17183 - Hubble Ultraviolet-optical Survey of Transiting Legacy Exoplanets (HUSTLE) treasury program

Cycle: 30, Proposal Category: GO

(UV Initiative, Treasury)

(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) HAT-P-12	WFC3/UVIS	3	30-Jun-2025 16:00:34.0	yes
02	(1) HAT-P-12	WFC3/UVIS	3	30-Jun-2025 16:00:35.0	yes
03	(1) HAT-P-12	WFC3/UVIS	3	30-Jun-2025 16:00:36.0	yes
04	(1) HAT-P-12	WFC3/UVIS	3	30-Jun-2025 16:00:36.0	yes

Visit	***Targets used in Visit***	***Configurations used in Visit***	***Orbits Used***	***Last Orbit Planner Run***	***OP Current with Visit?***
05	(2) HAT-P-26	WFC3/UVIS	4	30-Jun-2025 16:00:37.0	yes
06	(2) HAT-P-26	WFC3/UVIS	4	30-Jun-2025 16:00:39.0	yes
07	(2) HAT-P-26	WFC3/UVIS	4	30-Jun-2025 16:00:40.0	yes
27	(2) HAT-P-26	WFC3/UVIS	4	30-Jun-2025 16:00:42.0	yes
08	(3) WASP-166	WFC3/UVIS	5	30-Jun-2025 16:00:45.0	yes
09	(3) WASP-166	WFC3/UVIS	5	30-Jun-2025 16:00:51.0	yes
25	(3) WASP-166	WFC3/UVIS	5	30-Jun-2025 16:00:55.0	yes
10	(4) HAT-P-1	WFC3/UVIS	4	30-Jun-2025 16:00:59.0	yes
11	(4) HAT-P-1	WFC3/UVIS	4	30-Jun-2025 16:01:02.0	yes
12	(5) WASP-127	WFC3/UVIS	5	30-Jun-2025 16:01:05.0	yes
13	(6) WASP-63	WFC3/UVIS	6	30-Jun-2025 16:01:08.0	yes
14	(6) WASP-63	WFC3/UVIS	6	30-Jun-2025 16:01:10.0	yes
15	(6) WASP-63	WFC3/UVIS	6	30-Jun-2025 16:01:12.0	yes
26	(6) WASP-63	WFC3/UVIS	6	30-Jun-2025 16:01:14.0	yes
16	(7) WASP-31	WFC3/UVIS	4	30-Jun-2025 16:01:15.0	yes
28	(7) WASP-31	WFC3/UVIS	4	30-Jun-2025 16:01:16.0	yes
18	(9) WASP-17	WFC3/UVIS	5	30-Jun-2025 16:01:17.0	yes
19	(10) HAT-P-32	WFC3/UVIS	4	30-Jun-2025 16:01:19.0	yes
29	(10) HAT-P-32	WFC3/UVIS	4	30-Jun-2025 16:01:20.0	yes
20	(11) KELT-7	WFC3/UVIS	5	30-Jun-2025 16:01:23.0	yes
21	(12) WASP-76	WFC3/UVIS	5	30-Jun-2025 16:01:28.0	yes
22	(13) WASP-189	WFC3/UVIS	6	30-Jun-2025 16:01:33.0	yes
23	(13) WASP-189	WFC3/UVIS	6	30-Jun-2025 16:01:41.0	yes
24	(13) WASP-189	WFC3/UVIS	6	30-Jun-2025 16:01:49.0	yes

129 Total Orbits Used

ABSTRACT

The UV contains unique constraints on the atmospheric properties of a planet. Yet, the UV is an often overlooked wavelength region for exoplanet studies despite the wealth of information it contains on aerosol scattering properties and unknown absorbers. We propose to conduct a Hubble Ultraviolet-optical Survey of Transiting Legacy Exoplanets (HUSTLE) treasury program using the newly proven capabilities of the WFC3/UVIS G280 grism to produce a spectroscopic survey of 14 exoplanet atmospheres from 200-800nm. G280 has the highest throughput among all Hubble's UV instruments, making it an important instrument for the future of UV exoplanet science. This program targets giant planets from warm Neptunes to ultra hot Jupiters with equilibrium temperatures from 900-2600K, spanning a broad range of chemical, aerosol, and irradiation conditions.

This treasury program will expand Hubble's UV legacy for exoplanet studies, and in doing so, will address several important science questions: 1) place constraints on aerosol particle sizes, altitudes, and vertical mixing of clouds on the planetary limb, 2) identify and constrain the abundance of any Mid to Near-UV absorbers, and 3) leverage these directly measured properties to create legacy datasets to facilitate comparative studies, adding to our understanding of the mechanisms that sculpt these worlds.

Our target list includes a number of well known exoplanets that have formed the basis of our understanding of these extreme atmospheres and are already targets for Webb. The HUSTLE treasury program will provide the critical missing puzzle pieces to ensure that we can view the full picture of exoplanet atmospheres now and in the future.

OBSERVING DESCRIPTION

This program uses the WFC3-UVIS G280 grism to measure the transmission spectrum of 14 exoplanets. There are 26 visits in total with between one and four transits per targets to obtain the required SNR. Exposure times have been selected to maximize the number of exposures obtained per HST orbit increasing the overall SNR of the observations. Exposures range between filling 60 - 87% full well. The observations are accompanied by a 300X filter image for wavelength calibration, apart from for HAT-P-12 where we use the clear F200LP filter. Subarrays are used to reduce the overheads and buffer dumps are positioned during Earth occultation events. The target is centered on chip2 of the detector which has a more accurate calibration profile. Each observation is centered around a transit event such that baseling of the star is acquired before and after transit. The first orbit will not be impacted by additional systematics and will be used in the full analysis.

Nominal UVIS aperture is ~10" above the chip gap on chip 1; a Y-postarg of about -50" places the target near the center of chip 2.

Observational set-up is kept as consistant as possible to enable uniform analysis.
SIZEAXIS1=2100 and SIZEAXIS2=600 are used to minimize data volume (in some cases the Sizeaxis2 is reduced for the same reason), while CENTERAXIS2 is used to center the subarray readout on the target location. CENTERAXIS2 is set to 1208 and CENTERAXIS1 is set to 2148, to place the center of the subarray at the vertical center of chip 2. FLASH is required for a numeber of targets where exposure times are less than 220s and is set according to the required flux. All filter images require a FLASH of 16 to remove warnings. These parameters are based upon similar observations obtained successfully in proposal 16039 and 15288.

Visit

Proposal 17183, HAT-P-12 T1 (01), completed Mon Jun 30 20:01:51 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; Period 3.21306 D AND ZERO-PHASE HJD2456446.635829

Comments: SIZEAXIS2 set to maximize data volume.
Filter F200LP used to minimize time taken with F300X due to dimness of target.
Based on ETC calculations with Castelli-Kurucz Models K2V 4750 4.5 at V mag = 12.8
G280 time to saturation = 1317.13s
No known nearby sources to avoid
Centaxis paramters set based on previous program measurements (16039, 15838, 15288).
HAT-P-12 T1, T2, T3, and T4 are all conducted with the same set-up

Diagnostics

(HAT-P-12 T1 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

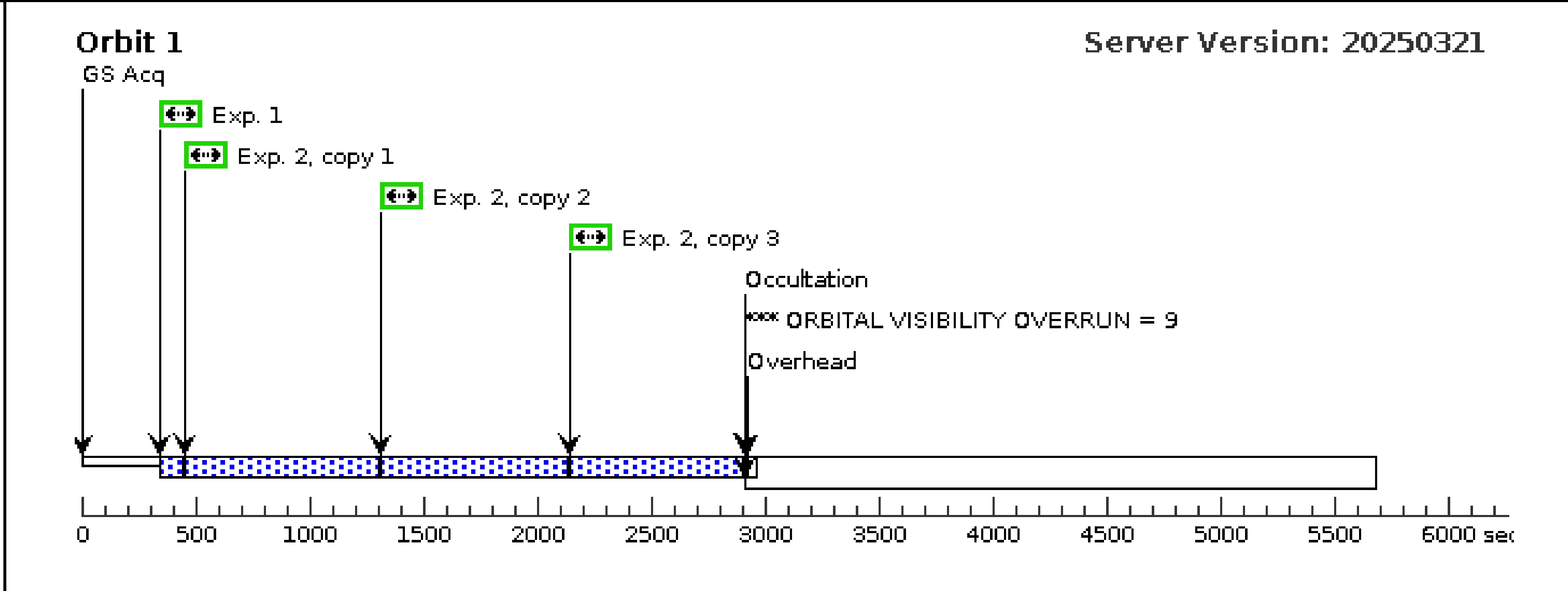
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HAT-P-12	RA: 13 57 33.2749 (209.3886454d) Dec: +43 29 35.92 (43.49331d) Equinox: J2000	Proper Motion RA: -0.012386805361232624 sec of time/yr Proper Motion Dec: -0.044293999917499605 arcsec/yr Epoch of Position: 2015.5	V=12.84	Reference Frame: SIMBAD

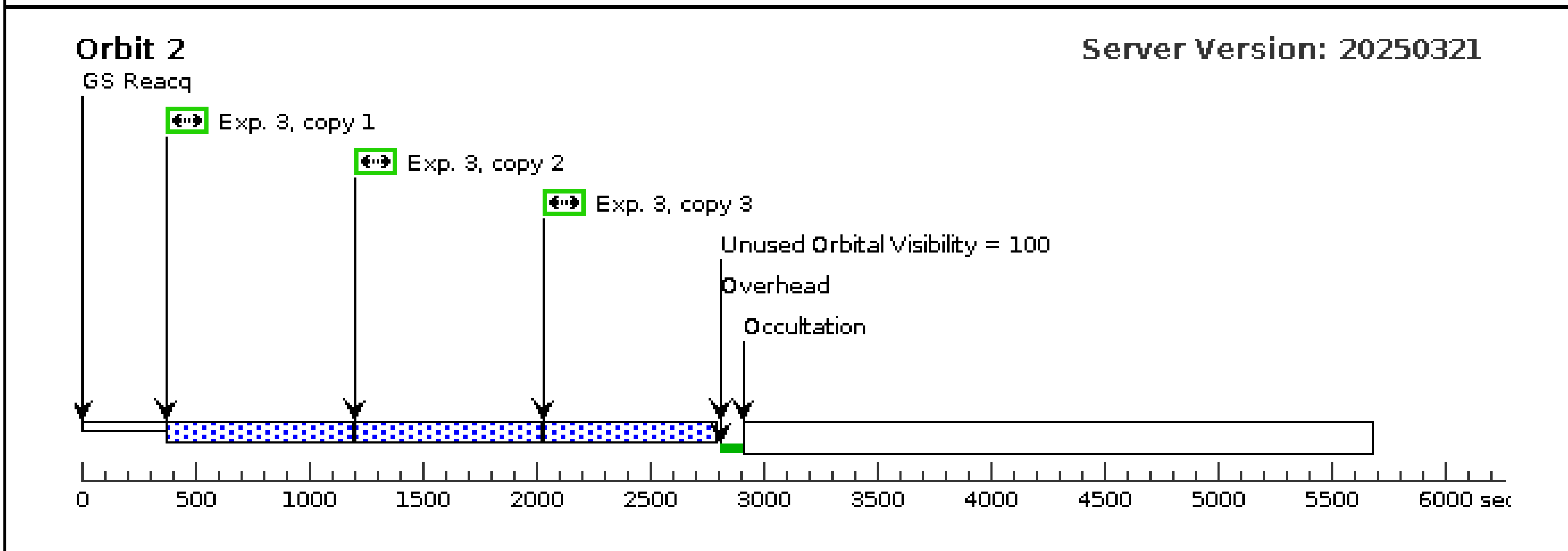
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET]
Extended=NO

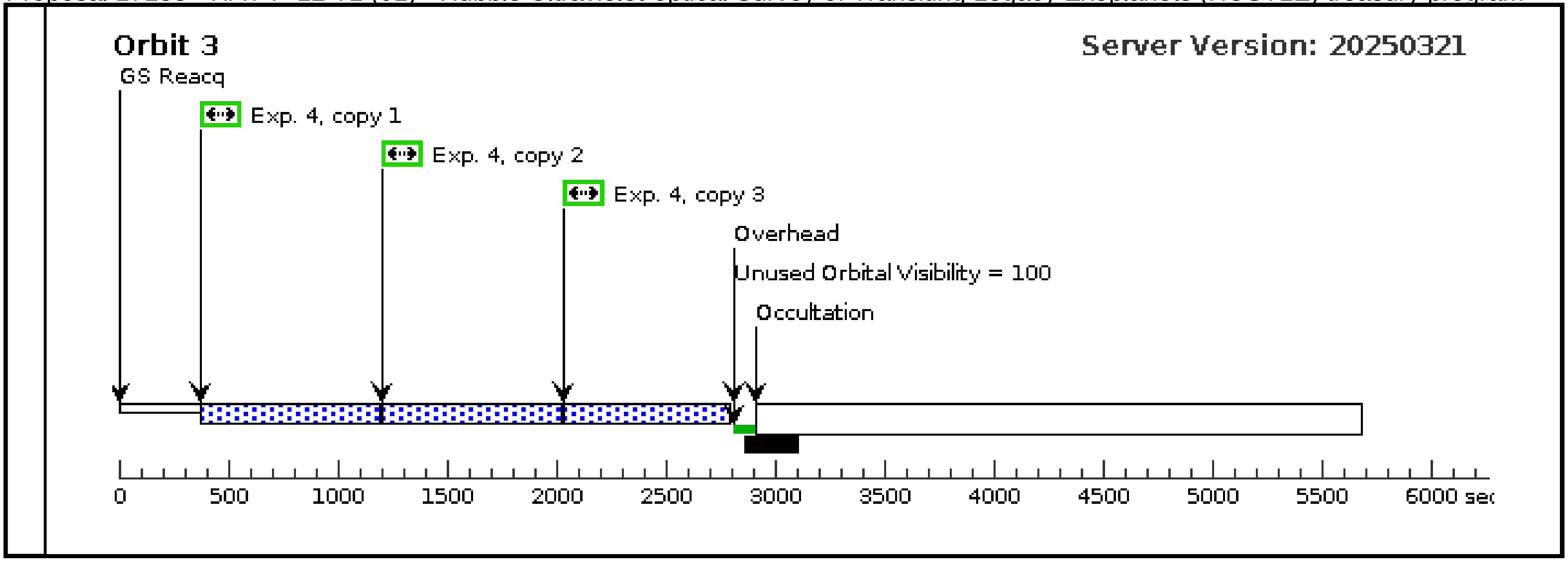
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) HAT-P-12	WFC3/UVIS, ACCUM, G280-REF	F200LP	FLASH=16; SIZEAXIS1=2100; SIZEAXIS2=580; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50; PHASE 0.971902864124166 TO 0.976225500412756	Sequence 1-2 Non-Int in HAT-P-12 T1 (01)	1 Secs (1 Secs) *[==>]*	*[1]*
2		(1) HAT-P-12	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=580; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 1-2 Non-Int in HAT-P-12 T1 (01)	763 Secs X 3 (2289 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]*	*[1]*
3		(1) HAT-P-12	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=580; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 3-3 Non-Int in HAT-P-12 T1 (01)	763 Secs X 3 (2289 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]*	*[2]*
4		(1) HAT-P-12	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=580; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 4-4 Non-Int in HAT-P-12 T1 (01)	763 Secs X 3 (2289 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]*	*[3]*

Orbit Structure






Orbit 3
Server Version: 20250321
GS Reacq
Exp. 4, copy 1
Exp. 4, copy 2
Exp. 4, copy 3
Overhead
Unused Orbital Visibility = 100
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17183, HAT-P-12 T2 (02), completed Mon Jun 30 20:01:51 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; Period 3.21306 D AND ZERO-PHASE HJD2456446.635829

Comments: SIZEAXIS2 set to maximize data volume.
Filter F200LP used to minimize time taken with F300X due to dimness of target.
Based on ETC calculations with Castelli-Kurucz Models K2V 4750 4.5 at V mag = 12.8
G280 time to saturation = 1317.13s
No known nearby sources to avoid
Centaxis paramters set based on previous program measurements (16039, 15838, 15288).
HAT-P-12 T1, T2, T3, and T4 are all conducted with the same set-up

Diagnostics

(HAT-P-12 T2 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

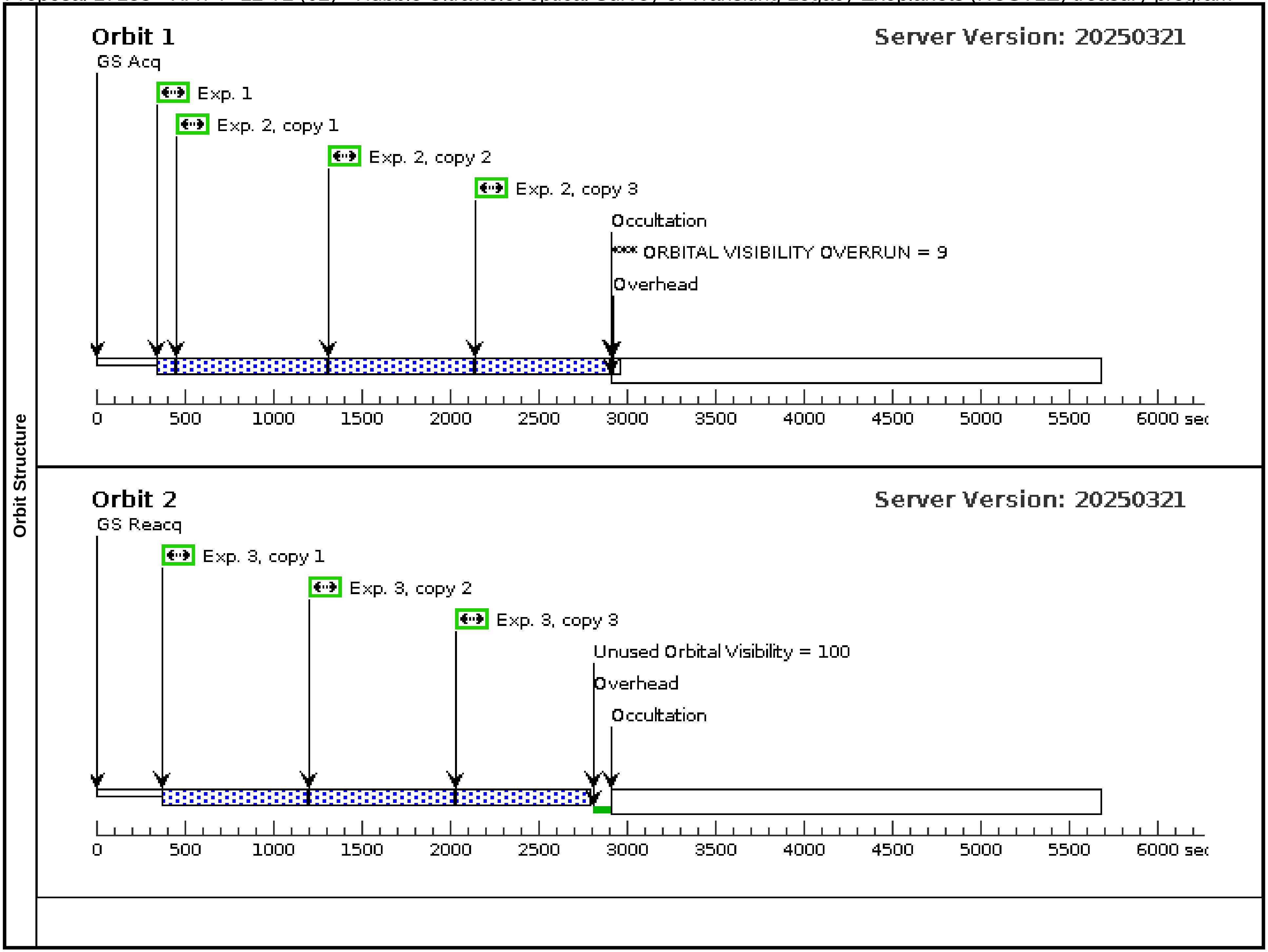
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HAT-P-12	RA: 13 57 33.2749 (209.3886454d) Dec: +43 29 35.92 (43.49331d) Equinox: J2000	Proper Motion RA: -0.012386805361232624 sec of time/yr Proper Motion Dec: -0.044293999917499605 arcsec/yr Epoch of Position: 2015.5	V=12.84	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET]
Extended=NO

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) HAT-P-12	WFC3/UVIS, ACCUM, G280-REF	F200LP	FLASH=16; SIZEAXIS1=2100; SIZEAXIS2=580; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50; PHASE 0.971902864124166 TO 0.976225500412756	Sequence 1-2 Non-Int in HAT-P-12 T2 (02)	1 Secs (1 Secs) *[==>]*	*[1]*
2		(1) HAT-P-12	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=580; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 1-2 Non-Int in HAT-P-12 T2 (02)	763 Secs X 3 (2289 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]*	*[1]*
3		(1) HAT-P-12	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=580; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 3-3 Non-Int in HAT-P-12 T2 (02)	763 Secs X 3 (2289 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]*	*[2]*
4		(1) HAT-P-12	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=580; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 4-4 Non-Int in HAT-P-12 T2 (02)	763 Secs X 3 (2289 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]*	*[3]*


Orbit Structure
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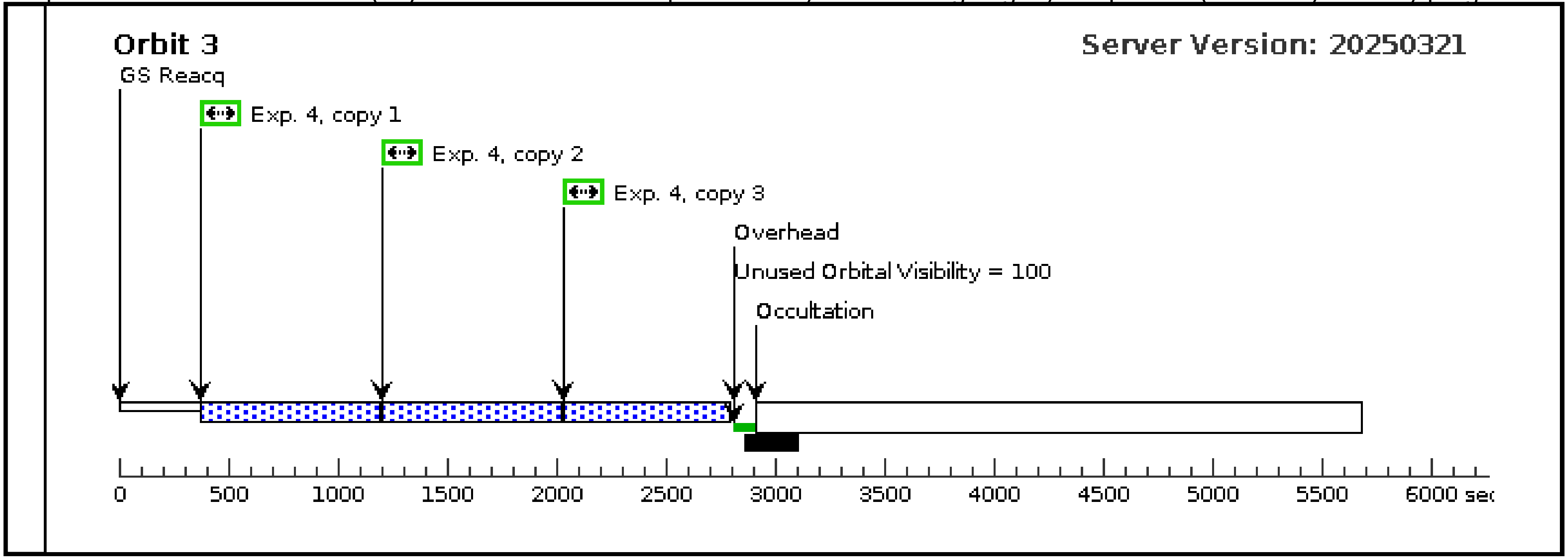
Server Version: 20250321
GS Acq
Exp. 1
Exp. 2, copy 1
Exp. 2, copy 2
Exp. 2, copy 3
Occultation
*** ORBITAL VISIBILITY OVERRUN = 9
Overhead
0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec
Orbit 2
Server Version: 20250321
GS Reacq
Exp. 3, copy 1
Exp. 3, copy 2
Exp. 3, copy 3
Unused Orbital Visibility = 100
Overhead
Occultation
0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec


Orbit 3
Server Version: 20250321
GS Reacq
Exp. 4, copy 1
Exp. 4, copy 2
Exp. 4, copy 3
Overhead
Unused Orbital Visibility = 100
Occultation
0
500
1000
1500
2000
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5500
6000 sec

Visit

Proposal 17183, HAT-P-12 T3 (03), completed Mon Jun 30 20:01:52 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; Period 3.21306 D AND ZERO-PHASE HJD2456446.635829

Comments: SIZEAXIS2 set to maximize data volume.
Filter F200LP used to minimize time taken with F300X due to dimness of target.
Based on ETC calculations with Castelli-Kurucz Models K2V 4750 4.5 at V mag = 12.8
G280 time to saturation = 1317.13s
No known nearby sources to avoid
Centaxis paramters set based on previous program measurements (16039, 15838, 15288).
HAT-P-12 T1, T2, T3, and T4 are all conducted with the same set-up

Diagnostics

(HAT-P-12 T3 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

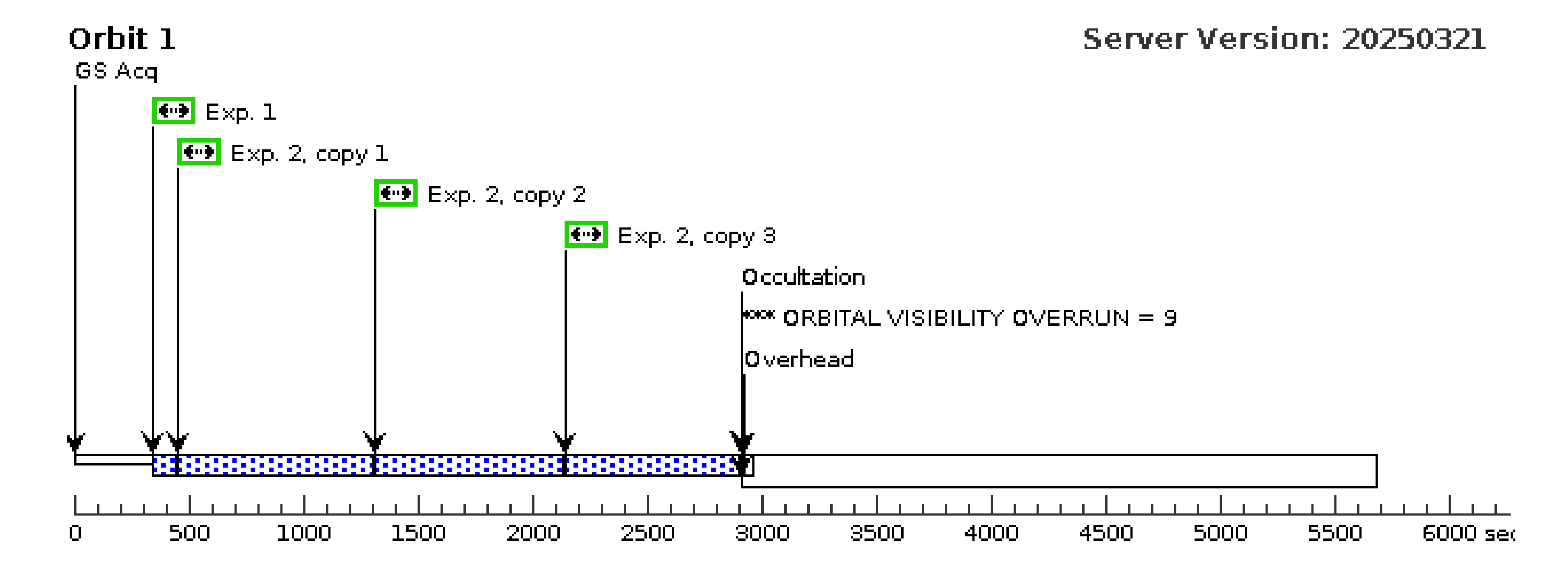
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HAT-P-12	RA: 13 57 33.2749 (209.3886454d) Dec: +43 29 35.92 (43.49331d) Equinox: J2000	Proper Motion RA: -0.012386805361232624 sec of time/yr Proper Motion Dec: -0.044293999917499605 arcsec/yr Epoch of Position: 2015.5	V=12.84	Reference Frame: SIMBAD

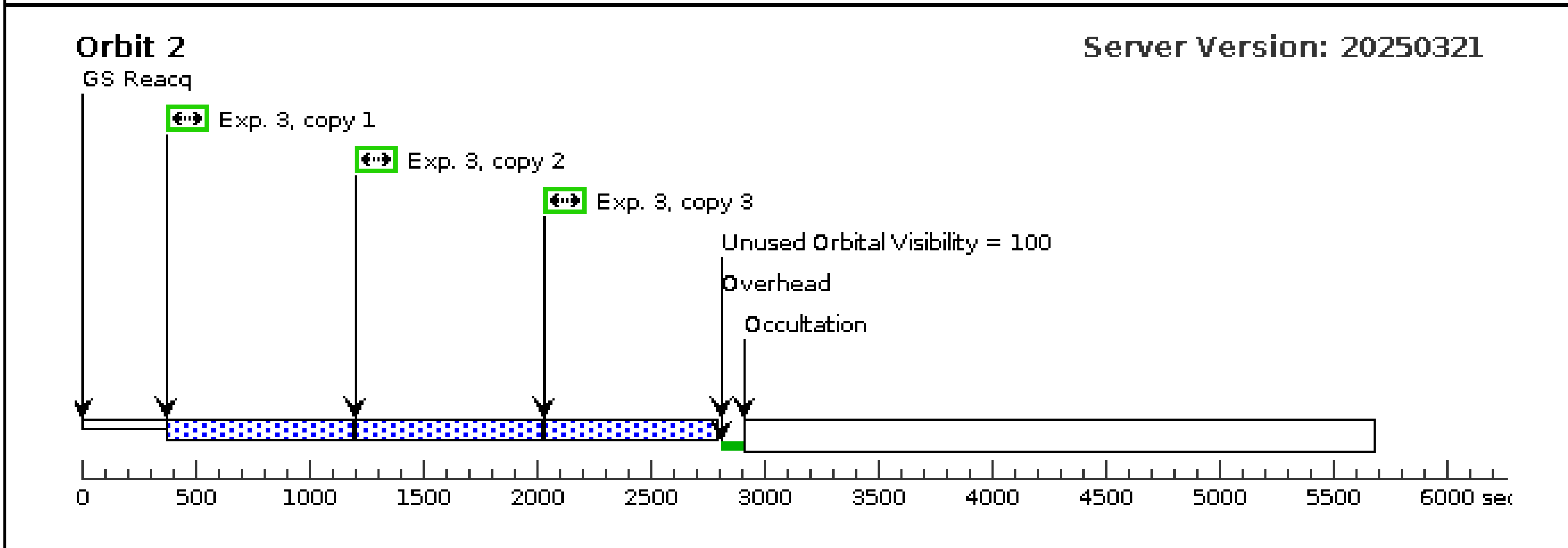
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET]
Extended=NO

