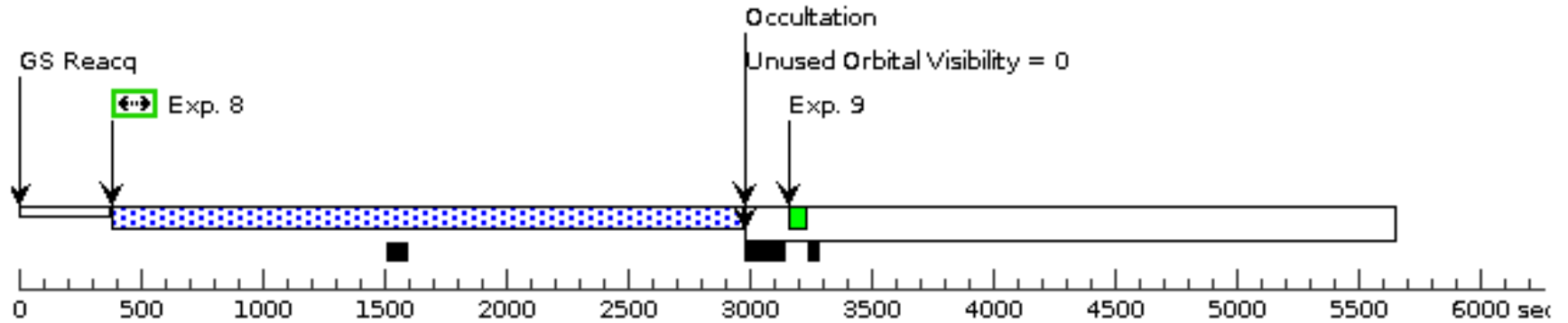
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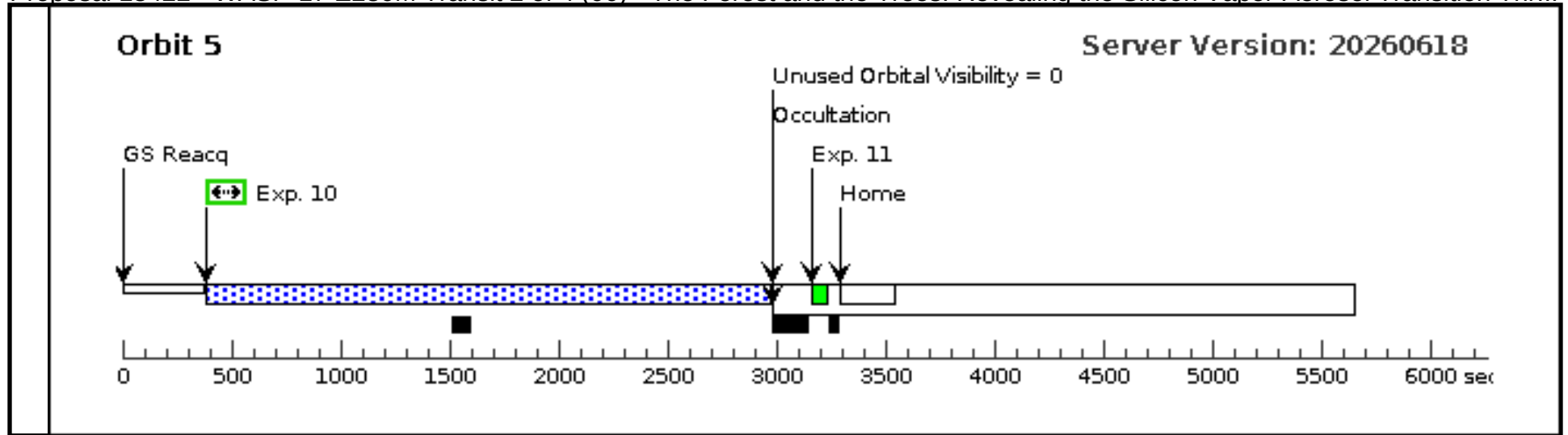
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Orbit 4

Server Version: 20260618





Proposal 18422 - WASP-17 E230M Transit 3 of 4 (07) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

Visit	Proposal 18422, WASP-17 E230M Transit 3 of 4 (07), implementation					Wed Aug 19 17:01:55 GMT 2026
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD					
	Special Requirements: Period 3.73548546 D AND ZERO-PHASE HJD2457569.988220					
	Comments: We require all five orbits in this visit to be taken contiguously with no interruptions. These observations are phase-constrained to begin when WASP-17 b is between orbital phases 0.9542114289-0.95978857 to ensure that Orbits 2 through 4 capture the maximal amount of in-transit flux. Exposure times are calculated from the ETC using Castelli-Kurucz Models F5V 6500 4.0 with a V magnitude of 11.588, which predicts count rates low enough to enable use of TIME TAG mode. Per recommendations by STIS Instrument Handbook chapter 11.1.3, we reduce the buffer time from 1416 s (recommended by the ETC) to 1133 s (4/5 of the ETC value). This results in 15 buffer dumps in one visit, which does not exceed the threshold specified by the STIS Instrument Handbook chapter 11.1.3.					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	CD-27-10695	RA: 15 59 50.9492 (239.9622883d)	Proper Motion RA: -8.263 mas/yr	V=11.59	Reference Frame: ICRS
		Alt Name1: WASP-17	Dec: -28 03 42.31 (-28.06175d)	Proper Motion Dec: -9.427000031791977 mas/yr		
			Equinox: J2000	Parallax: 0.0024811"		
				Epoch of Position: 2000		
		Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.				
	SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.					
	Category=STAR					
	Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, F3-F9]					
	Extended=NO					

Proposal 18422 - WASP-17 E230M Transit 3 of 4 (07) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	WASP-17, ACQ, phase -constrained (STIS.ta.236 1008)	(3) CD-27-10695	STIS/CCD, ACQ, F28X50LP	MIRROR		PHASE 0.95421142 89 TO 0.95978857	Same Guide Stars in WASP-17 E230M Tr ansit 3 of 4 (07) Sequence 1-3 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 3 of 4 (07) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 3 of 4 (07)	1 Secs (1 Secs) [==>]	[1]
	2	WASP-17, S CIENCE (STIS.sp.23 61012)	(3) CD-27-10695	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 33; WAVECAL=NO		Same Guide Stars in WASP-17 E230M Tr ansit 3 of 4 (07) Sequence 1-3 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 3 of 4 (07) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 3 of 4 (07)	2188 Secs (2188 Secs) [==>]	[1]
	3	WASP-17, P OST-SCI W AVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A			Same Guide Stars in WASP-17 E230M Tr ansit 3 of 4 (07) Sequence 1-3 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 3 of 4 (07) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 3 of 4 (07)	[==>]	[1]
	4	WASP-17, S CIENCE (STIS.sp.23 61012)	(3) CD-27-10695	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 33; WAVECAL=NO		Same Guide Stars in WASP-17 E230M Tr ansit 3 of 4 (07) Sequence 4-5 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 3 of 4 (07) Same Obset in Seque nce 4-5 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 3 of 4 (07)	2573 Secs (2573 Secs) [==>]	[2]

Proposal 18422 - WASP-17 E230M Transit 3 of 4 (07) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

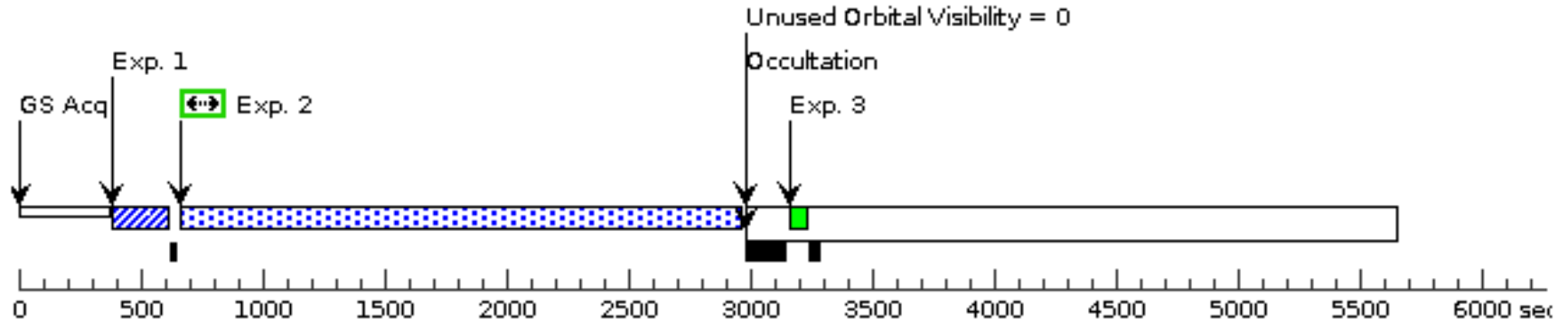
5	WASP-17, P WAVE OST-SCI W AVECAL	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in WASP-17 E230M Tr ansit 3 of 4 (07) Sequence 4-5 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 3 of 4 (07) Same Obset in Seque nce 4-5 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 3 of 4 (07)	[==>]	[2]
6	WASP-17, S (3) CD-27-10695 CIENCE (STIS.sp.23 61012)	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 33; WAVECAL=NO	Same Guide Stars in WASP-17 E230M Tr ansit 3 of 4 (07) Sequence 6-7 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 3 of 4 (07) Same Obset in Seque nce 6-7 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 3 of 4 (07)	2573 Secs (2573 Secs) [==>]	[3]
7	WASP-17, P WAVE OST-SCI W AVECAL	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in WASP-17 E230M Tr ansit 3 of 4 (07) Sequence 6-7 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 3 of 4 (07) Same Obset in Seque nce 6-7 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 3 of 4 (07)	[==>]	[3]
8	WASP-17, S (3) CD-27-10695 CIENCE (STIS.sp.23 61012)	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 33; WAVECAL=NO	Same Guide Stars in WASP-17 E230M Tr ansit 3 of 4 (07) Sequence 8-9 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 3 of 4 (07) Same Obset in Seque nce 8-9 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 3 of 4 (07)	2573 Secs (2573 Secs) [==>]	[4]
9	WASP-17, P WAVE OST-SCI W AVECAL	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in WASP-17 E230M Tr ansit 3 of 4 (07) Sequence 8-9 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 3 of 4 (07) Same Obset in Seque nce 8-9 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 3 of 4 (07)	[==>]	[4]

Proposal 18422 - WASP-17 E230M Transit 3 of 4 (07) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

	10	WASP-17, S (3) CD-27-10695 CIENCE (STIS.sp.23 61012)	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 33; WAVECAL=NO	Same Guide Stars in WASP-17 E230M Tr ansit 3 of 4 (07) Sequence 10-11 Non -Int in Same Guide S tars in WASP-17 E2 30M Transit 3 of 4 (07) Same Obset in Seque nce 10-11 Non-Int in Same Guide Stars in WASP-17 E230M Tr ansit 3 of 4 (07)	2573 Secs (2573 Secs) [==>]	[5]
	11	WASP-17, P WAVE OST-SCI W AVECAL	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in WASP-17 E230M Tr ansit 3 of 4 (07) Sequence 10-11 Non -Int in Same Guide S tars in WASP-17 E2 30M Transit 3 of 4 (07) Same Obset in Seque nce 10-11 Non-Int in Same Guide Stars in WASP-17 E230M Tr ansit 3 of 4 (07)	[==>]	[5]

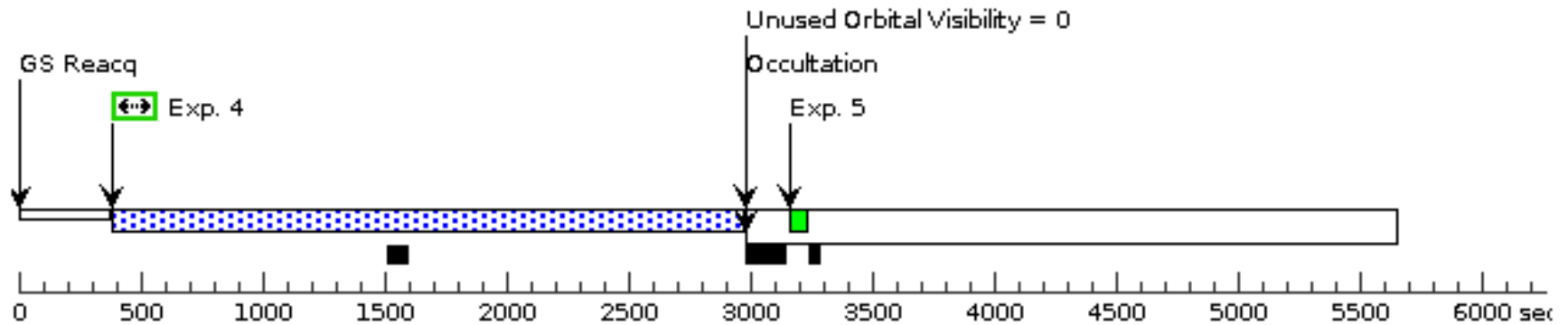
Orbit 1

Server Version: 20260618



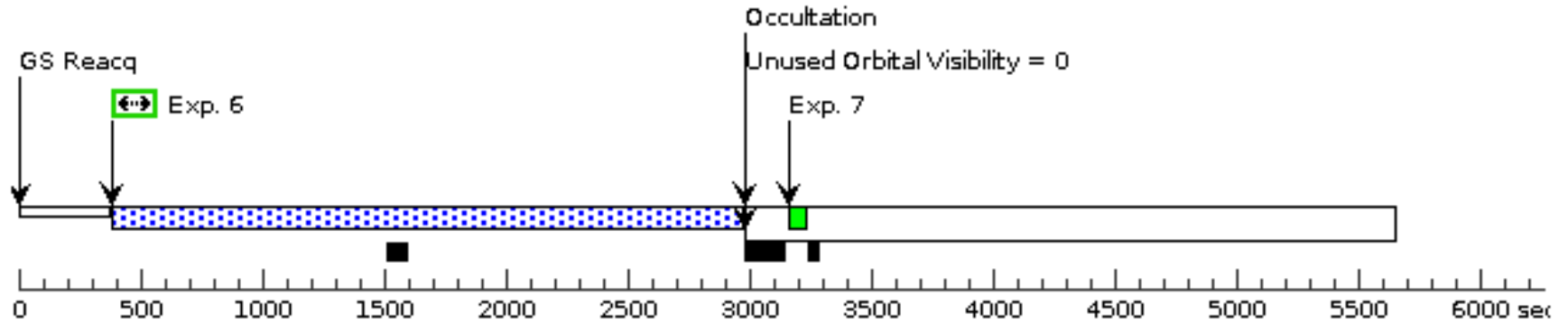
Orbit 2

Server Version: 20260618



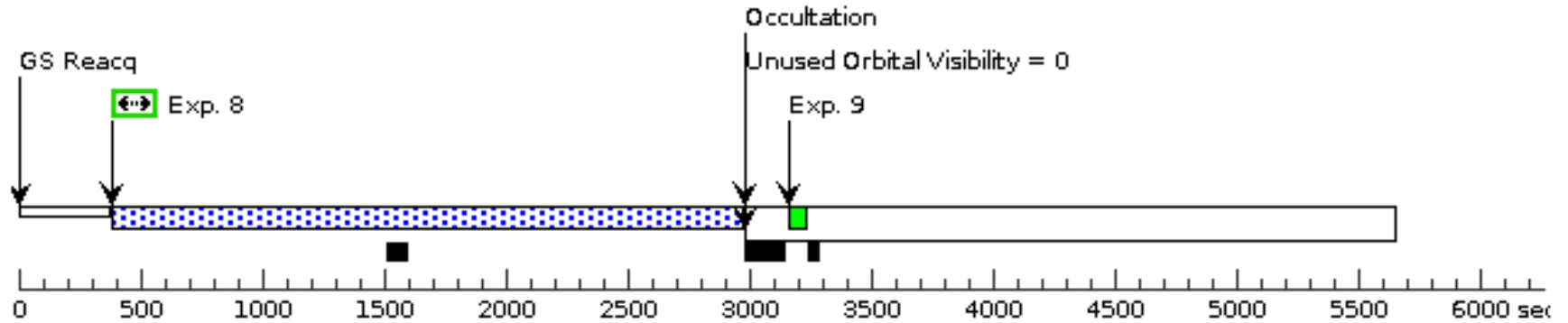
Orbit 3

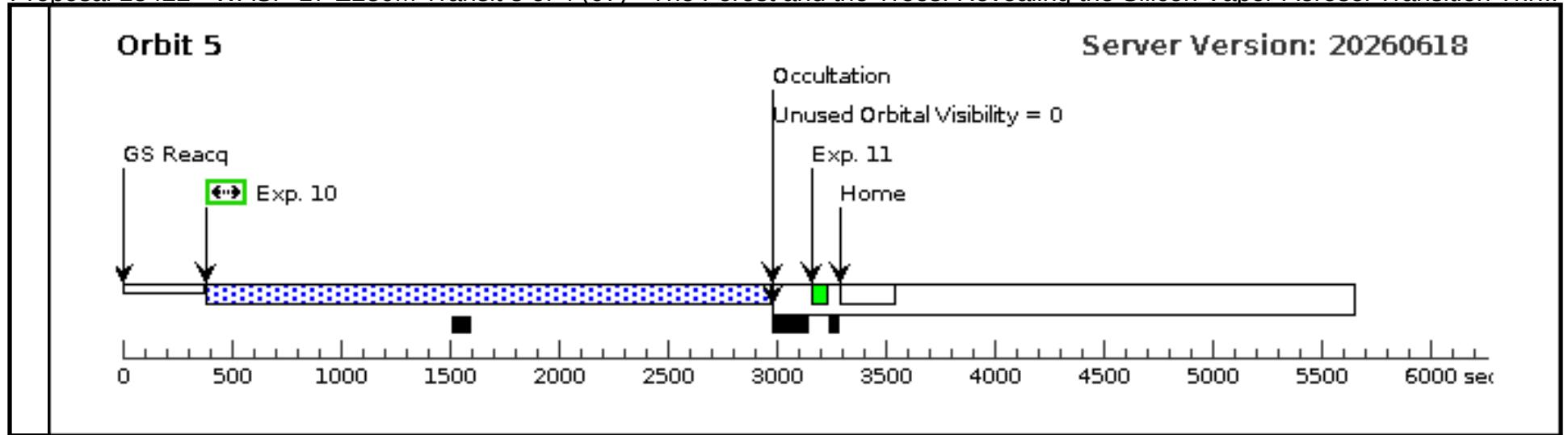
Server Version: 20260618



Orbit 4

Server Version: 20260618





Proposal 18422 - WASP-17 E230M Transit 4 of 4 (08) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

Visit	Proposal 18422, WASP-17 E230M Transit 4 of 4 (08), implementation Wed Aug 19 17:01:55 GMT 2026				
	Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: Period 3.73548546 D AND ZERO-PHASE HJD2457569.988220 Comments: We require all five orbits in this visit to be taken contiguously with no interruptions. These observations are phase-constrained to begin when WASP-17 b is between orbital phases 0.9542114289-0.95978857 to ensure that Orbits 2 through 4 capture the maximal amount of in-transit flux. Exposure times are calculated from the ETC using Castelli-Kurucz Models F5V 6500 4.0 with a V magnitude of 11.588, which predicts count rates low enough to enable use of TIME TAG mode. Per recommendations by STIS Instrument Handbook chapter 11.1.3, we reduce the buffer time from 1416 s (recommended by the ETC) to 1133 s (4/5 of the ETC value). This results in 15 buffer dumps in one visit, which does not exceed the threshold specified by the STIS Instrument Handbook chapter 11.1.3.				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(3)	CD-27-10695 Alt Name1: WASP-17	RA: 15 59 50.9492 (239.9622883d) Dec: -28 03 42.31 (-28.06175d) Equinox: J2000	Proper Motion RA: -8.263 mas/yr Proper Motion Dec: -9.427000031791977 mas/yr Parallax: 0.0024811" Epoch of Position: 2000	V=11.59
Miscellaneous Reference Frame: ICRS					
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, F3-F9] Extended=NO					

Proposal 18422 - WASP-17 E230M Transit 4 of 4 (08) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	WASP-17, ACQ, phase -constrained (STIS.ta.236 1008)	(3) CD-27-10695	STIS/CCD, ACQ, F28X50LP	MIRROR		PHASE 0.95421142 89 TO 0.95978857	Same Guide Stars in WASP-17 E230M Tr ansit 4 of 4 (08) Sequence 1-3 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 4 of 4 (08) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 4 of 4 (08)	1 Secs (1 Secs) [==>]	[1]
	2	WASP-17, S CIENCE (STIS.sp.23 61012)	(3) CD-27-10695	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 33; WAVECAL=NO		Same Guide Stars in WASP-17 E230M Tr ansit 4 of 4 (08) Sequence 1-3 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 4 of 4 (08) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 4 of 4 (08)	2188 Secs (2188 Secs) [==>]	[1]
	3	WASP-17, P OST-SCI W AVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A			Same Guide Stars in WASP-17 E230M Tr ansit 4 of 4 (08) Sequence 1-3 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 4 of 4 (08) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 4 of 4 (08)	[==>]	[1]
	4	WASP-17, S CIENCE (STIS.sp.23 61012)	(3) CD-27-10695	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 33; WAVECAL=NO		Same Guide Stars in WASP-17 E230M Tr ansit 4 of 4 (08) Sequence 4-5 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 4 of 4 (08) Same Obset in Seque nce 4-5 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 4 of 4 (08)	2573 Secs (2573 Secs) [==>]	[2]

Proposal 18422 - WASP-17 E230M Transit 4 of 4 (08) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

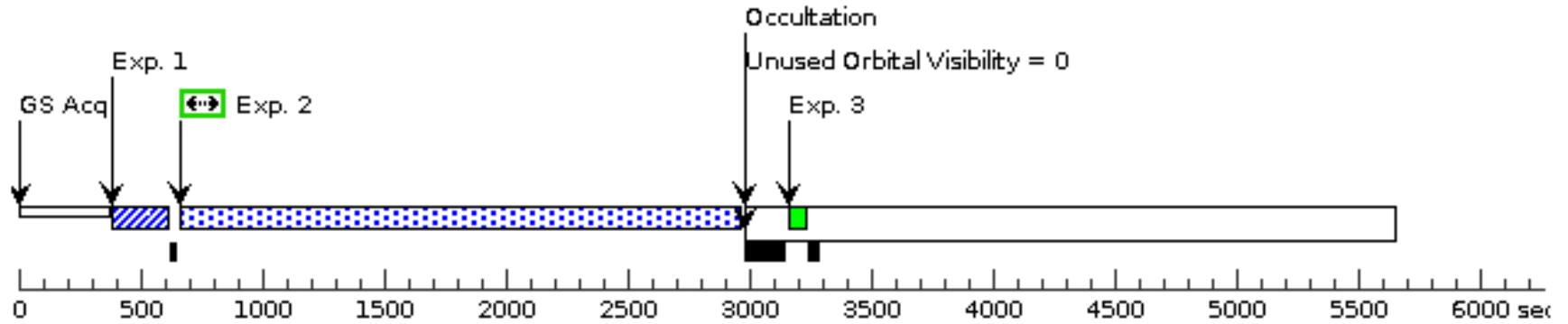
5	WASP-17, P WAVE OST-SCI W AVECAL	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in WASP-17 E230M Tr ansit 4 of 4 (08) Sequence 4-5 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 4 of 4 (08) Same Obset in Seque nce 4-5 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 4 of 4 (08)	[==>]	[2]
6	WASP-17, S (3) CD-27-10695 CIENCE (STIS.sp.23 61012)	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 33; WAVECAL=NO	Same Guide Stars in WASP-17 E230M Tr ansit 4 of 4 (08) Sequence 6-7 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 4 of 4 (08) Same Obset in Seque nce 6-7 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 4 of 4 (08)	2573 Secs (2573 Secs) [==>]	[3]
7	WASP-17, P WAVE OST-SCI W AVECAL	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in WASP-17 E230M Tr ansit 4 of 4 (08) Sequence 6-7 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 4 of 4 (08) Same Obset in Seque nce 6-7 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 4 of 4 (08)	[==>]	[3]
8	WASP-17, S (3) CD-27-10695 CIENCE (STIS.sp.23 61012)	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 33; WAVECAL=NO	Same Guide Stars in WASP-17 E230M Tr ansit 4 of 4 (08) Sequence 8-9 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 4 of 4 (08) Same Obset in Seque nce 8-9 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 4 of 4 (08)	2573 Secs (2573 Secs) [==>]	[4]
9	WASP-17, P WAVE OST-SCI W AVECAL	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in WASP-17 E230M Tr ansit 4 of 4 (08) Sequence 8-9 Non-In t in Same Guide Star s in WASP-17 E230 M Transit 4 of 4 (08) Same Obset in Seque nce 8-9 Non-Int in S ame Guide Stars in WASP-17 E230M Tr ansit 4 of 4 (08)	[==>]	[4]

Proposal 18422 - WASP-17 E230M Transit 4 of 4 (08) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

	10	WASP-17, S (3) CD-27-10695 CIENCE (STIS.sp.23 61012)	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 33; WAVECAL=NO	Same Guide Stars in WASP-17 E230M Tr ansit 4 of 4 (08) Sequence 10-11 Non -Int in Same Guide S tars in WASP-17 E2 30M Transit 4 of 4 (08) Same Obset in Seque nce 10-11 Non-Int in Same Guide Stars in WASP-17 E230M Tr ansit 4 of 4 (08)	2573 Secs (2573 Secs) [==>]	[5]
	11	WASP-17, P WAVE OST-SCI W AVECAL	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in WASP-17 E230M Tr ansit 4 of 4 (08) Sequence 10-11 Non -Int in Same Guide S tars in WASP-17 E2 30M Transit 4 of 4 (08) Same Obset in Seque nce 10-11 Non-Int in Same Guide Stars in WASP-17 E230M Tr ansit 4 of 4 (08)	[==>]	[5]