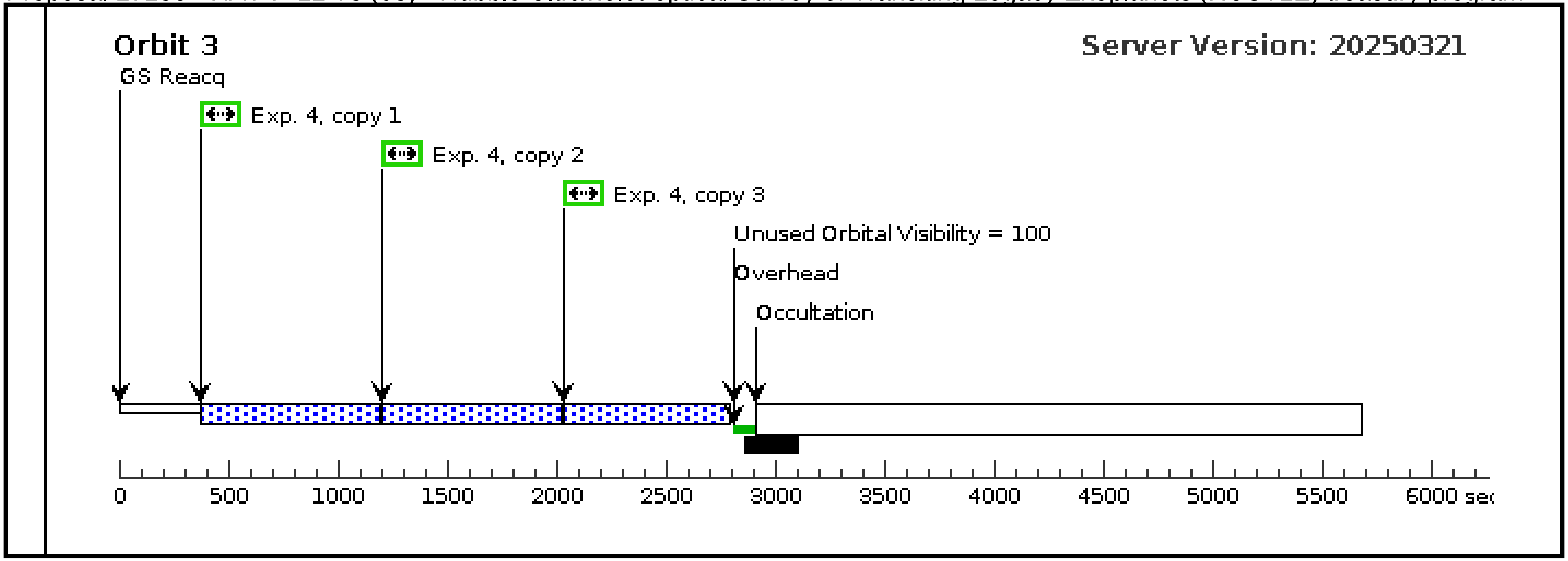
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) HAT-P-12	WFC3/UVIS, ACCUM, G280-REF	F200LP	FLASH=16; SIZEAXIS1=2100; SIZEAXIS2=580; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50; PHASE 0.971902864124166 TO 0.976225500412756	Sequence 1-2 Non-Int in HAT-P-12 T3 (03)	1 Secs (1 Secs) *[==>]*	***[1]***
2		(1) HAT-P-12	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=580; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 1-2 Non-Int in HAT-P-12 T3 (03)	763 Secs X 3 (2289 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]*	***[1]***
3		(1) HAT-P-12	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=580; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 3-3 Non-Int in HAT-P-12 T3 (03)	763 Secs X 3 (2289 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]*	***[2]***
4		(1) HAT-P-12	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=580; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 4-4 Non-Int in HAT-P-12 T3 (03)	763 Secs X 3 (2289 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]*	***[3]***

Orbit Structure






Orbit 3
Server Version: 20250321
GS Reacq
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Exp. 4, copy 2
Exp. 4, copy 3
Unused Orbital Visibility = 100
Overhead
Occultation
0
500
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Visit

Proposal 17183, HAT-P-12 T4 (04), completed Mon Jun 30 20:01:52 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; Period 3.21306 D AND ZERO-PHASE HJD2456446.635829

Comments: SIZEAXIS2 set to maximize data volume.
Filter F200LP used to minimize time taken with F300X due to dimness of target.
Based on ETC calculations with Castelli-Kurucz Models K2V 4750 4.5 at V mag = 12.8
G280 time to saturation = 1317.13s
No known nearby sources to avoid
Centaxis paramters set based on previous program measurements (16039, 15838, 15288).
HAT-P-12 T1, T2, T3, and T4 are all conducted with the same set-up

Diagnostics

(HAT-P-12 T4 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

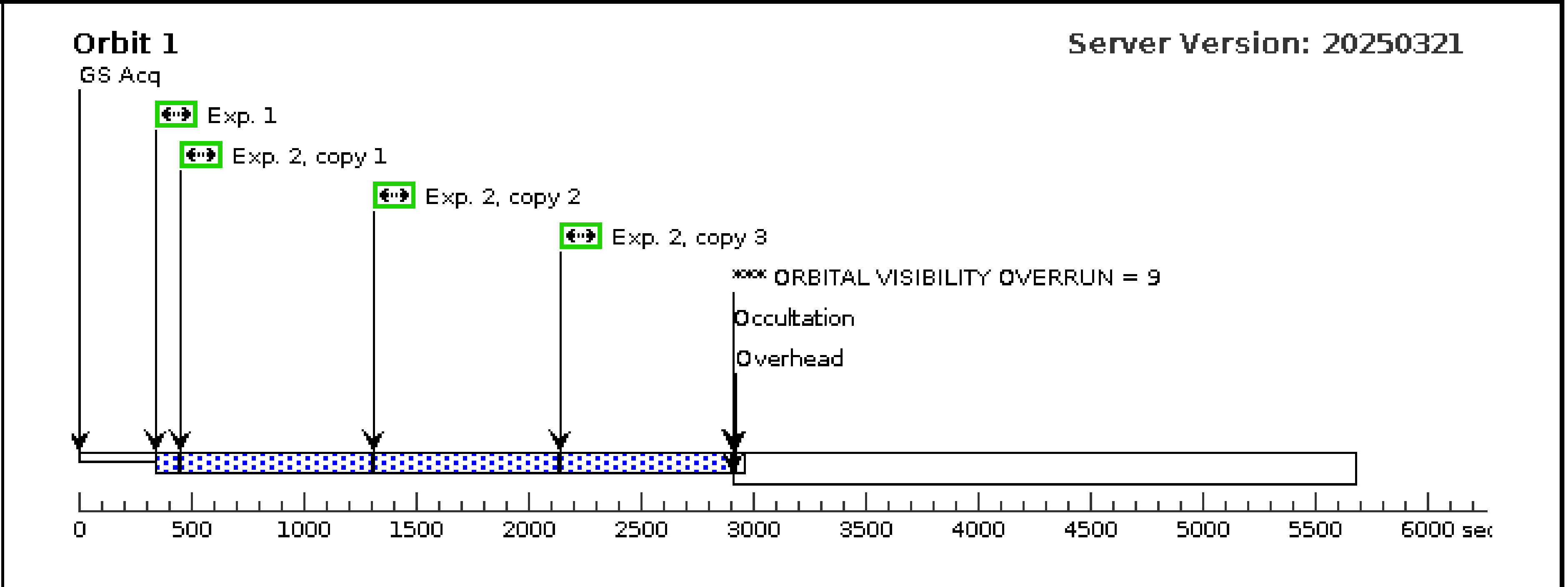
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HAT-P-12	RA: 13 57 33.2749 (209.3886454d) Dec: +43 29 35.92 (43.49331d) Equinox: J2000	Proper Motion RA: -0.0123868053612326 24 sec of time/yr Proper Motion Dec: -0.044293999917499605 arcsec/yr Epoch of Position: 2015.5	V=12.84	Reference Frame: SIMBAD

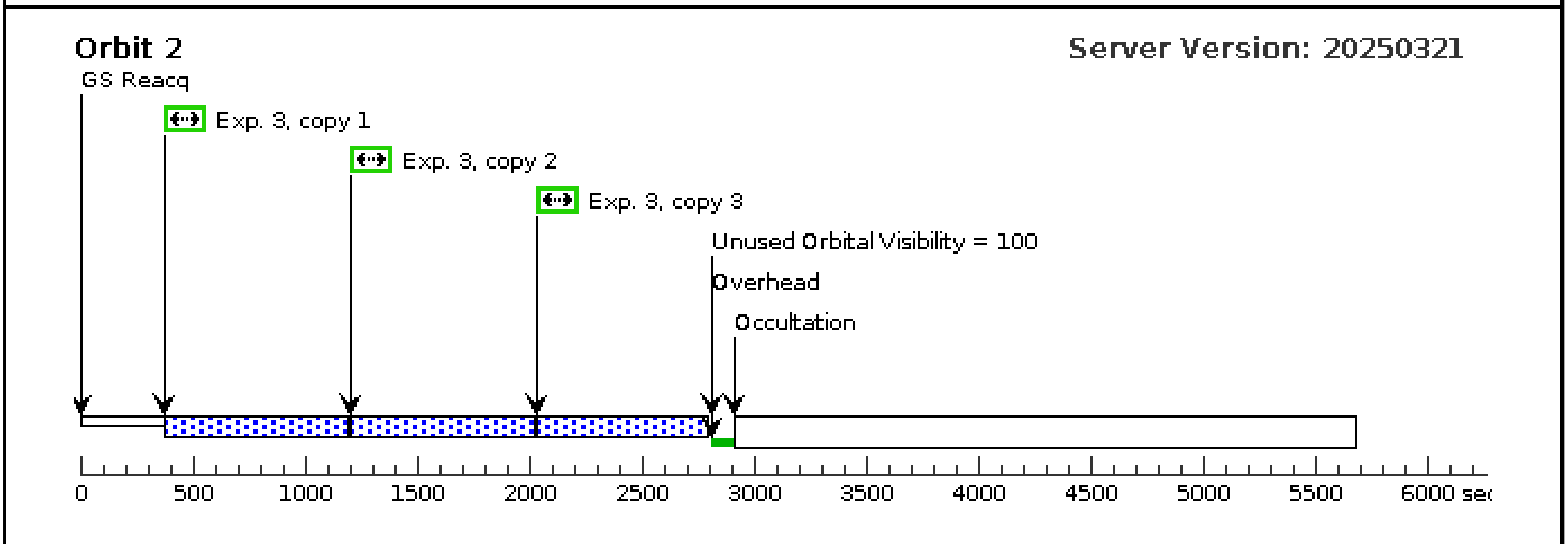
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET]
Extended=NO

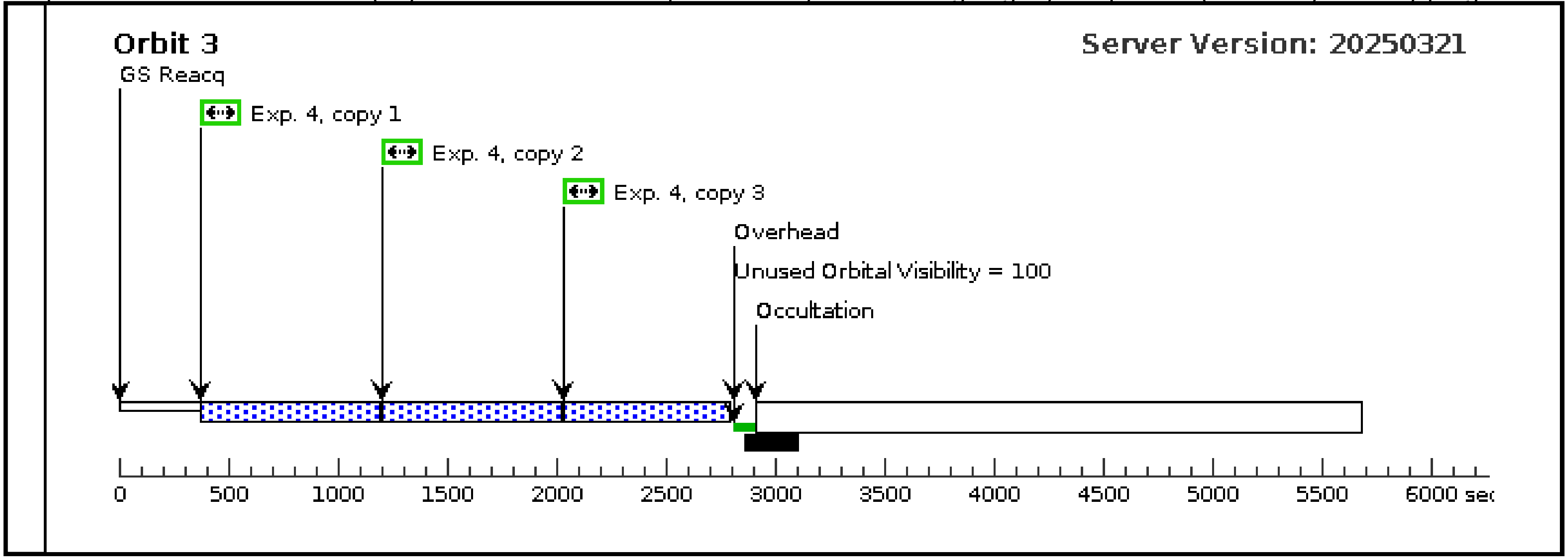
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) HAT-P-12	WFC3/UVIS, ACCUM, G280-REF	F200LP	FLASH=16; SIZEAXIS1=2100; SIZEAXIS2=580; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50; PHASE 0.971902864124166 TO 0.976225500412756	Sequence 1-2 Non-Int in HAT-P-12 T4 (04)	1 Secs (1 Secs) [==>]	[1]
2		(1) HAT-P-12	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=580; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 1-2 Non-Int in HAT-P-12 T4 (04)	763 Secs X 3 (2289 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[1]
3		(1) HAT-P-12	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=580; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 3-3 Non-Int in HAT-P-12 T4 (04)	763 Secs X 3 (2289 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[2]
4		(1) HAT-P-12	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=580; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 4-4 Non-Int in HAT-P-12 T4 (04)	763 Secs X 3 (2289 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)]	[3]

Orbit Structure






Orbit 3
Server Version: 20250321
GS Reacq
Exp. 4, copy 1
Exp. 4, copy 2
Exp. 4, copy 3
Overhead
Unused Orbital Visibility = 100
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 se

Visit

Proposal 17183, HAT-P-26 T1 (05), completed Mon Jun 30 20:01:52 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 53D TO 185 D; ORIENT 237D TO 1 D; Period 4.23450 D AND ZERO-PHASE HJD2455304.652180

Comments: SIZEAXIS set to maximize data volume.
Based on ETC calculations with Castelli-Kurucz Models K0V 5250 4.5 at V mag = 11.7
G280 time to saturation = 446.39s
Orient contraints used to limit spectral overlap from one nearby source.
Centaxis paramters set based on previous program measurements (16039, 15838, 15288).
HAT-P-26 T1, T2, and T3 are all conducted with the same set-up

Fixed Targets

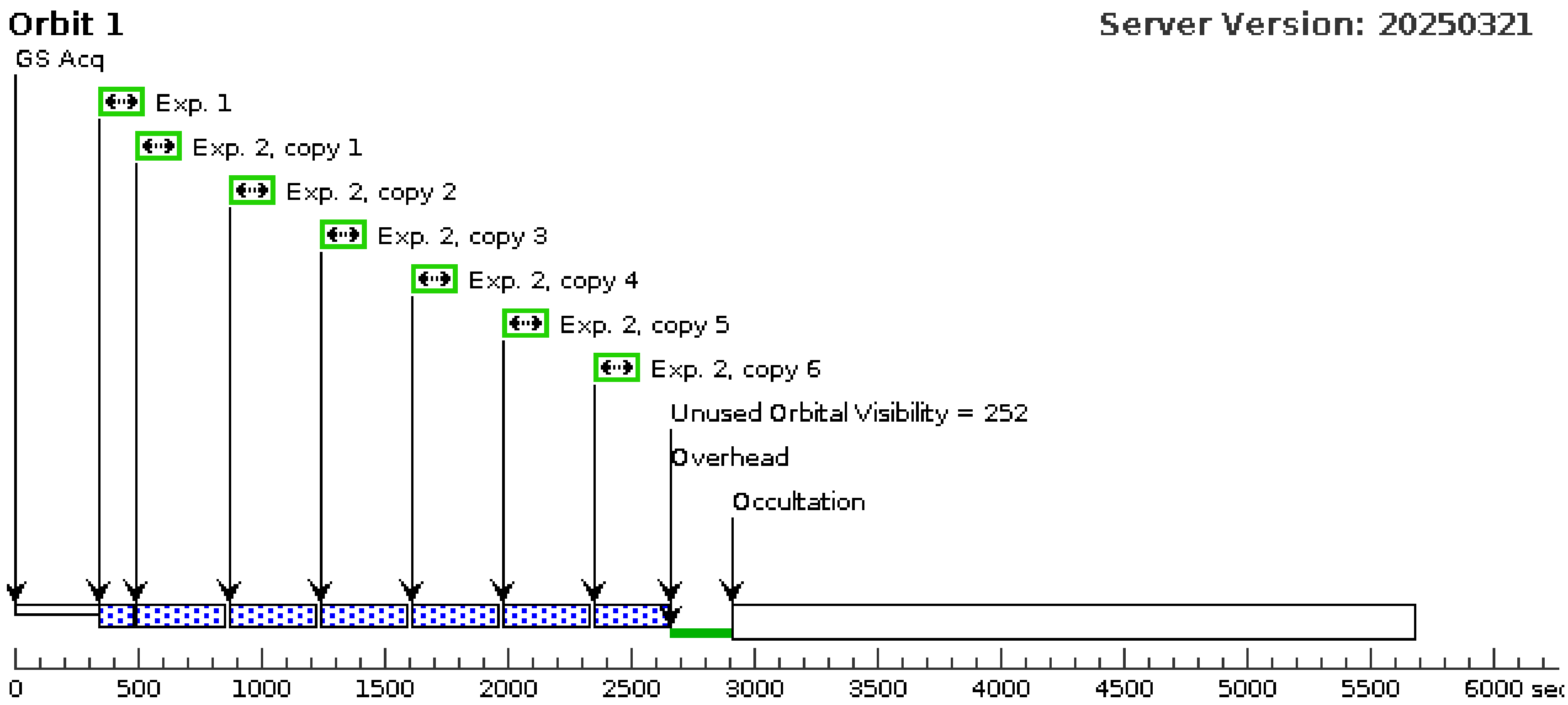
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	HAT-P-26	RA: 14 12 37.5722 (213.1565508d) Dec: +04 03 33.90 (4.05942d) Equinox: J2000	Proper Motion RA: 0.002528944681445702 sec of time/yr Proper Motion Dec: -0.14289099997313315 arcsec/yr Epoch of Position: 2015.5	V=11.76	Reference Frame: SIMBAD

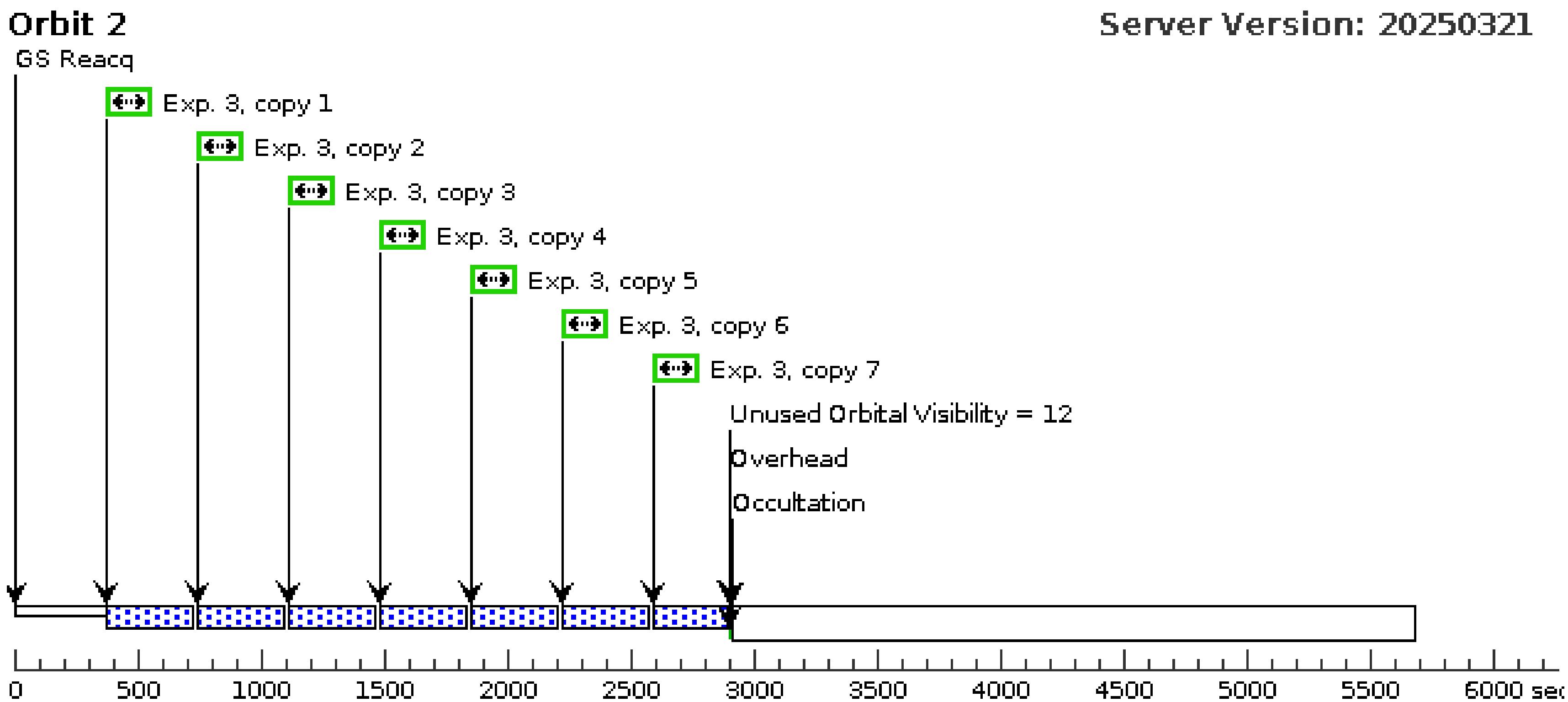
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET]
Extended=NO

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(2) HAT-P-26	WFC3/UVIS, ACCUM, G280-REF	F300X	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=16	POS TARG null,-50; PHASE 0.970808707690337 TO 0.974088628174569	Sequence 1-2 Non-Int in HAT-P-26 T1 (05)	40 Secs (40 Secs) *[==>]*	*[1]*
2		(2) HAT-P-26	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 1-2 Non-Int in HAT-P-26 T1 (05)	299 Secs X 6 (1794 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]*	*[1]*
3		(2) HAT-P-26	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 3-3 Non-Int in HAT-P-26 T1 (05)	299 Secs X 7 (2093 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]*	*[2]*
4		(2) HAT-P-26	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 4-4 Non-Int in HAT-P-26 T1 (05)	299 Secs X 7 (2093 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]*	*[3]*
5		(2) HAT-P-26	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 5-5 Non-Int in HAT-P-26 T1 (05)	299 Secs X 7 (2093 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]*	*[4]*

Orbit Structure

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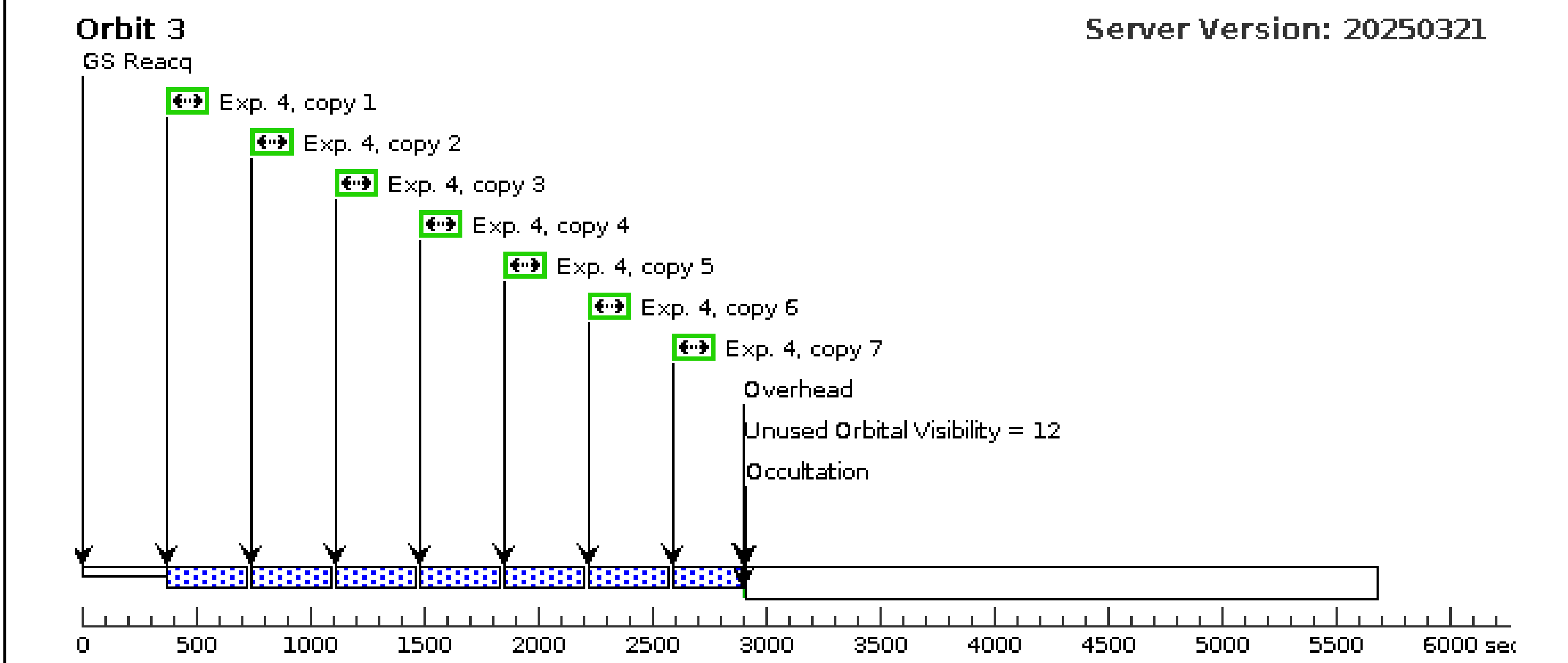
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Exp. 4, copy 7
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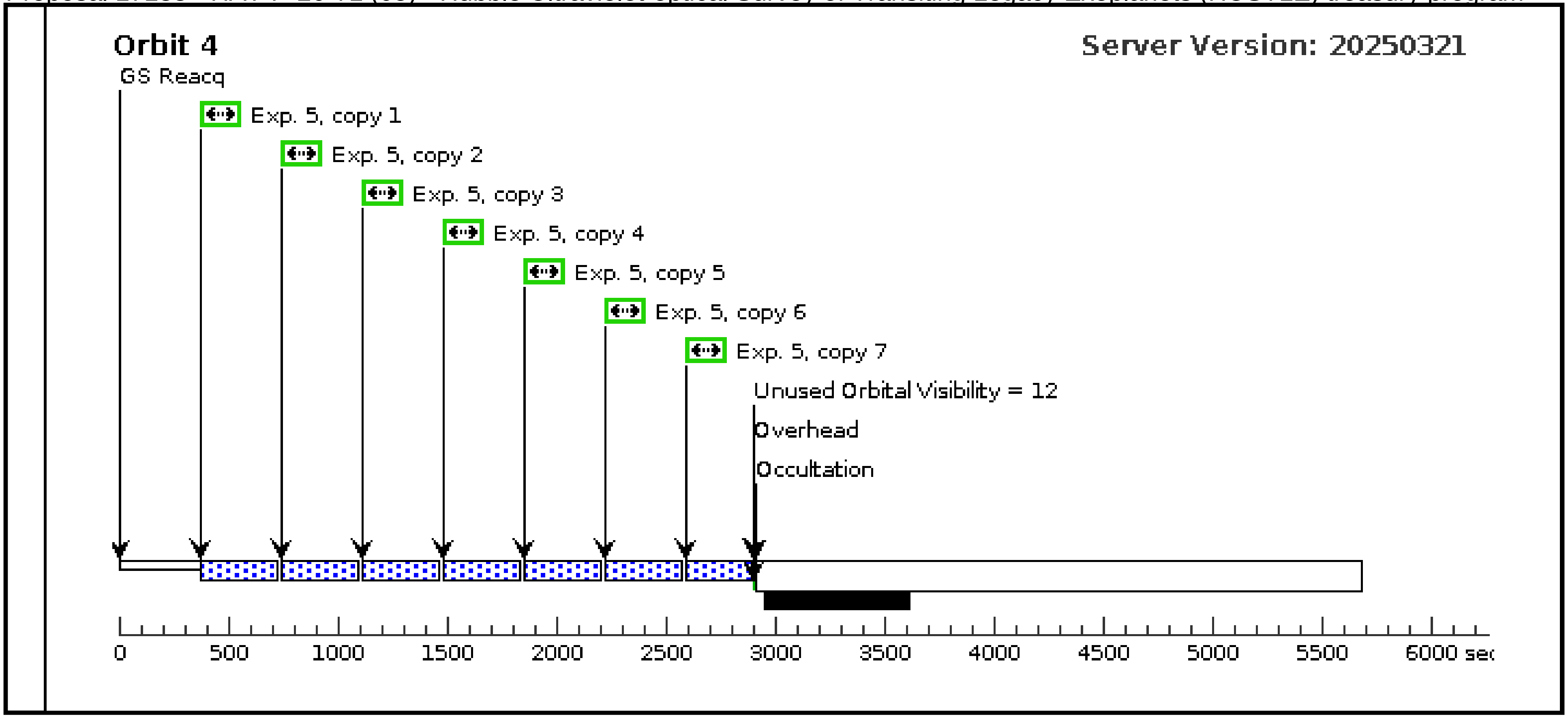
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Exp. 5, copy 7
Unused Orbital Visibility = 12
Overhead
Occultation
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1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17183, HAT-P-26 T2 (06), completed Mon Jun 30 20:01:52 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 53D TO 185 D; ORIENT 237D TO 1 D; Period 4.23450 D AND ZERO-PHASE HJD2455304.652180

Comments: SIZEAXIS set to maximize data volume.
Based on ETC calculations with Castelli-Kurucz Models K0V 5250 4.5 at V mag = 11.7
G280 time to saturation = 446.39s
Orient contraints used to limit spectral overlap from one nearby source.
Centaxis paramters set based on previous program measurements (16039, 15838, 15288).
HAT-P-26 T1, T2, and T3 are all conducted with the same set-up

Fixed Targets

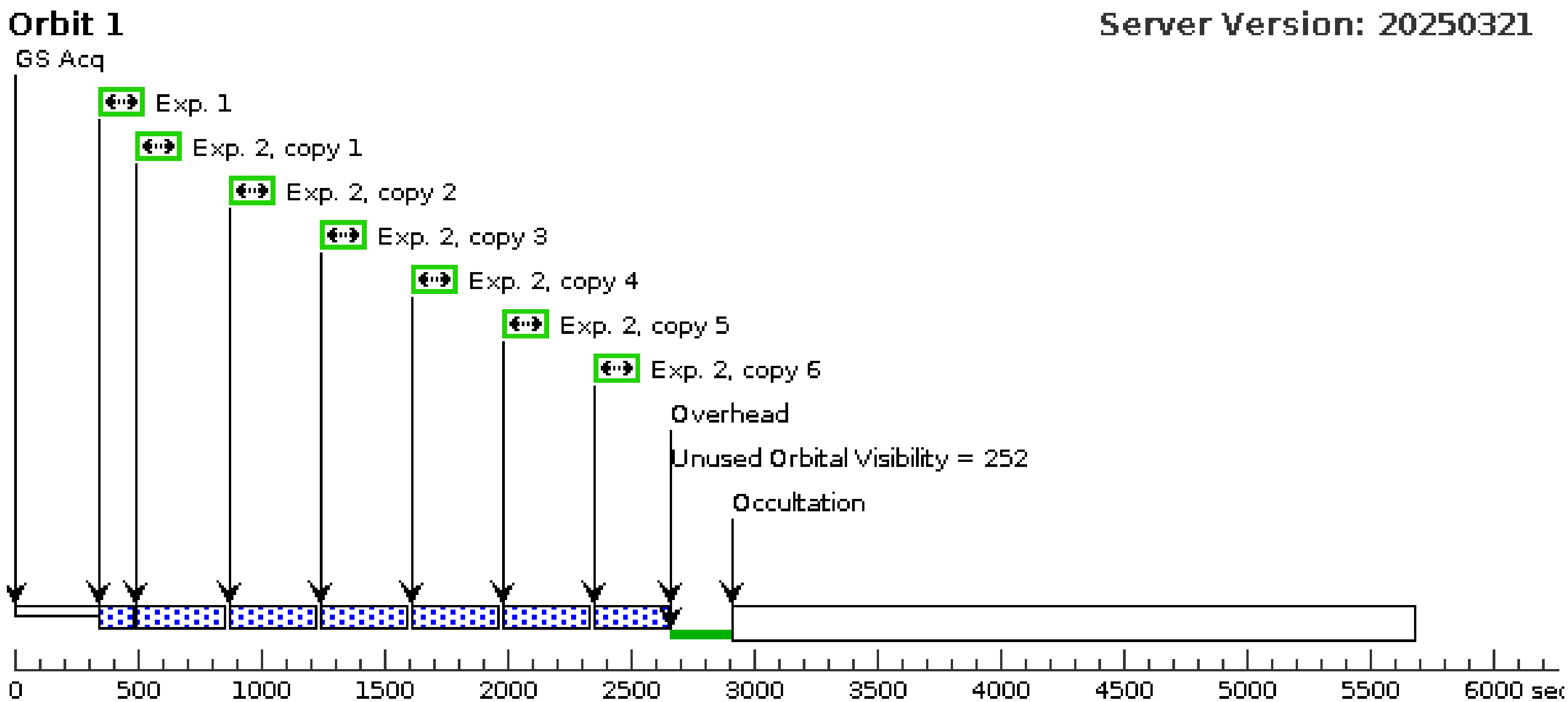
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	HAT-P-26	RA: 14 12 37.5722 (213.1565508d) Dec: +04 03 33.90 (4.05942d) Equinox: J2000	Proper Motion RA: 0.002528944681445702 sec of time/yr Proper Motion Dec: -0.14289099997313315 arcsec/yr Epoch of Position: 2015.5	V=11.76	Reference Frame: SIMBAD

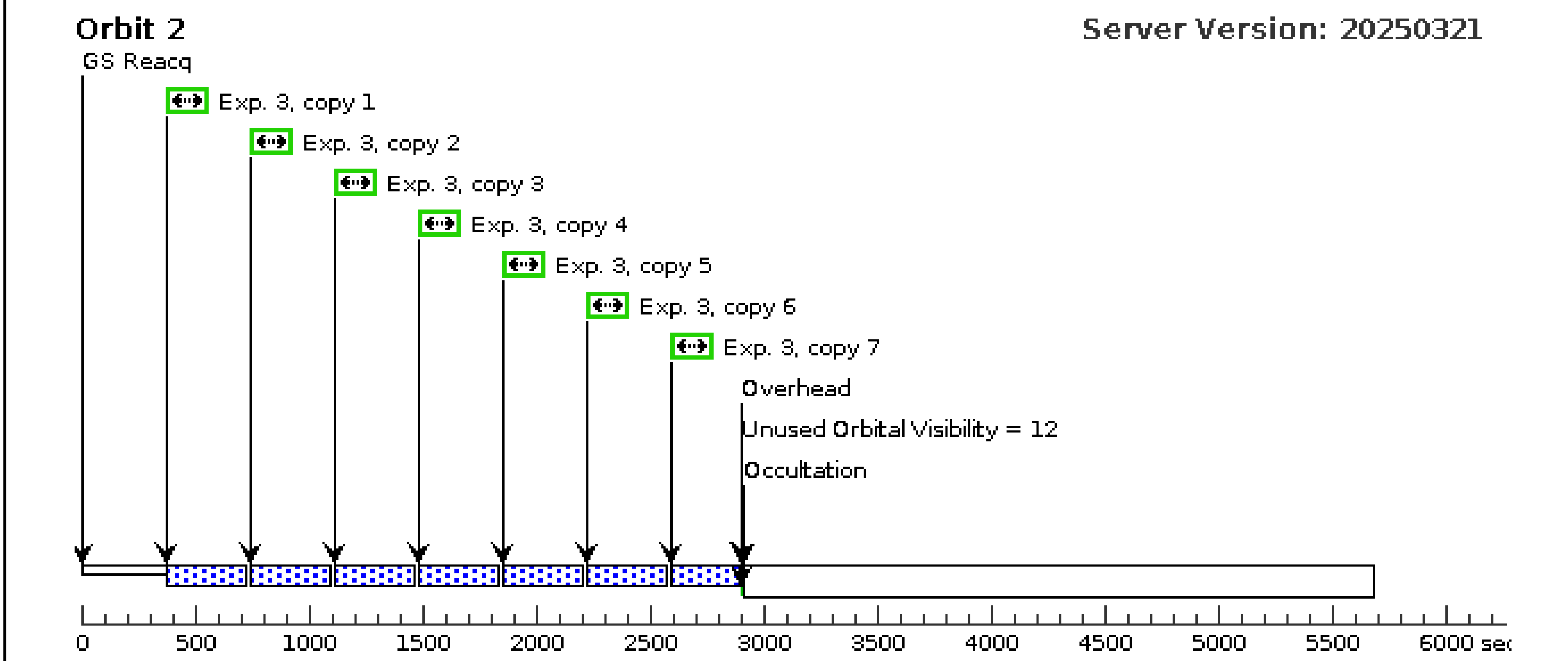
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET]
Extended=NO

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(2) HAT-P-26	WFC3/UVIS, ACCUM, G280-REF	F300X	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=16	POS TARG null,-50; PHASE 0.970808707690337 TO 0.974088628174569	Sequence 1-2 Non-Int in HAT-P-26 T2 (06)	40 Secs (40 Secs) *[==>]*	*[1]*
2		(2) HAT-P-26	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 1-2 Non-Int in HAT-P-26 T2 (06)	299 Secs X 6 (1794 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]*	*[1]*
3		(2) HAT-P-26	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 3-3 Non-Int in HAT-P-26 T2 (06)	299 Secs X 7 (2093 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]*	*[2]*
4		(2) HAT-P-26	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 4-4 Non-Int in HAT-P-26 T2 (06)	299 Secs X 7 (2093 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]*	*[3]*
5		(2) HAT-P-26	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 5-5 Non-Int in HAT-P-26 T2 (06)	299 Secs X 7 (2093 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]*	*[4]*

Orbit Structure

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Exp. 3, copy 7
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Occultation
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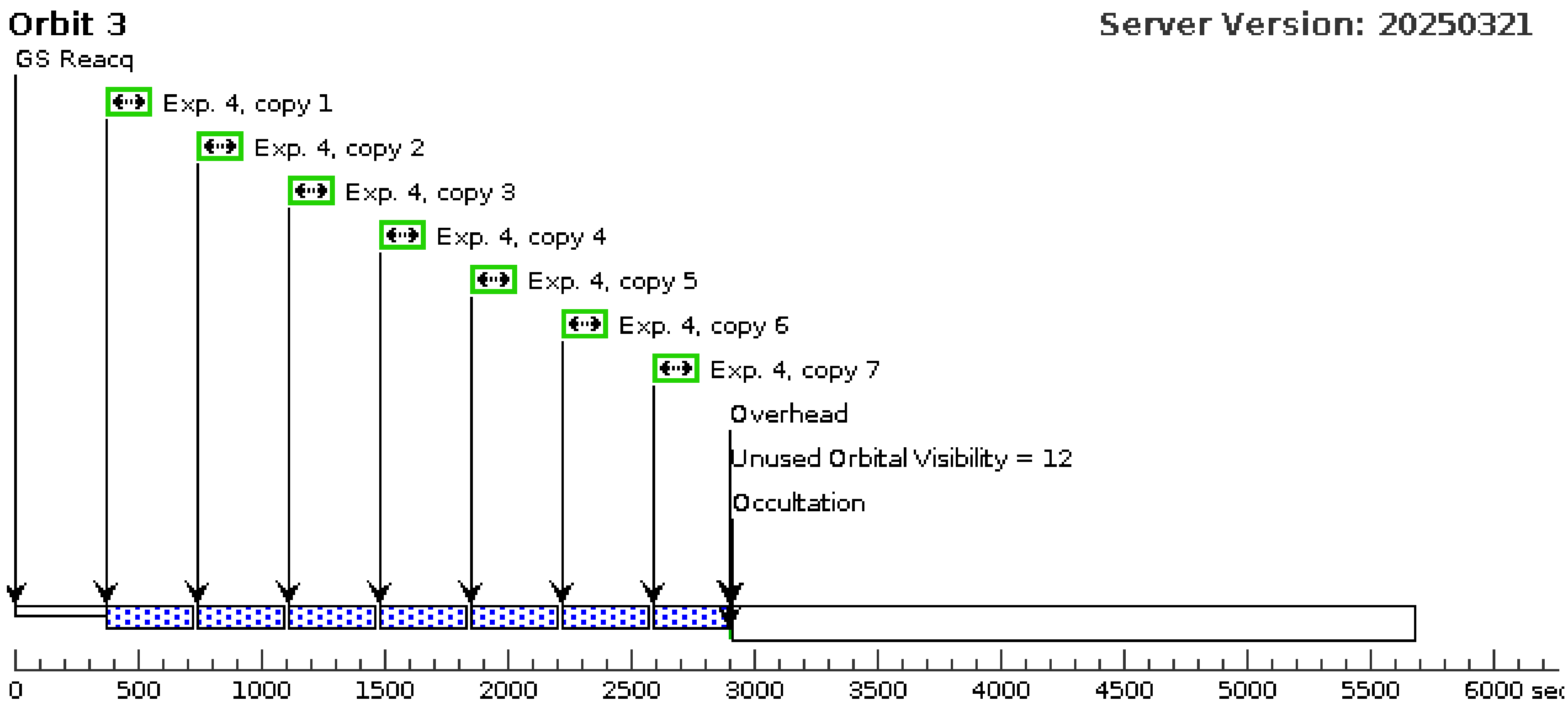
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Exp. 4, copy 6
Exp. 4, copy 7
Overhead
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Occultation
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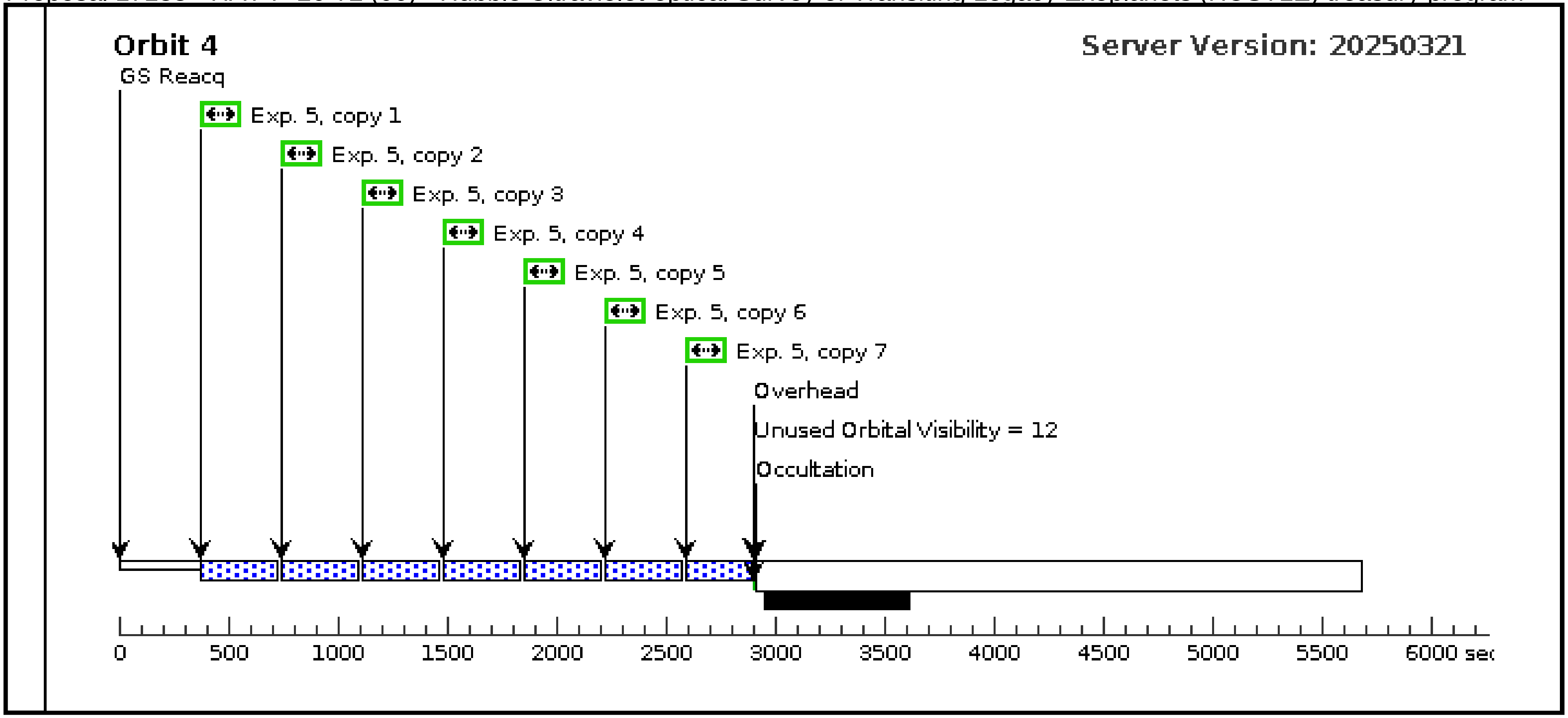
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Exp. 5, copy 6
Exp. 5, copy 7
Overhead
Unused Orbital Visibility = 12
Occultation
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3500
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4500
5000
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6000 sec

Visit

Proposal 17183, HAT-P-26 T3 (07), failed — Mon Jun 30 20:01:52 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 53D TO 185 D; ORIENT 237D TO 1 D; Period 4.23450 D AND ZERO-PHASE HJD2455304.652180

Comments: SIZEAXIS set to maximize data volume.
Based on ETC calculations with Castelli-Kurucz Models K0V 5250 4.5 at V mag = 11.7
G280 time to saturation = 446.39s
Orient contraints used to limit spectral overlap from one nearby source.
Centaxis paramters set based on previous program measurements (16039, 15838, 15288).
HAT-P-26 T1, T2, and T3 are all conducted with the same set-up

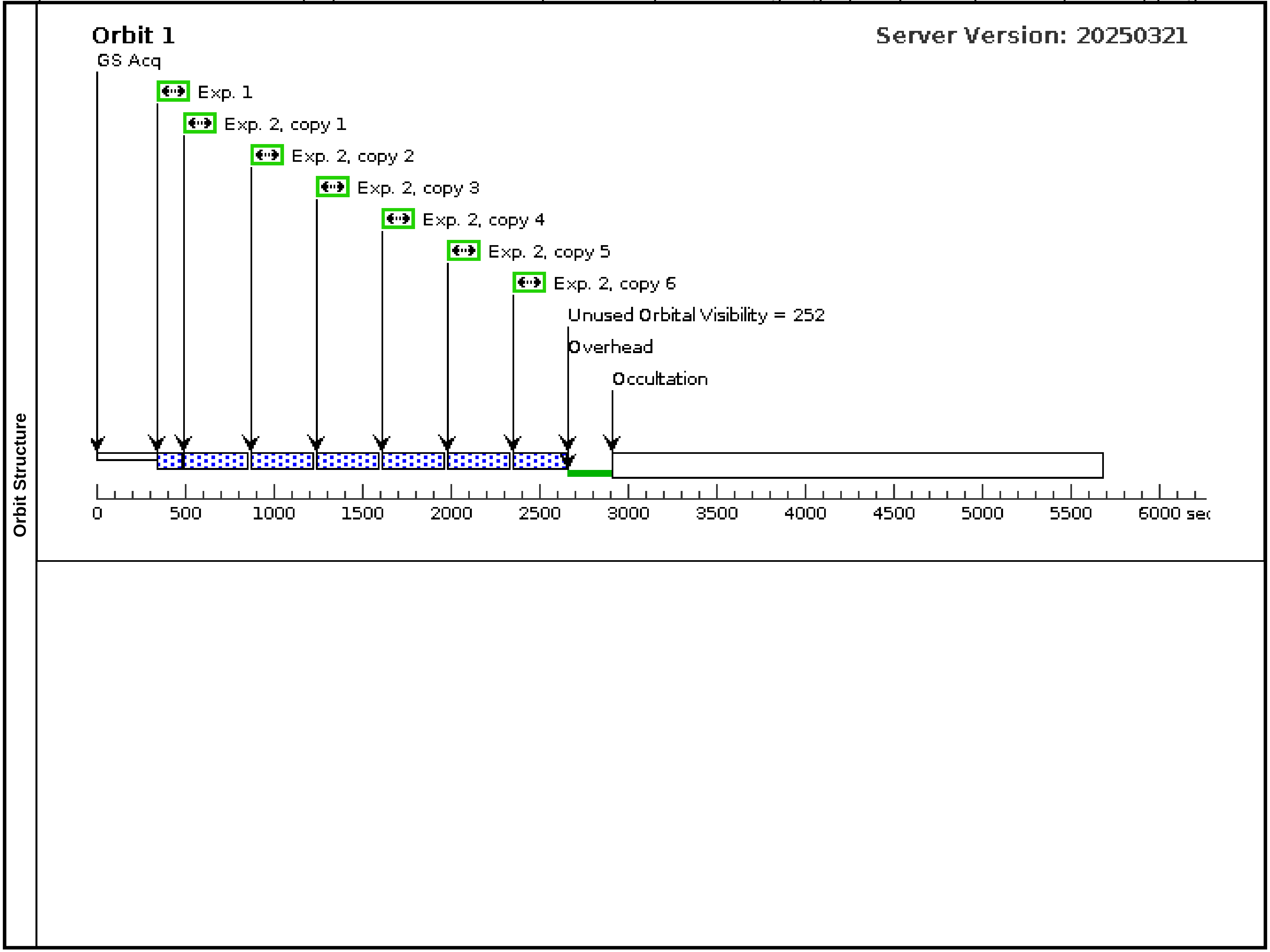
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	HAT-P-26	RA: 14 12 37.5722 (213.1565508d) Dec: +04 03 33.90 (4.05942d) Equinox: J2000	Proper Motion RA: 0.002528944681445702 sec of time/yr Proper Motion Dec: -0.14289099997313315 arcsec/yr Epoch of Position: 2015.5	V=11.76	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET]
Extended=NO

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(2) HAT-P-26	WFC3/UVIS, ACCUM, G280-REF	F300X	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=16	POS TARG null,-50; PHASE 0.970808707690337 TO 0.974088628174569	Sequence 1-2 Non-Int in HAT-P-26 T3 (07)	40 Secs (40 Secs) *[==>]*	*[1]*
2		(2) HAT-P-26	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 1-2 Non-Int in HAT-P-26 T3 (07)	299 Secs X 6 (1794 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]*	*[1]*
3		(2) HAT-P-26	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 3-3 Non-Int in HAT-P-26 T3 (07)	299 Secs X 7 (2093 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]*	*[2]*
4		(2) HAT-P-26	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 4-4 Non-Int in HAT-P-26 T3 (07)	299 Secs X 7 (2093 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]*	*[3]*
5		(2) HAT-P-26	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 5-5 Non-Int in HAT-P-26 T3 (07)	299 Secs X 7 (2093 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]*	*[4]*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Exp. 2, copy 2
Exp. 2, copy 3
Exp. 2, copy 4
Exp. 2, copy 5
Exp. 2, copy 6
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Occultation
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1500
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3500
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4500
5000
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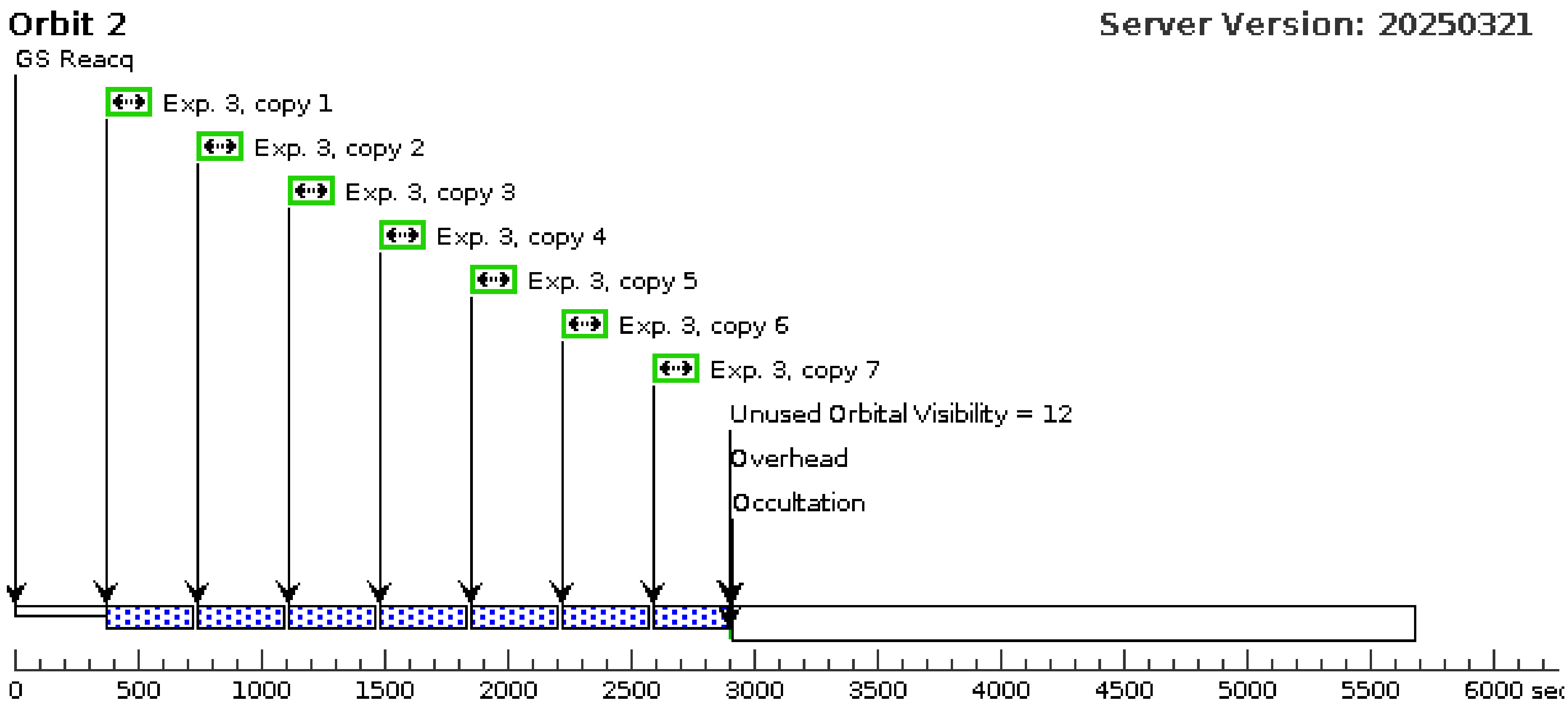
6000 sec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Exp. 3, copy 7
Unused Orbital Visibility = 12
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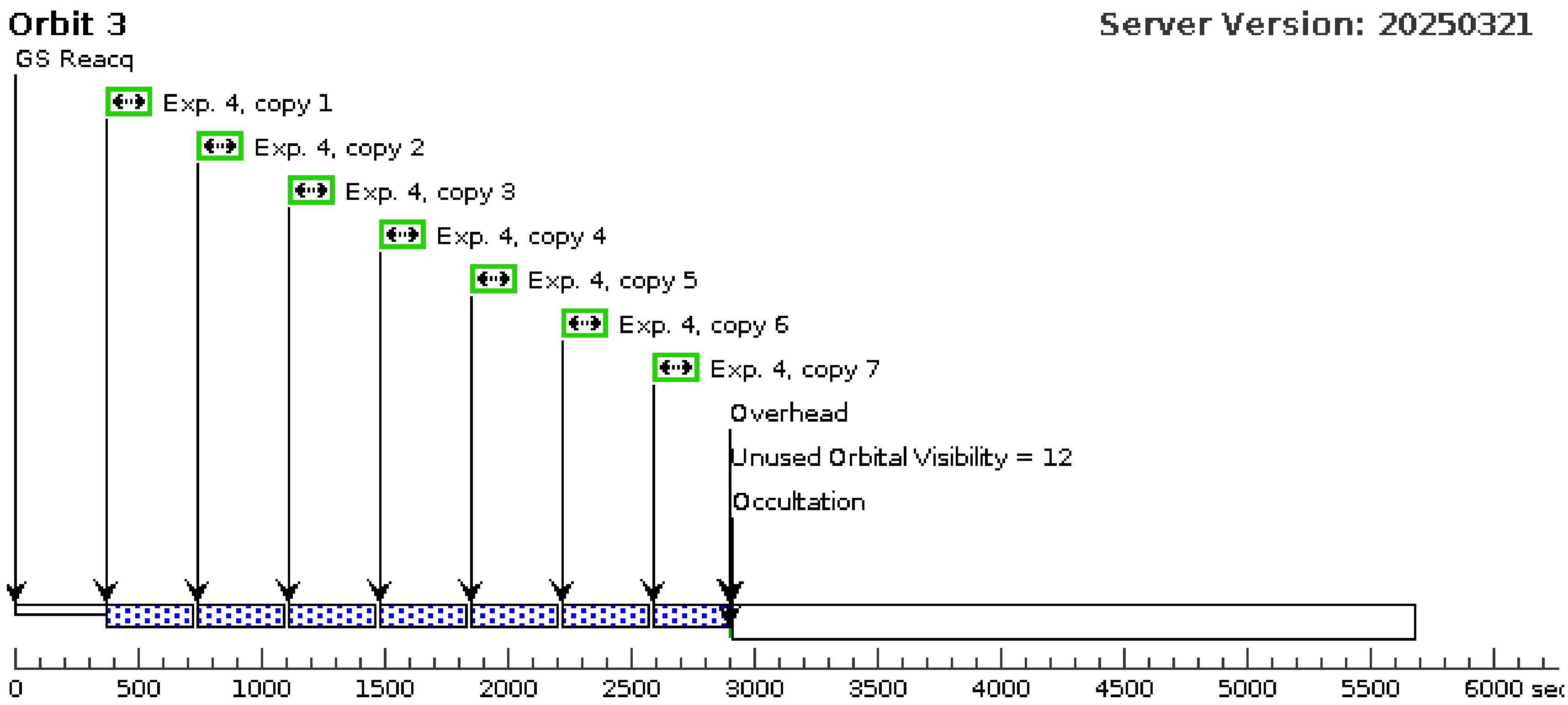
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Exp. 4, copy 7
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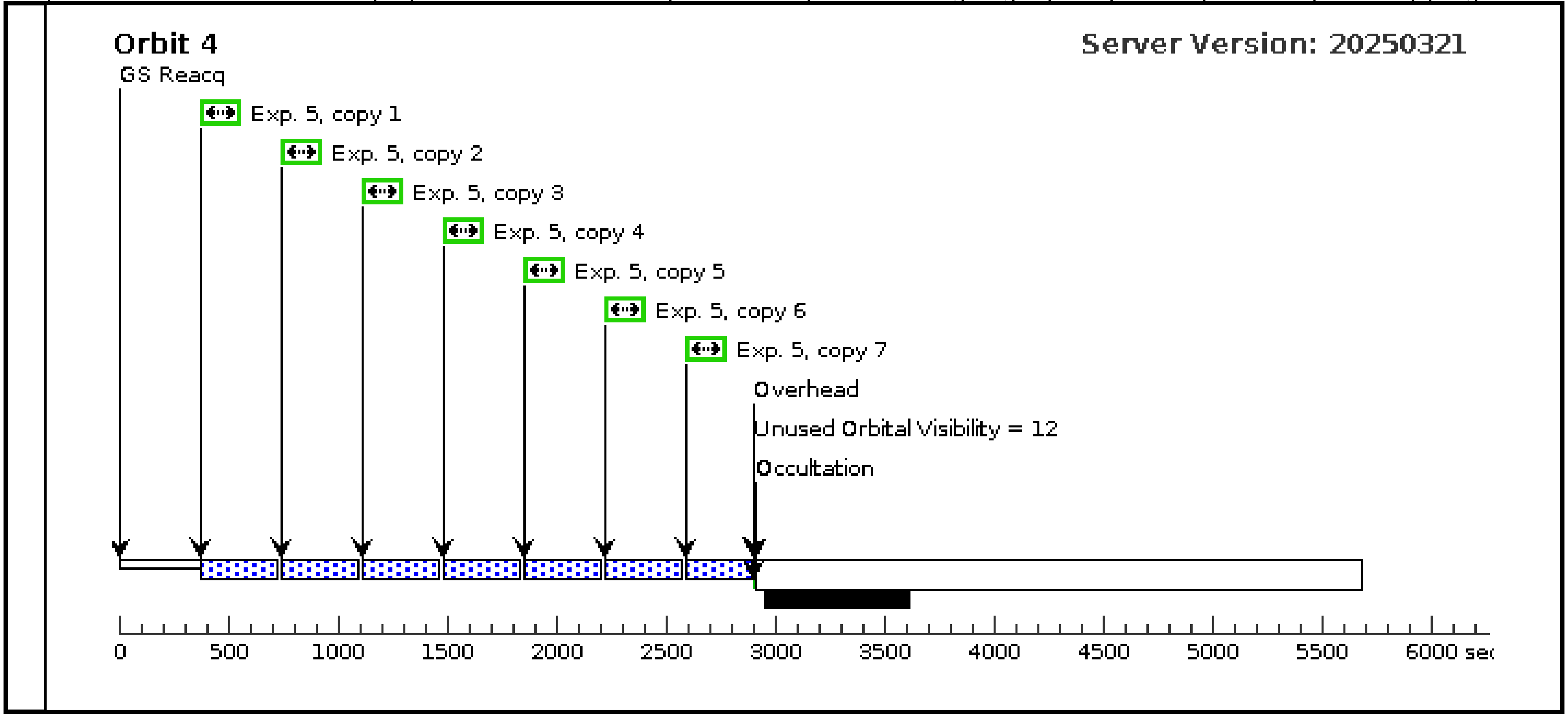
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Exp. 5, copy 6
Exp. 5, copy 7
Overhead
Unused Orbital Visibility = 12
Occultation
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3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17183, HAT-P-26 T3 repeat HOPR 92540 (27), completed Mon Jun 30 20:01:52 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 53D TO 185 D; ORIENT 237D TO 1 D; Period 4.23450 D AND ZERO-PHASE HJD2455304.652180

Comments: SIZEAXIS set to maximize data volume.
Based on ETC calculations with Castelli-Kurucz Models K0V 5250 4.5 at V mag = 11.7
G280 time to saturation = 446.39s
Orient contraints used to limit spectral overlap from one nearby source.
Centaxis paramters set based on previous program measurements (16039, 15838, 15288).
HAT-P-26 T1, T2, and T3 are all conducted with the same set-up

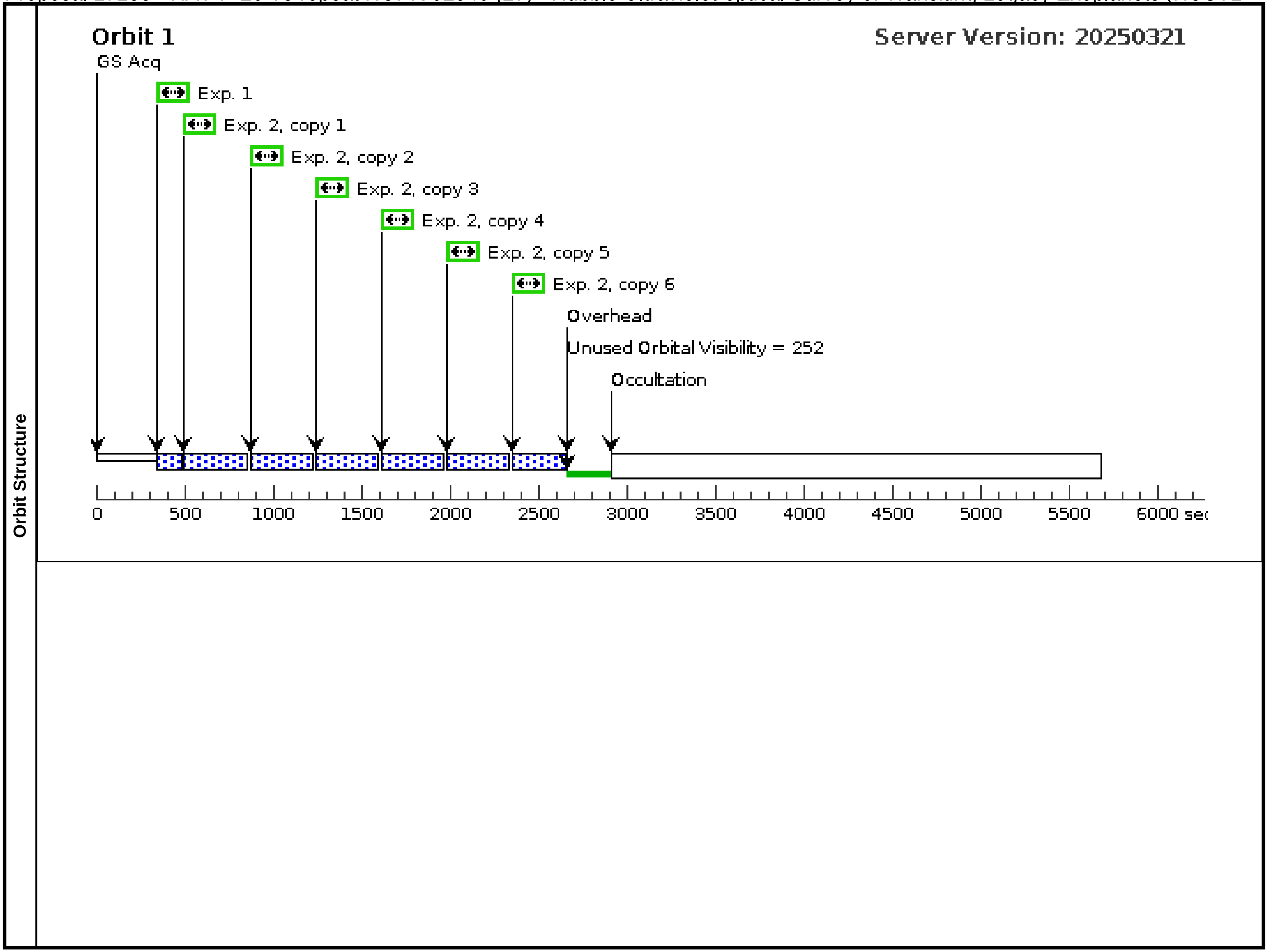
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	HAT-P-26	RA: 14 12 37.5722 (213.1565508d) Dec: +04 03 33.90 (4.05942d) Equinox: J2000	Proper Motion RA: 0.002528944681445702 sec of time/yr Proper Motion Dec: -0.14289099997313315 arcsec/yr Epoch of Position: 2015.5	V=11.76	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET]
Extended=NO