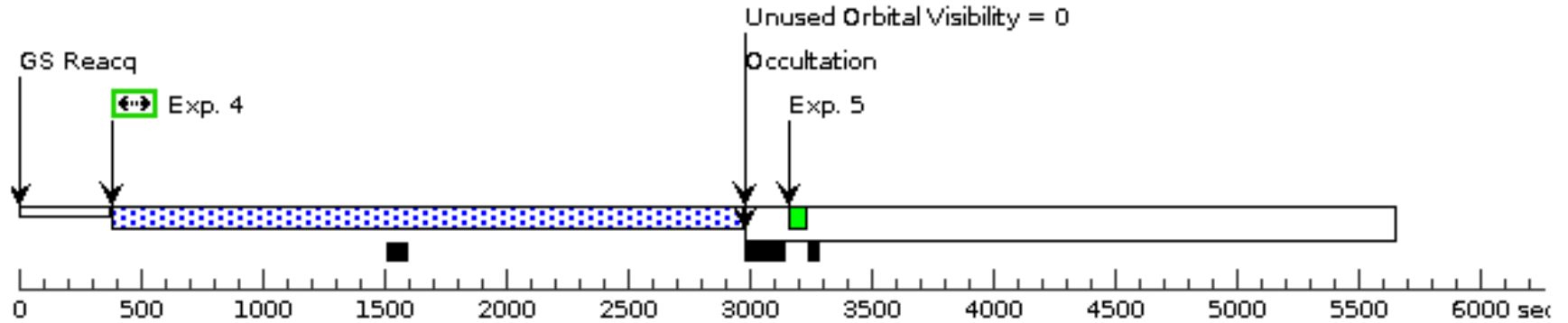
Orbit 1

Server Version: 20260618



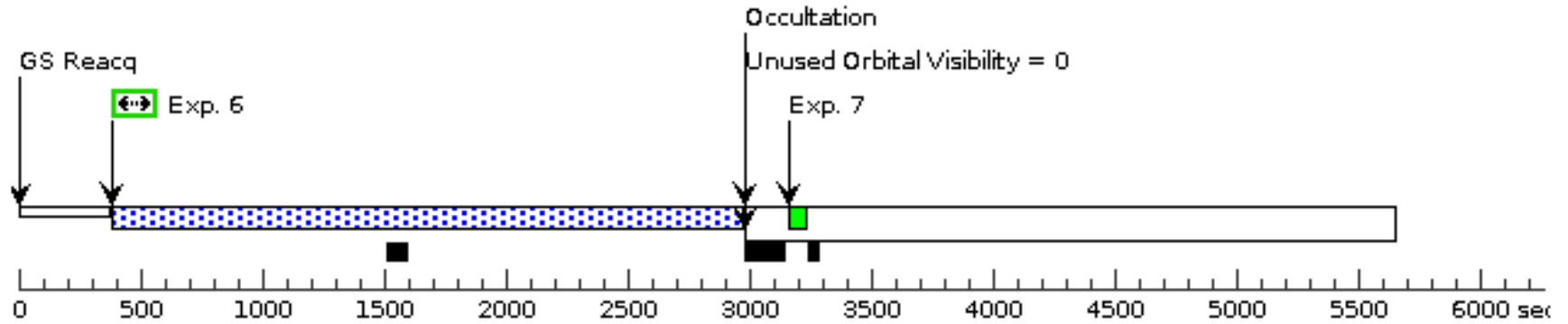
Orbit 2

Server Version: 20260618



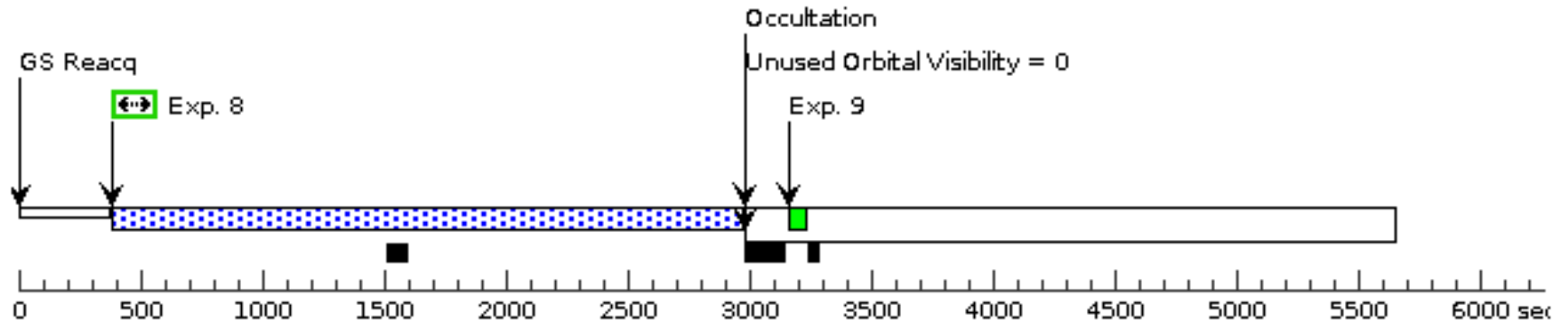
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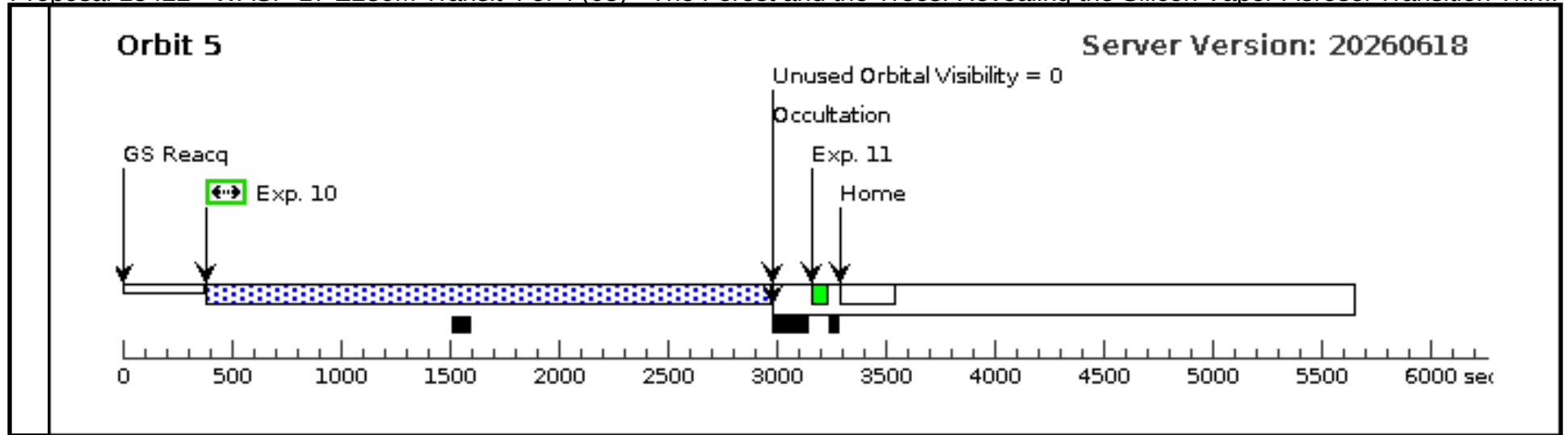
Server Version: 20260618



Orbit 4

Server Version: 20260618





Proposal 18422 - HAT-P-32 E230M Transit 1 of 4 (09) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

Visit	Proposal 18422, HAT-P-32 E230M Transit 1 of 4 (09), implementation Wed Aug 19 17:01:55 GMT 2026				
	Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: Period 2.15000820 D AND ZERO-PHASE HJD2454420.447196 Comments: We require all five orbits in this visit to be taken contiguously with no interruptions. These observations are phase-constrained to begin when HAT-P-32 b is between orbital phases 0.932155057-0.94184494 to ensure that Orbits 2 through 4 capture the maximal amount of in-transit flux. Exposure times are calculated from the ETC using Castelli-Kurucz Models F8V 6250 4.0 with a V magnitude of 11.439, which predicts count rates low enough to enable use of TIME TAG mode. Per recommendations by STIS Instrument Handbook chapter 11.1.3, we reduce the buffer time from 1458 s (recommended by the ETC) to 1166 s (4/5 of the ETC value). This results in 15 buffer dumps in one visit, which does not exceed the threshold specified by the STIS Instrument Handbook chapter 11.1.3.				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(5)	HAT-P-32	RA: 02 04 10.2774 (31.0428225d) Dec: +46 41 16.21 (46.68784d) Equinox: J2000	Proper Motion RA: -9.763 mas/yr Proper Motion Dec: 3.351 mas/yr Parallax: 0.0034937999999999996" Epoch of Position: 2000	V=11.44
Fixed Targets	Miscellaneous Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, F3-F9] Extended=NO				

Proposal 18422 - HAT-P-32 E230M Transit 1 of 4 (09) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	HAT-P-32, ACQ, phase -constrained (STIS.ta.236 1009)	(5) HAT-P-32	STIS/CCD, ACQ, F28X50LP	MIRROR		PHASE 0.93215505 7 TO 0.94184494	Same Guide Stars in HAT-P-32 E230M T ransit 1 of 4 (09) Sequence 1-3 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 1 of 4 (09) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 1 of 4 (09)	1 Secs (1 Secs) [==>]	[1]
	2	HAT-P-32, SCIENCE (STIS.sp.23 61015)	(5) HAT-P-32	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 66; WAVECAL=NO		Same Guide Stars in HAT-P-32 E230M T ransit 1 of 4 (09) Sequence 1-3 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 1 of 4 (09) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 1 of 4 (09)	2216 Secs (2216 Secs) [==>]	[1]
	3	HAT-P-32, POST-SCI WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A			Same Guide Stars in HAT-P-32 E230M T ransit 1 of 4 (09) Sequence 1-3 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 1 of 4 (09) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 1 of 4 (09)	[==>]	[1]
	4	HAT-P-32, SCIENCE (STIS.sp.23 61016)	(5) HAT-P-32	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 66; WAVECAL=NO		Same Guide Stars in HAT-P-32 E230M T ransit 1 of 4 (09) Sequence 4-5 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 1 of 4 (09) Same Obset in Seque nce 4-5 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 1 of 4 (09)	2601 Secs (2601 Secs) [==>]	[2]

Proposal 18422 - HAT-P-32 E230M Transit 1 of 4 (09) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

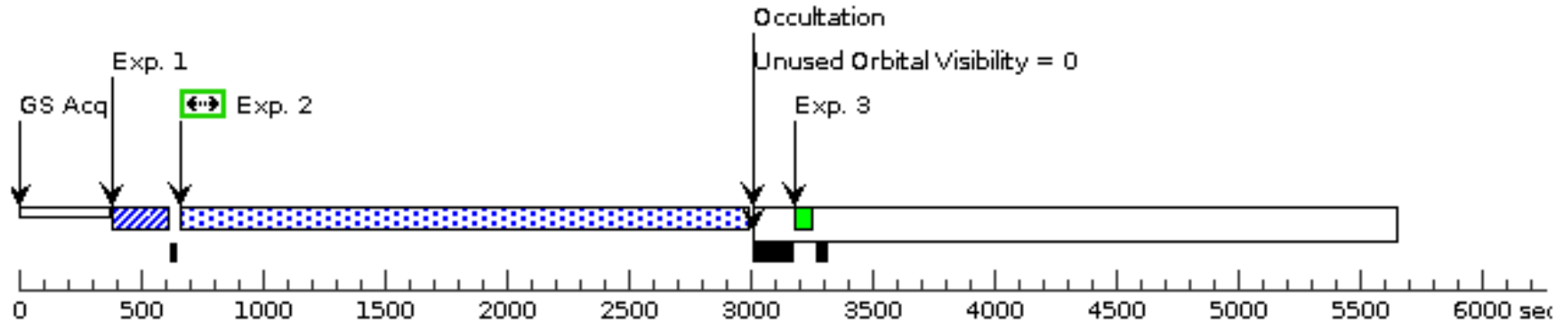
5	HAT-P-32, POST-SCI WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in HAT-P-32 E230M T ransit 1 of 4 (09) Sequence 4-5 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 1 of 4 (09) Same Obset in Seque nce 4-5 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 1 of 4 (09)	[==>]	[2]
6	HAT-P-32, SCIENCE (STIS.sp.23 61016)	(5) HAT-P-32	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 66; WAVECAL=NO	Same Guide Stars in HAT-P-32 E230M T ransit 1 of 4 (09) Sequence 6-7 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 1 of 4 (09) Same Obset in Seque nce 6-7 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 1 of 4 (09)	2601 Secs (2601 Secs) [==>]	[3]
7	HAT-P-32, POST-SCI WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in HAT-P-32 E230M T ransit 1 of 4 (09) Sequence 6-7 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 1 of 4 (09) Same Obset in Seque nce 6-7 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 1 of 4 (09)	[==>]	[3]
8	HAT-P-32, SCIENCE (STIS.sp.23 61016)	(5) HAT-P-32	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 66; WAVECAL=NO	Same Guide Stars in HAT-P-32 E230M T ransit 1 of 4 (09) Sequence 8-9 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 1 of 4 (09) Same Obset in Seque nce 8-9 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 1 of 4 (09)	2601 Secs (2601 Secs) [==>]	[4]
9	HAT-P-32, POST-SCI WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in HAT-P-32 E230M T ransit 1 of 4 (09) Sequence 8-9 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 1 of 4 (09) Same Obset in Seque nce 8-9 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 1 of 4 (09)	[==>]	[4]

Proposal 18422 - HAT-P-32 E230M Transit 1 of 4 (09) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

10	HAT-P-32, SCIENCE (STIS.sp.23 61016)	(5) HAT-P-32	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 66; WAVECAL=NO	Same Guide Stars in HAT-P-32 E230M T ransit 1 of 4 (09) Sequence 10-11 Non-Int in Same Guide S tars in HAT-P-32 E2 30M Transit 1 of 4 (09) Same Obset in Seque nce 10-11 Non-Int in Same Guide Stars in HAT-P-32 E230M T ransit 1 of 4 (09)	2601 Secs (2601 Secs) [==>]	[5]
11	HAT-P-32, POST-SCI WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in HAT-P-32 E230M T ransit 1 of 4 (09) Sequence 10-11 Non-Int in Same Guide S tars in HAT-P-32 E2 30M Transit 1 of 4 (09) Same Obset in Seque nce 10-11 Non-Int in Same Guide Stars in HAT-P-32 E230M T ransit 1 of 4 (09)	[==>]	[5]

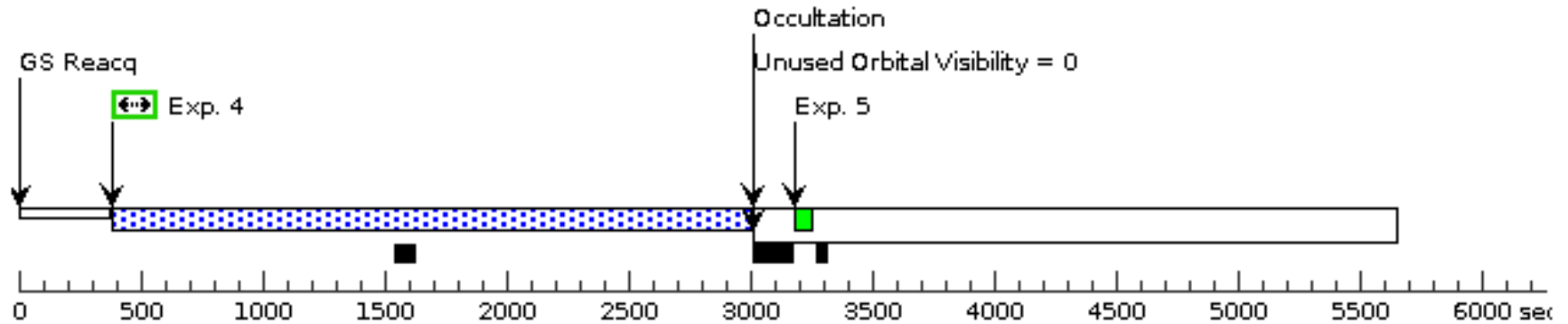
Orbit 1

Server Version: 20260618



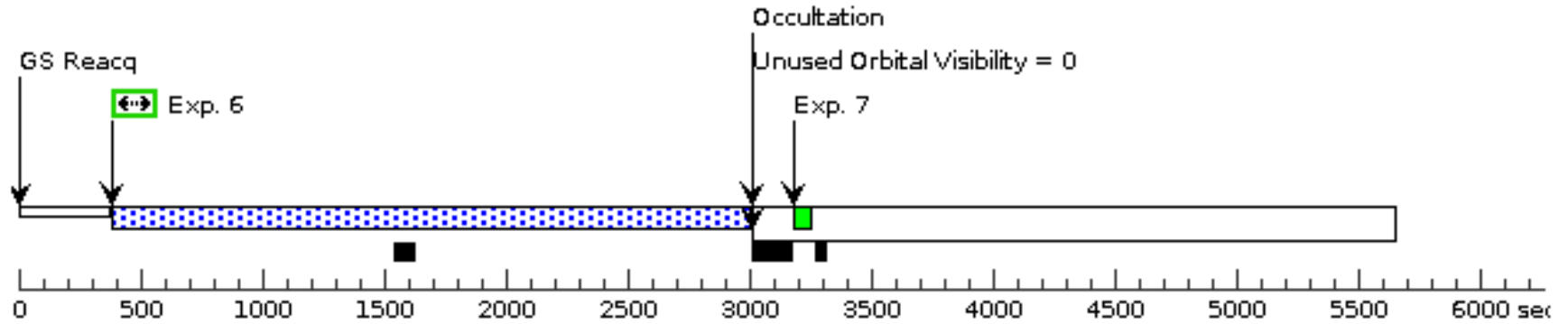
Orbit 2

Server Version: 20260618



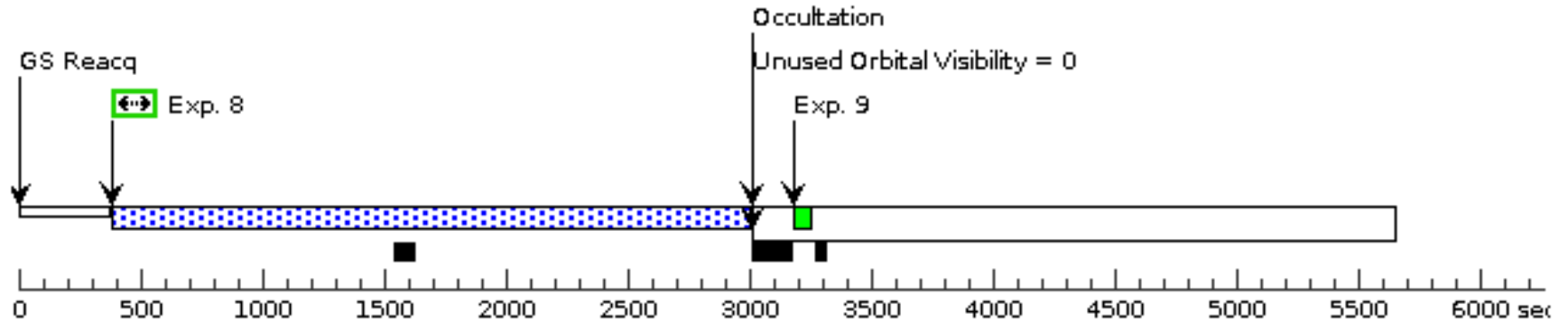
Orbit 3

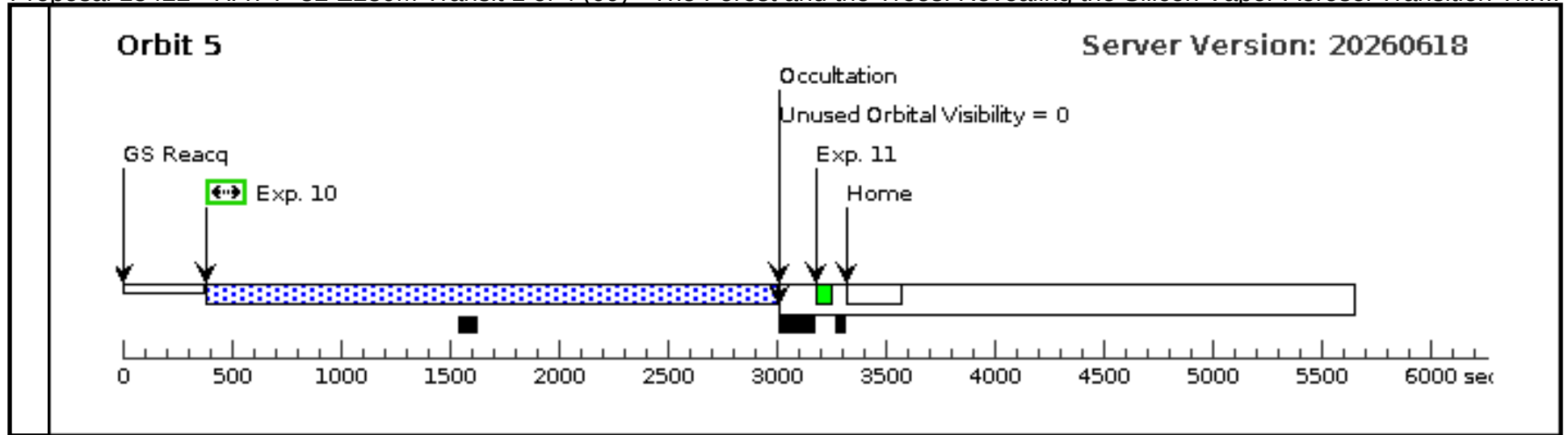
Server Version: 20260618



Orbit 4

Server Version: 20260618





Proposal 18422 - HAT-P-32 E230M Transit 2 of 4 (10) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