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(2) HAT-P-26	WFC3/UVIS, ACCUM, G280-REF	F300X	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=16	POS TARG null,-50; PHASE 0.970808707690337 TO 0.974088628174569	Sequence 1-2 Non-Int in HAT-P-26 T3 repeat HOPR 92540 (27)	40 Secs (40 Secs) *[==>]*	*[1]*
2		(2) HAT-P-26	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 1-2 Non-Int in HAT-P-26 T3 repeat HOPR 92540 (27)	299 Secs X 6 (1794 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]*	*[1]*
3		(2) HAT-P-26	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 3-3 Non-Int in HAT-P-26 T3 repeat HOPR 92540 (27)	299 Secs X 7 (2093 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]*	*[2]*
4		(2) HAT-P-26	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 4-4 Non-Int in HAT-P-26 T3 repeat HOPR 92540 (27)	299 Secs X 7 (2093 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]*	*[3]*
5		(2) HAT-P-26	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 5-5 Non-Int in HAT-P-26 T3 repeat HOPR 92540 (27)	299 Secs X 7 (2093 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]*	*[4]*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Exp. 2, copy 6
Overhead
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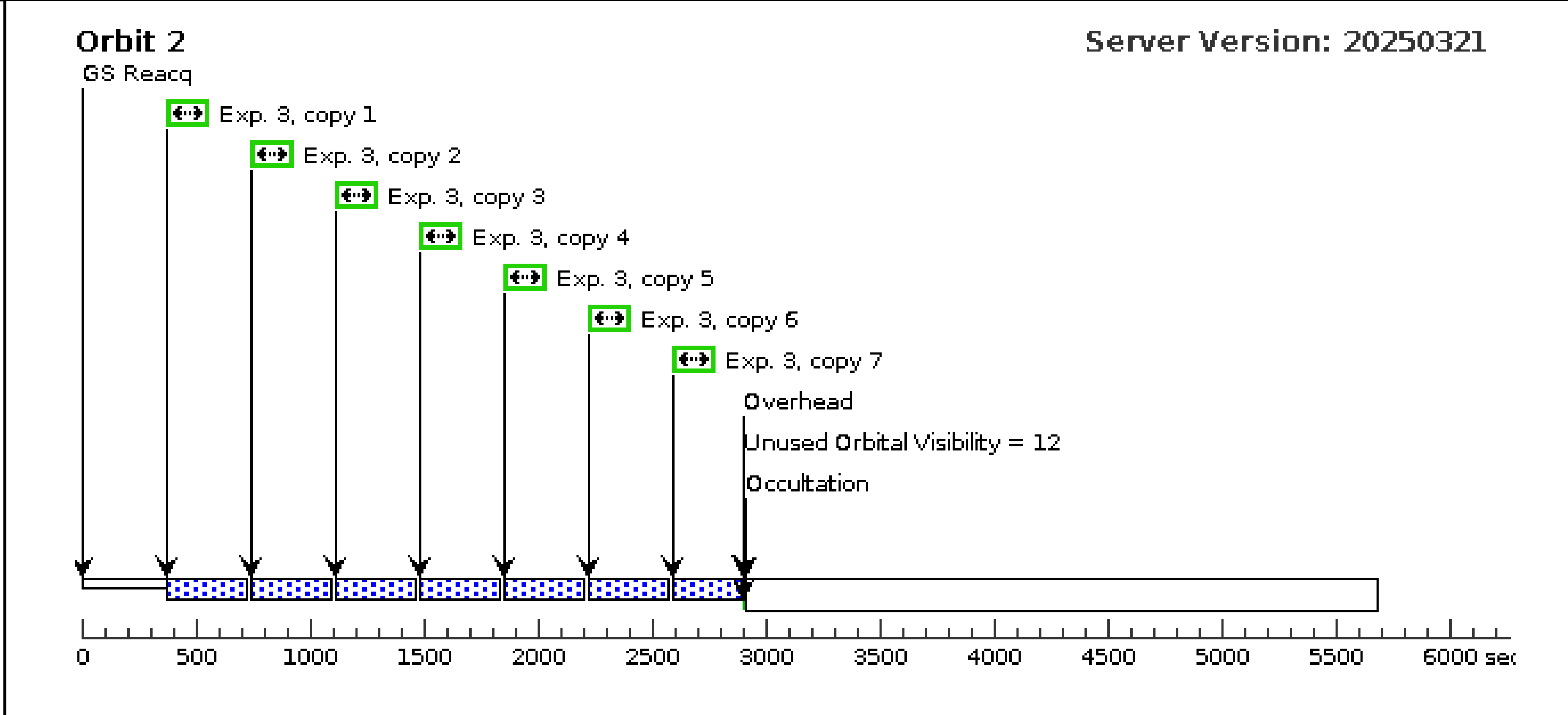
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Server Version: 20250321
GS Reacq
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Exp. 3, copy 6
Exp. 3, copy 7
Overhead
Unused Orbital Visibility = 12
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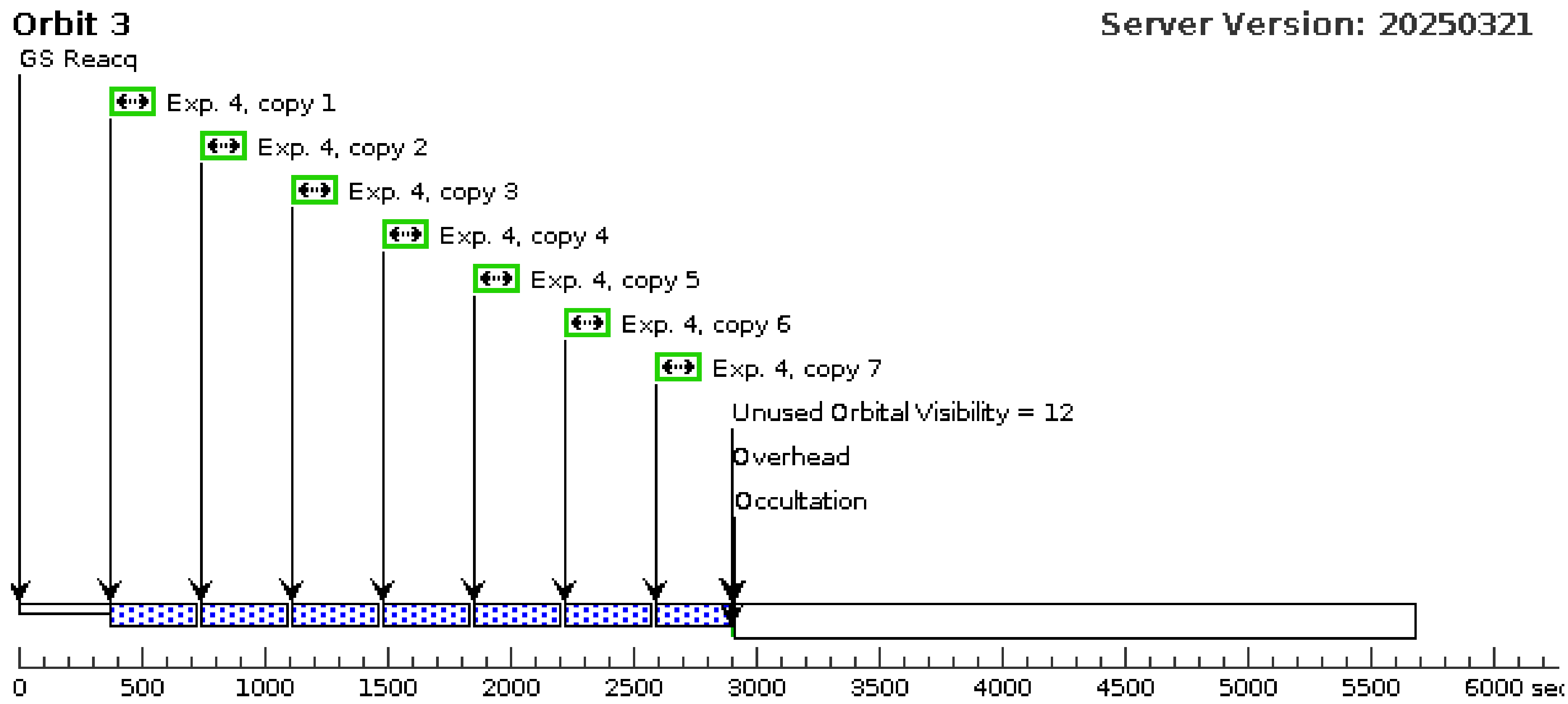
6000 sec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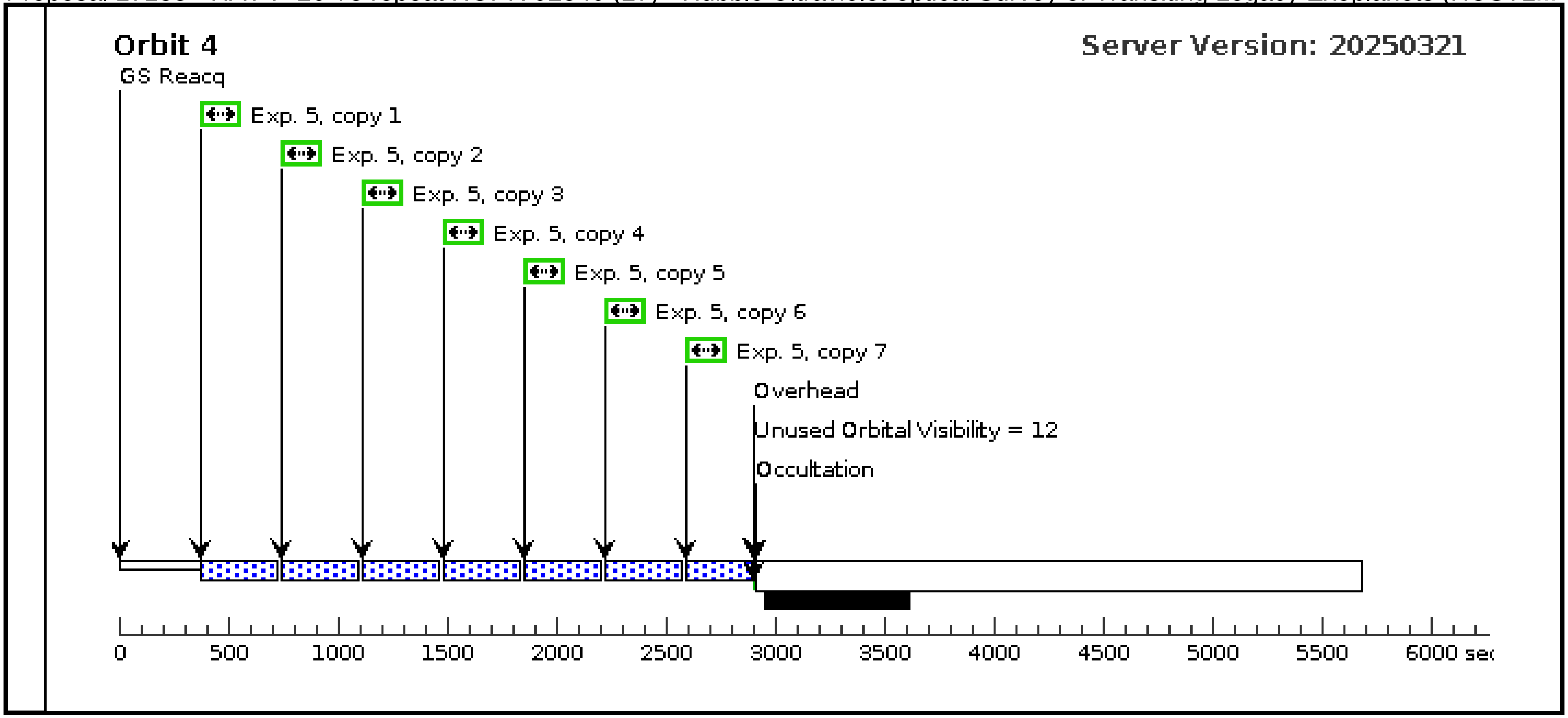

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Exp. 5, copy 4
Exp. 5, copy 5
Exp. 5, copy 6
Exp. 5, copy 7
Overhead
Unused Orbital Visibility = 12
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17183, WASP-166 T1 (08), failed Mon Jun 30 20:01:52 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 323D TO 27 D; ORIENT 246D TO 276 D; ORIENT 66D TO 94 D; ORIENT 142D TO 208 D; Period 5.44353 D AND ZERO-PHASE HJD2458518.964720

Comments: SIZEAXIS set to maximize data volume.
Based on ETC calculations with Castelli-Kurucz Models G0V 6000 4.5 at V mag = 9.36
G280 time to saturation = 45.77s
Orient contraints used to limit spectral overlap from three nearby sources
Centaxis paramters set based on previous program measurements (16039, 15838, 15288).
WASP-166 T1 and T2 are conducted with the same set-up

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	WASP-166	RA: 09 39 30.0861 (144.8753588d) Dec: -20 58 56.88 (-20.98247d) Equinox: J2000	Proper Motion RA: -0.003934280796720865 sec of time/yr Proper Motion Dec: 0.011151999999999999 arcsec/yr Epoch of Position: 2015.5	V=9.35	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANETARY SYSTEM]
Extended=NO

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(3) WASP-166	WFC3/UVIS, ACCUM, G280-REF	F300X	FLASH=16; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50; PHASE 0.97116867 TO 0.973720124118578	Sequence 1-2 Non-Int in WASP-166 T1 (08)	2 Secs (2 Secs) *[==>]*	*[1]*
2		(3) WASP-166	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=14	POS TARG null,-50	Sequence 1-2 Non-Int in WASP-166 T1 (08)	36 Secs X 22 (792 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)]*	*[1]*

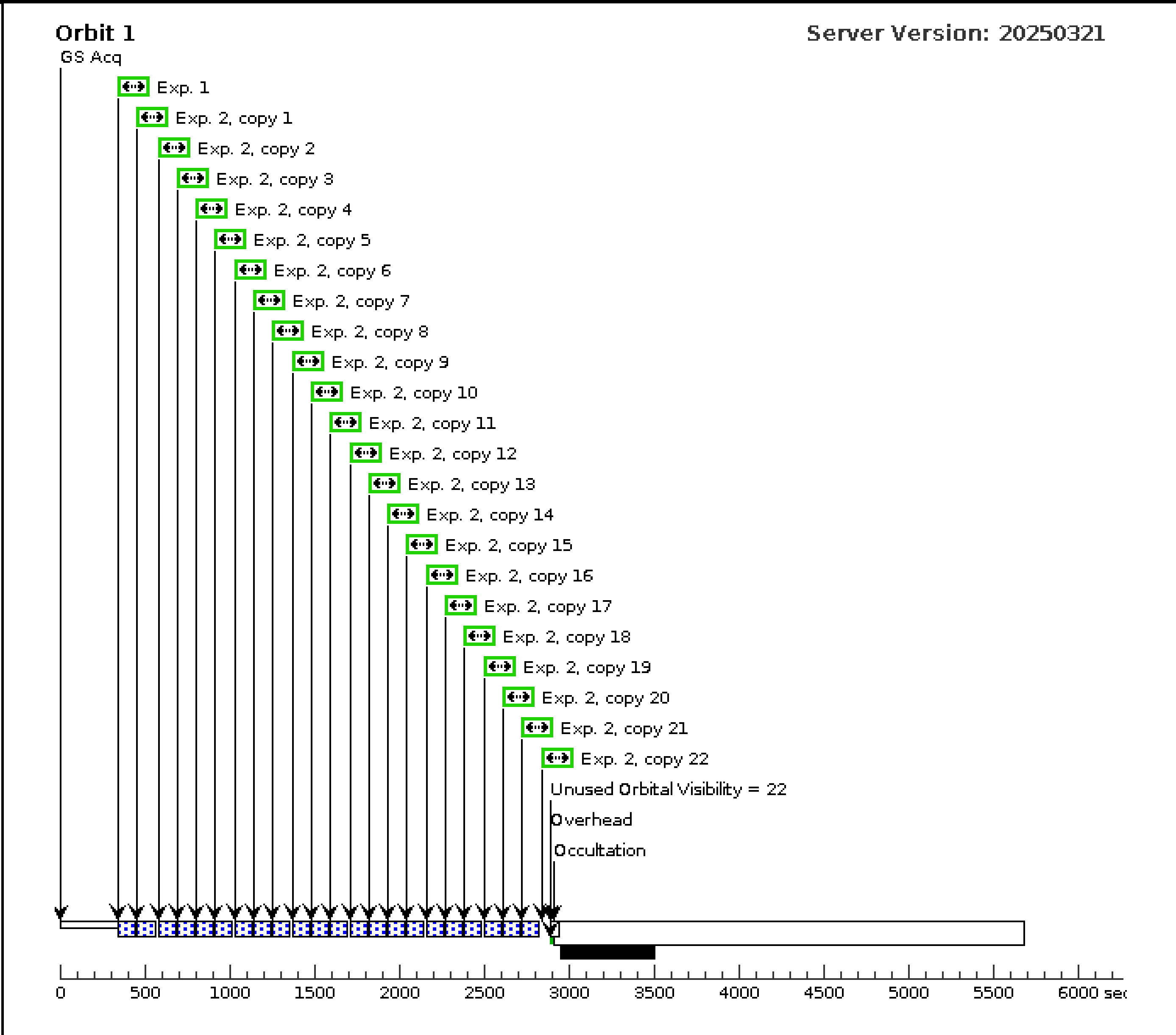
	3	(3) WASP-166	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=14	POS TARG null,-50	Sequence 3-3 Non-Int in WASP-166 T1 (08)	36 Secs X 23 (828 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 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)]*	***[2]***

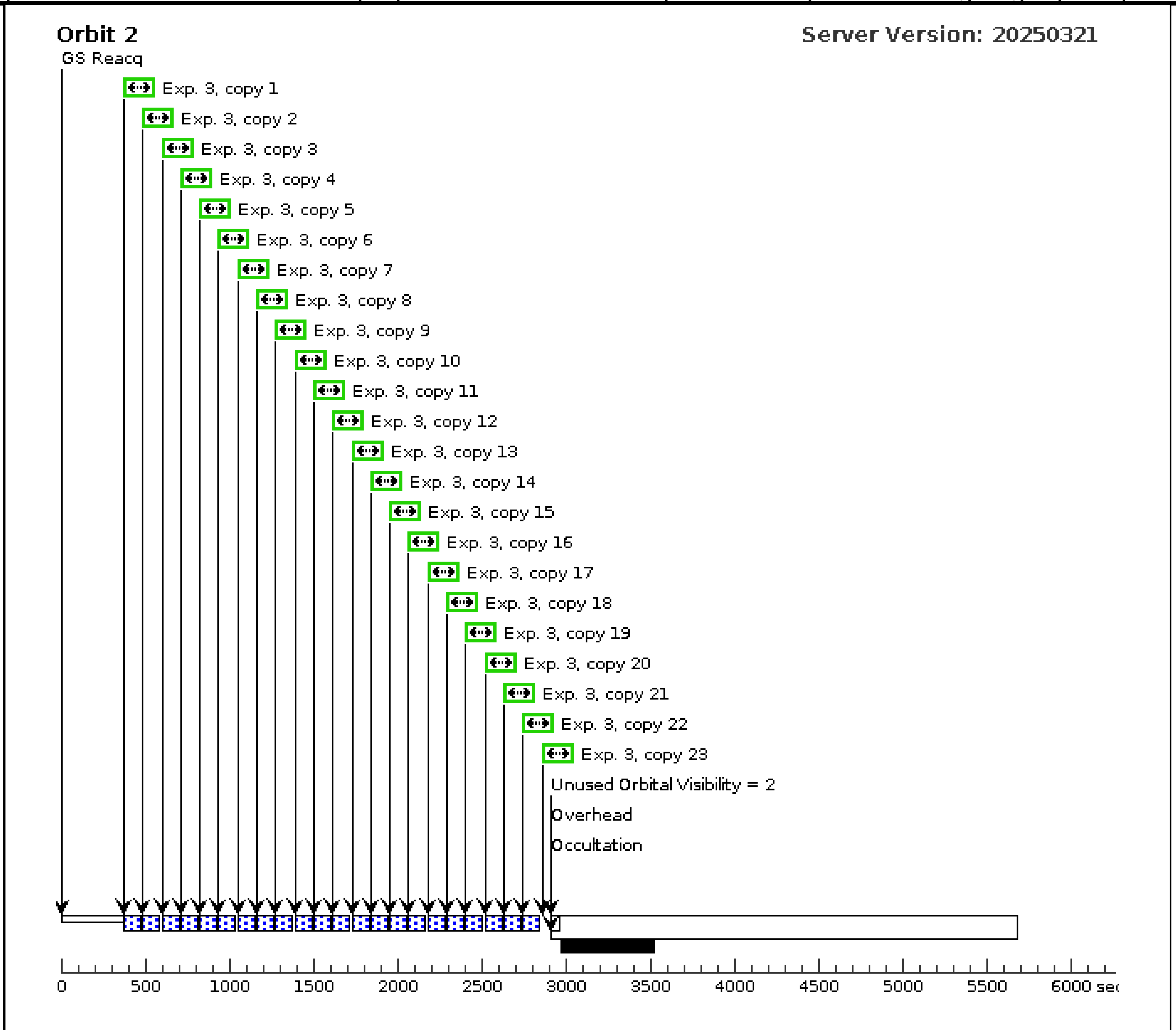
	4	(3) WASP-166	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=14	POS TARG null,-50	Sequence 4-4 Non-Int in WASP-166 T1 (08)	36 Secs X 23 (828 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 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)]*	***[3]***

	5	(3) WASP-166	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=14	POS TARG null,-50	Sequence 5-5 Non-Int in WASP-166 T1 (08)	36 Secs X 23 (828 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)]*	***[4]***

	6	(3) WASP-166	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=14	POS TARG null,-50	Sequence 6-6 Non-Int in WASP-166 T1 (08)	36 Secs X 23 (828 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)]*	***[5]***

Orbit Structure

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GS Reacq
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Exp. 3, copy 15
Exp. 3, copy 16
Exp. 3, copy 17
Exp. 3, copy 18
Exp. 3, copy 19
Exp. 3, copy 20
Exp. 3, copy 21
Exp. 3, copy 22
Exp. 3, copy 23
Unused Orbital Visibility = 2
Overhead
Occultation
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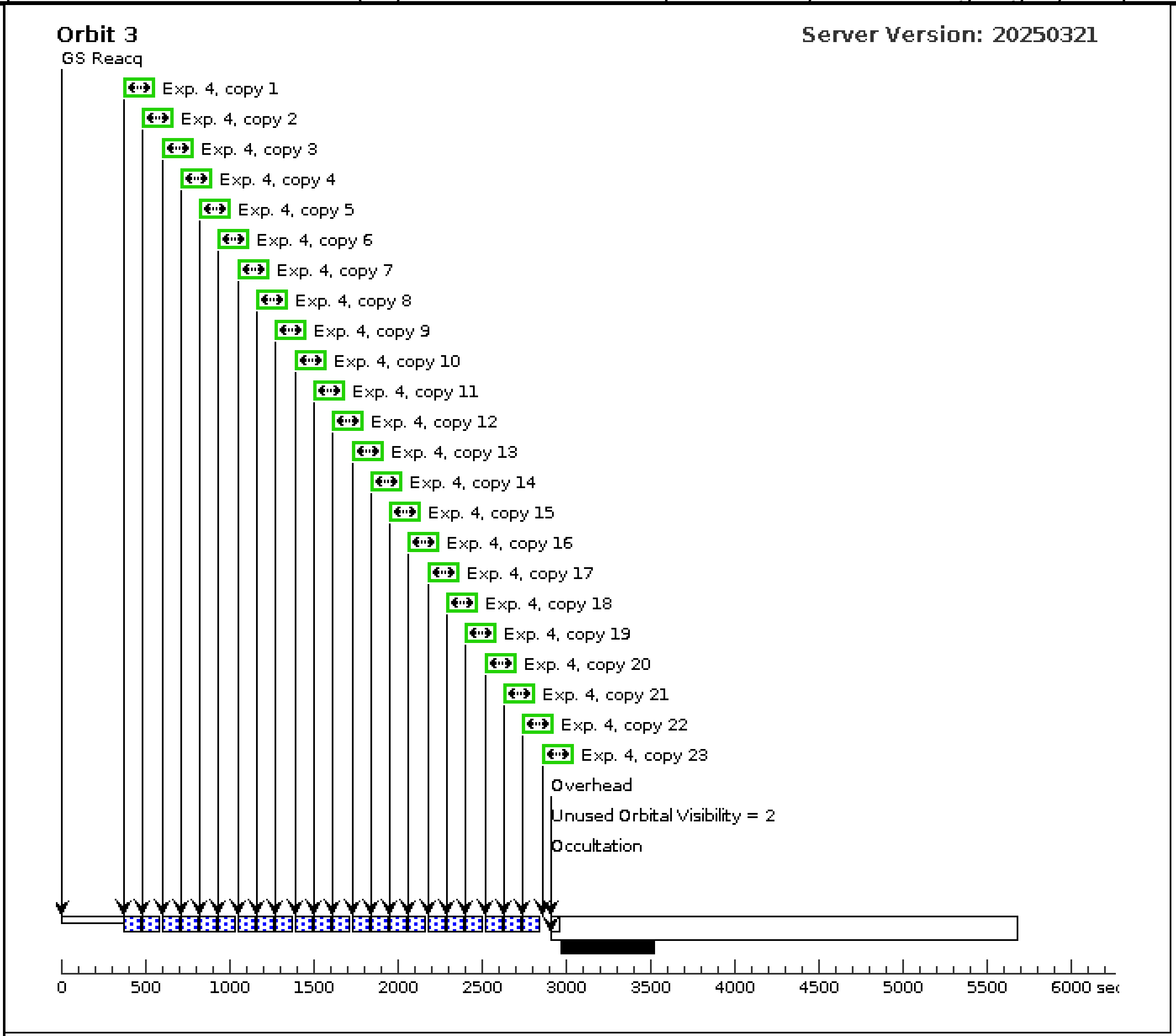
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Server Version: 20250321
GS Reacq
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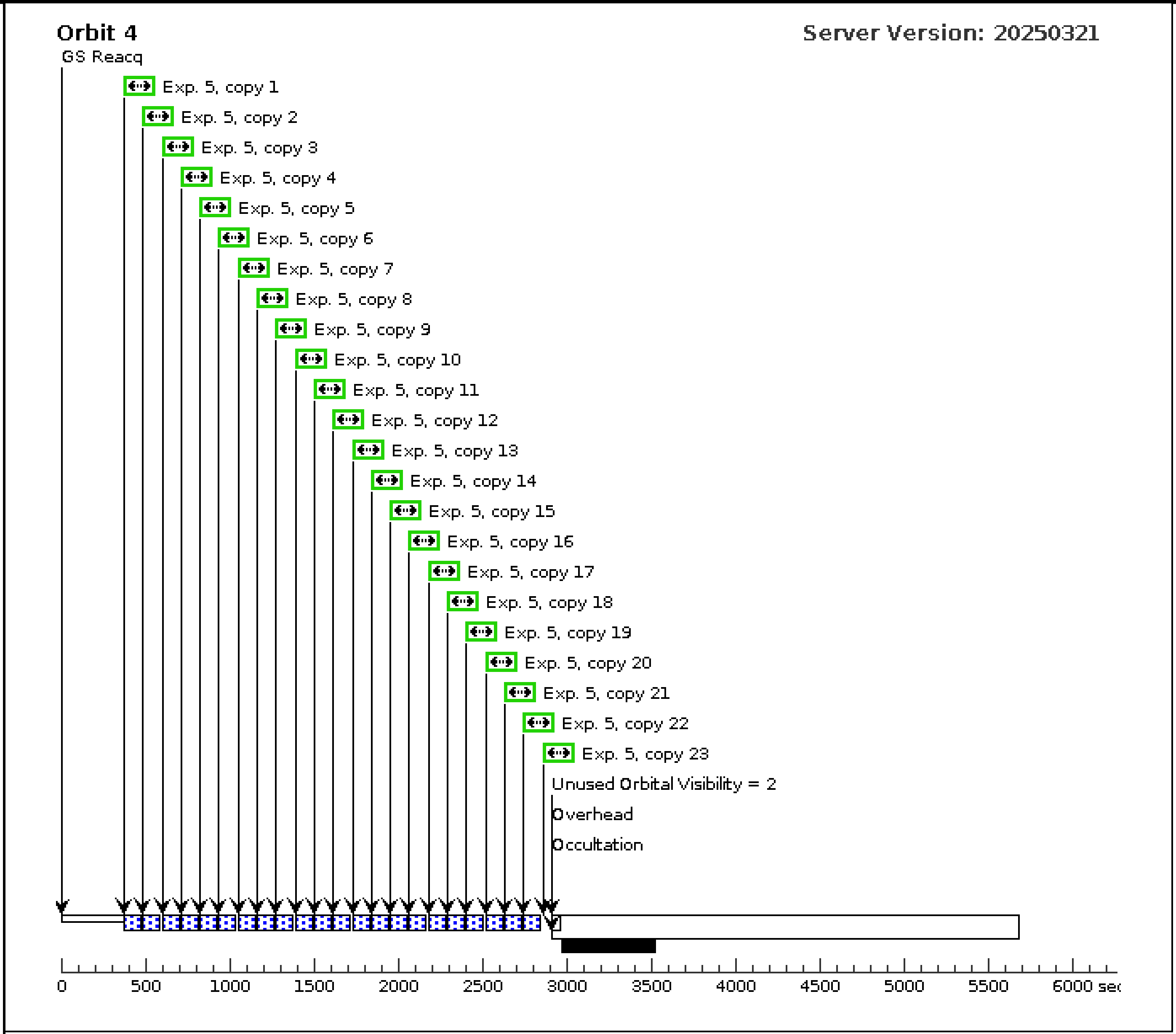
Exp. 4, copy 13
Exp. 4, copy 14
Exp. 4, copy 15
Exp. 4, copy 16
Exp. 4, copy 17
Exp. 4, copy 18
Exp. 4, copy 19
Exp. 4, copy 20
Exp. 4, copy 21
Exp. 4, copy 22
Exp. 4, copy 23
Overhead
Unused Orbital Visibility = 2
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec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Server Version: 20250321
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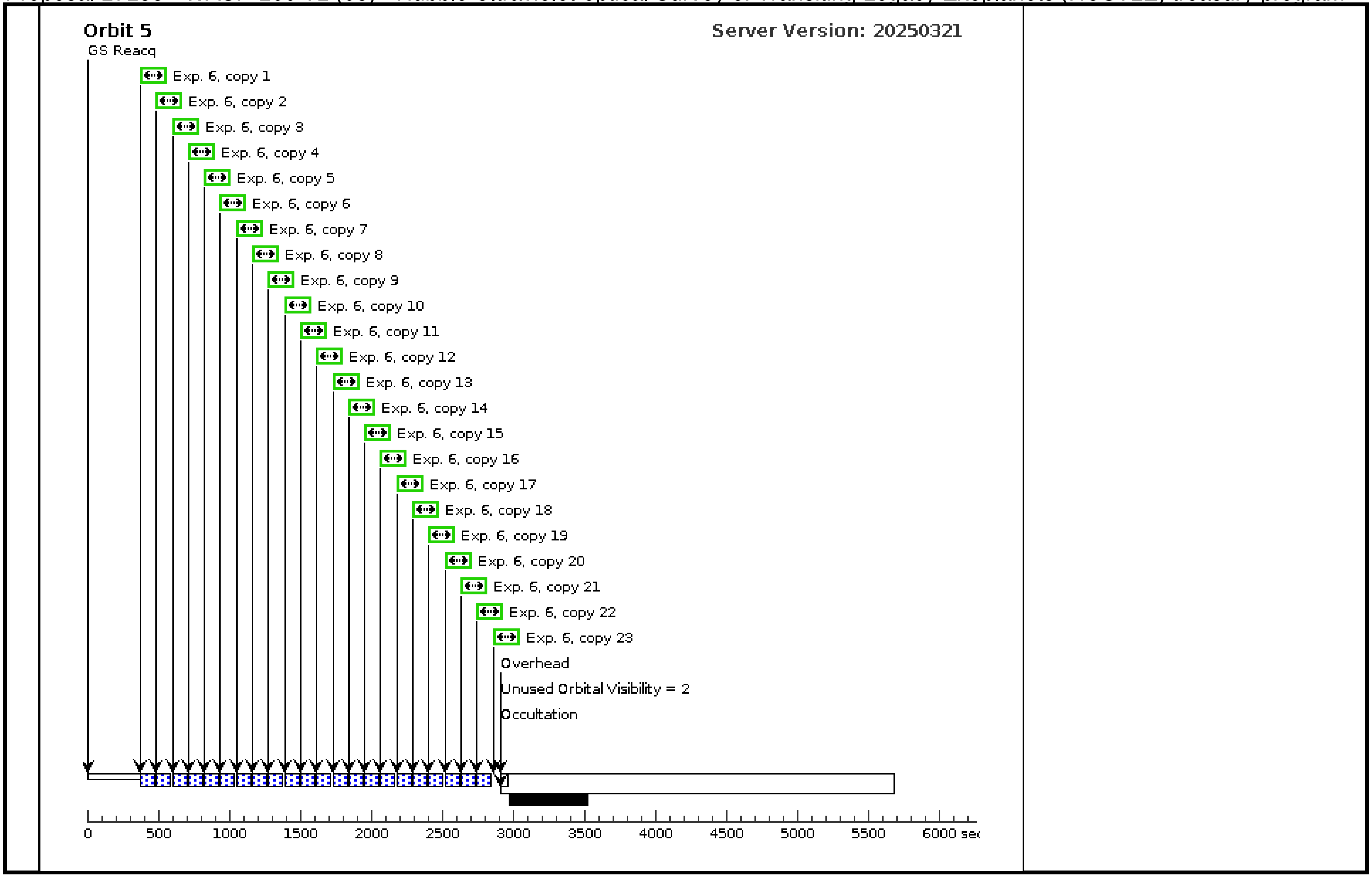
Exp. 5, copy 11
Exp. 5, copy 12
Exp. 5, copy 13
Exp. 5, copy 14
Exp. 5, copy 15
Exp. 5, copy 16
Exp. 5, copy 17
Exp. 5, copy 18
Exp. 5, copy 19
Exp. 5, copy 20
Exp. 5, copy 21
Exp. 5, copy 22
Exp. 5, copy 23
Unused Orbital Visibility = 2
Overhead
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec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Exp. 6, copy 16
Exp. 6, copy 17
Exp. 6, copy 18
Exp. 6, copy 19
Exp. 6, copy 20
Exp. 6, copy 21
Exp. 6, copy 22
Exp. 6, copy 23
Overhead
Unused Orbital Visibility = 2
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17183, WASP-166 T2 (09), completed Mon Jun 30 20:01:52 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 323D TO 27 D; ORIENT 246D TO 276 D; ORIENT 66D TO 94 D; ORIENT 142D TO 208 D; Period 5.44353 D AND ZERO-PHASE HJD2458518.964720

Comments: SIZEAXIS set to maximize data volume.
Based on ETC calculations with Castelli-Kurucz Models G0V 6000 4.5 at V mag = 9.36
G280 time to saturation = 45.77s
Orient contraints used to limit spectral overlap from three nearby sources
Centaxis paramters set based on previous program measurements (16039, 15838, 15288).
WASP-166 T1 and T2 are conducted with the same set-up

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	WASP-166	RA: 09 39 30.0861 (144.8753588d) Dec: -20 58 56.88 (-20.98247d) Equinox: J2000	Proper Motion RA: -0.003934280796720865 sec of time/yr Proper Motion Dec: 0.011151999999999999 arcsec/yr Epoch of Position: 2015.5	V=9.35	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANETARY SYSTEM]
Extended=NO

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(3) WASP-166	WFC3/UVIS, ACCUM, G280-REF	F300X	FLASH=16; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50; PHASE 0.97116867 TO 0.973720124118578	Sequence 1-2 Non-Int in WASP-166 T2 (09)	2 Secs (2 Secs) *[==>]*	*[1]*
2		(3) WASP-166	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=14	POS TARG null,-50	Sequence 1-2 Non-Int in WASP-166 T2 (09)	36 Secs X 22 (792 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)]*	*[1]*

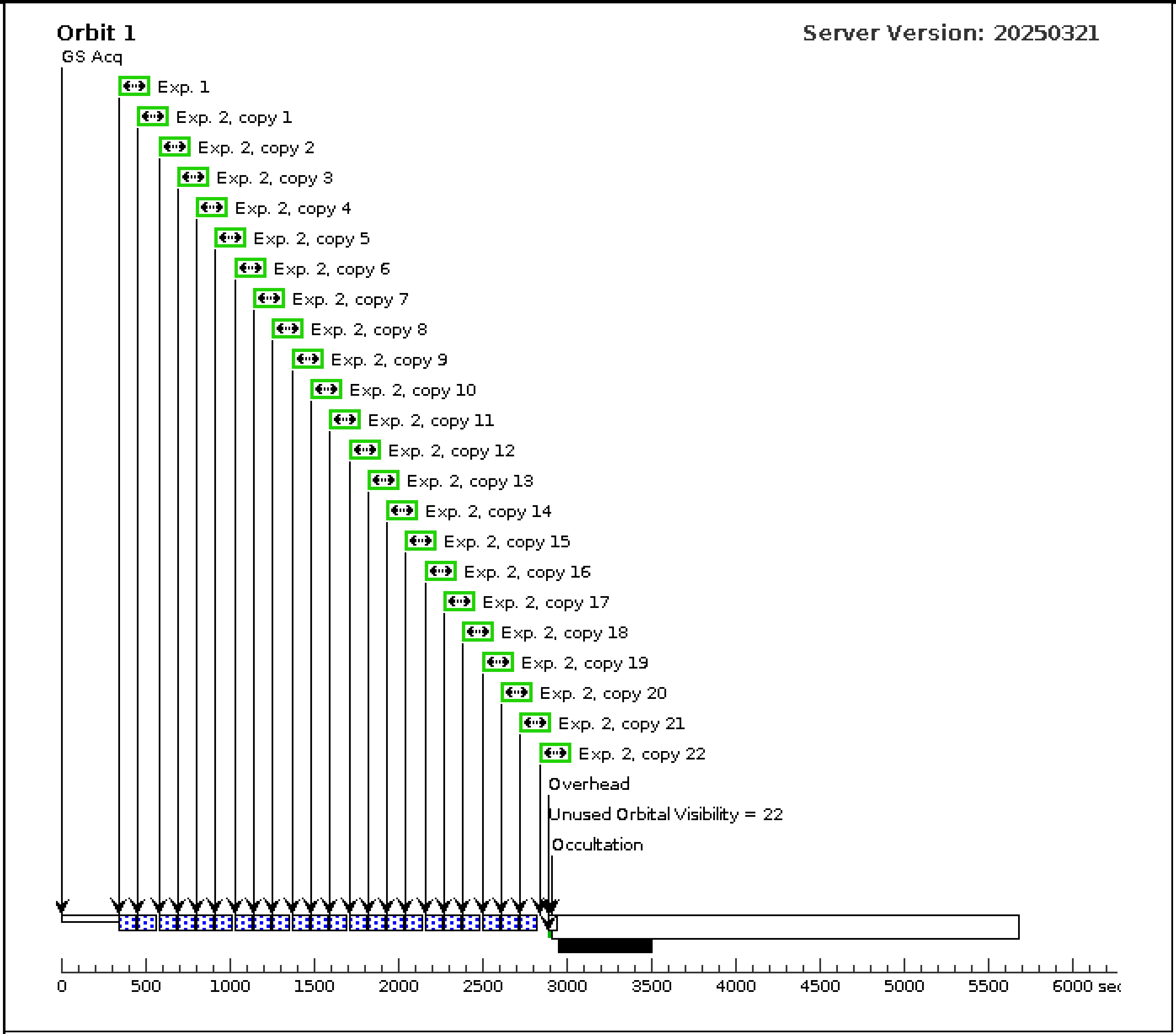
	3	(3) WASP-166	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=14	POS TARG null,-50	Sequence 3-3 Non-Int in WASP-166 T2 (09)	36 Secs X 23 (828 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 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)]*	***[2]***

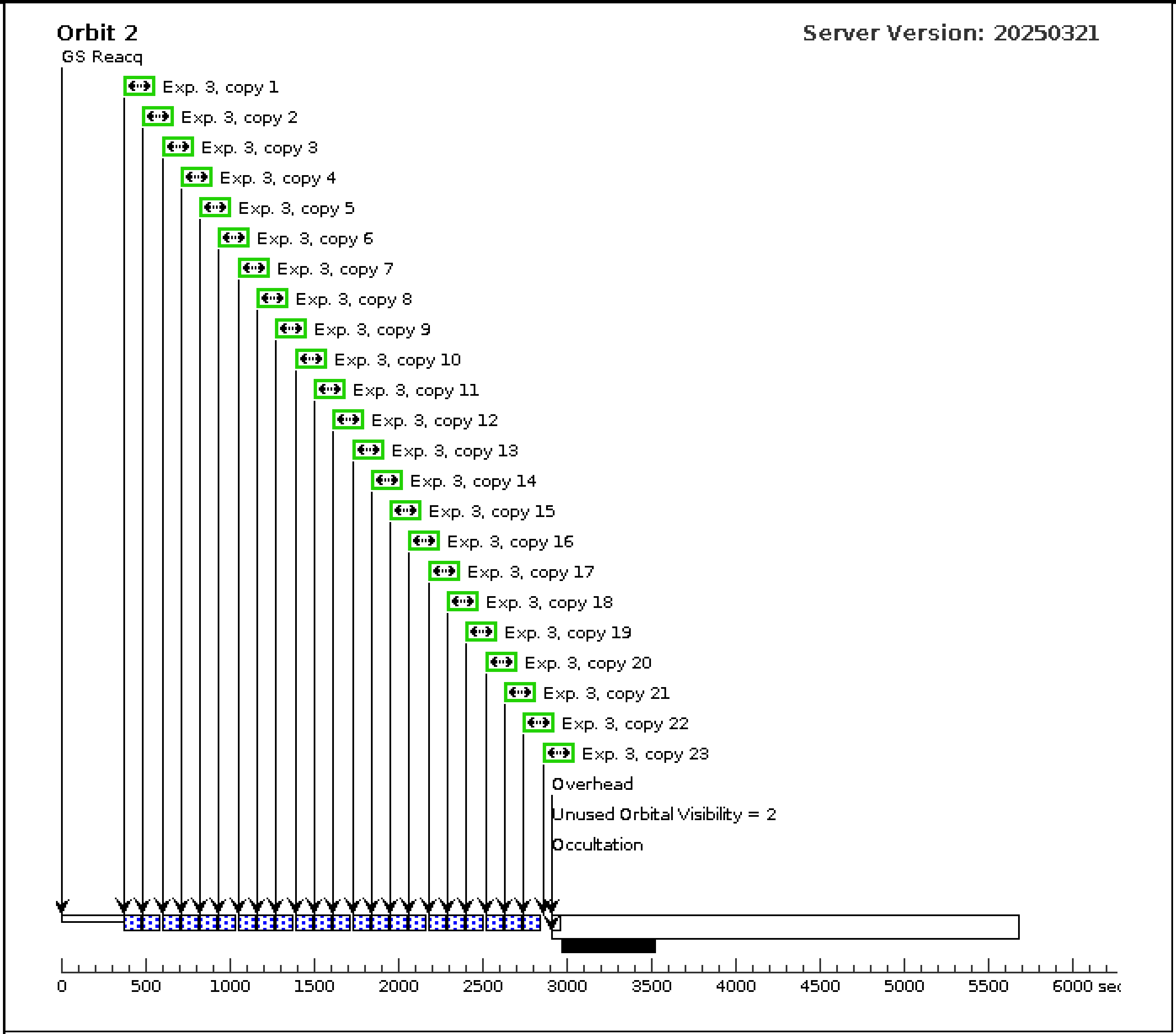
	4	(3) WASP-166	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=14	POS TARG null,-50	Sequence 4-4 Non-Int in WASP-166 T2 (09)	36 Secs X 23 (828 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 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)]*	***[3]***

	5	(3) WASP-166	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=14	POS TARG null,-50	Sequence 5-5 Non-Int in WASP-166 T2 (09)	36 Secs X 23 (828 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)]*	***[4]***

	6	(3) WASP-166	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=14	POS TARG null,-50	Sequence 6-6 Non-Int in WASP-166 T2 (09)	36 Secs X 23 (828 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)]*	***[5]***

Orbit Structure

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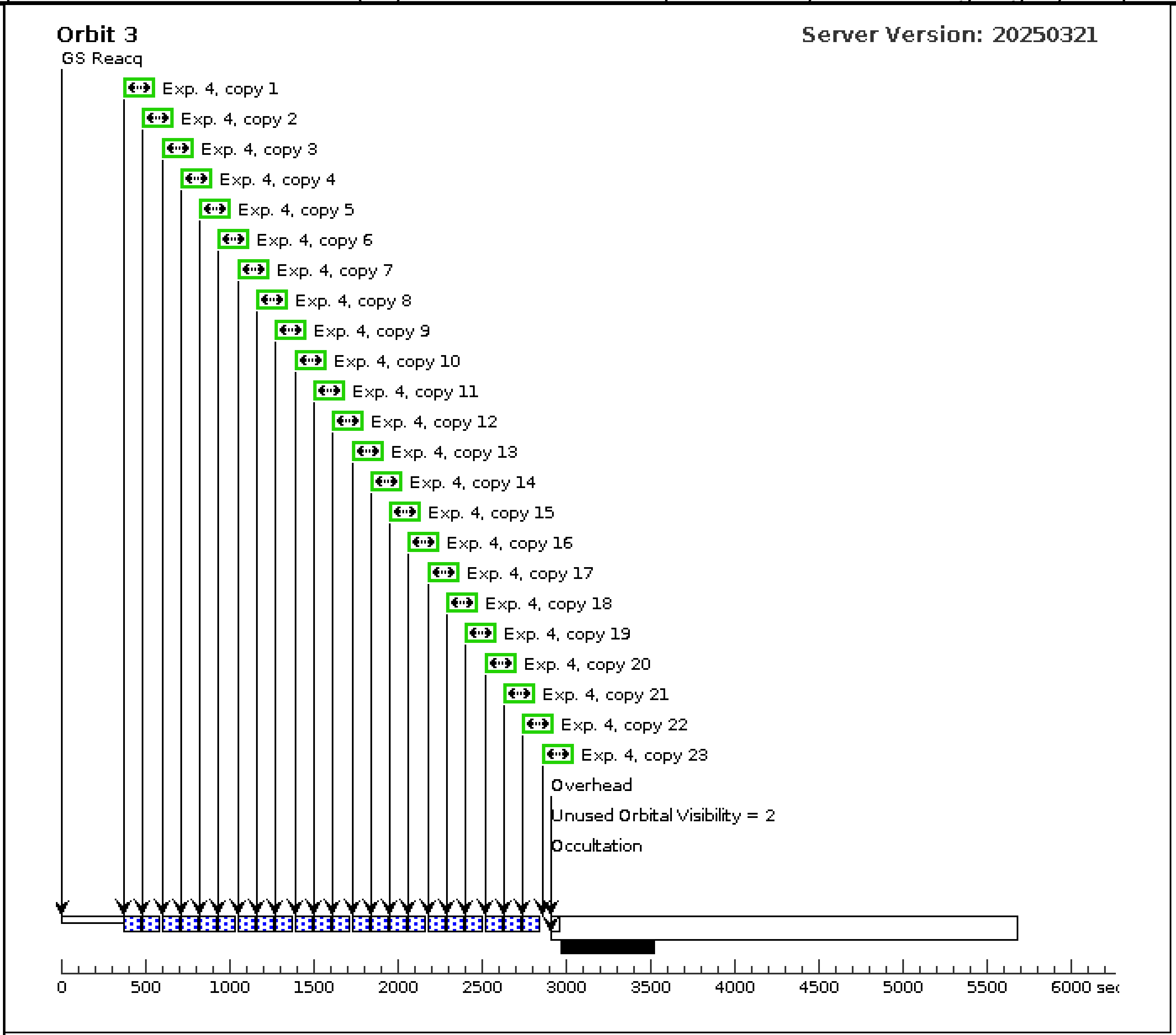
Exp. 3, copy 17
Exp. 3, copy 18
Exp. 3, copy 19
Exp. 3, copy 20
Exp. 3, copy 21
Exp. 3, copy 22
Exp. 3, copy 23
Overhead
Unused Orbital Visibility = 2
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec



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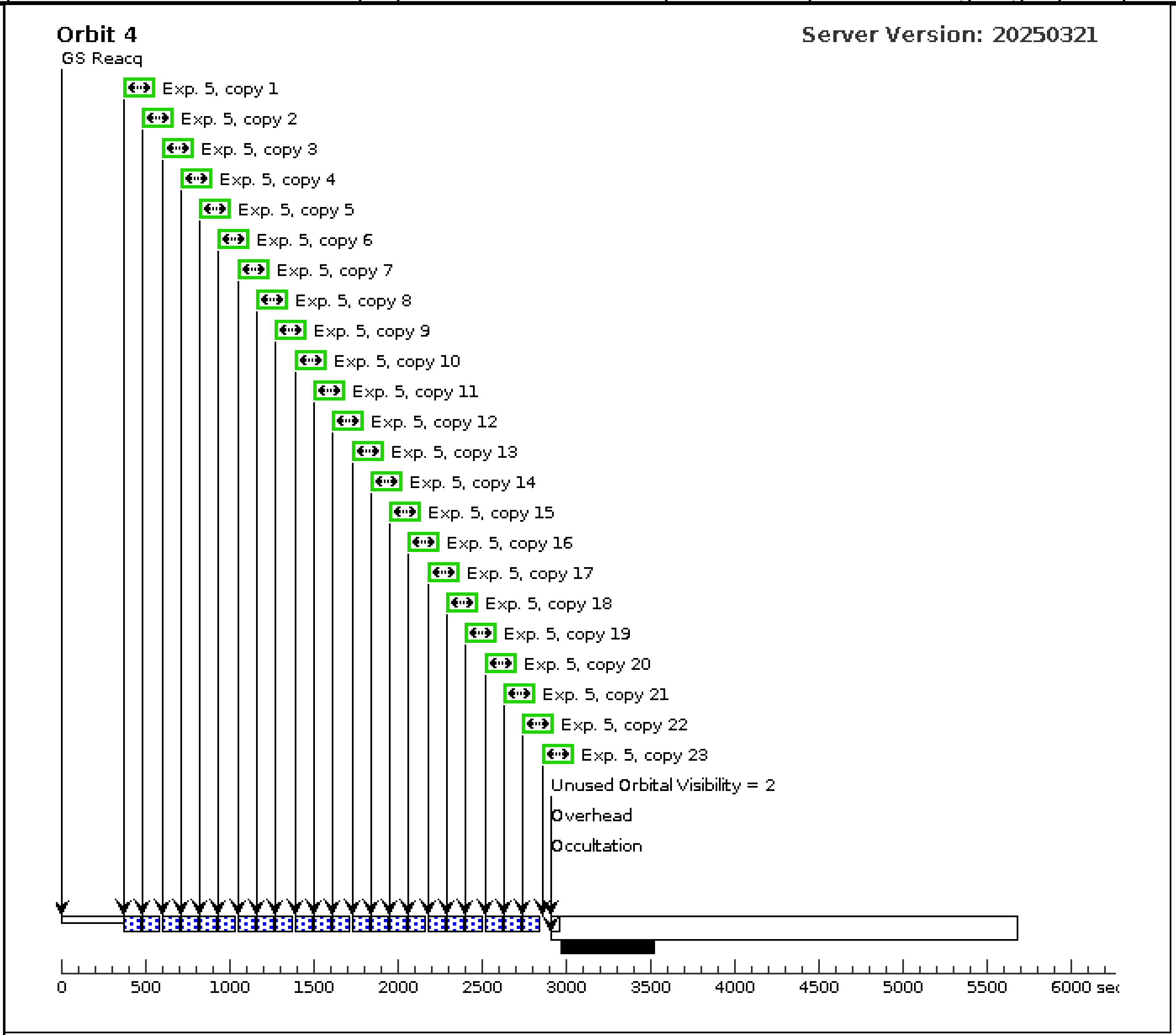
Exp. 4, copy 17
Exp. 4, copy 18
Exp. 4, copy 19
Exp. 4, copy 20
Exp. 4, copy 21
Exp. 4, copy 22
Exp. 4, copy 23
Overhead
Unused Orbital Visibility = 2
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec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Server Version: 20250321
GS Reacq
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Exp. 5, copy 2
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Exp. 5, copy 4
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Exp. 5, copy 16
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Exp. 5, copy 18
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Exp. 5, copy 22
Exp. 5, copy 23
Unused Orbital Visibility = 2
Overhead
Occultation
0
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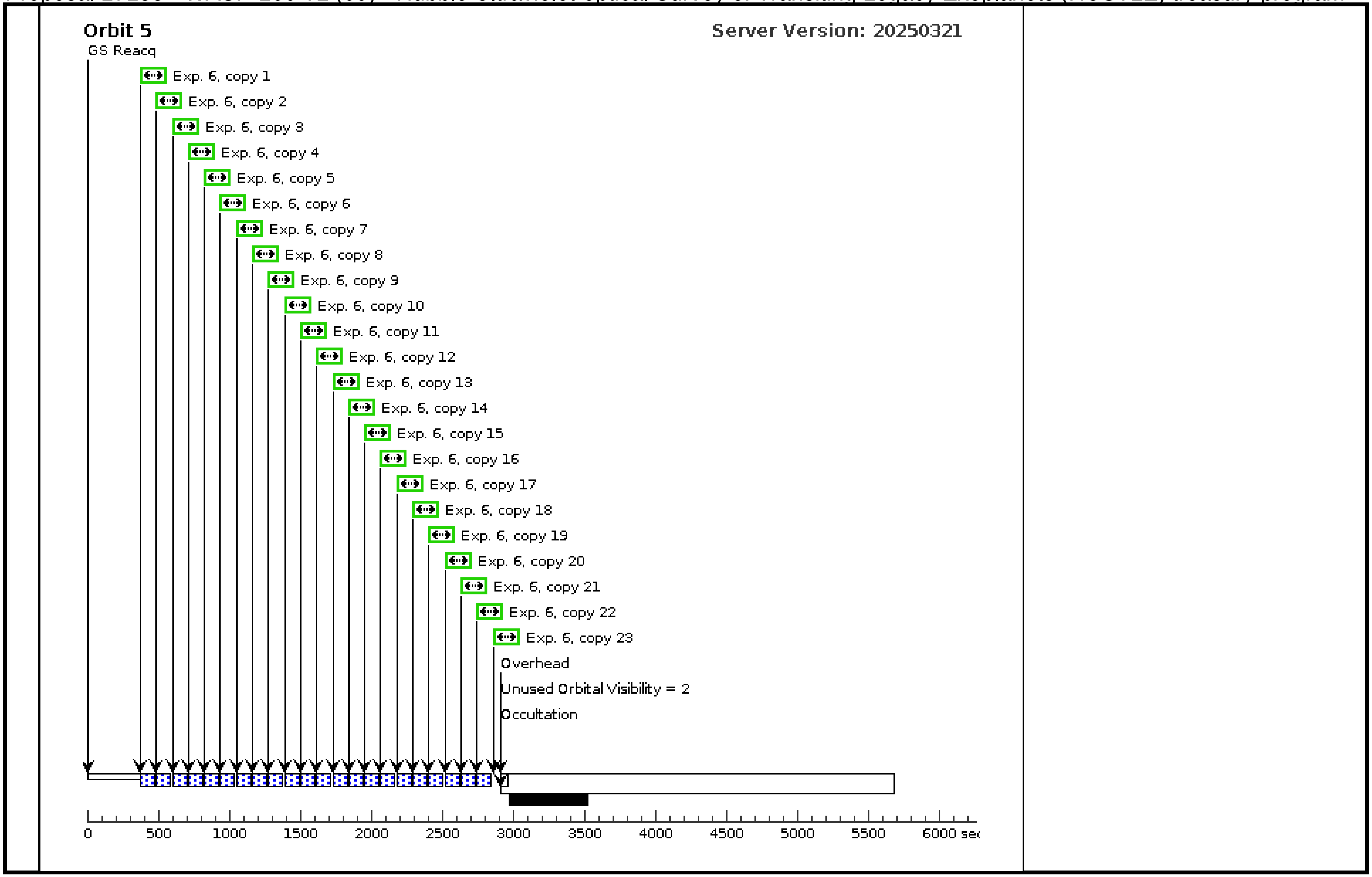
6000 sec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Server Version: 20250321
GS Reacq
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Exp. 6, copy 22
Exp. 6, copy 23
Overhead
Unused Orbital Visibility = 2
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17183, WASP-166 T1 repeat HOPR 92406 (25), completed

Mon Jun 30 20:01:52 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 323D TO 27 D; ORIENT 246D TO 276 D; ORIENT 66D TO 94 D; ORIENT 142D TO 208 D; Period 5.44353 D AND ZERO-PHASE HJD2458518.964720

Comments: Repeat of WASP-166 T1 due to FGS failure
HOPR 92406

SIZEAXIS set to maximize data volume.
Based on ETC calculations with Castelli-Kurucz Models G0V 6000 4.5 at V mag = 9.36
G280 time to saturation = 45.77s
Orient contraints used to limit spectral overlap from three nearby sources
Centaxis paramters set based on previous program measurements (16039, 15838, 15288).
WASP-166 T1 and T2 are conducted with the same set-up

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	WASP-166	RA: 09 39 30.0861 (144.8753588d) Dec: -20 58 56.88 (-20.98247d) Equinox: J2000	Proper Motion RA: -0.003934280796720865 sec of time/yr Proper Motion Dec: 0.011151999999999999 arcsec/yr Epoch of Position: 2015.5	V=9.35	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANETARY SYSTEM]
Extended=NO

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(3) WASP-166	WFC3/UVIS, ACCUM, G280-REF	F300X	FLASH=16; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50; PHASE 0.97116867 TO 0.973720124118578	Sequence 1-2 Non-Int in WASP-166 T1 repeat HOPR 92406 (25)	2 Secs (2 Secs) *[==>]*	*[1]*
2		(3) WASP-166	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=14	POS TARG null,-50	Sequence 1-2 Non-Int in WASP-166 T1 repeat HOPR 92406 (25)	36 Secs X 22 (792 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)]*	*[1]*

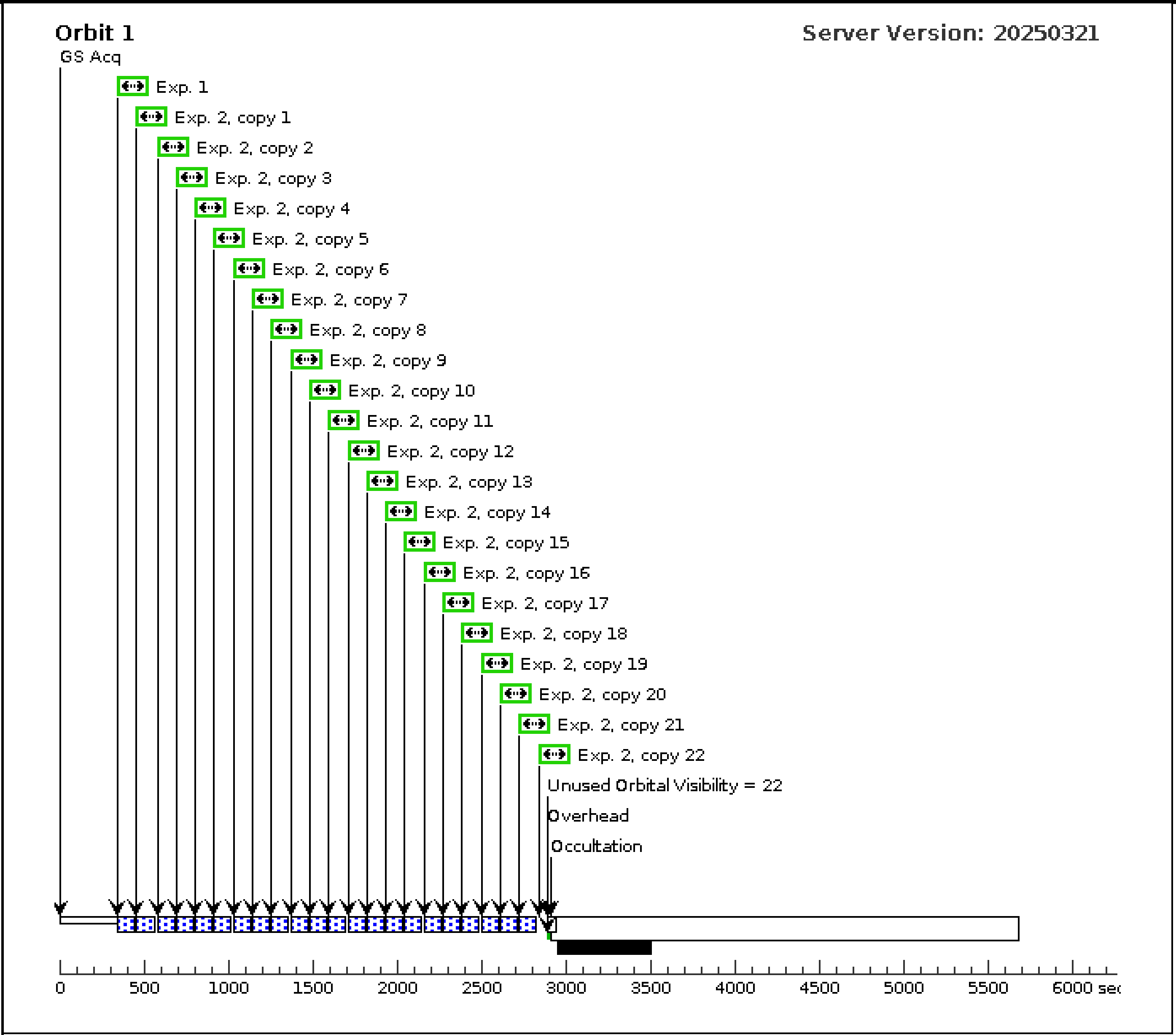
	3	(3) WASP-166	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=14	POS TARG null,-50	Sequence 3-3 Non-Int in WASP-166 T1 repeat HOPR 92406 (25)	36 Secs X 23 (828 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 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)]*	***[2]***

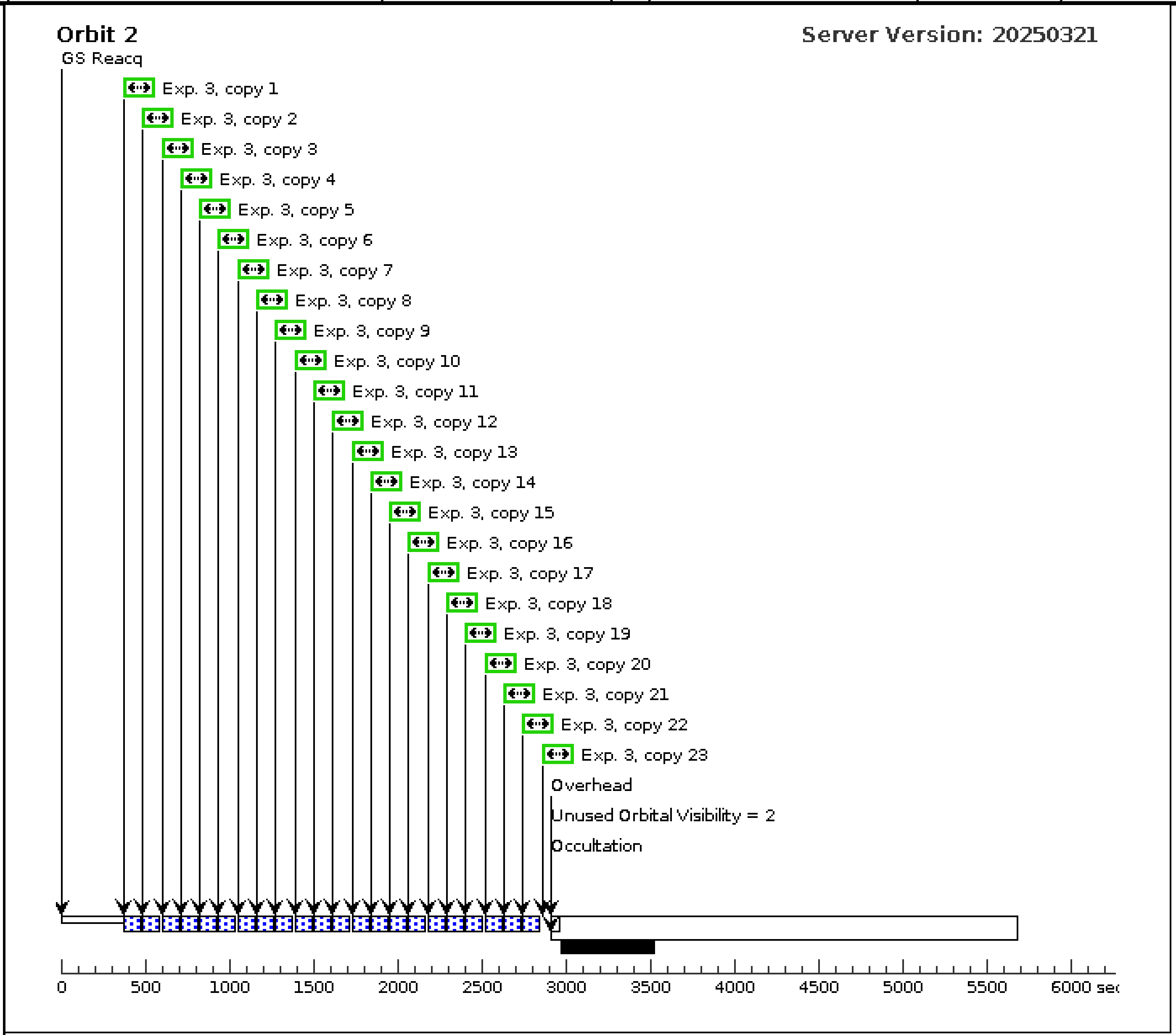
	4	(3) WASP-166	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=14	POS TARG null,-50	Sequence 4-4 Non-Int in WASP-166 T1 repeat HOPR 92406 (25)	36 Secs X 23 (828 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 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)]*	***[3]***

	5	(3) WASP-166	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=14	POS TARG null,-50	Sequence 5-5 Non-Int in WASP-166 T1 repeat HOPR 92406 (25)	36 Secs X 23 (828 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)]*	***[4]***

	6	(3) WASP-166	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=14	POS TARG null,-50	Sequence 6-6 Non-Int in WASP-166 T1 repeat HOPR 92406 (25)	36 Secs X 23 (828 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)]*	***[5]***