Visit	Proposal 18422, HAT-P-32 E230M Transit 2 of 4 (10), implementation Wed Aug 19 17:01:55 GMT 2026				
	Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: Period 2.15000820 D AND ZERO-PHASE HJD2454420.447196 Comments: We require all five orbits in this visit to be taken contiguously with no interruptions. These observations are phase-constrained to begin when HAT-P-32 b is between orbital phases 0.932155057-0.94184494 to ensure that Orbits 2 through 4 capture the maximal amount of in-transit flux. Exposure times are calculated from the ETC using Castelli-Kurucz Models F8V 6250 4.0 with a V magnitude of 11.439, which predicts count rates low enough to enable use of TIME TAG mode. Per recommendations by STIS Instrument Handbook chapter 11.1.3, we reduce the buffer time from 1458 s (recommended by the ETC) to 1166 s (4/5 of the ETC value). This results in 15 buffer dumps in one visit, which does not exceed the threshold specified by the STIS Instrument Handbook chapter 11.1.3.				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(5)	HAT-P-32	RA: 02 04 10.2774 (31.0428225d) Dec: +46 41 16.21 (46.68784d) Equinox: J2000	Proper Motion RA: -9.763 mas/yr Proper Motion Dec: 3.351 mas/yr Parallax: 0.0034937999999999996" Epoch of Position: 2000	V=11.44
Fixed Targets	Miscellaneous Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, F3-F9] Extended=NO				

Proposal 18422 - HAT-P-32 E230M Transit 2 of 4 (10) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	HAT-P-32, ACQ, phase -constrained (STIS.ta.236 1009)	(5) HAT-P-32	STIS/CCD, ACQ, F28X50LP	MIRROR		PHASE 0.93215505 7 TO 0.94184494	Same Guide Stars in HAT-P-32 E230M T ransit 2 of 4 (10) Sequence 1-3 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 2 of 4 (10) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 2 of 4 (10)	1 Secs (1 Secs) [==>]	[1]
	2	HAT-P-32, SCIENCE (STIS.sp.23 61015)	(5) HAT-P-32	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 66; WAVECAL=NO		Same Guide Stars in HAT-P-32 E230M T ransit 2 of 4 (10) Sequence 1-3 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 2 of 4 (10) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 2 of 4 (10)	2216 Secs (2216 Secs) [==>]	[1]
	3	HAT-P-32, POST-SCI WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A			Same Guide Stars in HAT-P-32 E230M T ransit 2 of 4 (10) Sequence 1-3 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 2 of 4 (10) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 2 of 4 (10)	[==>]	[1]
	4	HAT-P-32, SCIENCE (STIS.sp.23 61016)	(5) HAT-P-32	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 66; WAVECAL=NO		Same Guide Stars in HAT-P-32 E230M T ransit 2 of 4 (10) Sequence 4-5 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 2 of 4 (10) Same Obset in Seque nce 4-5 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 2 of 4 (10)	2601 Secs (2601 Secs) [==>]	[2]

Proposal 18422 - HAT-P-32 E230M Transit 2 of 4 (10) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

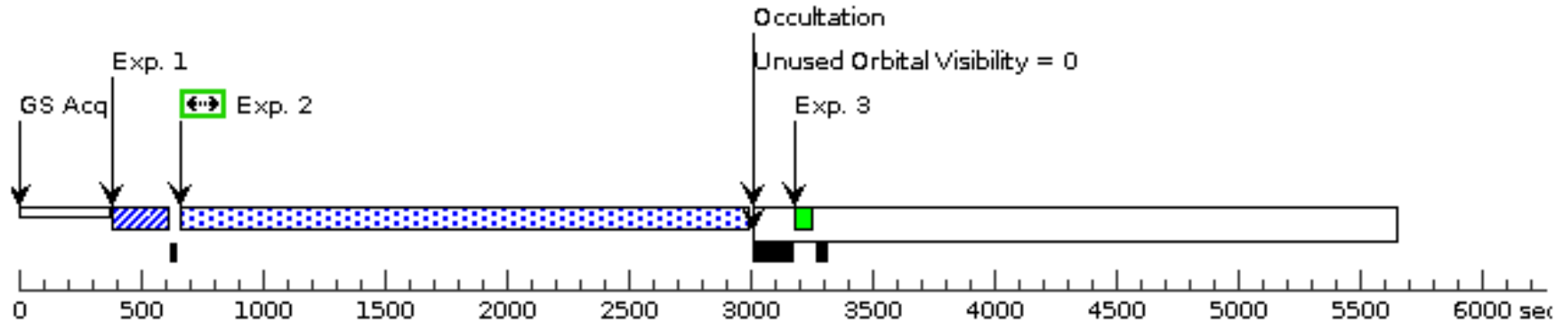
5	HAT-P-32, WAVE POST-SCI WAVECAL		STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in HAT-P-32 E230M T ransit 2 of 4 (10) Sequence 4-5 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 2 of 4 (10) Same Obset in Seque nce 4-5 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 2 of 4 (10)	[==>]	[2]
6	HAT-P-32, (5) HAT-P-32 SCIENCE (STIS.sp.23 61016)		STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 66; WAVECAL=NO	Same Guide Stars in HAT-P-32 E230M T ransit 2 of 4 (10) Sequence 6-7 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 2 of 4 (10) Same Obset in Seque nce 6-7 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 2 of 4 (10)	2601 Secs (2601 Secs) [==>]	[3]
7	HAT-P-32, WAVE POST-SCI WAVECAL		STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in HAT-P-32 E230M T ransit 2 of 4 (10) Sequence 6-7 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 2 of 4 (10) Same Obset in Seque nce 6-7 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 2 of 4 (10)	[==>]	[3]
8	HAT-P-32, (5) HAT-P-32 SCIENCE (STIS.sp.23 61016)		STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 66; WAVECAL=NO	Same Guide Stars in HAT-P-32 E230M T ransit 2 of 4 (10) Sequence 8-9 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 2 of 4 (10) Same Obset in Seque nce 8-9 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 2 of 4 (10)	2601 Secs (2601 Secs) [==>]	[4]
9	HAT-P-32, WAVE POST-SCI WAVECAL		STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in HAT-P-32 E230M T ransit 2 of 4 (10) Sequence 8-9 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 2 of 4 (10) Same Obset in Seque nce 8-9 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 2 of 4 (10)	[==>]	[4]

Proposal 18422 - HAT-P-32 E230M Transit 2 of 4 (10) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

10	HAT-P-32, SCIENCE (STIS.sp.23 61016)	(5) HAT-P-32	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 66; WAVECAL=NO	Same Guide Stars in HAT-P-32 E230M T ransit 2 of 4 (10) Sequence 10-11 Non-Int in Same Guide S tars in HAT-P-32 E2 30M Transit 2 of 4 (10) Same Obset in Seque nce 10-11 Non-Int in Same Guide Stars in HAT-P-32 E230M T ransit 2 of 4 (10)	2601 Secs (2601 Secs) [==>]	[5]
11	HAT-P-32, POST-SCI WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in HAT-P-32 E230M T ransit 2 of 4 (10) Sequence 10-11 Non-Int in Same Guide S tars in HAT-P-32 E2 30M Transit 2 of 4 (10) Same Obset in Seque nce 10-11 Non-Int in Same Guide Stars in HAT-P-32 E230M T ransit 2 of 4 (10)	[==>]	[5]

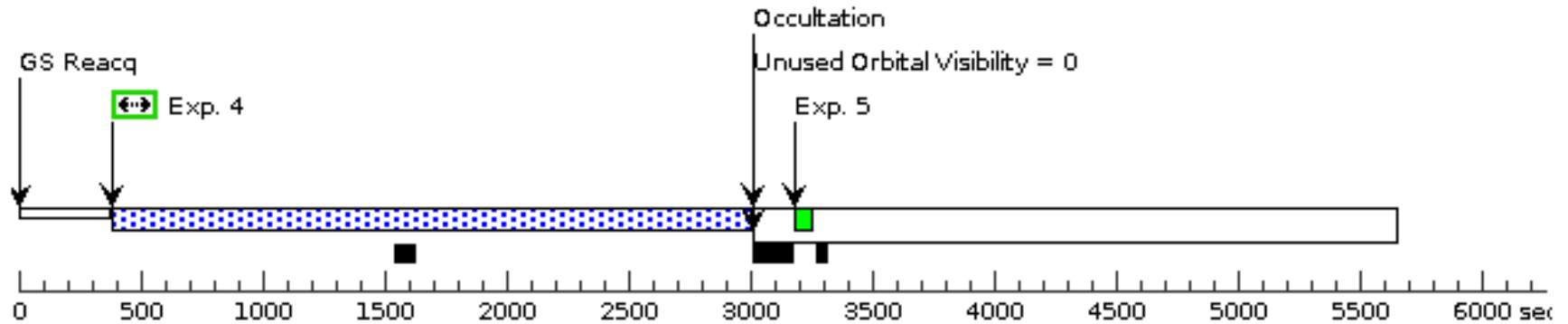
Orbit 1

Server Version: 20260618



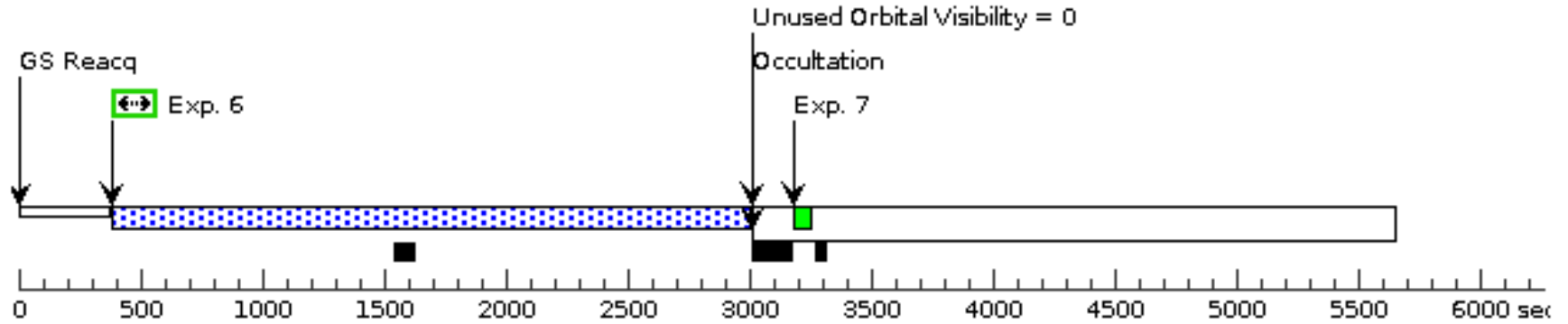
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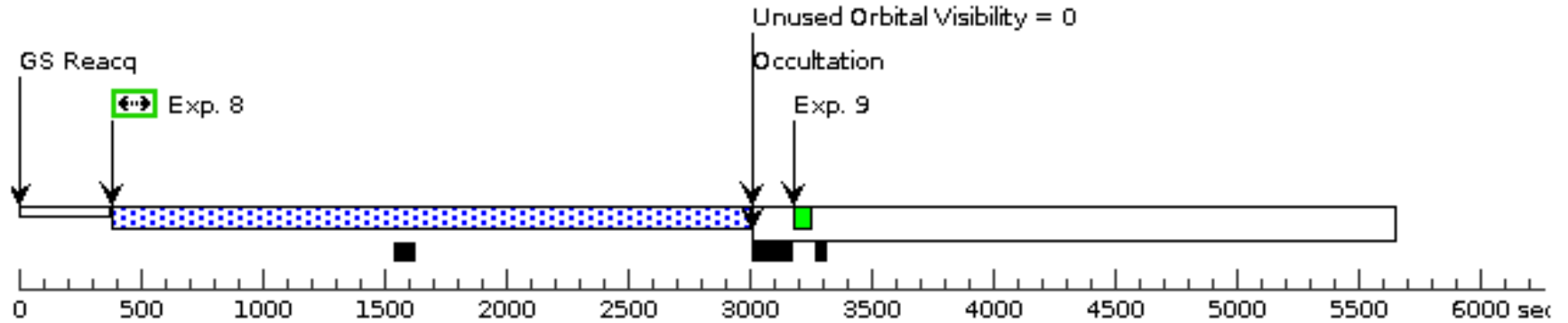
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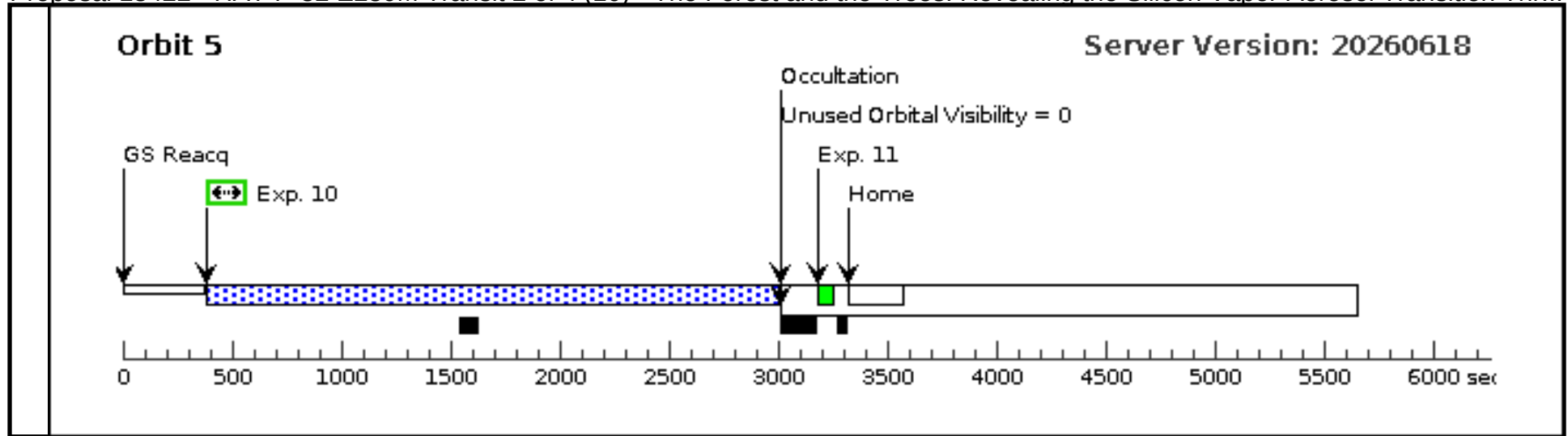
Server Version: 20260618



Orbit 4

Server Version: 20260618





Proposal 18422 - HAT-P-32 E230M Transit 3 of 4 (11) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

Visit	Proposal 18422, HAT-P-32 E230M Transit 3 of 4 (11), implementation Wed Aug 19 17:01:55 GMT 2026				
	Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: Period 2.15000820 D AND ZERO-PHASE HJD2454420.447196 Comments: We require all five orbits in this visit to be taken contiguously with no interruptions. These observations are phase-constrained to begin when HAT-P-32 b is between orbital phases 0.932155057-0.94184494 to ensure that Orbits 2 through 4 capture the maximal amount of in-transit flux. Exposure times are calculated from the ETC using Castelli-Kurucz Models F8V 6250 4.0 with a V magnitude of 11.439, which predicts count rates low enough to enable use of TIME TAG mode. Per recommendations by STIS Instrument Handbook chapter 11.1.3, we reduce the buffer time from 1458 s (recommended by the ETC) to 1166 s (4/5 of the ETC value). This results in 15 buffer dumps in one visit, which does not exceed the threshold specified by the STIS Instrument Handbook chapter 11.1.3.				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(5)	HAT-P-32	RA: 02 04 10.2774 (31.0428225d) Dec: +46 41 16.21 (46.68784d) Equinox: J2000	Proper Motion RA: -9.763 mas/yr Proper Motion Dec: 3.351 mas/yr Parallax: 0.0034937999999999996" Epoch of Position: 2000	V=11.44
Fixed Targets	Miscellaneous Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, F3-F9] Extended=NO				

Proposal 18422 - HAT-P-32 E230M Transit 3 of 4 (11) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

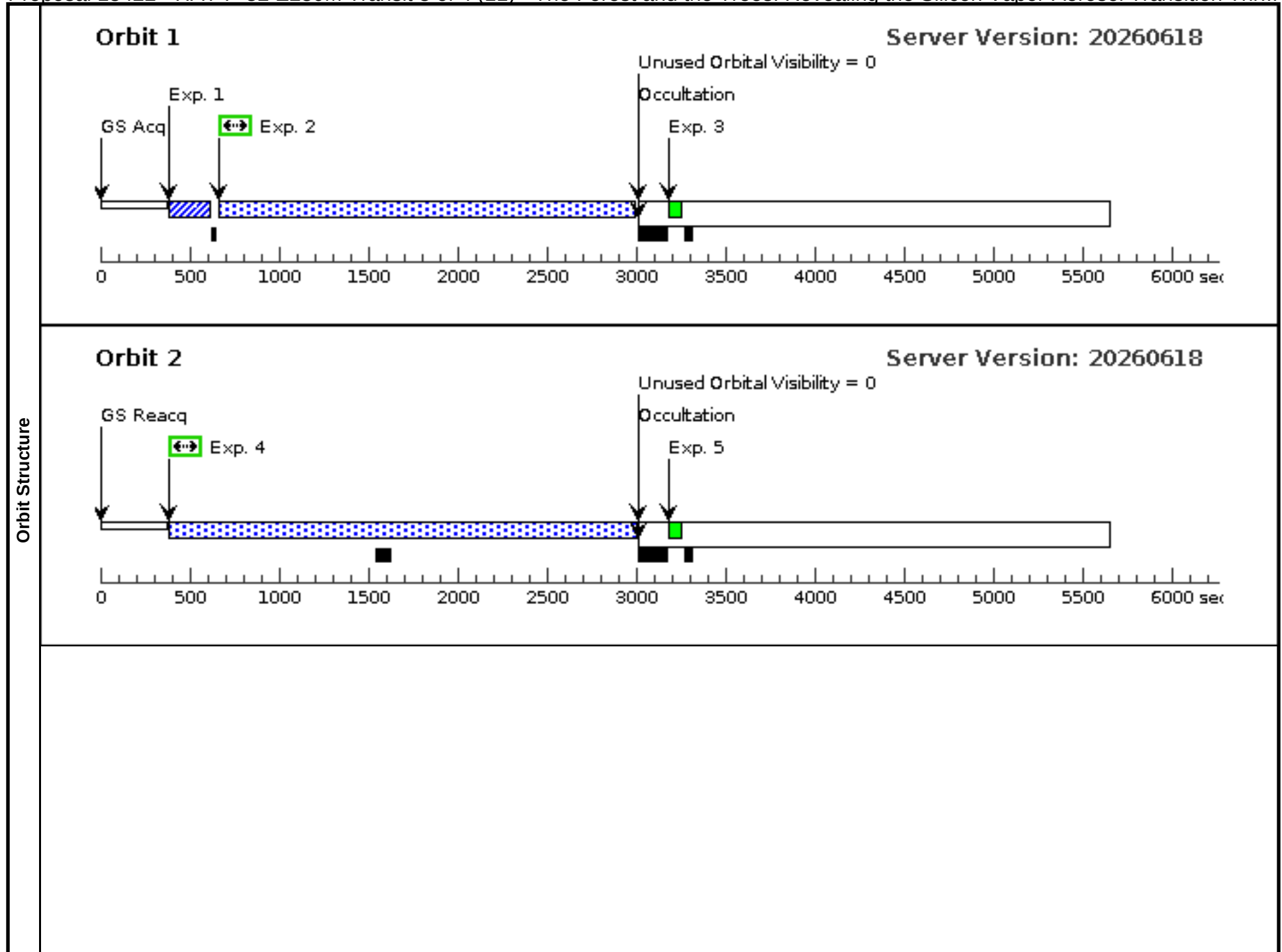
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	HAT-P-32, ACQ, phase -constrained (STIS.ta.236 1009)	(5) HAT-P-32	STIS/CCD, ACQ, F28X50LP	MIRROR		PHASE 0.93215505 7 TO 0.94184494	Same Guide Stars in HAT-P-32 E230M T ransit 3 of 4 (11) Sequence 1-3 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 3 of 4 (11) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 3 of 4 (11)	1 Secs (1 Secs) [==>]	[1]
	2	HAT-P-32, SCIENCE (STIS.sp.23 61015)	(5) HAT-P-32	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 66; WAVECAL=NO		Same Guide Stars in HAT-P-32 E230M T ransit 3 of 4 (11) Sequence 1-3 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 3 of 4 (11) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 3 of 4 (11)	2216 Secs (2216 Secs) [==>]	[1]
	3	HAT-P-32, POST-SCI WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A			Same Guide Stars in HAT-P-32 E230M T ransit 3 of 4 (11) Sequence 1-3 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 3 of 4 (11) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 3 of 4 (11)	[==>]	[1]
	4	HAT-P-32, SCIENCE (STIS.sp.23 61016)	(5) HAT-P-32	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 66; WAVECAL=NO		Same Guide Stars in HAT-P-32 E230M T ransit 3 of 4 (11) Sequence 4-5 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 3 of 4 (11) Same Obset in Seque nce 4-5 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 3 of 4 (11)	2601 Secs (2601 Secs) [==>]	[2]

Proposal 18422 - HAT-P-32 E230M Transit 3 of 4 (11) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

5	HAT-P-32, WAVE POST-SCI WAVECAL		STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in HAT-P-32 E230M T ransit 3 of 4 (11) Sequence 4-5 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 3 of 4 (11) Same Obset in Seque nce 4-5 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 3 of 4 (11)	[==>]	[2]
6	HAT-P-32, (5) HAT-P-32 SCIENCE (STIS.sp.23 61016)		STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 66; WAVECAL=NO	Same Guide Stars in HAT-P-32 E230M T ransit 3 of 4 (11) Sequence 6-7 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 3 of 4 (11) Same Obset in Seque nce 6-7 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 3 of 4 (11)	2601 Secs (2601 Secs) [==>]	[3]
7	HAT-P-32, WAVE POST-SCI WAVECAL		STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in HAT-P-32 E230M T ransit 3 of 4 (11) Sequence 6-7 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 3 of 4 (11) Same Obset in Seque nce 6-7 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 3 of 4 (11)	[==>]	[3]
8	HAT-P-32, (5) HAT-P-32 SCIENCE (STIS.sp.23 61016)		STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 66; WAVECAL=NO	Same Guide Stars in HAT-P-32 E230M T ransit 3 of 4 (11) Sequence 8-9 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 3 of 4 (11) Same Obset in Seque nce 8-9 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 3 of 4 (11)	2601 Secs (2601 Secs) [==>]	[4]
9	HAT-P-32, WAVE POST-SCI WAVECAL		STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in HAT-P-32 E230M T ransit 3 of 4 (11) Sequence 8-9 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 3 of 4 (11) Same Obset in Seque nce 8-9 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 3 of 4 (11)	[==>]	[4]

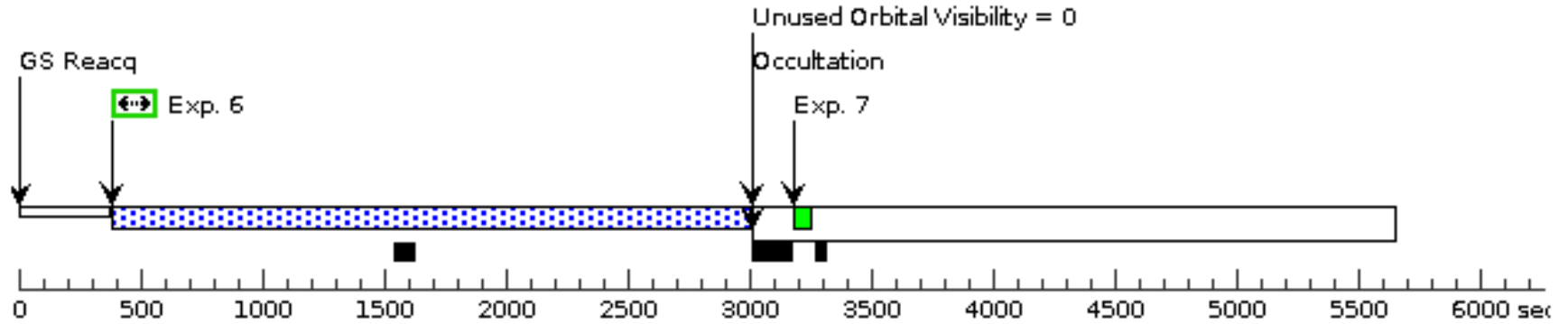
Proposal 18422 - HAT-P-32 E230M Transit 3 of 4 (11) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

10	HAT-P-32, SCIENCE (STIS.sp.23 61016)	(5) HAT-P-32	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 66; WAVECAL=NO	Same Guide Stars in HAT-P-32 E230M T ransit 3 of 4 (11) Sequence 10-11 Non-Int in Same Guide S tars in HAT-P-32 E2 30M Transit 3 of 4 (11) Same Obset in Seque nce 10-11 Non-Int in Same Guide Stars in HAT-P-32 E230M T ransit 3 of 4 (11)	2601 Secs (2601 Secs) [==>]	[5]
11	HAT-P-32, POST-SCI WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in HAT-P-32 E230M T ransit 3 of 4 (11) Sequence 10-11 Non-Int in Same Guide S tars in HAT-P-32 E2 30M Transit 3 of 4 (11) Same Obset in Seque nce 10-11 Non-Int in Same Guide Stars in HAT-P-32 E230M T ransit 3 of 4 (11)	[==>]	[5]



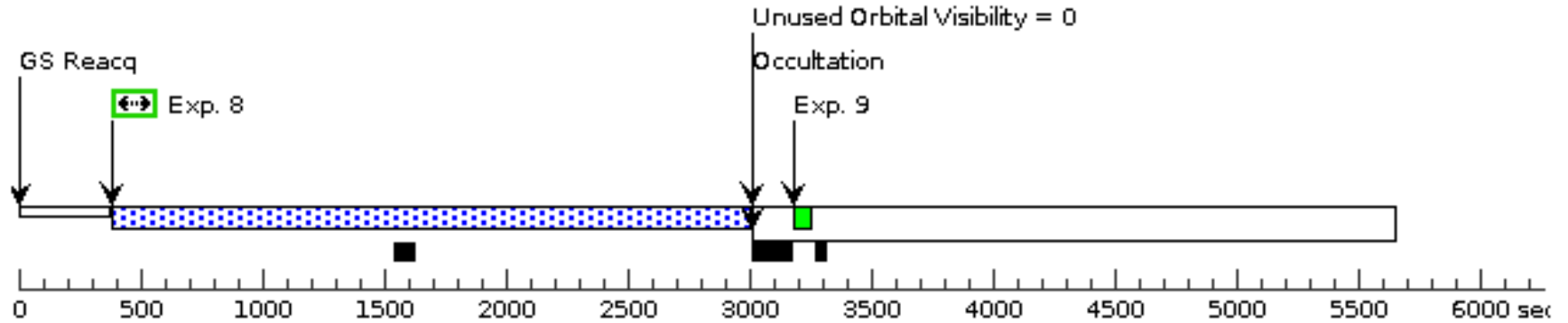
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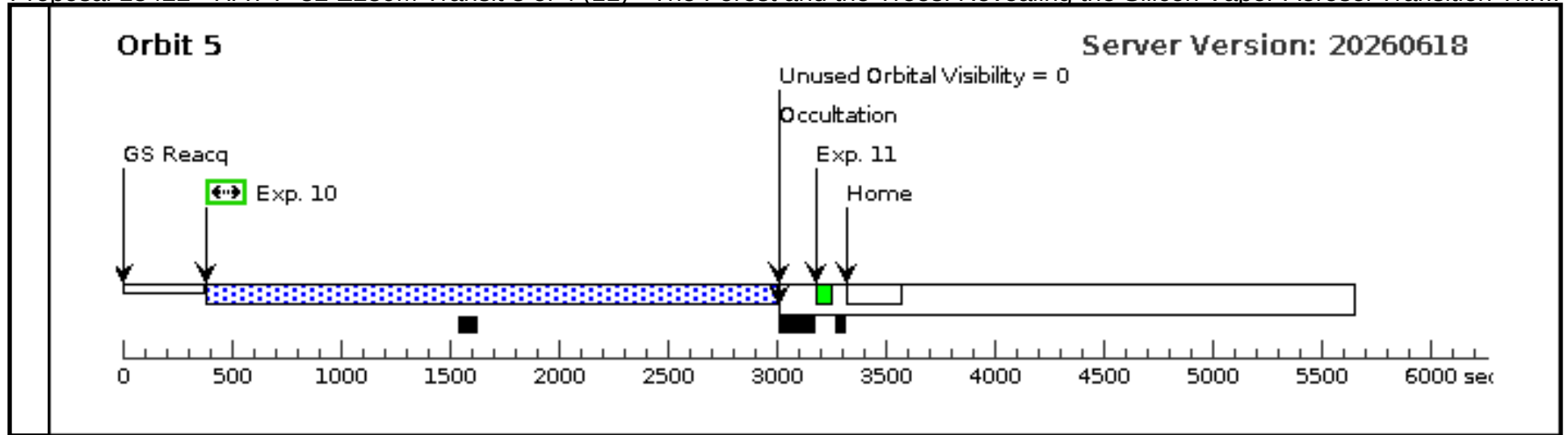
Server Version: 20260618