Orbit Structure

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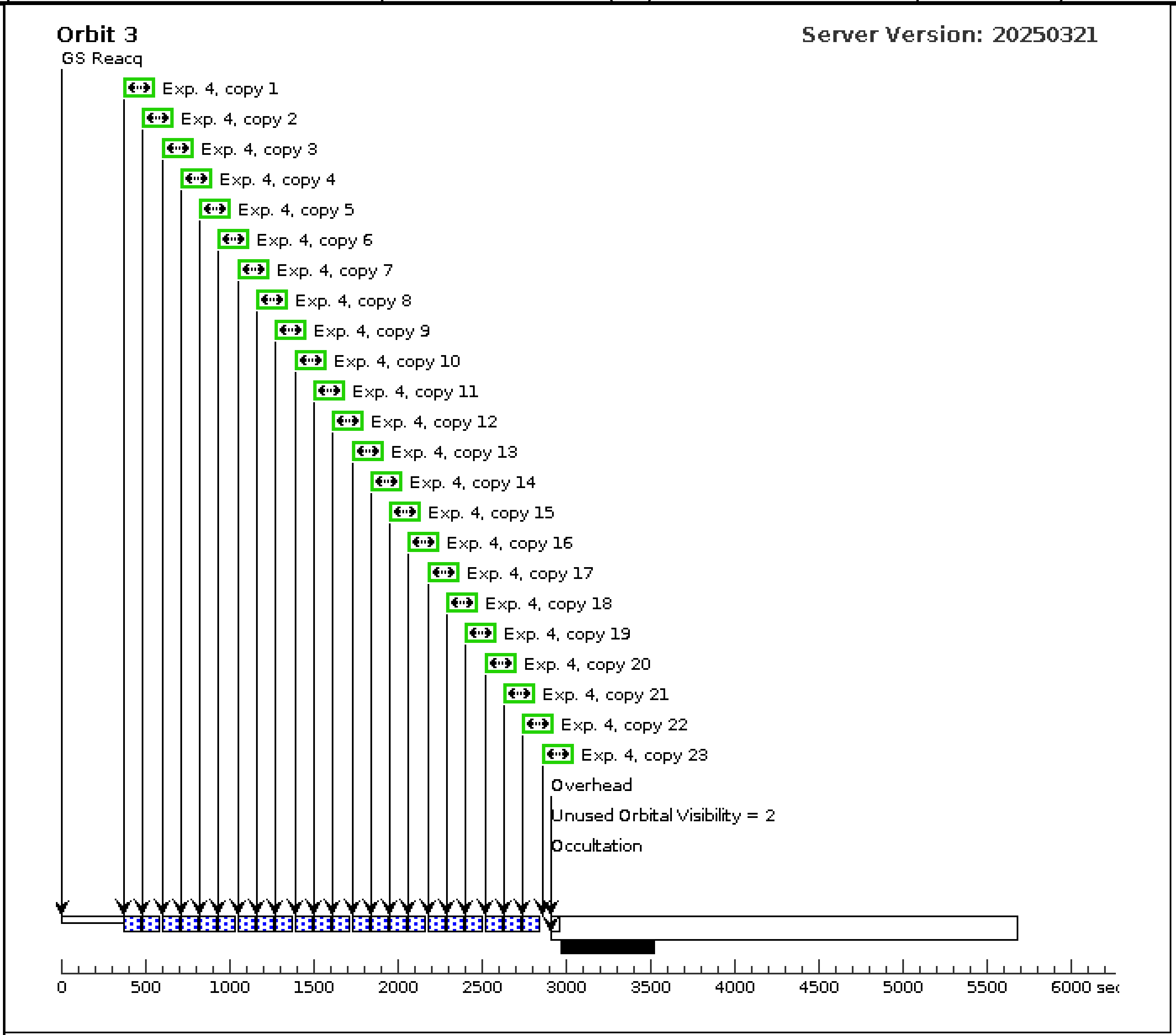
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Exp. 4, copy 23
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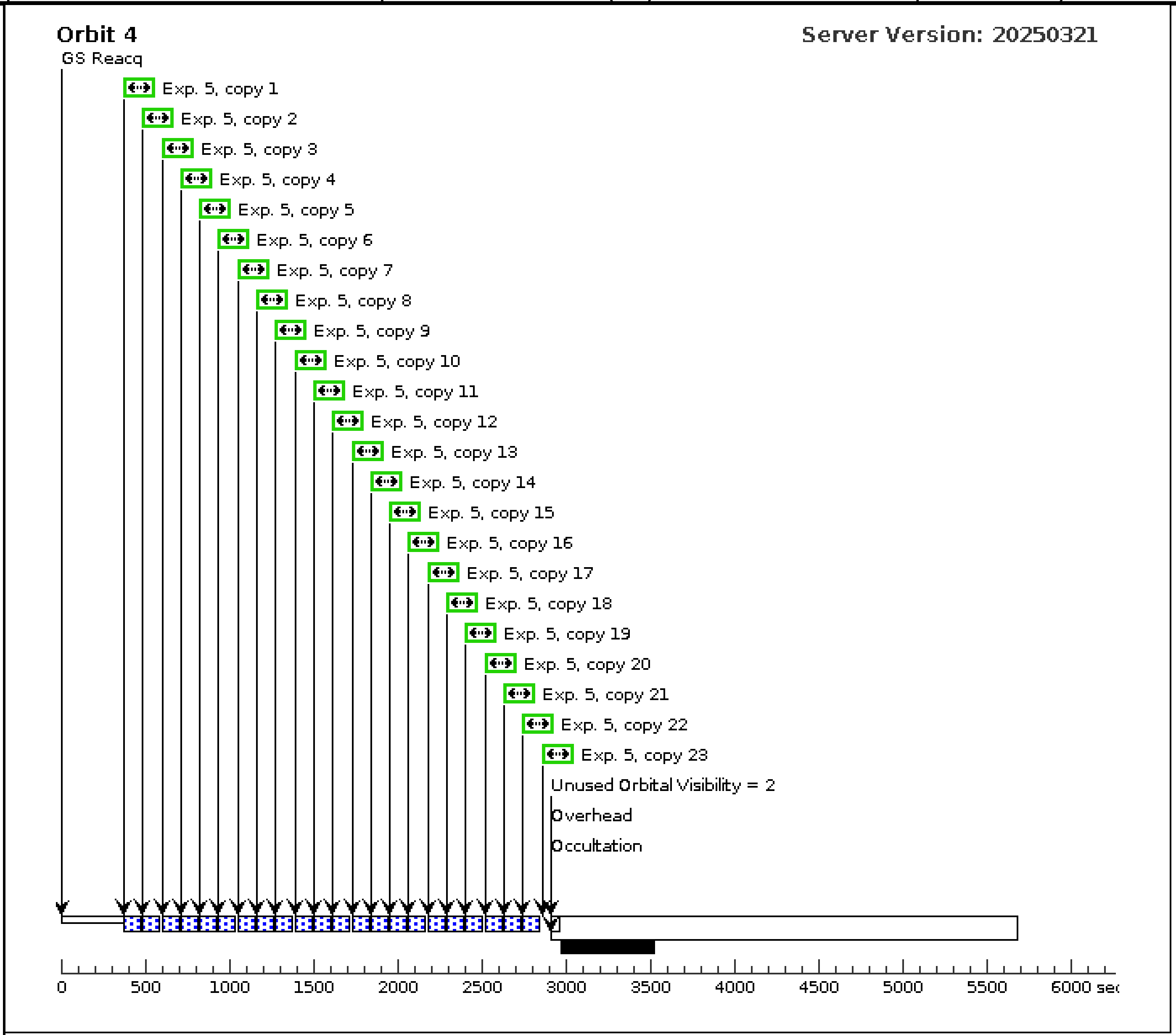
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Exp. 5, copy 18
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Exp. 5, copy 20
Exp. 5, copy 21
Exp. 5, copy 22
Exp. 5, copy 23
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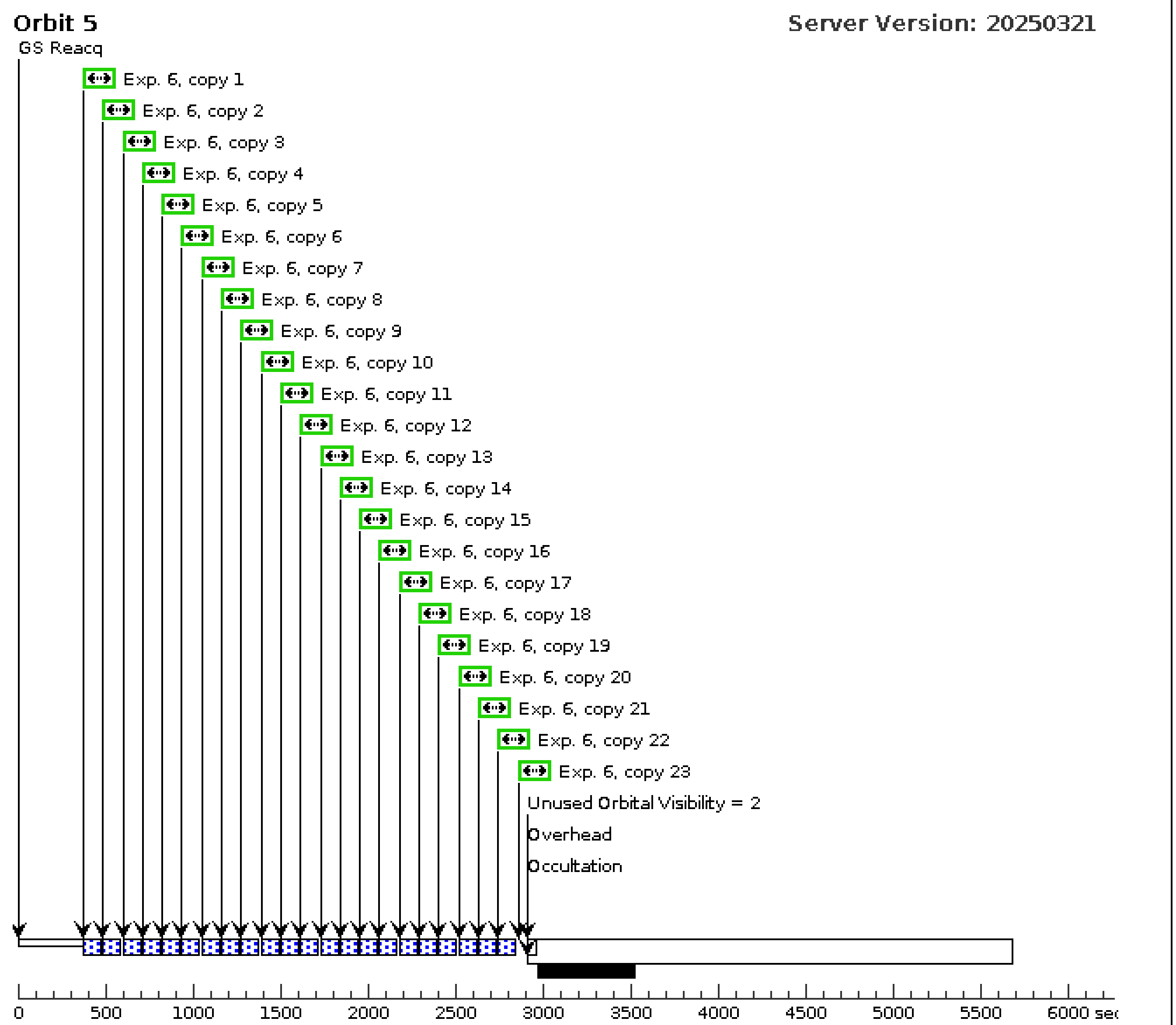
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Exp. 6, copy 18
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Exp. 6, copy 20
Exp. 6, copy 21
Exp. 6, copy 22
Exp. 6, copy 23
Unused Orbital Visibility = 2
Overhead
Occultation
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1000
1500
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2500
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3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17183, HAT-P-1 T1 (10), completed Mon Jun 30 20:01:52 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 350D TO 55 D; ORIENT 147D TO 225 D; Period 4.46530 D AND ZERO-PHASE HJD2453979.932020

Comments: SIZEAXIS set to maximize data volume.
Based on ETC calculations with Castelli-Kurucz Models G0V 6000 4.5 at V mag = 10.3
G280 time to saturation = 108.79s
Orient contraints used to limit spectral overlap from nearby binary companion
Centaxis paramters set based on previous program measurements (16039, 15838, 15288).
HAT-P-1 T1 and T2 are conducted with the same set-up

Fixed Targets

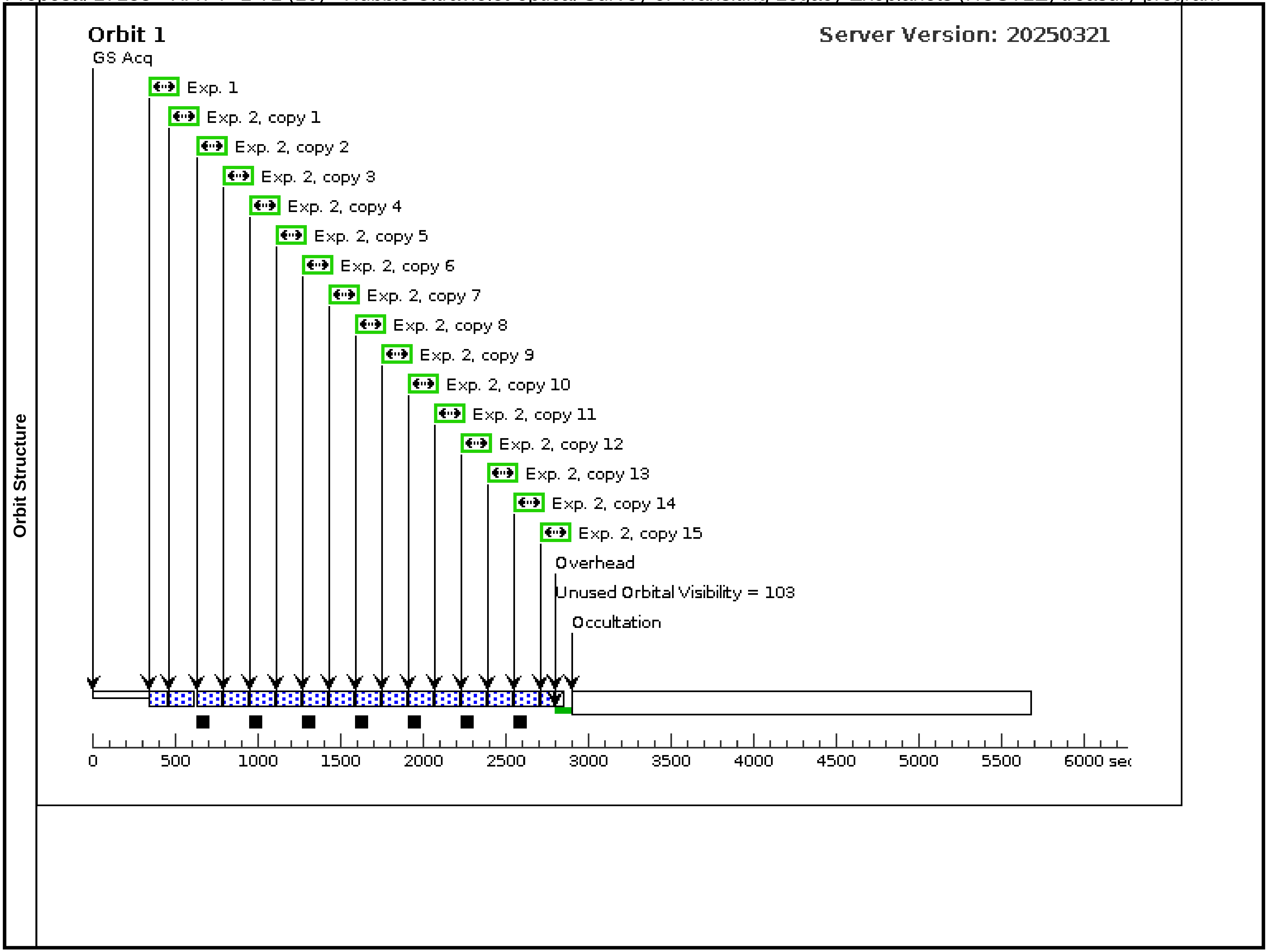
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	HAT-P-1	RA: 22 57 46.8872 (344.4453633d) Dec: +38 40 29.71 (38.67492d) Equinox: J2000	Proper Motion RA: 0.002765367218476515 sec of time/yr Proper Motion Dec: -0.041751000071599265 arcsec/yr Epoch of Position: 2015.5	V=9.87	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET]
Extended=NO

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(4) HAT-P-1	WFC3/UVIS, ACCUM, G280-REF	F300X	FLASH=16; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50; PHASE 0.972317399109816 TO 0.975427803704219	Sequence 1-2 Non-Int in HAT-P-1 T1 (10)	5 Secs (5 Secs) *[==>]*	*[1]*
2		(4) HAT-P-1	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=11	POS TARG null,-50	Sequence 1-2 Non-Int in HAT-P-1 T1 (10)	79 Secs X 15 (1185 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		(4) HAT-P-1	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=11	POS TARG null,-50	Sequence 3-3 Non-Int in HAT-P-1 T1 (10)	79 Secs X 16 (1264 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]*

	4	(4) HAT-P-1	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=11	POS TARG null,-50	Sequence 4-4 Non-Int in HAT-P-1 T1 (10)	79 Secs X 16 (1264 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	(4) HAT-P-1	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=11	POS TARG null,-50	Sequence 5-5 Non-Int in HAT-P-1 T1 (10)	79 Secs X 16 (1264 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]***



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Exp. 2, copy 14
Exp. 2, copy 15
Overhead
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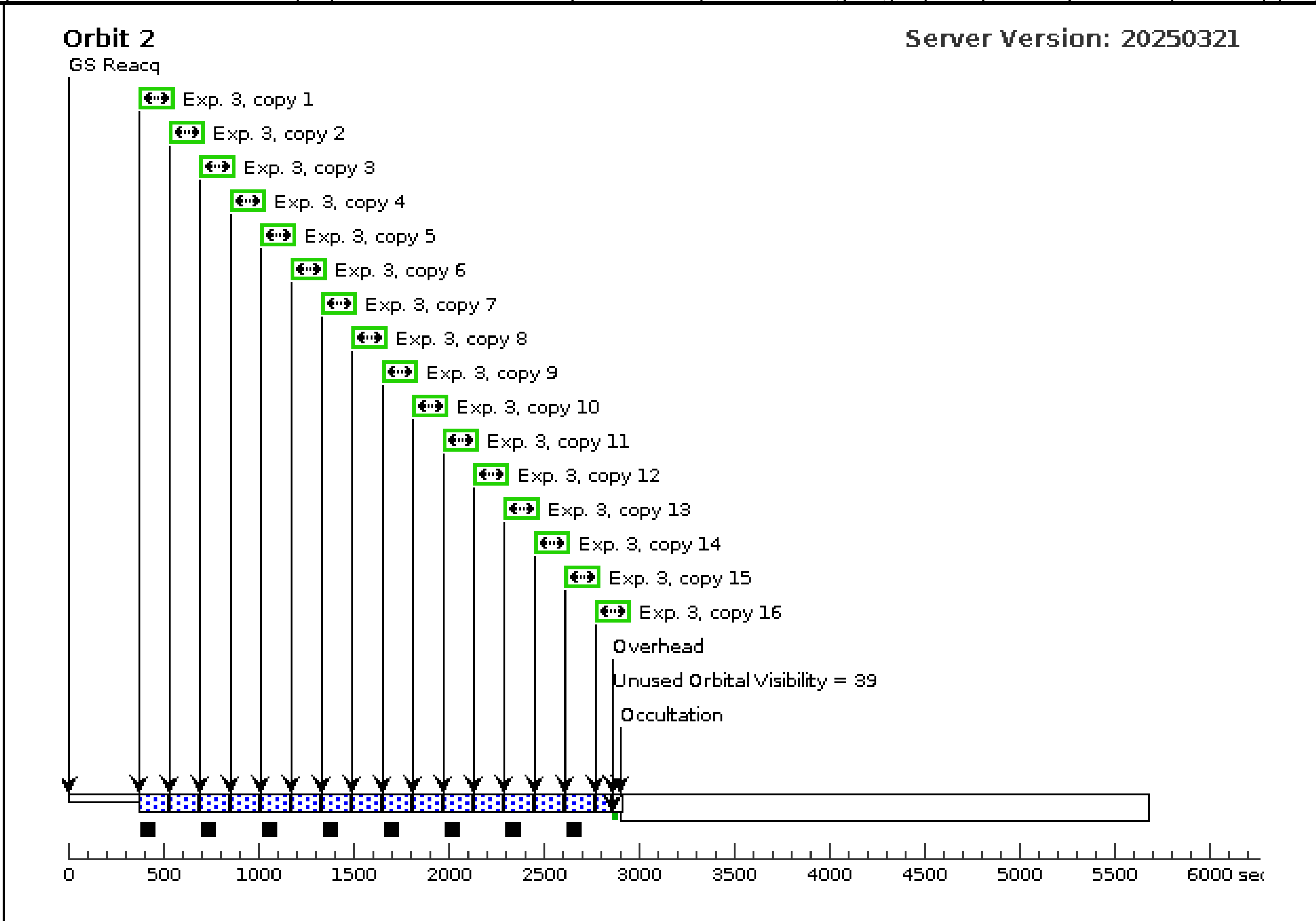

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Exp. 3, copy 14
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Exp. 3, copy 16
Overhead
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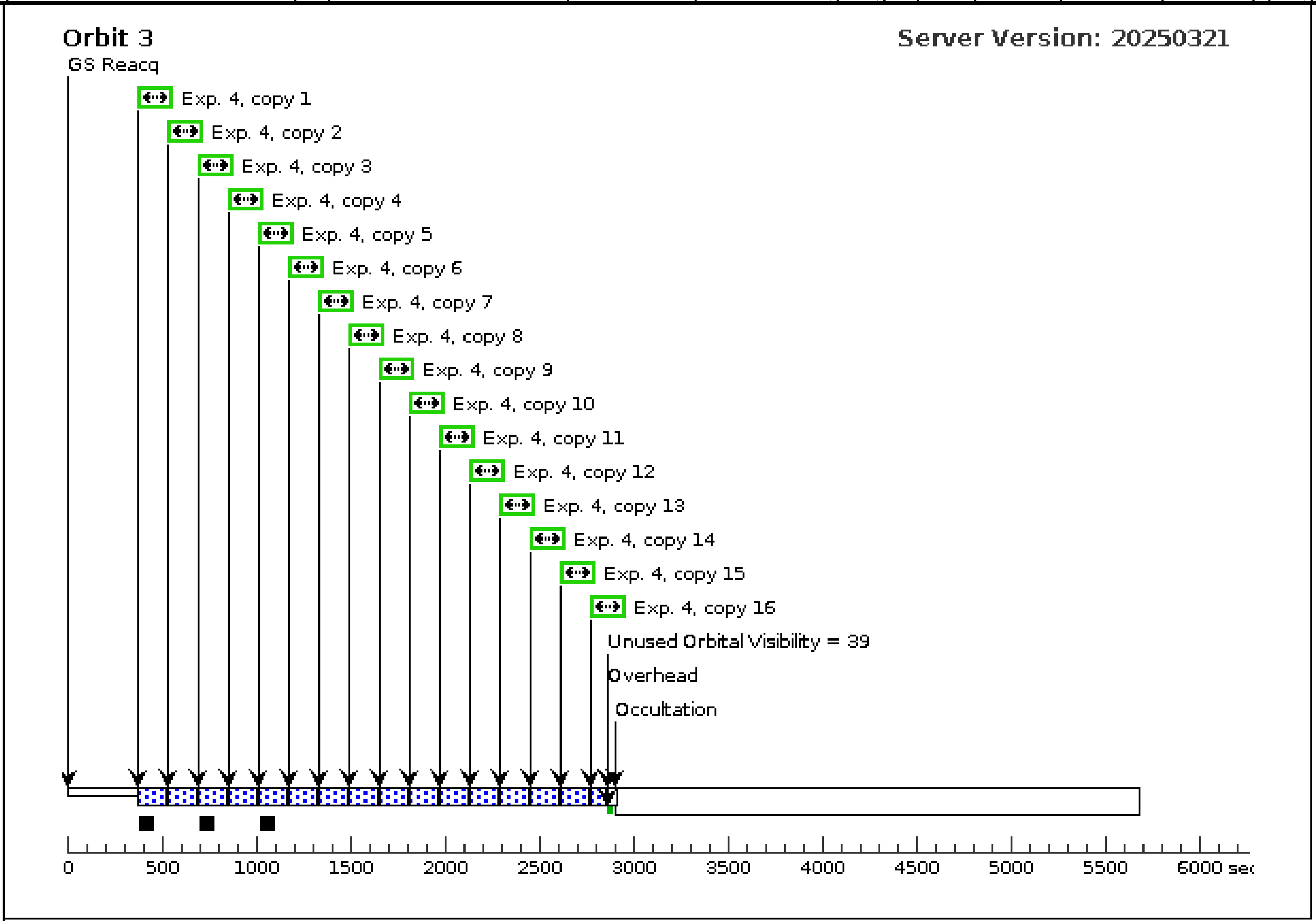
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Exp. 4, copy 14
Exp. 4, copy 15
Exp. 4, copy 16
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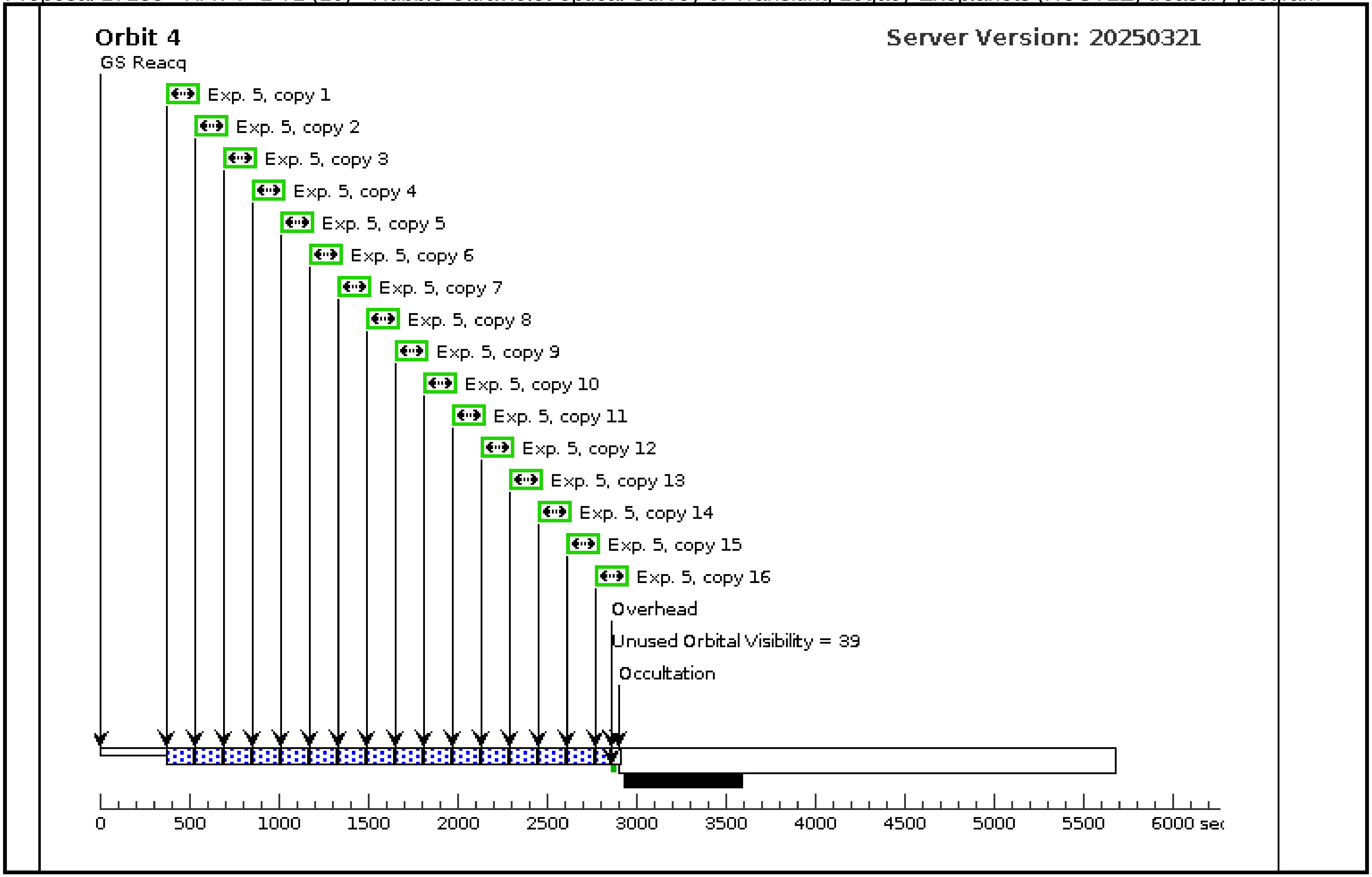
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Overhead
Unused Orbital Visibility = 39
Occultation
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4500
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5500
6000 sec

Visit

Proposal 17183, HAT-P-1 T2 (11), implementation Mon Jun 30 20:01:52 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 222D TO 225 D; Period 4.46530 D AND ZERO-PHASE HJD2453979.932020

Comments: SIZEAXIS set to maximize data volume.
Based on ETC calculations with Castelli-Kurucz Models G0V 6000 4.5 at V mag = 10.3
G280 time to saturation = 108.79s
Orient contraints used to limit spectral overlap from nearby binary companion
Centaxis paramters set based on previous program measurements (16039, 15838, 15288).
HAT-P-1 T2 has been modified on 06-06-2024 to be conducted with a larger Y Postarge of -56 (compared to -50 for T1) to ensure that the companion star is always captured inside the subarray at any of the remaining possible orient angles.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	HAT-P-1	RA: 22 57 46.8872 (344.4453633d) Dec: +38 40 29.71 (38.67492d) Equinox: J2000	Proper Motion RA: 0.002765367218476515 sec of time/yr Proper Motion Dec: -0.041751000071599265 arcsec/yr Epoch of Position: 2015.5	V=9.87	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET]
Extended=NO

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(4) HAT-P-1	WFC3/UVIS, ACCUM, G280-REF	F300X	FLASH=16; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-56; PHASE 0.972317399109816 TO 0.975427803704219	Sequence 1-2 Non-Int in HAT-P-1 T2 (11)	5 Secs (5 Secs) *[==>]*	*[1]*
2		(4) HAT-P-1	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=11	POS TARG null,-56	Sequence 1-2 Non-Int in HAT-P-1 T2 (11)	75 Secs X 15 (1125 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		(4) HAT-P-1	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=11	POS TARG null,-56	Sequence 3-3 Non-Int in HAT-P-1 T2 (11)	75 Secs X 16 (1200 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]*

	4	(4) HAT-P-1	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=11	POS TARG null,-56	Sequence 4-4 Non-Int in HAT-P-1 T2 (11)	75 Secs X 16 (1200 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	(4) HAT-P-1	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=11	POS TARG null,-56	Sequence 5-5 Non-Int in HAT-P-1 T2 (11)	75 Secs X 16 (1200 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]***

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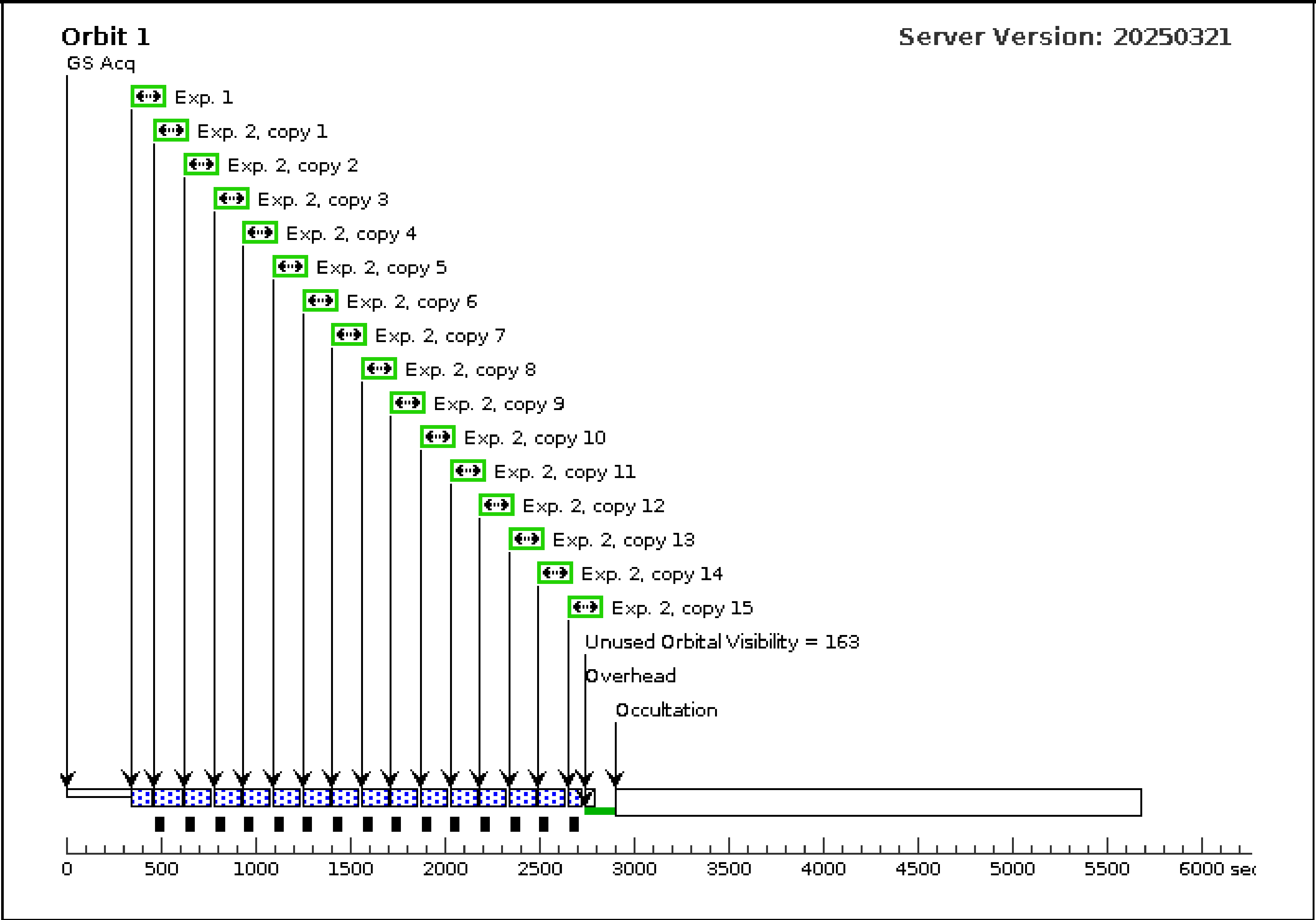