Orbit 4

Server Version: 20260618





Proposal 18422 - HAT-P-32 E230M Transit 4 of 4 (12) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

Visit	Proposal 18422, HAT-P-32 E230M Transit 4 of 4 (12), implementation Wed Aug 19 17:01:56 GMT 2026				
	Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: Period 2.15000820 D AND ZERO-PHASE HJD2454420.447196 <i>Comments: We require all five orbits in this visit to be taken contiguously with no interruptions. These observations are phase-constrained to begin when HAT-P-32 b is between orbital phases 0.932155057-0.94184494 to ensure that Orbits 2 through 4 capture the maximal amount of in-transit flux. Exposure times are calculated from the ETC using Castelli-Kurucz Models F8V 6250 4.0 with a V magnitude of 11.439, which predicts count rates low enough to enable use of TIME TAG mode. Per recommendations by STIS Instrument Handbook chapter 11.1.3, we reduce the buffer time from 1458 s (recommended by the ETC) to 1166 s (4/5 of the ETC value). This results in 15 buffer dumps in one visit, which does not exceed the threshold specified by the STIS Instrument Handbook chapter 11.1.3.</i>				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(5)	HAT-P-32	RA: 02 04 10.2774 (31.0428225d) Dec: +46 41 16.21 (46.68784d) Equinox: J2000	Proper Motion RA: -9.763 mas/yr Proper Motion Dec: 3.351 mas/yr Parallax: 0.0034937999999999996" Epoch of Position: 2000	V=11.44
Fixed Targets	Miscellaneous Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, F3-F9] Extended=NO				

Proposal 18422 - HAT-P-32 E230M Transit 4 of 4 (12) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

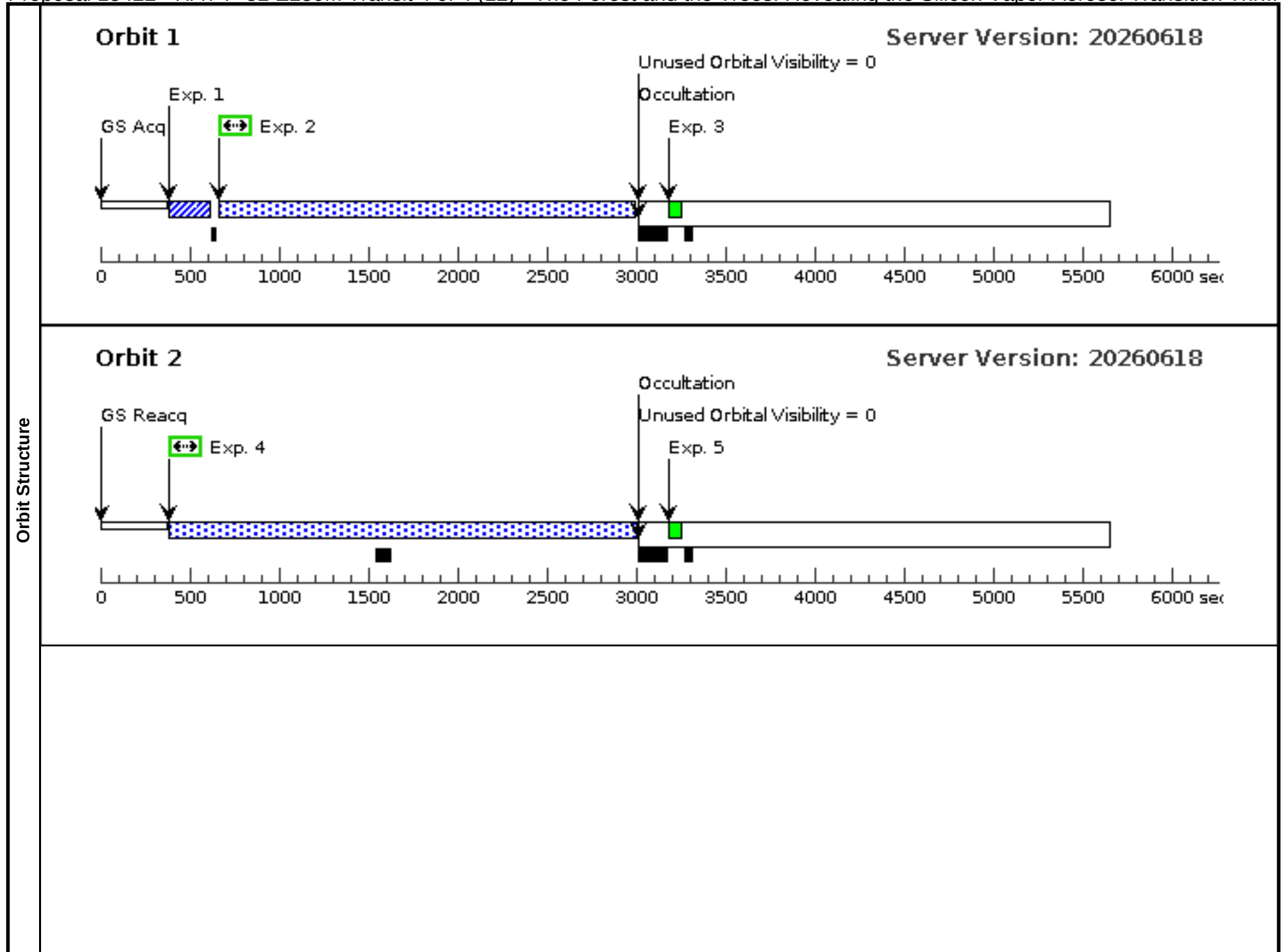
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	HAT-P-32, ACQ, phase -constrained (STIS.ta.236 1009)	(5) HAT-P-32	STIS/CCD, ACQ, F28X50LP	MIRROR		PHASE 0.93215505 7 TO 0.94184494	Same Guide Stars in HAT-P-32 E230M T ransit 4 of 4 (12) Sequence 1-3 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 4 of 4 (12) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 4 of 4 (12)	1 Secs (1 Secs) [==>]	[1]
	2	HAT-P-32, SCIENCE (STIS.sp.23 61015)	(5) HAT-P-32	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 66; WAVECAL=NO		Same Guide Stars in HAT-P-32 E230M T ransit 4 of 4 (12) Sequence 1-3 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 4 of 4 (12) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 4 of 4 (12)	2216 Secs (2216 Secs) [==>]	[1]
	3	HAT-P-32, POST-SCI WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A			Same Guide Stars in HAT-P-32 E230M T ransit 4 of 4 (12) Sequence 1-3 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 4 of 4 (12) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 4 of 4 (12)	[==>]	[1]
	4	HAT-P-32, SCIENCE (STIS.sp.23 61016)	(5) HAT-P-32	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 66; WAVECAL=NO		Same Guide Stars in HAT-P-32 E230M T ransit 4 of 4 (12) Sequence 4-5 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 4 of 4 (12) Same Obset in Seque nce 4-5 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 4 of 4 (12)	2601 Secs (2601 Secs) [==>]	[2]

Proposal 18422 - HAT-P-32 E230M Transit 4 of 4 (12) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

5	HAT-P-32, WAVE POST-SCI WAVECAL		STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in HAT-P-32 E230M T ransit 4 of 4 (12) Sequence 4-5 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 4 of 4 (12) Same Obset in Seque nce 4-5 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 4 of 4 (12)	[==>]	[2]
6	HAT-P-32, (5) HAT-P-32 SCIENCE (STIS.sp.23 61016)		STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 66; WAVECAL=NO	Same Guide Stars in HAT-P-32 E230M T ransit 4 of 4 (12) Sequence 6-7 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 4 of 4 (12) Same Obset in Seque nce 6-7 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 4 of 4 (12)	2601 Secs (2601 Secs) [==>]	[3]
7	HAT-P-32, WAVE POST-SCI WAVECAL		STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in HAT-P-32 E230M T ransit 4 of 4 (12) Sequence 6-7 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 4 of 4 (12) Same Obset in Seque nce 6-7 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 4 of 4 (12)	[==>]	[3]
8	HAT-P-32, (5) HAT-P-32 SCIENCE (STIS.sp.23 61016)		STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 66; WAVECAL=NO	Same Guide Stars in HAT-P-32 E230M T ransit 4 of 4 (12) Sequence 8-9 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 4 of 4 (12) Same Obset in Seque nce 8-9 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 4 of 4 (12)	2601 Secs (2601 Secs) [==>]	[4]
9	HAT-P-32, WAVE POST-SCI WAVECAL		STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in HAT-P-32 E230M T ransit 4 of 4 (12) Sequence 8-9 Non-In t in Same Guide Star s in HAT-P-32 E230 M Transit 4 of 4 (12) Same Obset in Seque nce 8-9 Non-Int in S ame Guide Stars in H AT-P-32 E230M Tra nsit 4 of 4 (12)	[==>]	[4]

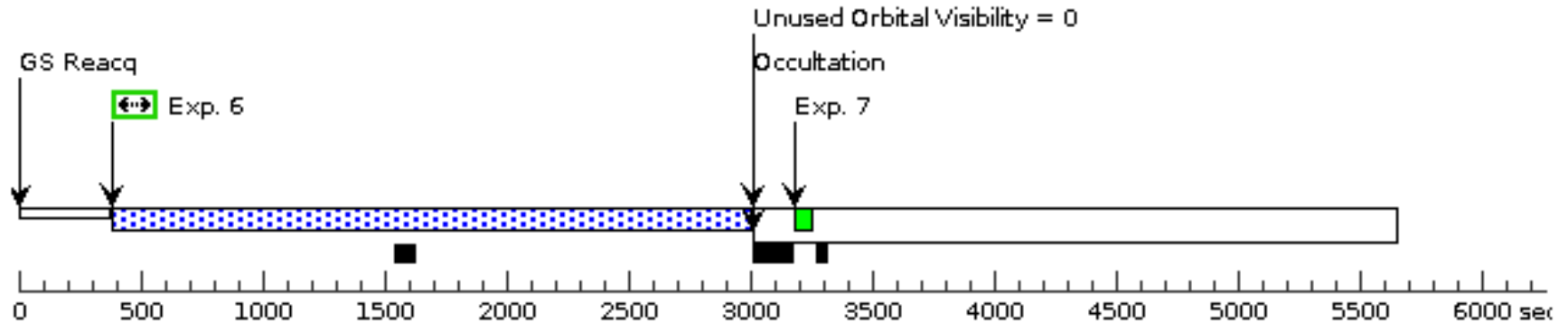
Proposal 18422 - HAT-P-32 E230M Transit 4 of 4 (12) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

10	HAT-P-32, SCIENCE (STIS.sp.23 61016)	(5) HAT-P-32	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=11 66; WAVECAL=NO	Same Guide Stars in HAT-P-32 E230M T ransit 4 of 4 (12) Sequence 10-11 Non-Int in Same Guide S tars in HAT-P-32 E2 30M Transit 4 of 4 (12) Same Obset in Seque nce 10-11 Non-Int in Same Guide Stars in HAT-P-32 E230M T ransit 4 of 4 (12)	2601 Secs (2601 Secs) [==>]	[5]
11	HAT-P-32, POST-SCI WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in HAT-P-32 E230M T ransit 4 of 4 (12) Sequence 10-11 Non-Int in Same Guide S tars in HAT-P-32 E2 30M Transit 4 of 4 (12) Same Obset in Seque nce 10-11 Non-Int in Same Guide Stars in HAT-P-32 E230M T ransit 4 of 4 (12)	[==>]	[5]



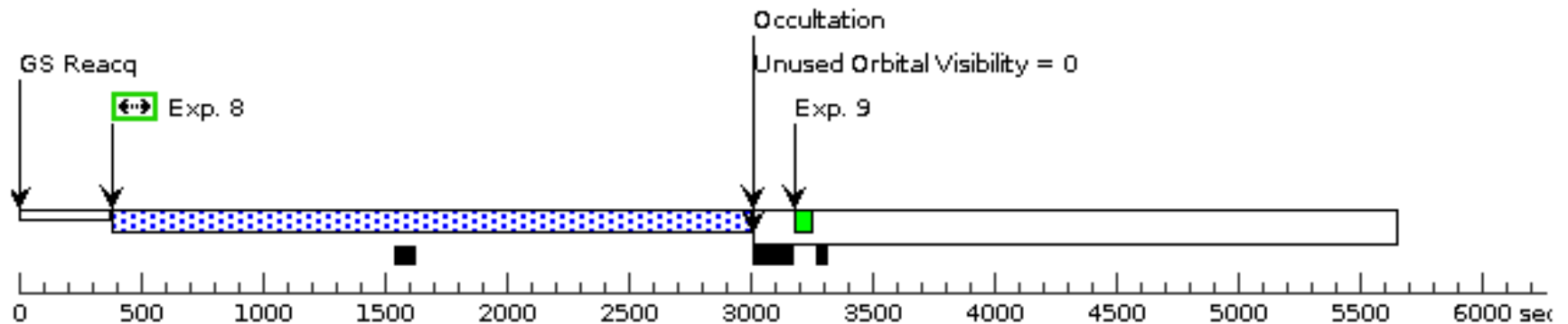
Orbit 3

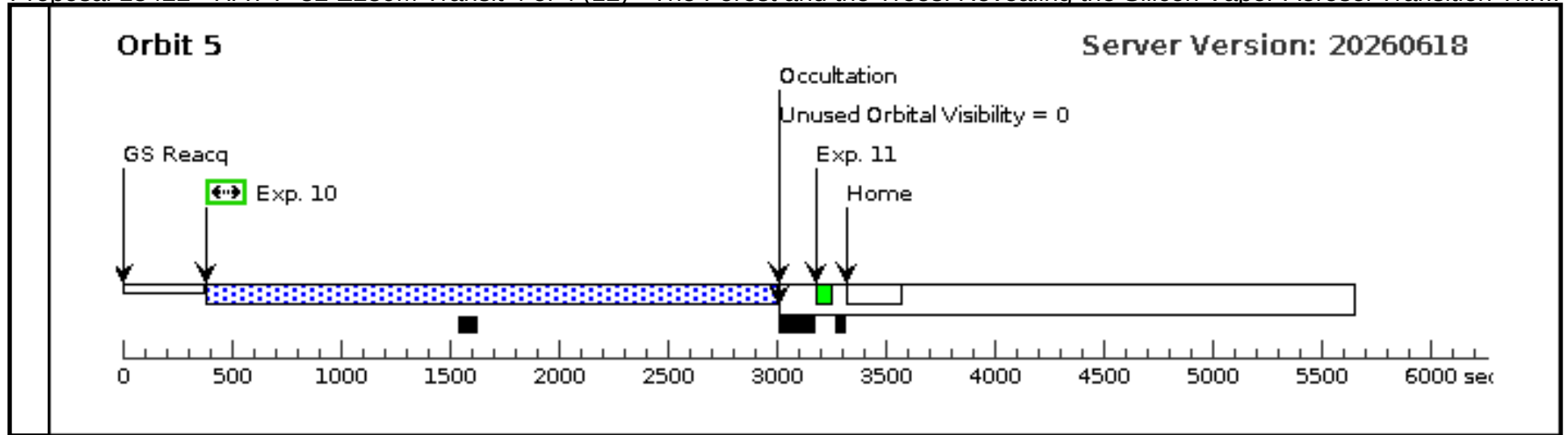
Server Version: 20260618



Orbit 4

Server Version: 20260618





Proposal 18422 - HAT-P-67 E230M Transit 1 of 2 (13) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

Visit	Proposal 18422, HAT-P-67 E230M Transit 1 of 2 (13), implementation Wed Aug 19 17:01:56 GMT 2026				
	Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: Period 4.81010690 D AND ZERO-PHASE HJD2459010.99174 <i>Comments: We require all five orbits in this visit to be taken contiguously with no interruptions. These observations are phase-constrained to begin when HAT-P-67 b is between orbital phases 0.9478344-0.9521656 to ensure that Orbits 2 through 5 capture in-transit flux while Orbit 1 captures pre-transit baseline. Exposure times are calculated from the ETC using Castelli-Kurucz Models F5V 6500 4.0 with a V magnitude of 10.106, which predicts count rates low enough to enable use of TIME TAG mode. Per recommendations by STIS Instrument Handbook chapter 11.1.3, we reduce the buffer time from 624 s (recommended by the ETC) to 499 s (4/5 of the ETC value). This results in exactly 30 buffer dumps in one visit, which is at and does not exceed the threshold specified by the STIS Instrument Handbook chapter 11.1.3.</i> <i>As requested in the Phase I APT, this visit is to occur within 30 days of Visit 14 (HAT-P-67 E230M Transit 2 of 2) to minimize degradation of the transmission spectrum due to stellar activity. This visit and Visit 14 have different phase constraints to ensure sufficient phase coverage is acquired to complete the full transit of HAT-P-67 b.</i>				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(6)	BD+44-2654 Alt Name1: HAT-P-67	RA: 17 06 26.5608 (256.6106700d) Dec: +44 46 37.07 (44.77696d) Equinox: J2000	Proper Motion RA: 9.541 mas/yr Proper Motion Dec: -18.25100009682501 mas/yr Parallax: 0.0026869" Epoch of Position: 2000	V=10.069
Fixed Targets	Miscellaneous Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, F3-F9] Extended=NO				

Proposal 18422 - HAT-P-67 E230M Transit 1 of 2 (13) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	HAT-P-67 T ransit 1, AC Q, phase-co nstrained (STIS.ta.236 1011)	(6) BD+44-2654	STIS/CCD, ACQ, F28X50LP	MIRROR		PHASE 0.9478344 T O 0.9521656	Same Guide Stars in HAT-P-67 E230M T ransit 1 of 2 (13) Sequence 1-3 Non-In t in Same Guide Star s in HAT-P-67 E230 M Transit 1 of 2 (13) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in H AT-P-67 E230M Tra nsit 1 of 2 (13)	0.3 Secs (0.3 Secs) [==>]	[1]
	2	HAT-P-67, SCIENCE (STIS.sp.23 61018)	(6) BD+44-2654	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=49 9; WAVECAL=NO		Same Guide Stars in HAT-P-67 E230M T ransit 1 of 2 (13) Sequence 1-3 Non-In t in Same Guide Star s in HAT-P-67 E230 M Transit 1 of 2 (13) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in H AT-P-67 E230M Tra nsit 1 of 2 (13)	2210 Secs (2210 Secs) [==>]	[1]
	3	HAT-P-67, POST-SCI WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A			Same Guide Stars in HAT-P-67 E230M T ransit 1 of 2 (13) Sequence 1-3 Non-In t in Same Guide Star s in HAT-P-67 E230 M Transit 1 of 2 (13) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in H AT-P-67 E230M Tra nsit 1 of 2 (13)	[==>]	[1]
	4	HAT-P-67, SCIENCE (STIS.sp.23 61019)	(6) BD+44-2654	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=49 9; WAVECAL=NO		Same Guide Stars in HAT-P-67 E230M T ransit 1 of 2 (13) Sequence 4-5 Non-In t in Same Guide Star s in HAT-P-67 E230 M Transit 1 of 2 (13) Same Obset in Seque nce 4-5 Non-Int in S ame Guide Stars in H AT-P-67 E230M Tra nsit 1 of 2 (13)	2591 Secs (2591 Secs) [==>]	[2]

Proposal 18422 - HAT-P-67 E230M Transit 1 of 2 (13) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

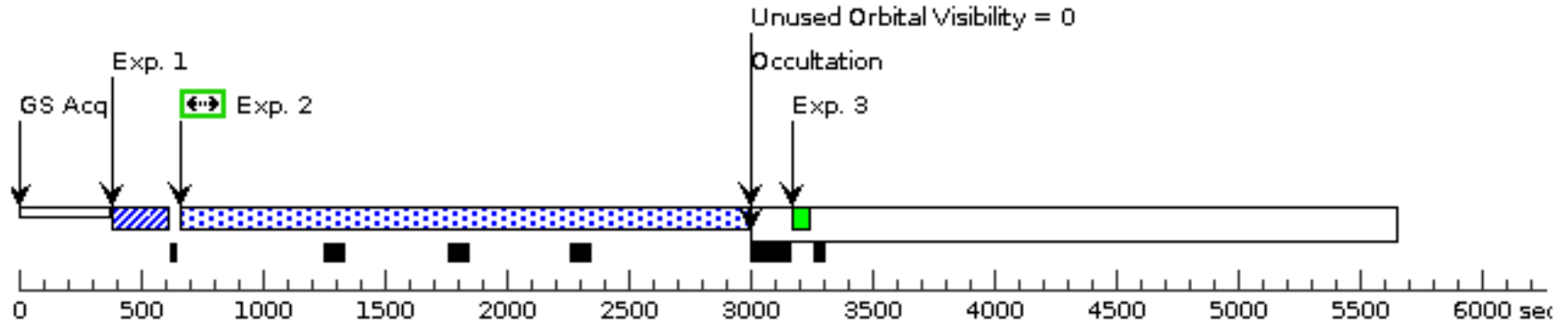
5	HAT-P-67, WAVE POST-SCI WAVECAL		STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in HAT-P-67 E230M T ransit 1 of 2 (13) Sequence 4-5 Non-In t in Same Guide Star s in HAT-P-67 E230 M Transit 1 of 2 (13) Same Obset in Seque nce 4-5 Non-Int in S ame Guide Stars in H AT-P-67 E230M Tra nsit 1 of 2 (13)	[==>]	[2]
6	HAT-P-67, (6) BD+44-2654 SCIENCE (STIS.sp.23 61019)		STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=49 9; WAVECAL=NO	Same Guide Stars in HAT-P-67 E230M T ransit 1 of 2 (13) Sequence 6-7 Non-In t in Same Guide Star s in HAT-P-67 E230 M Transit 1 of 2 (13) Same Obset in Seque nce 6-7 Non-Int in S ame Guide Stars in H AT-P-67 E230M Tra nsit 1 of 2 (13)	2591 Secs (2591 Secs) [==>]	[3]
7	HAT-P-67, WAVE POST-SCI WAVECAL		STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in HAT-P-67 E230M T ransit 1 of 2 (13) Sequence 6-7 Non-In t in Same Guide Star s in HAT-P-67 E230 M Transit 1 of 2 (13) Same Obset in Seque nce 6-7 Non-Int in S ame Guide Stars in H AT-P-67 E230M Tra nsit 1 of 2 (13)	[==>]	[3]
8	HAT-P-67, (6) BD+44-2654 SCIENCE (STIS.sp.23 61019)		STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=49 9; WAVECAL=NO	Same Guide Stars in HAT-P-67 E230M T ransit 1 of 2 (13) Sequence 8-9 Non-In t in Same Guide Star s in HAT-P-67 E230 M Transit 1 of 2 (13) Same Obset in Seque nce 8-9 Non-Int in S ame Guide Stars in H AT-P-67 E230M Tra nsit 1 of 2 (13)	2591 Secs (2591 Secs) [==>]	[4]
9	HAT-P-67, WAVE POST-SCI WAVECAL		STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in HAT-P-67 E230M T ransit 1 of 2 (13) Sequence 8-9 Non-In t in Same Guide Star s in HAT-P-67 E230 M Transit 1 of 2 (13) Same Obset in Seque nce 8-9 Non-Int in S ame Guide Stars in H AT-P-67 E230M Tra nsit 1 of 2 (13)	[==>]	[4]

Proposal 18422 - HAT-P-67 E230M Transit 1 of 2 (13) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

10	HAT-P-67, SCIENCE (STIS.sp.23 61019)	(6) BD+44-2654	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=49 9; WAVECAL=NO	Same Guide Stars in HAT-P-67 E230M T ransit 1 of 2 (13) Sequence 10-11 Non-Int in Same Guide S tars in HAT-P-67 E2 30M Transit 1 of 2 (13) Same Obset in Seque nce 10-11 Non-Int in Same Guide Stars in HAT-P-67 E230M T ransit 1 of 2 (13)	2591 Secs (2591 Secs) [==>]	[5]
11	HAT-P-67, POST-SCI WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in HAT-P-67 E230M T ransit 1 of 2 (13) Sequence 10-11 Non-Int in Same Guide S tars in HAT-P-67 E2 30M Transit 1 of 2 (13) Same Obset in Seque nce 10-11 Non-Int in Same Guide Stars in HAT-P-67 E230M T ransit 1 of 2 (13)	[==>]	[5]

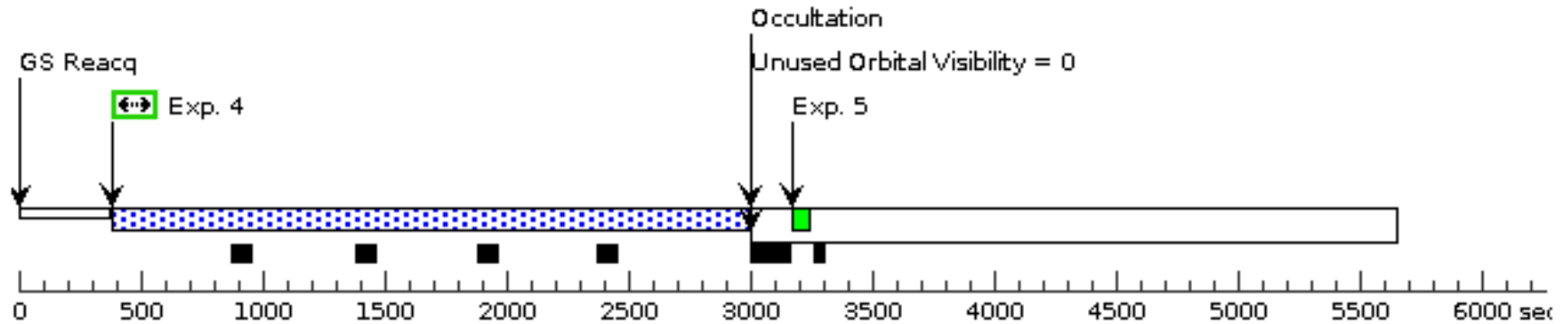
Orbit 1

Server Version: 20260618



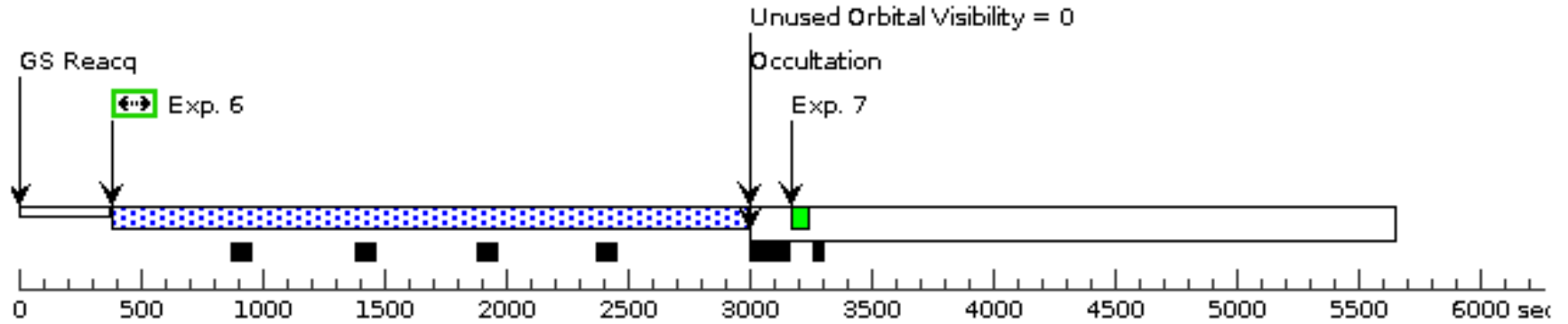
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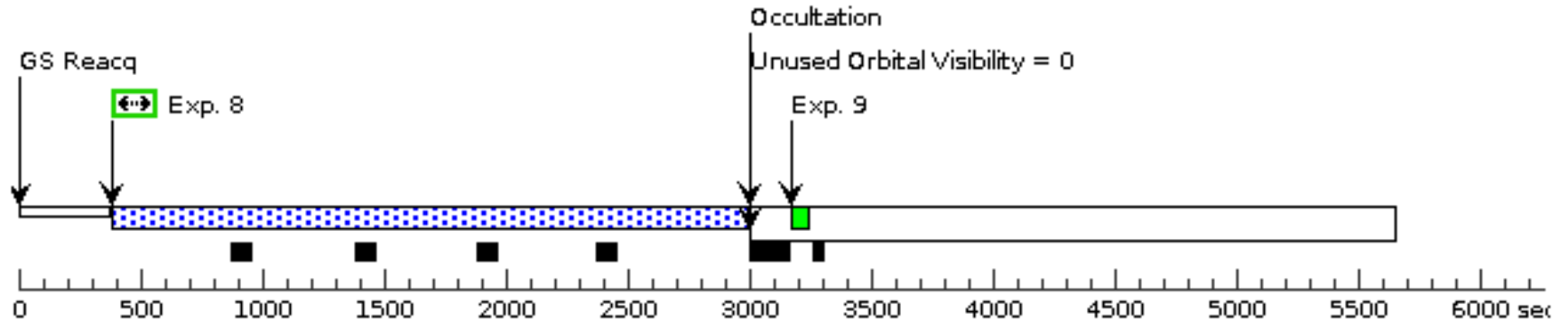
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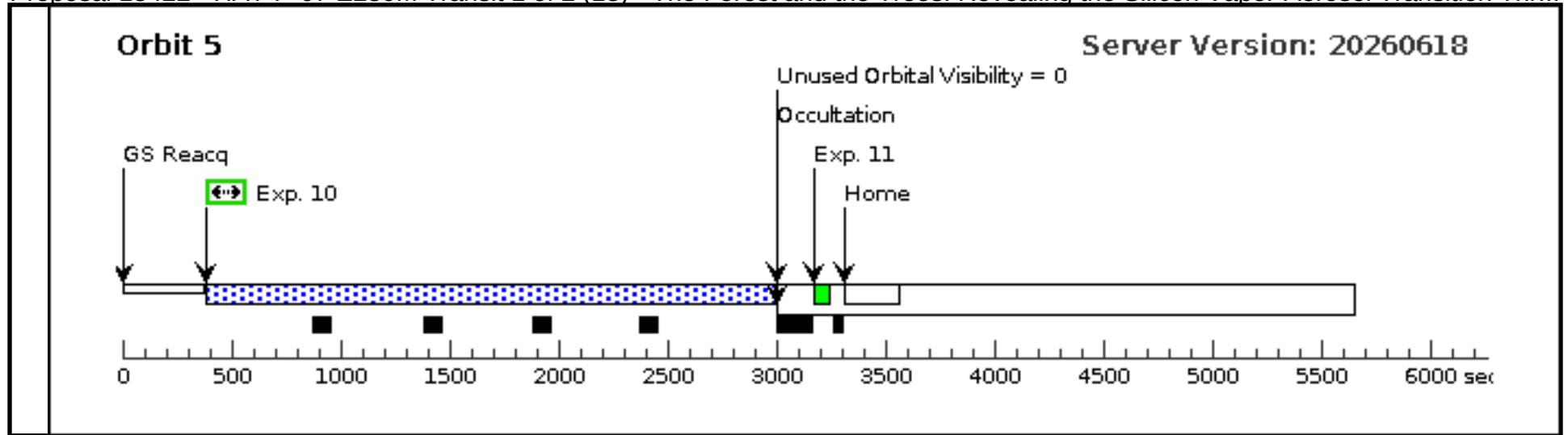
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Orbit 4