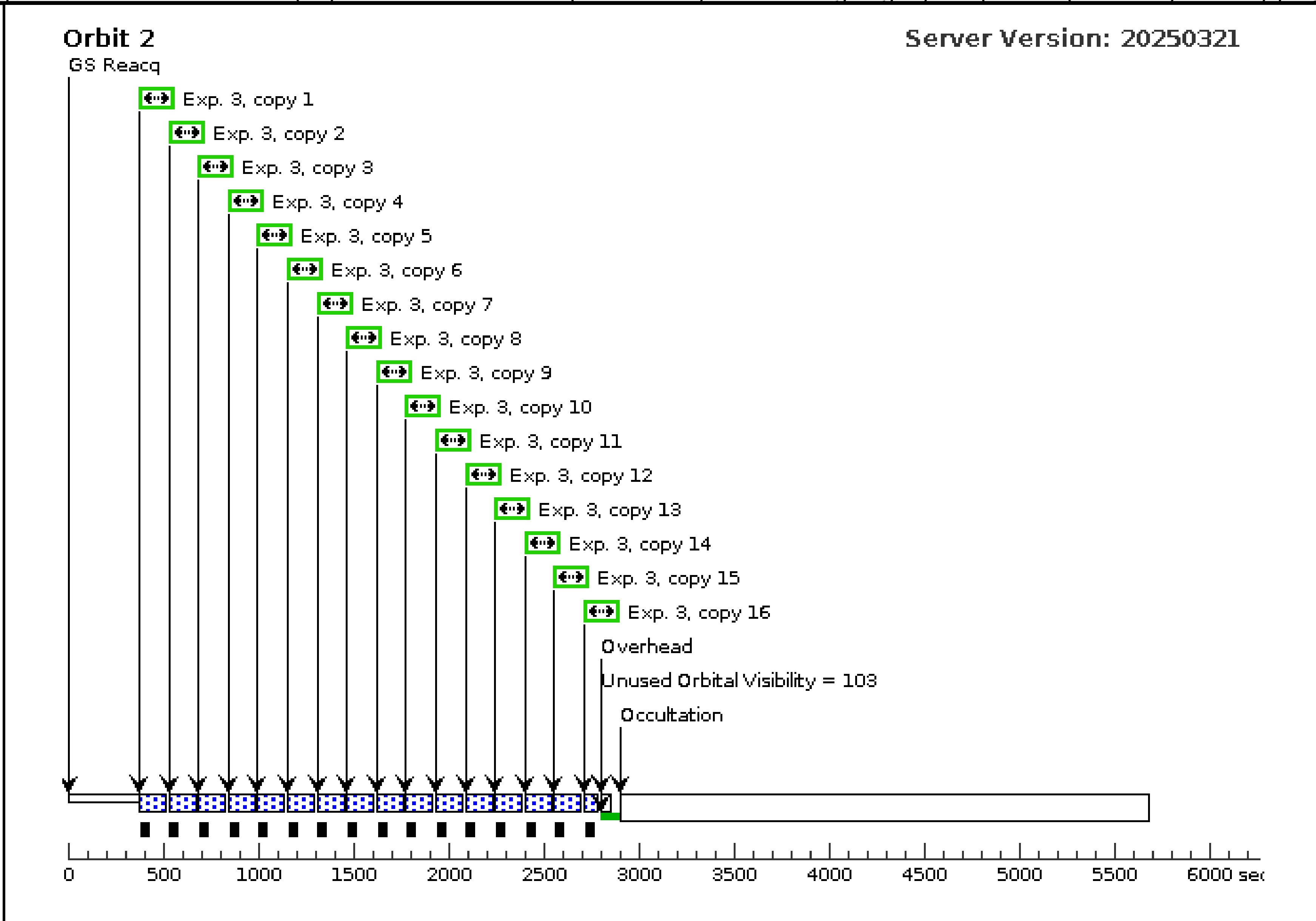
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Overhead
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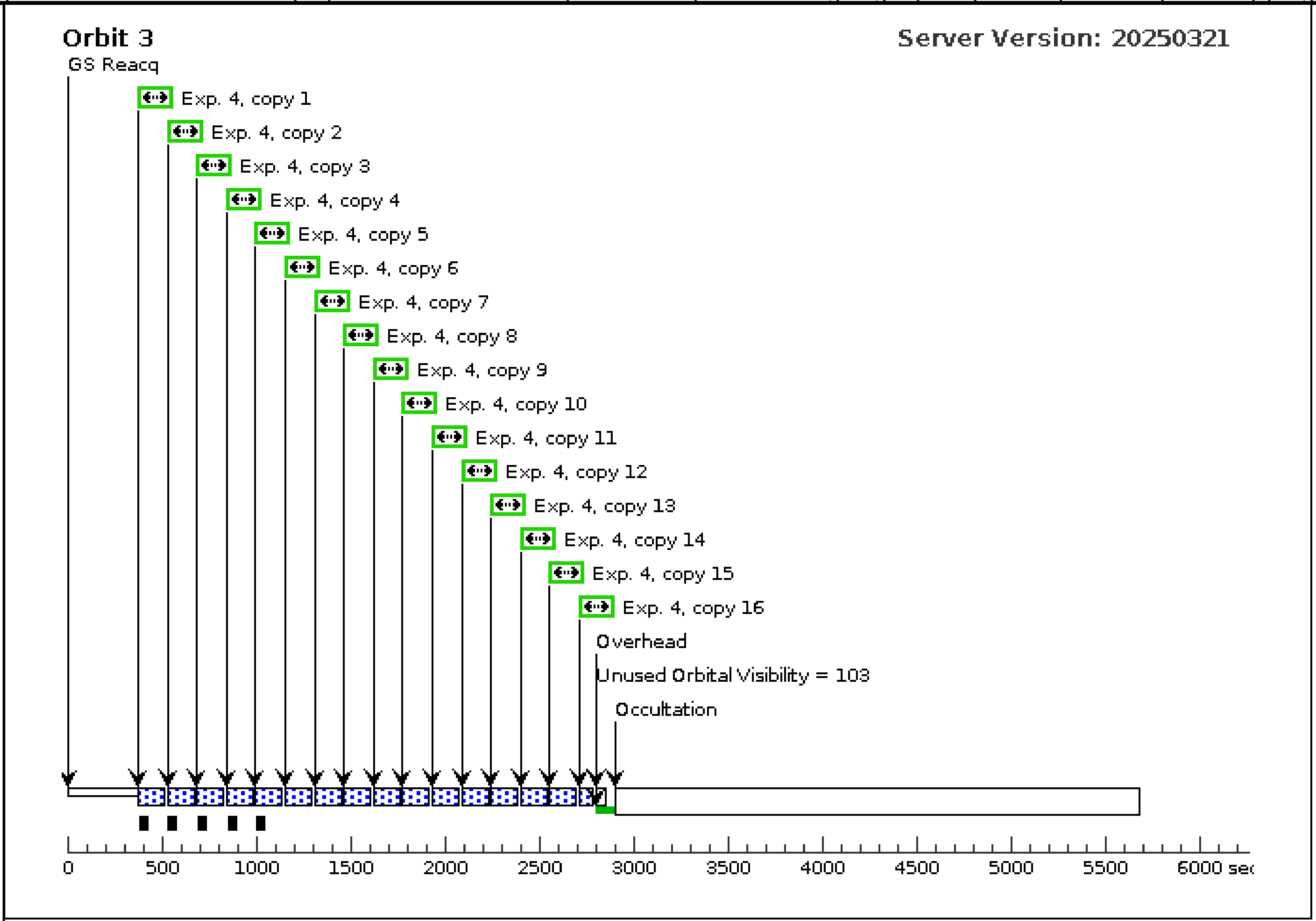
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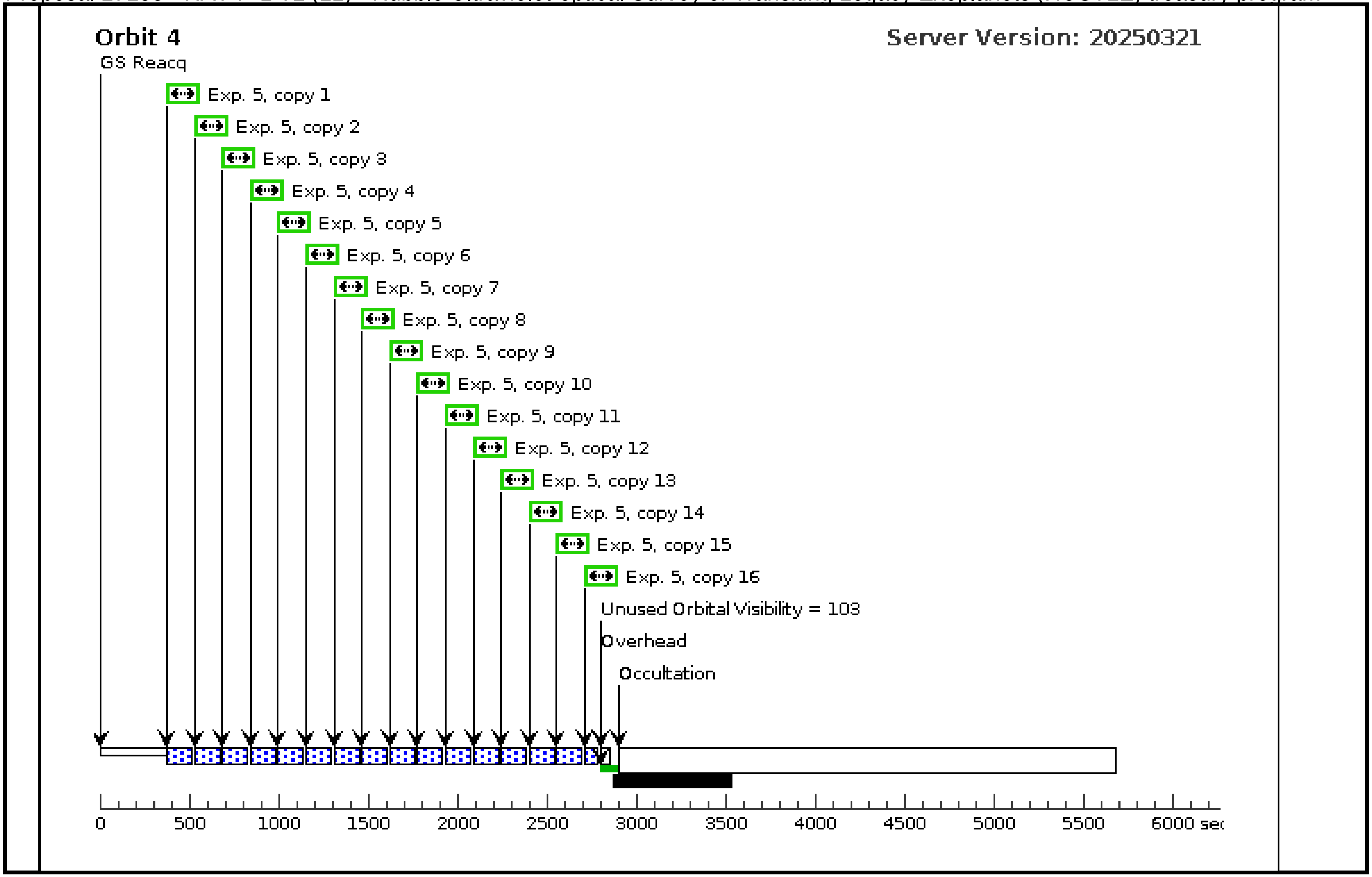
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Exp. 5, copy 2
Exp. 5, copy 3
Exp. 5, copy 4
Exp. 5, copy 5
Exp. 5, copy 6
Exp. 5, copy 7
Exp. 5, copy 8
Exp. 5, copy 9
Exp. 5, copy 10
Exp. 5, copy 11
Exp. 5, copy 12
Exp. 5, copy 13
Exp. 5, copy 14
Exp. 5, copy 15
Exp. 5, copy 16
Unused Orbital Visibility = 103
Overhead
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17183, WASP-127 T1 (12), completed Mon Jun 30 20:01:53 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 332D TO 43 D; ORIENT 148D TO 255 D; Period 4.17806203 D AND ZERO-PHASE HJD2457248.741276

Comments: SIZEAXIS set to maximize data volume.
Based on ETC calculations with Castelli-Kurucz Models G2V 5750 4.5 at V mag = 10.2
G280 time to saturation = 103.19s
Orient contraints used to limit spectral overlap from two nearby sources
Centaxis paramters set based on previous program measurements (16039, 15838, 15288).

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	WASP-127	RA: 10 42 14.1035 (160.5587646d) Dec: -03 50 6.00 (-3.83500d) Equinox: J2000	Proper Motion RA: 0.0012844762003568792 sec of time/yr Proper Motion Dec: 0.017026 arcsec/yr Epoch of Position: 2015.5	V=10.172	Reference Frame: SIMBAD

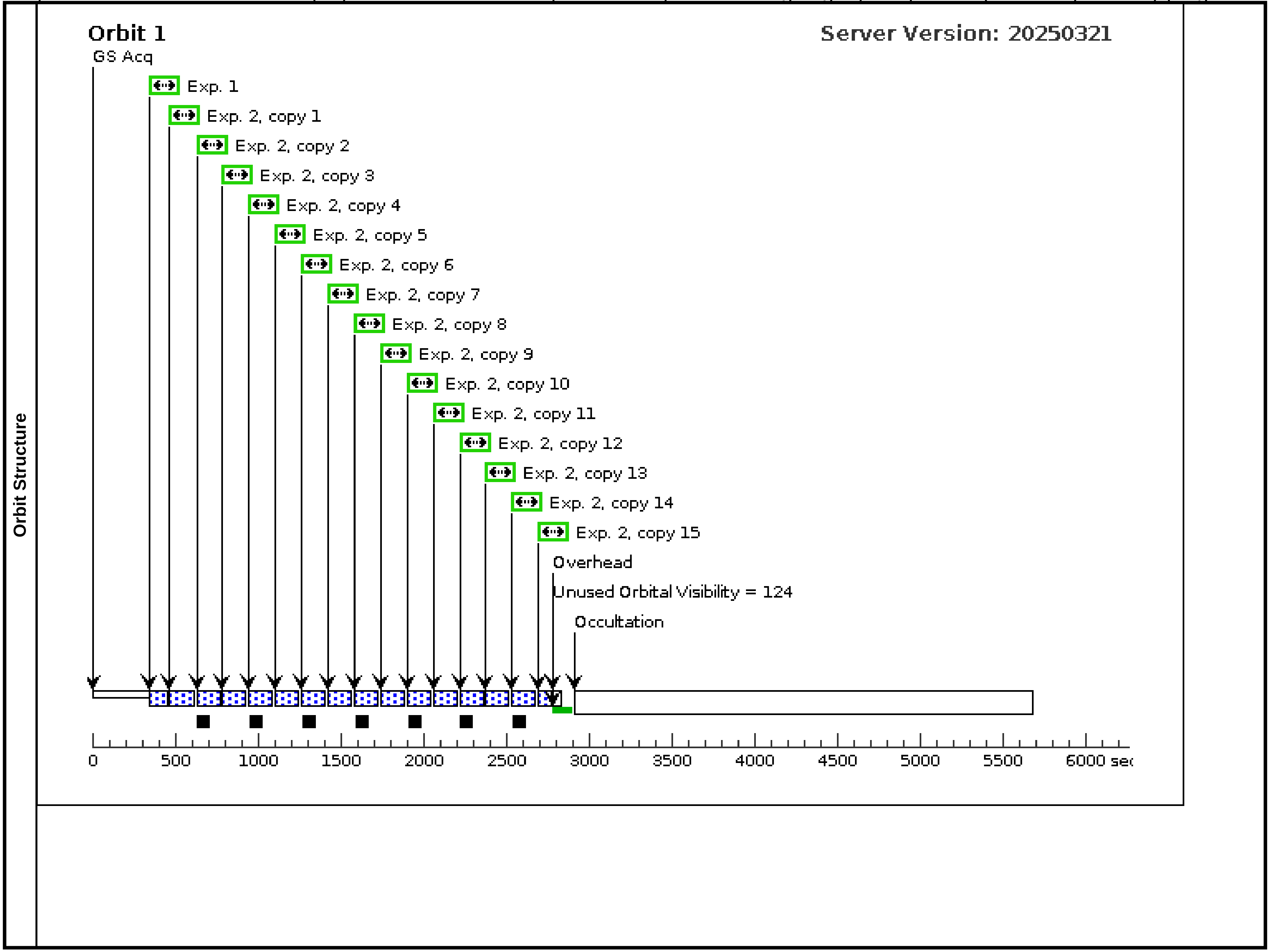
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET]
Extended=NO

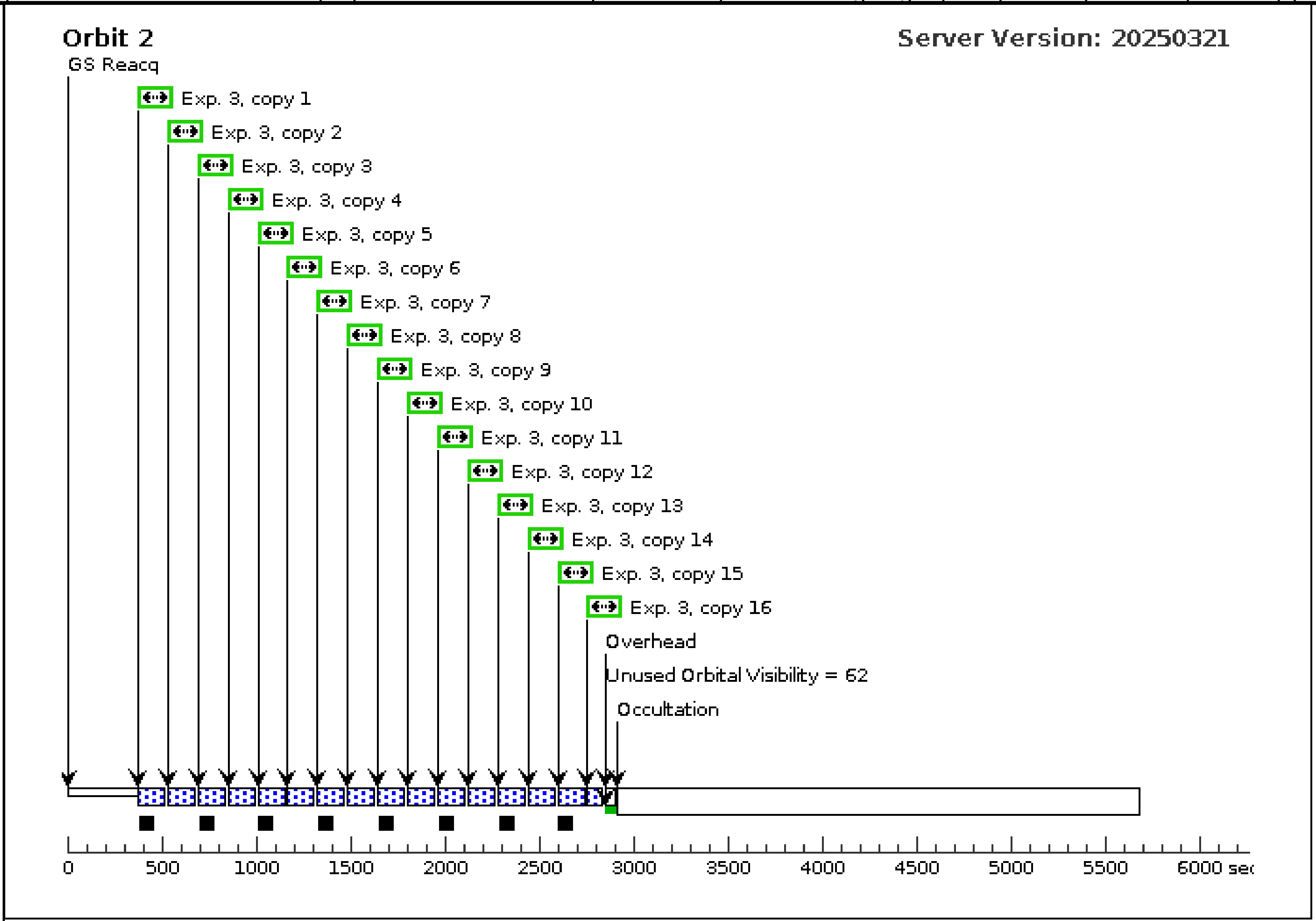
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(5) WASP-127	WFC3/UVIS, ACCUM, G280-REF	F300X	FLASH=16; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50; PHASE 0.962436066454369 TO 0.965760308361062	Sequence 1-2 Non-Int in WASP-127 T1 (12)	6 Secs (6 Secs) *[==>]*	*[1]*
2		(5) WASP-127	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=11	POS TARG null,-50	Sequence 1-2 Non-Int in WASP-127 T1 (12)	78 Secs X 15 (1170 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		(5) WASP-127	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=11	POS TARG null,-50	Sequence 3-3 Non-Int in WASP-127 T1 (12)	78 Secs X 16 (1248 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]*

	4	(5) WASP-127	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=11	POS TARG null,-50	Sequence 4-4 Non-Int in WASP-127 T1 (12)	78 Secs X 16 (1248 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	(5) WASP-127	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=11	POS TARG null,-50	Sequence 5-5 Non-Int in WASP-127 T1 (12)	78 Secs X 16 (1248 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]***

	6	(5) WASP-127	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=11	POS TARG null,-50	Sequence 6-6 Non-Int in WASP-127 T1 (12)	78 Secs X 16 (1248 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]***


Orbit Structure
Orbit 1
Server Version: 20250321
GS Acq
Exp. 1
Exp. 2, copy 1
Exp. 2, copy 2
Exp. 2, copy 3
Exp. 2, copy 4
Exp. 2, copy 5
Exp. 2, copy 6
Exp. 2, copy 7
Exp. 2, copy 8
Exp. 2, copy 9
Exp. 2, copy 10
Exp. 2, copy 11
Exp. 2, copy 12
Exp. 2, copy 13
Exp. 2, copy 14
Exp. 2, copy 15
Overhead
Unused Orbital Visibility = 124
Occultation
0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec


Orbit 2
Server Version: 20250321
GS Reacq
Exp. 3, copy 1
Exp. 3, copy 2
Exp. 3, copy 3
Exp. 3, copy 4
Exp. 3, copy 5
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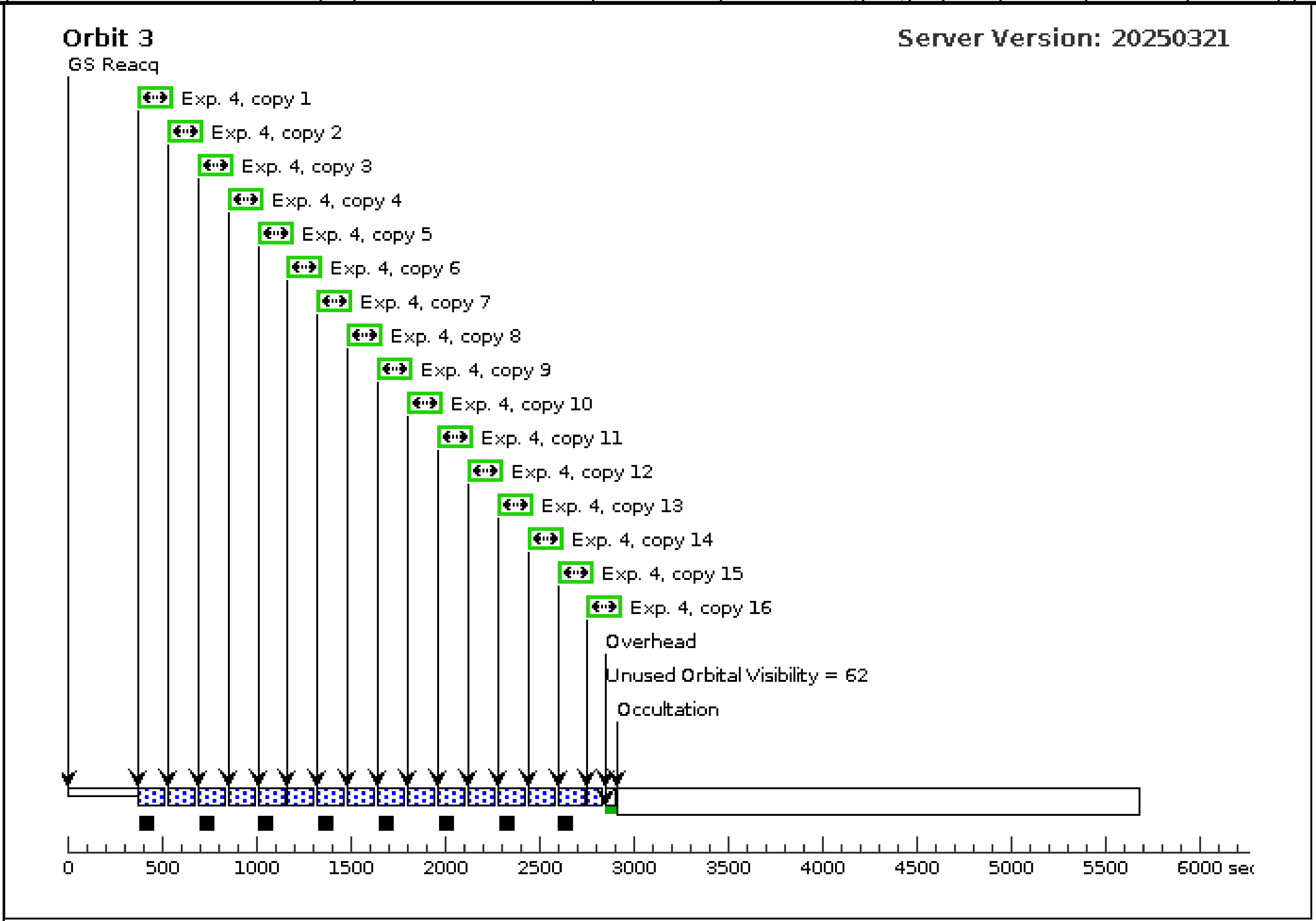
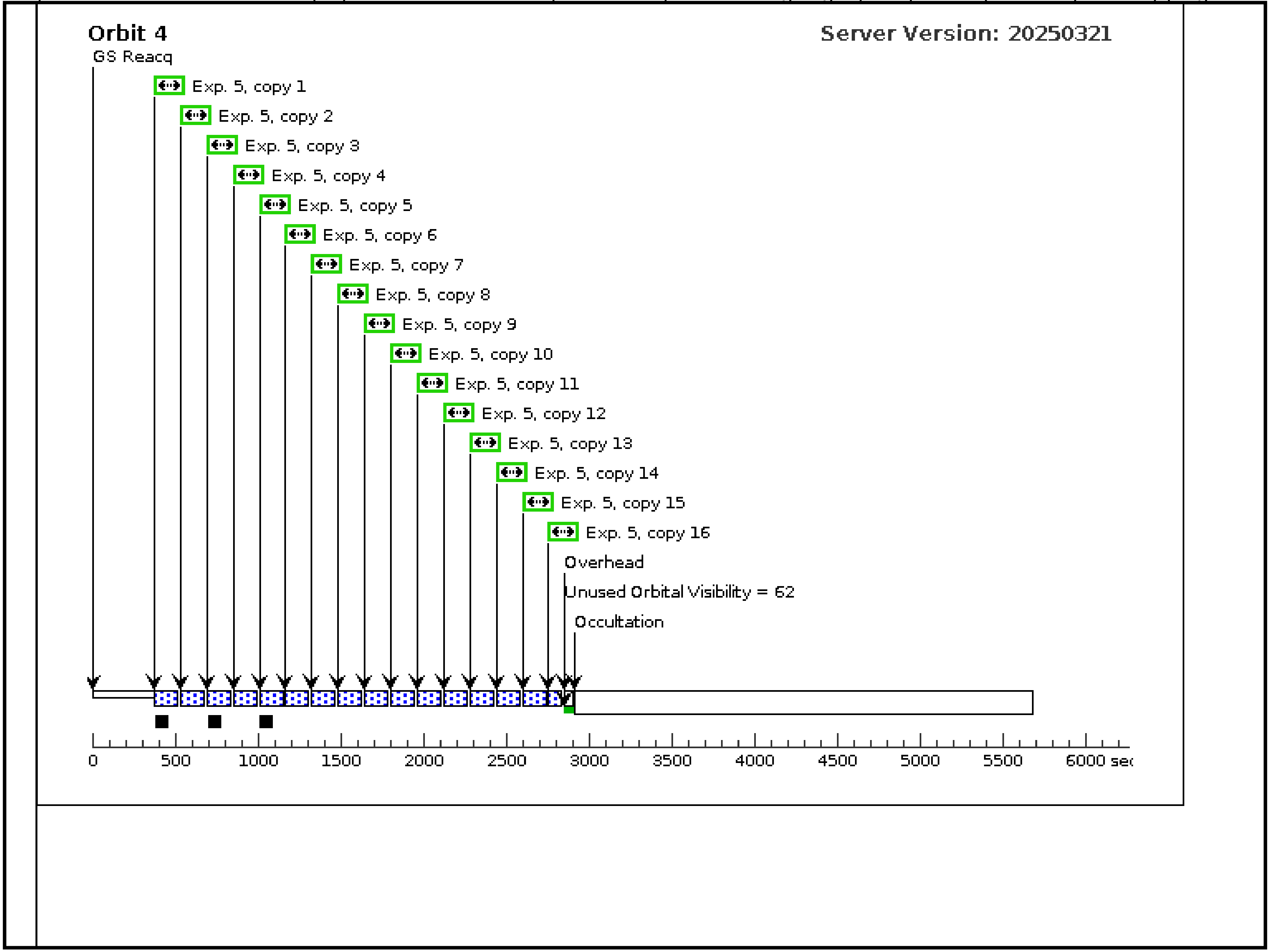
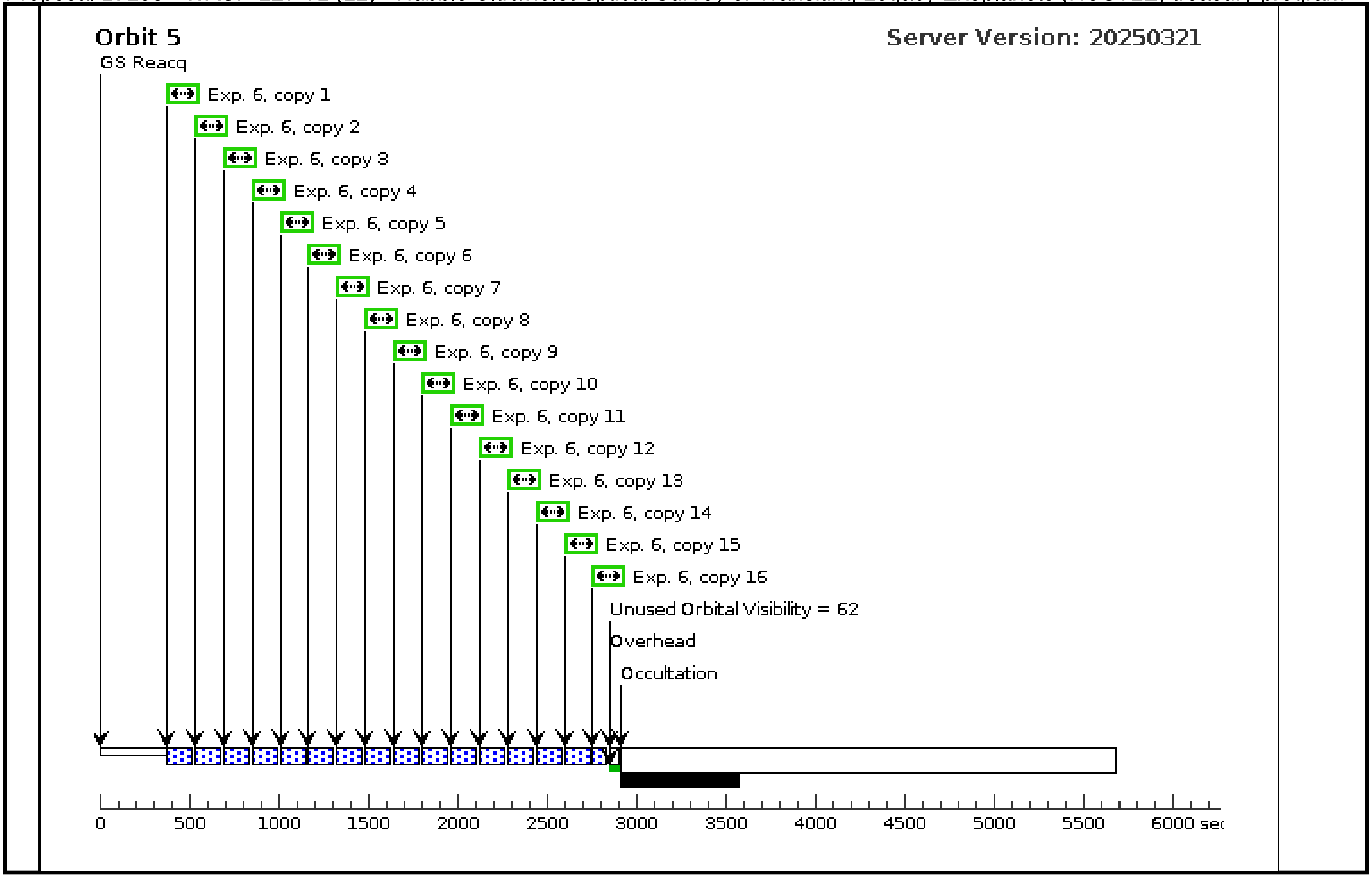
Exp. 3, copy 7
Exp. 3, copy 8
Exp. 3, copy 9
Exp. 3, copy 10
Exp. 3, copy 11
Exp. 3, copy 12
Exp. 3, copy 13
Exp. 3, copy 14
Exp. 3, copy 15
Exp. 3, copy 16
Overhead
Unused Orbital Visibility = 62
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 3
Server Version: 20250321
GS Reacq
Exp. 4, copy 1
Exp. 4, copy 2
Exp. 4, copy 3
Exp. 4, copy 4
Exp. 4, copy 5
Exp. 4, copy 6
Exp. 4, copy 7
Exp. 4, copy 8
Exp. 4, copy 9
Exp. 4, copy 10
Exp. 4, copy 11
Exp. 4, copy 12
Exp. 4, copy 13
Exp. 4, copy 14
Exp. 4, copy 15
Exp. 4, copy 16
Overhead
Unused Orbital Visibility = 62
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 4
Server Version: 20250321
GS Reacq
Exp. 5, copy 1
Exp. 5, copy 2
Exp. 5, copy 3
Exp. 5, copy 4
Exp. 5, copy 5
Exp. 5, copy 6
Exp. 5, copy 7
Exp. 5, copy 8
Exp. 5, copy 9
Exp. 5, copy 10
Exp. 5, copy 11
Exp. 5, copy 12
Exp. 5, copy 13
Exp. 5, copy 14
Exp. 5, copy 15
Exp. 5, copy 16
Overhead
Unused Orbital Visibility = 62
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 5
Server Version: 20250321
GS Reacq
Exp. 6, copy 1
Exp. 6, copy 2
Exp. 6, copy 3
Exp. 6, copy 4
Exp. 6, copy 5
Exp. 6, copy 6
Exp. 6, copy 7
Exp. 6, copy 8
Exp. 6, copy 9
Exp. 6, copy 10
Exp. 6, copy 11
Exp. 6, copy 12
Exp. 6, copy 13
Exp. 6, copy 14
Exp. 6, copy 15
Exp. 6, copy 16
Unused Orbital Visibility = 62
Overhead
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17183, WASP-63 T1 (13), failed Mon Jun 30 20:01:53 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; Period 4.37808 D AND ZERO-PHASE HJD2455921.653590

Comments: SIZEAXIS2 set to maximize data volume.
Based on ETC calculations with Castelli-Kurucz Models G8V 5500 4.5 at V mag = 11.2
G280 time to saturation = 270.25s
No known nearby sources to avoid
Centaxis paramters set based on previous program measurements (16039, 15838, 15288).
WASP-63 T1, T2, and T3 are all conducted with the same set-up

Diagnostics

(WASP-63 T1 (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(WASP-63 T1 (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(WASP-63 T1 (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(WASP-63 T1 (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(WASP-63 T1 (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	WASP-63	RA: 06 17 20.7485 (94.3364521d) Dec: -38 19 23.75 (-38.32326d) Equinox: J2000	Proper Motion RA: -0.001492031182100608 sec of time/yr Proper Motion Dec: -0.027297000065118482 arcsec/yr Epoch of Position: 2015.5	V=11.15	Reference Frame: SIMBAD