Server Version: 20260618





Proposal 18422 - HAT-P-67 E230M Transit 2 of 2 (14) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

Visit	Proposal 18422, HAT-P-67 E230M Transit 2 of 2 (14), implementation Wed Aug 19 17:01:56 GMT 2026				
	Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: Period 4.81010690 D AND ZERO-PHASE HJD2459010.99174; SEQ 13,14 WITHIN 30 D Comments: We require all five orbits in this visit to be taken contiguously with no interruptions. These observations are phase-constrained to begin when HAT-P-67 b is between orbital phases 0.98683442-0.991165579 to ensure that Orbits 1 through 4 capture in-transit flux while Orbit 5 captures post-transit baseline. Exposure times are calculated from the ETC using Castelli-Kurucz Models F5V 6500 4.0 with a V magnitude of 10.106, which predicts count rates low enough to enable use of TIME TAG mode. Per recommendations by STIS Instrument Handbook chapter 11.1.3, we reduce the buffer time from 624 s (recommended by the ETC) to 499 s (4/5 of the ETC value). This results in exactly 30 buffer dumps in one visit, which is at and does not exceed the threshold specified by the STIS Instrument Handbook chapter 11.1.3. As requested in the Phase I APT, this visit is to occur within 30 days of Visit 13 (HAT-P-67 E230M Transit 1 of 2) to minimize degradation of the transmission spectrum due to stellar activity. This visit and Visit 13 have different phase constraints to ensure sufficient phase coverage is acquired to complete the full transit of HAT-P-67 b.				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(6)	BD+44-2654 Alt Name1: HAT-P-67	RA: 17 06 26.5608 (256.6106700d) Dec: +44 46 37.07 (44.77696d) Equinox: J2000	Proper Motion RA: 9.541 mas/yr Proper Motion Dec: -18.25100009682501 mas/yr Parallax: 0.0026869" Epoch of Position: 2000	V=10.069
Fixed Targets	Reference Frame: ICRS Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM. Category=STAR Description=[EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM, F3-F9] Extended=NO				

Proposal 18422 - HAT-P-67 E230M Transit 2 of 2 (14) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	HAT-P-67 T ransit 1, AC Q, phase-co nstrained (STIS.ta.236 1011)	(6) BD+44-2654	STIS/CCD, ACQ, F28X50LP	MIRROR		PHASE 0.98683442 TO 0.991165579	Same Guide Stars in HAT-P-67 E230M T ransit 2 of 2 (14) Sequence 1-3 Non-In t in Same Guide Star s in HAT-P-67 E230 M Transit 2 of 2 (14) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in H AT-P-67 E230M Tra nsit 2 of 2 (14)	0.3 Secs (0.3 Secs) [==>]	[1]
	2	HAT-P-67, SCIENCE (STIS.sp.23 61018)	(6) BD+44-2654	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=49 9; WAVECAL=NO		Same Guide Stars in HAT-P-67 E230M T ransit 2 of 2 (14) Sequence 1-3 Non-In t in Same Guide Star s in HAT-P-67 E230 M Transit 2 of 2 (14) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in H AT-P-67 E230M Tra nsit 2 of 2 (14)	2210 Secs (2210 Secs) [==>]	[1]
	3	HAT-P-67, POST-SCI WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A			Same Guide Stars in HAT-P-67 E230M T ransit 2 of 2 (14) Sequence 1-3 Non-In t in Same Guide Star s in HAT-P-67 E230 M Transit 2 of 2 (14) Same Obset in Seque nce 1-3 Non-Int in S ame Guide Stars in H AT-P-67 E230M Tra nsit 2 of 2 (14)	[==>]	[1]
	4	HAT-P-67, SCIENCE (STIS.sp.23 61019)	(6) BD+44-2654	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=49 9; WAVECAL=NO		Same Guide Stars in HAT-P-67 E230M T ransit 2 of 2 (14) Sequence 4-5 Non-In t in Same Guide Star s in HAT-P-67 E230 M Transit 2 of 2 (14) Same Obset in Seque nce 4-5 Non-Int in S ame Guide Stars in H AT-P-67 E230M Tra nsit 2 of 2 (14)	2591 Secs (2591 Secs) [==>]	[2]

Proposal 18422 - HAT-P-67 E230M Transit 2 of 2 (14) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

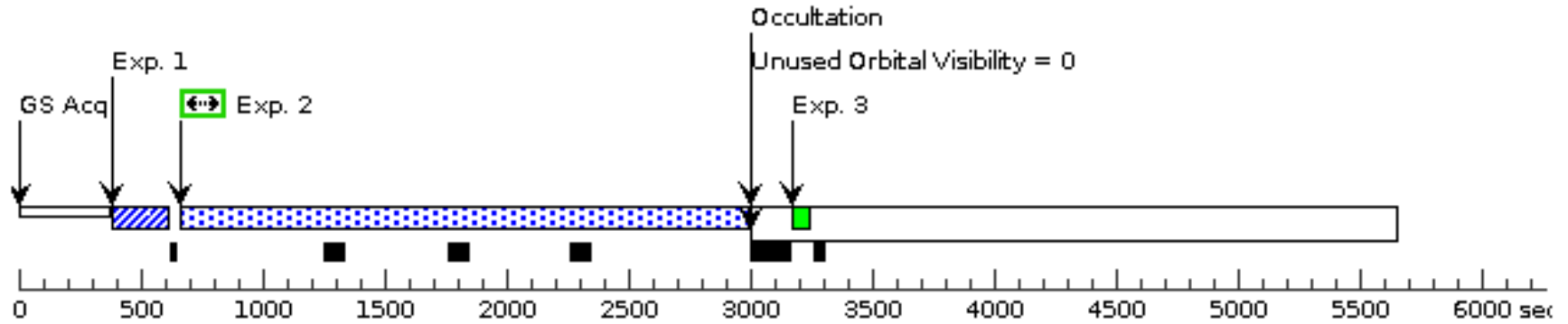
5	HAT-P-67, WAVE POST-SCI WAVECAL		STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in HAT-P-67 E230M T ransit 2 of 2 (14) Sequence 4-5 Non-In t in Same Guide Star s in HAT-P-67 E230 M Transit 2 of 2 (14) Same Obset in Seque nce 4-5 Non-Int in S ame Guide Stars in H AT-P-67 E230M Tra nsit 2 of 2 (14)	[==>]	[2]
6	HAT-P-67, (6) BD+44-2654 SCIENCE (STIS.sp.23 61019)		STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=49 9; WAVECAL=NO	Same Guide Stars in HAT-P-67 E230M T ransit 2 of 2 (14) Sequence 6-7 Non-In t in Same Guide Star s in HAT-P-67 E230 M Transit 2 of 2 (14) Same Obset in Seque nce 6-7 Non-Int in S ame Guide Stars in H AT-P-67 E230M Tra nsit 2 of 2 (14)	2591 Secs (2591 Secs) [==>]	[3]
7	HAT-P-67, WAVE POST-SCI WAVECAL		STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in HAT-P-67 E230M T ransit 2 of 2 (14) Sequence 6-7 Non-In t in Same Guide Star s in HAT-P-67 E230 M Transit 2 of 2 (14) Same Obset in Seque nce 6-7 Non-Int in S ame Guide Stars in H AT-P-67 E230M Tra nsit 2 of 2 (14)	[==>]	[3]
8	HAT-P-67, (6) BD+44-2654 SCIENCE (STIS.sp.23 61019)		STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=49 9; WAVECAL=NO	Same Guide Stars in HAT-P-67 E230M T ransit 2 of 2 (14) Sequence 8-9 Non-In t in Same Guide Star s in HAT-P-67 E230 M Transit 2 of 2 (14) Same Obset in Seque nce 8-9 Non-Int in S ame Guide Stars in H AT-P-67 E230M Tra nsit 2 of 2 (14)	2591 Secs (2591 Secs) [==>]	[4]
9	HAT-P-67, WAVE POST-SCI WAVECAL		STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in HAT-P-67 E230M T ransit 2 of 2 (14) Sequence 8-9 Non-In t in Same Guide Star s in HAT-P-67 E230 M Transit 2 of 2 (14) Same Obset in Seque nce 8-9 Non-Int in S ame Guide Stars in H AT-P-67 E230M Tra nsit 2 of 2 (14)	[==>]	[4]

Proposal 18422 - HAT-P-67 E230M Transit 2 of 2 (14) - The Forest and the Trees: Revealing the Silicon Vapor-Aerosol Transition Thr...

10	HAT-P-67, SCIENCE (STIS.sp.23 61019)	(6) BD+44-2654	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 2707 A	BUFFER-TIME=49 9; WAVECAL=NO	Same Guide Stars in HAT-P-67 E230M T ransit 2 of 2 (14) Sequence 10-11 Non-Int in Same Guide S tars in HAT-P-67 E2 30M Transit 2 of 2 (14) Same Obset in Seque nce 10-11 Non-Int in Same Guide Stars in HAT-P-67 E230M T ransit 2 of 2 (14)	2591 Secs (2591 Secs) [==>]	[5]
11	HAT-P-67, POST-SCI WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 2707 A		Same Guide Stars in HAT-P-67 E230M T ransit 2 of 2 (14) Sequence 10-11 Non-Int in Same Guide S tars in HAT-P-67 E2 30M Transit 2 of 2 (14) Same Obset in Seque nce 10-11 Non-Int in Same Guide Stars in HAT-P-67 E230M T ransit 2 of 2 (14)	[==>]	[5]

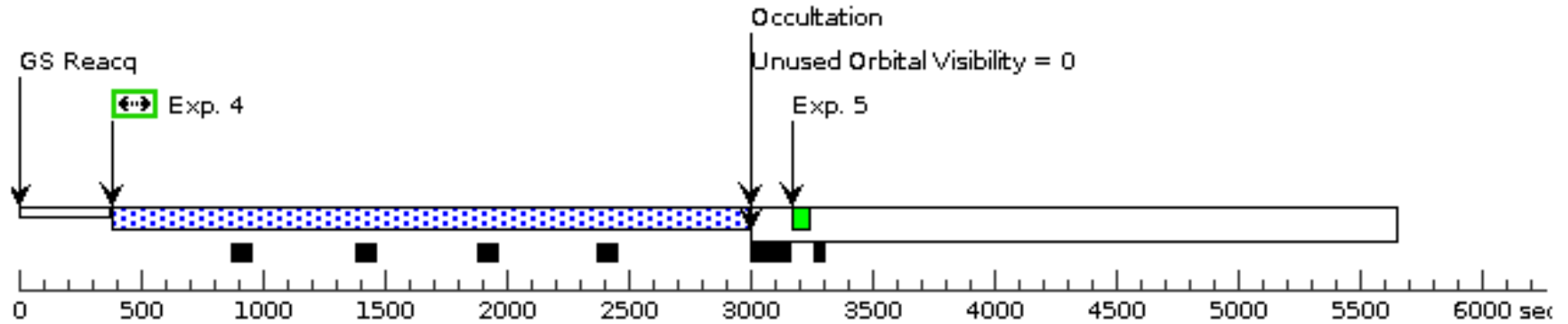
Orbit 1

Server Version: 20260618



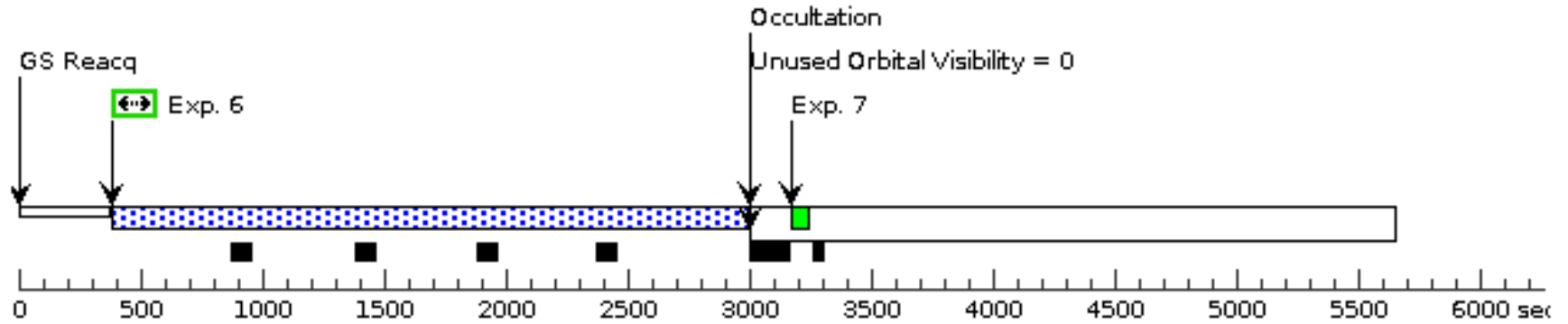
Orbit 2

Server Version: 20260618



Orbit 3

Server Version: 20260618



Orbit 4

Server Version: 20260618