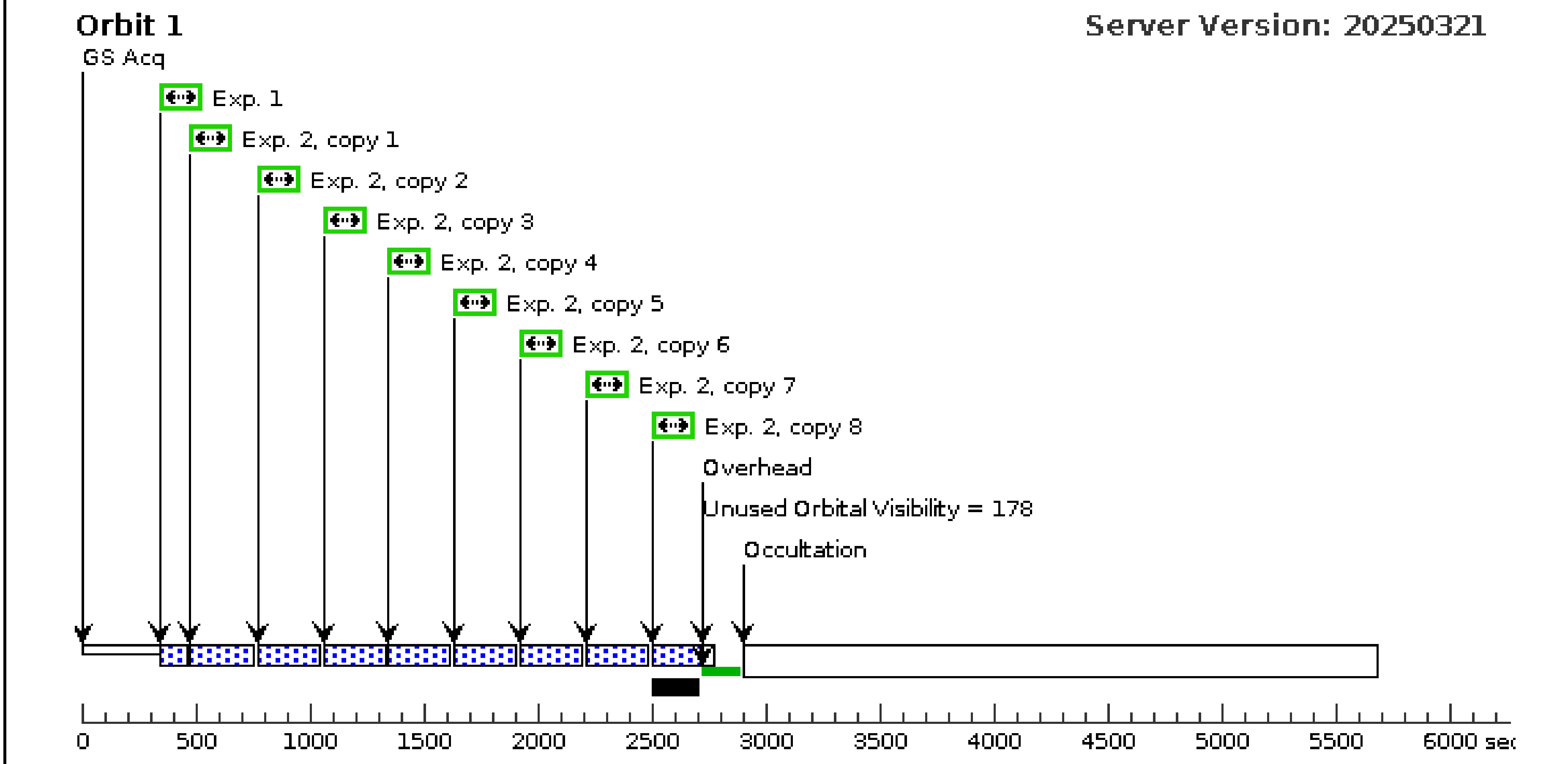
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANETARY SYSTEM]
Extended=NO

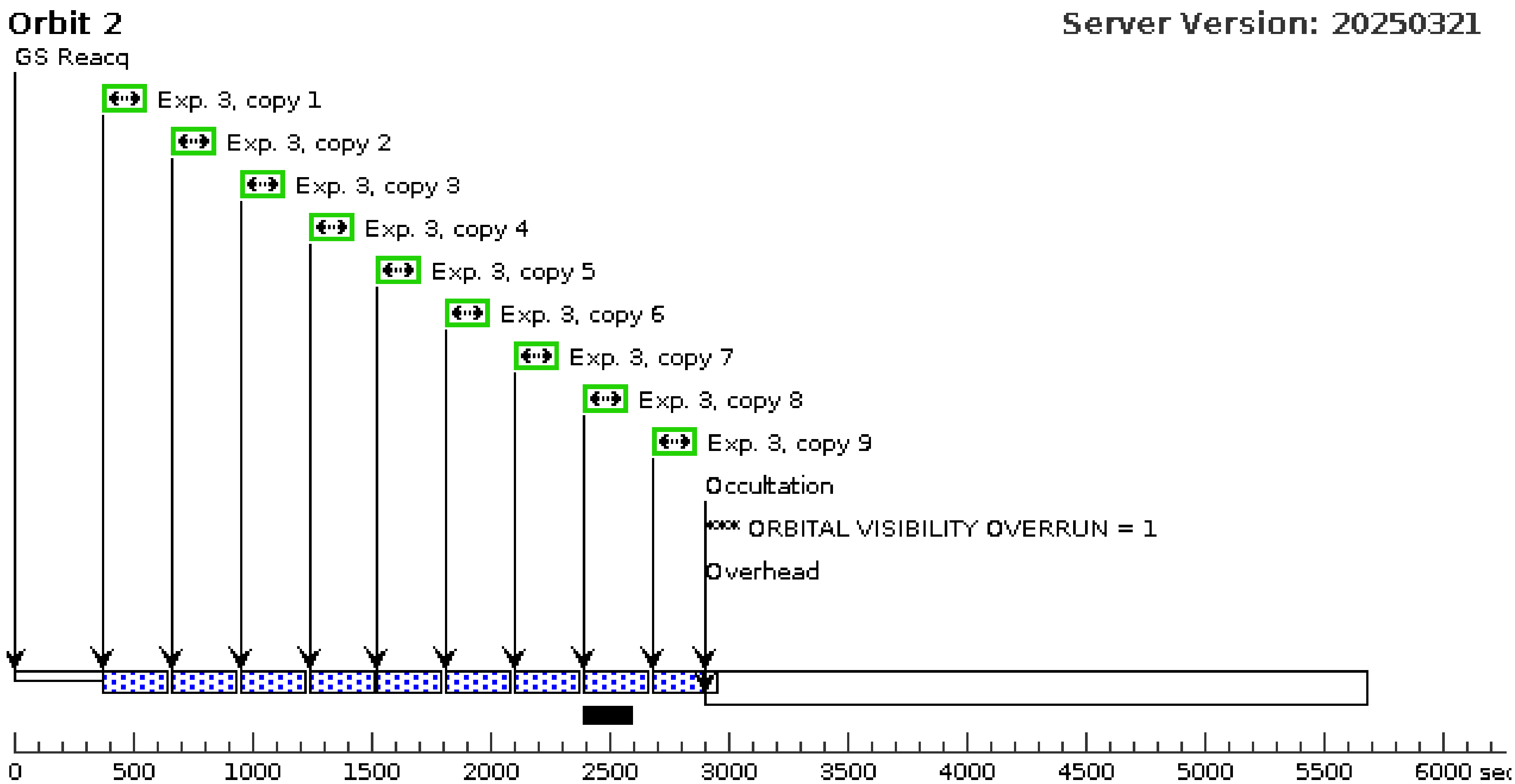
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(6) WASP-63	WFC3/UVIS, ACCUM, G280-REF	F300X	FLASH=16; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50; PHASE 0.956538533380436 TO 0.959710903206682	Sequence 1-2 Non-Int in WASP-63 T1 (13)	20 Secs (20 Secs) *[==>]*	*[1]*
2		(6) WASP-63	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=1	POS TARG null,-50	Sequence 1-2 Non-Int in WASP-63 T1 (13)	215 Secs X 8 (1720 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	*[1]*
3		(6) WASP-63	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=1	POS TARG null,-50	Sequence 3-3 Non-Int in WASP-63 T1 (13)	215 Secs X 9 (1935 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]*	*[2]*
4		(6) WASP-63	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=1	POS TARG null,-50	Sequence 4-4 Non-Int in WASP-63 T1 (13)	215 Secs X 9 (1935 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]*	*[3]*

	5	(6) WASP-63	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=1	POS TARG null,-50	Sequence 5-5 Non-Int in WASP-63 T1 (13)	215 Secs X 9 (1935 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]*	***[4]***
	6	(6) WASP-63	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=1	POS TARG null,-50	Sequence 6-6 Non-Int in WASP-63 T1 (13)	215 Secs X 9 (1935 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]*	***[5]***
	7	(6) WASP-63	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=1	POS TARG null,-50	Sequence 7-7 Non-Int in WASP-63 T1 (13)	215 Secs X 9 (1935 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]*	***[6]***

Orbit Structure

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GS Reacq
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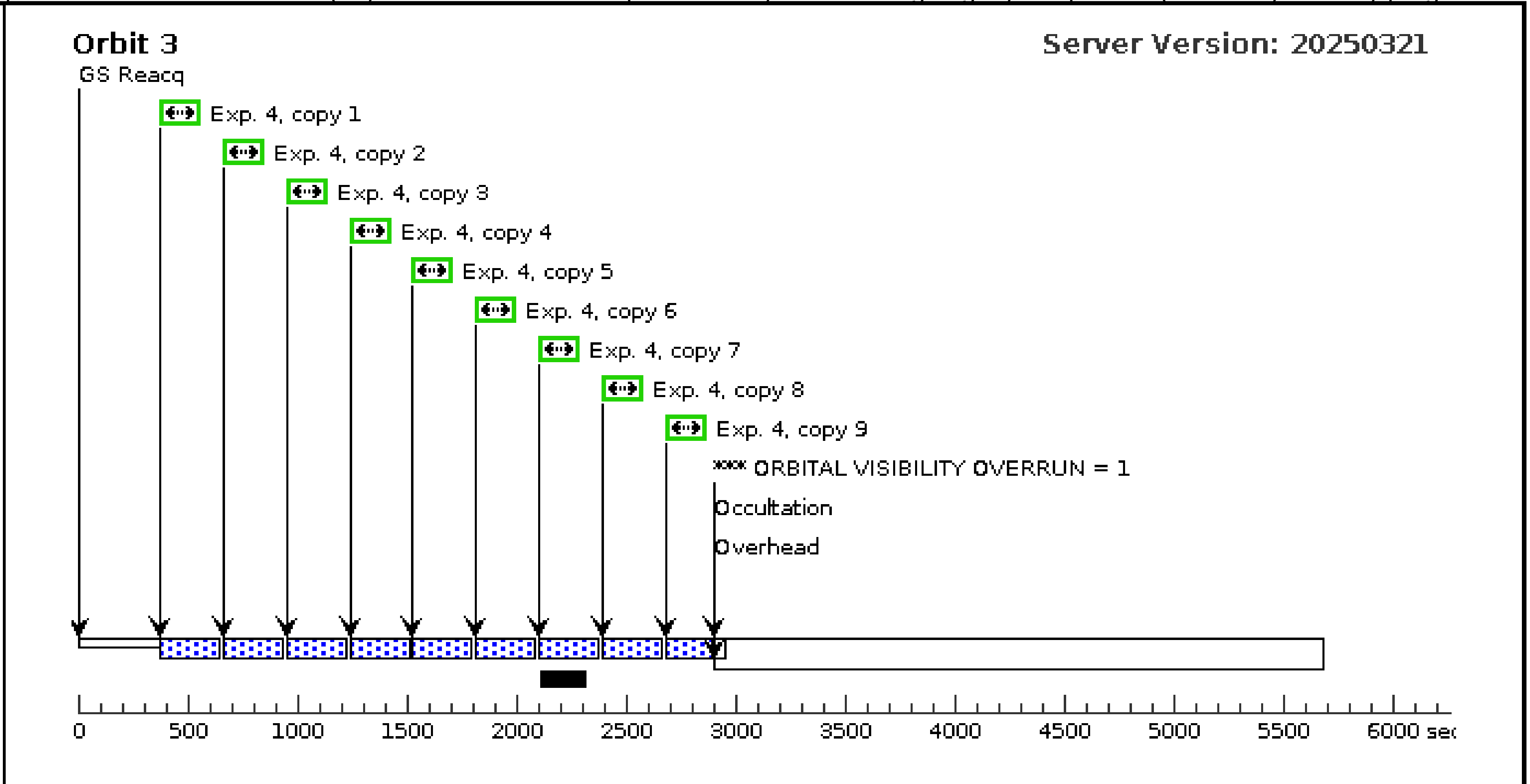
Exp. 3, copy 2
Exp. 3, copy 3
Exp. 3, copy 4
Exp. 3, copy 5
Exp. 3, copy 6
Exp. 3, copy 7
Exp. 3, copy 8
Exp. 3, copy 9
Occultation
*** ORBITAL VISIBILITY OVERRUN = 1
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 3
Server Version: 20250321
GS Reacq
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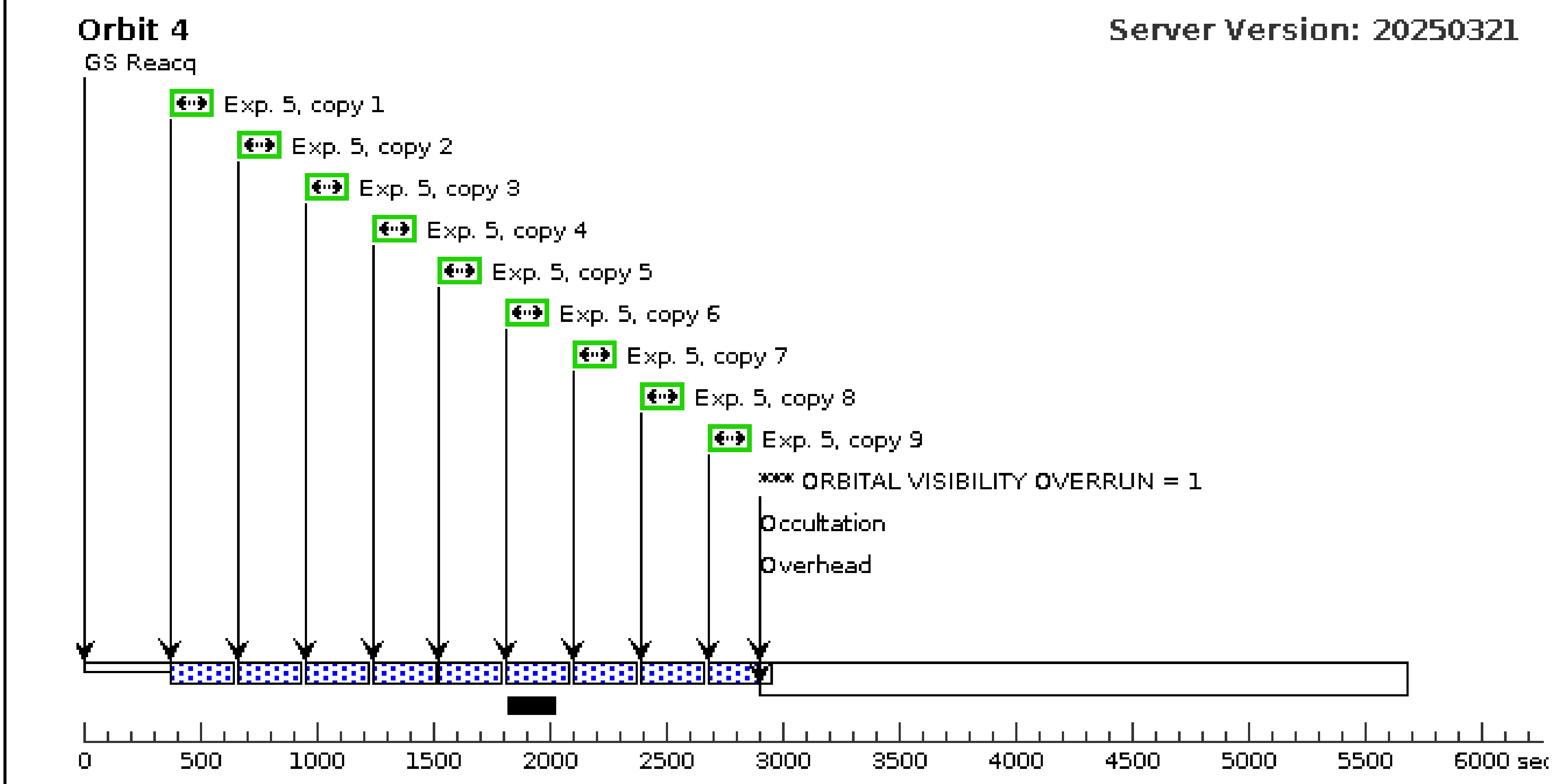
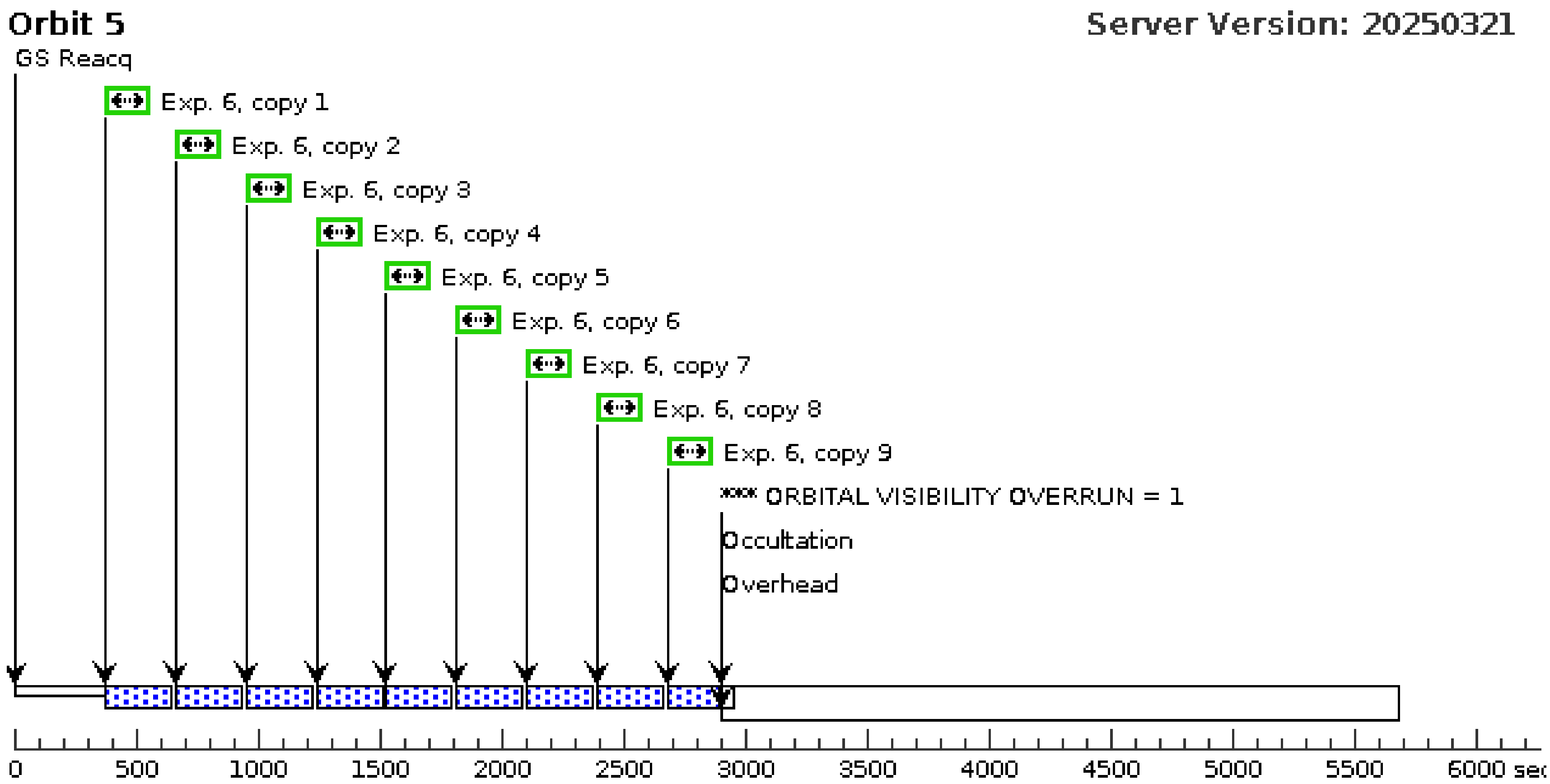
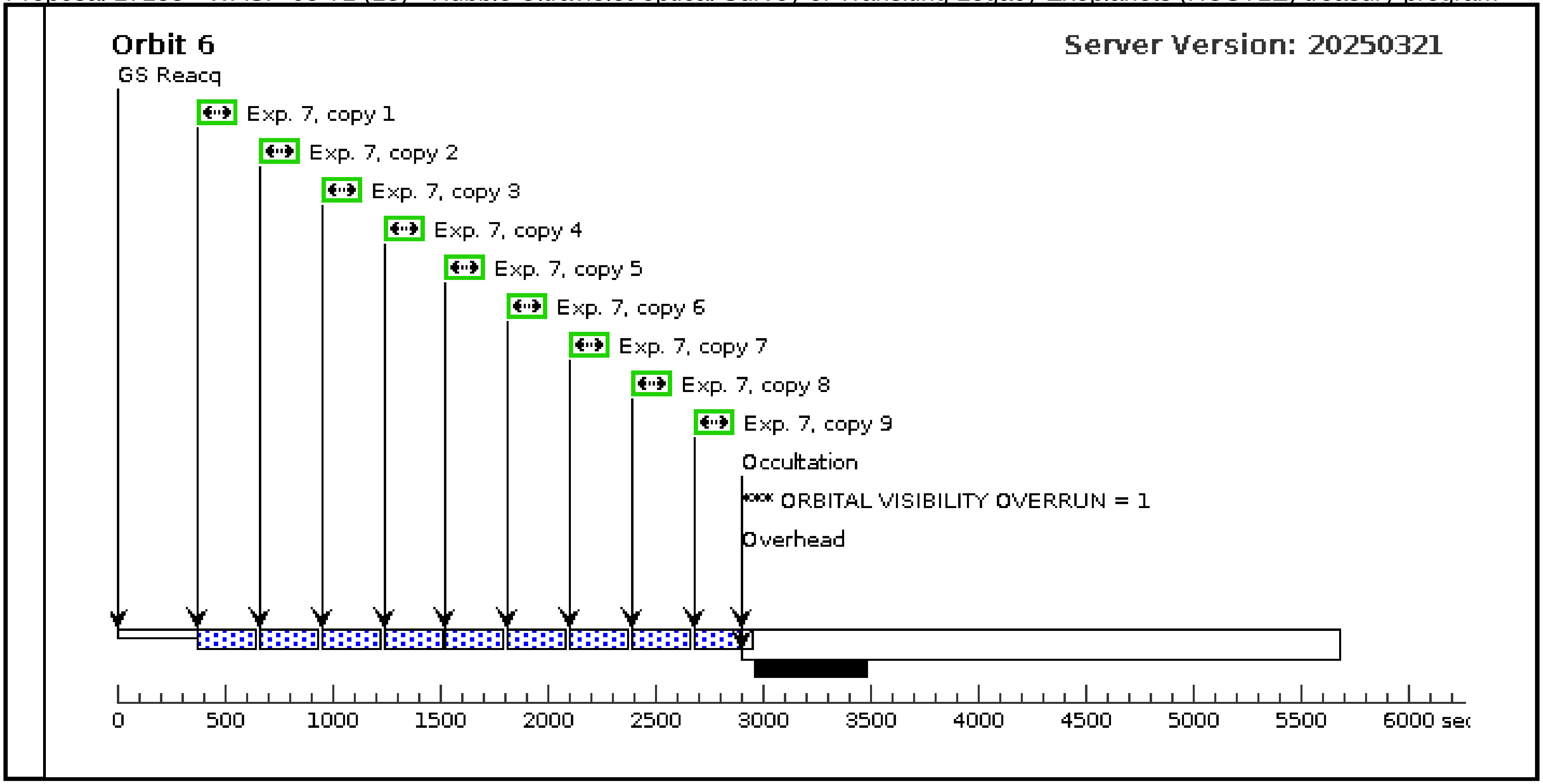
Exp. 4, copy 2
Exp. 4, copy 3
Exp. 4, copy 4
Exp. 4, copy 5
Exp. 4, copy 6
Exp. 4, copy 7
Exp. 4, copy 8
Exp. 4, copy 9
*** ORBITAL VISIBILITY OVERRUN = 1
Occultation
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec



Orbit 4
Server Version: 20250321
GS Reacq
Exp. 5, copy 1
Exp. 5, copy 2
Exp. 5, copy 3
Exp. 5, copy 4
Exp. 5, copy 5
Exp. 5, copy 6
Exp. 5, copy 7
Exp. 5, copy 8
Exp. 5, copy 9
*** ORBITAL VISIBILITY OVERRUN = 1
Occultation
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 5
Server Version: 20250321
GS Reacq
Exp. 6, copy 1
Exp. 6, copy 2
Exp. 6, copy 3
Exp. 6, copy 4
Exp. 6, copy 5
Exp. 6, copy 6
Exp. 6, copy 7
Exp. 6, copy 8
Exp. 6, copy 9
*** ORBITAL VISIBILITY OVERRUN = 1
Occultation
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 6
Server Version: 20250321
GS Reacq
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Exp. 7, copy 2
Exp. 7, copy 3
Exp. 7, copy 4
Exp. 7, copy 5
Exp. 7, copy 6
Exp. 7, copy 7
Exp. 7, copy 8
Exp. 7, copy 9
Occultation
*** ORBITAL VISIBILITY OVERRUN = 1
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17183, WASP-63 T2 (14), completed Mon Jun 30 20:01:53 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; Period 4.37808 D AND ZERO-PHASE HJD2455921.653590

Comments: SIZEAXIS2 set to maximize data volume.
Based on ETC calculations with Castelli-Kurucz Models G8V 5500 4.5 at V mag = 11.2
G280 time to saturation = 270.25s
No known nearby sources to avoid
Centaxis paramters set based on previous program measurements (16039, 15838, 15288).
WASP-63 T1, T2, and T3 are all conducted with the same set-up

Diagnostics

(WASP-63 T2 (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(WASP-63 T2 (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(WASP-63 T2 (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(WASP-63 T2 (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(WASP-63 T2 (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	WASP-63	RA: 06 17 20.7485 (94.3364521d) Dec: -38 19 23.75 (-38.32326d) Equinox: J2000	Proper Motion RA: -0.001492031182100608 sec of time/yr Proper Motion Dec: -0.027297000065118482 arcsec/yr Epoch of Position: 2015.5	V=11.15	Reference Frame: SIMBAD

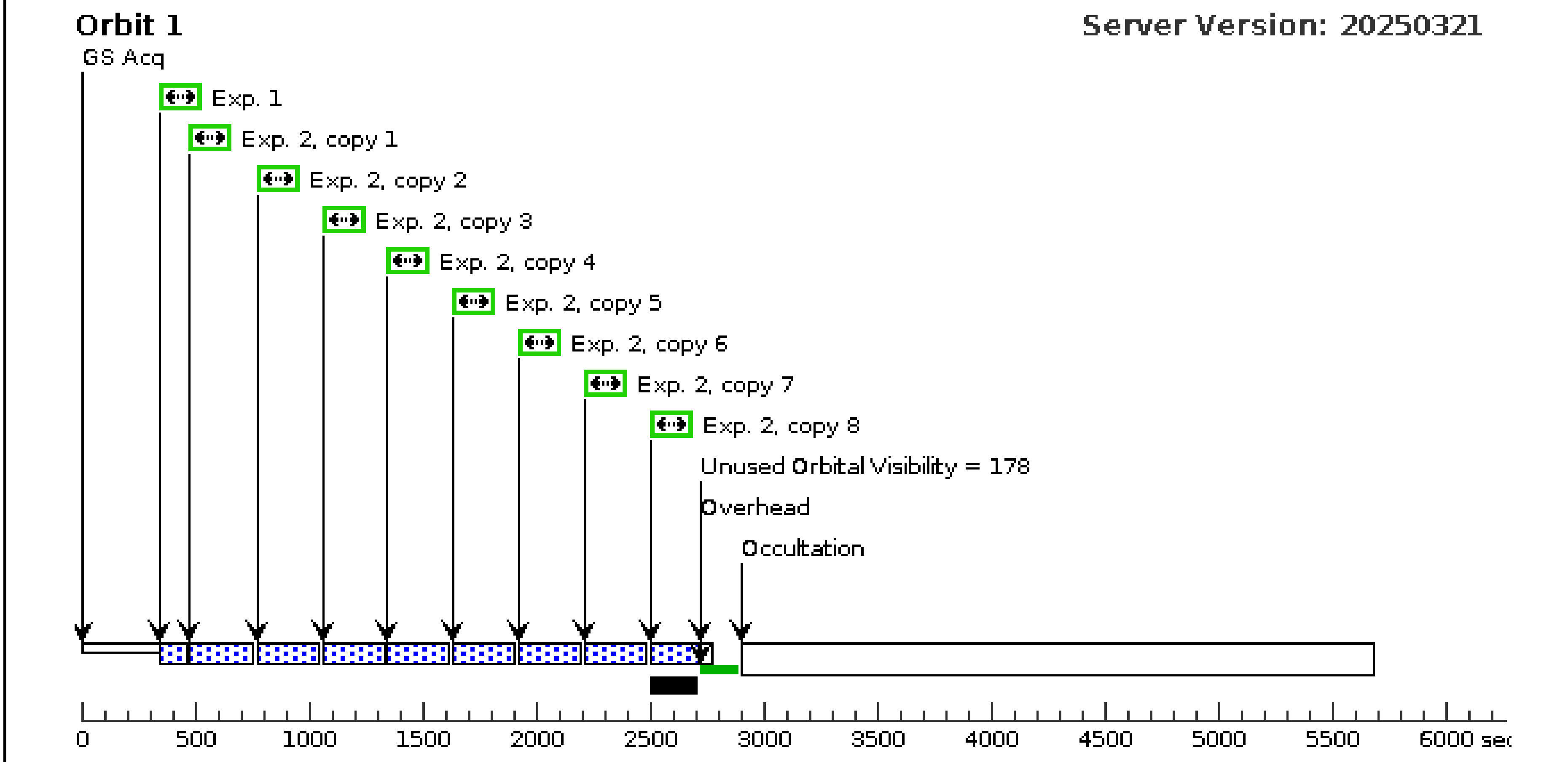
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANETARY SYSTEM]
Extended=NO

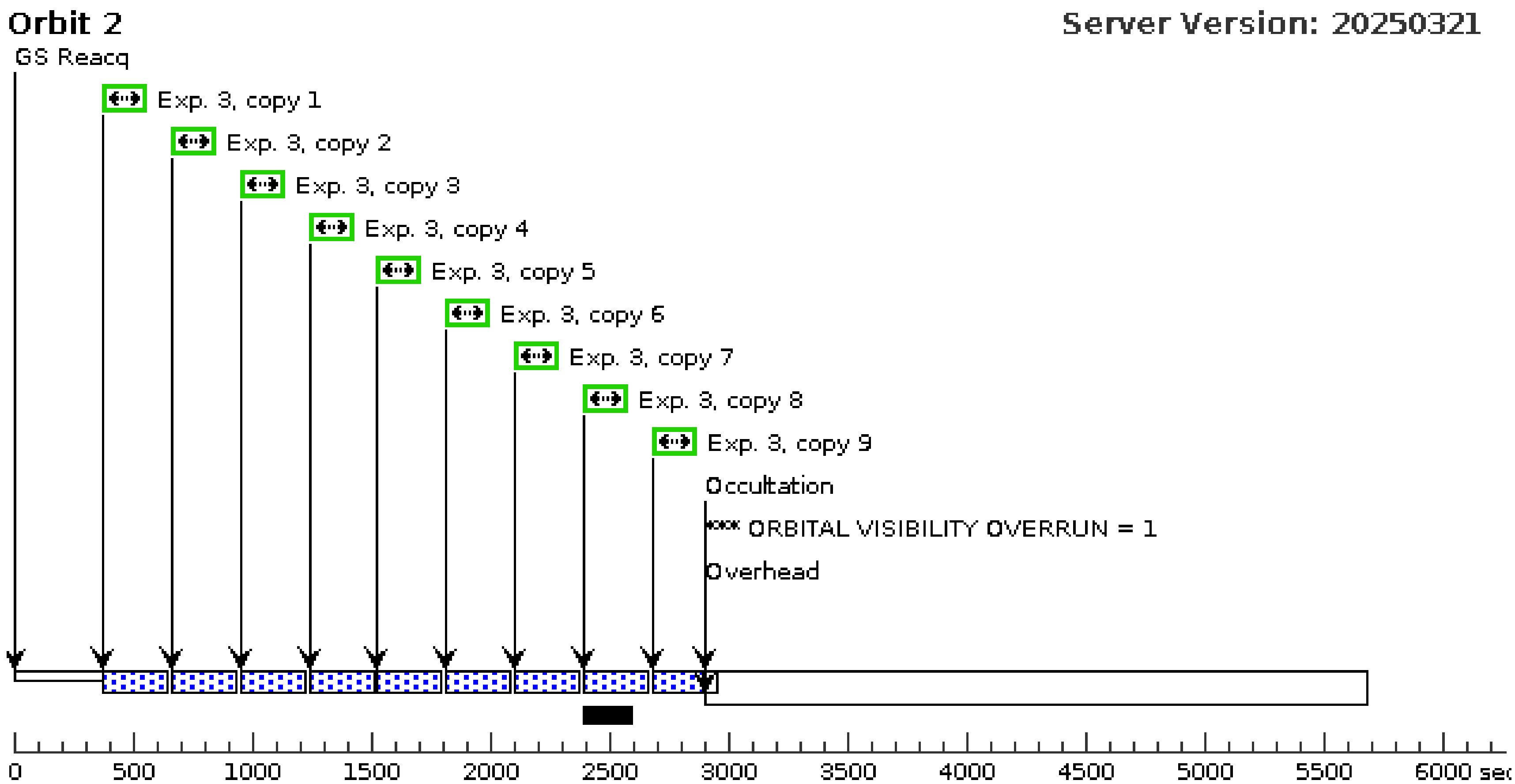
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(6) WASP-63	WFC3/UVIS, ACCUM, G280-REF	F300X	FLASH=16; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50; PHASE 0.956538533380436 TO 0.959710903206682	Sequence 1-2 Non-Int in WASP-63 T2 (14)	20 Secs (20 Secs) *[==>]*	*[1]*
2		(6) WASP-63	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=1	POS TARG null,-50	Sequence 1-2 Non-Int in WASP-63 T2 (14)	215 Secs X 8 (1720 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	*[1]*
3		(6) WASP-63	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=1	POS TARG null,-50	Sequence 3-3 Non-Int in WASP-63 T2 (14)	215 Secs X 9 (1935 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]*	*[2]*
4		(6) WASP-63	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=1	POS TARG null,-50	Sequence 4-4 Non-Int in WASP-63 T2 (14)	215 Secs X 9 (1935 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]*	*[3]*

	5	(6) WASP-63	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=1	POS TARG null,-50	Sequence 5-5 Non-Int in WASP-63 T2 (14)	215 Secs X 9 (1935 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]*	***[4]***
	6	(6) WASP-63	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=1	POS TARG null,-50	Sequence 6-6 Non-Int in WASP-63 T2 (14)	215 Secs X 9 (1935 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]*	***[5]***
	7	(6) WASP-63	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=1	POS TARG null,-50	Sequence 7-7 Non-Int in WASP-63 T2 (14)	215 Secs X 9 (1935 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]*	***[6]***

Orbit Structure

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Exp. 3, copy 8
Exp. 3, copy 9
Occultation
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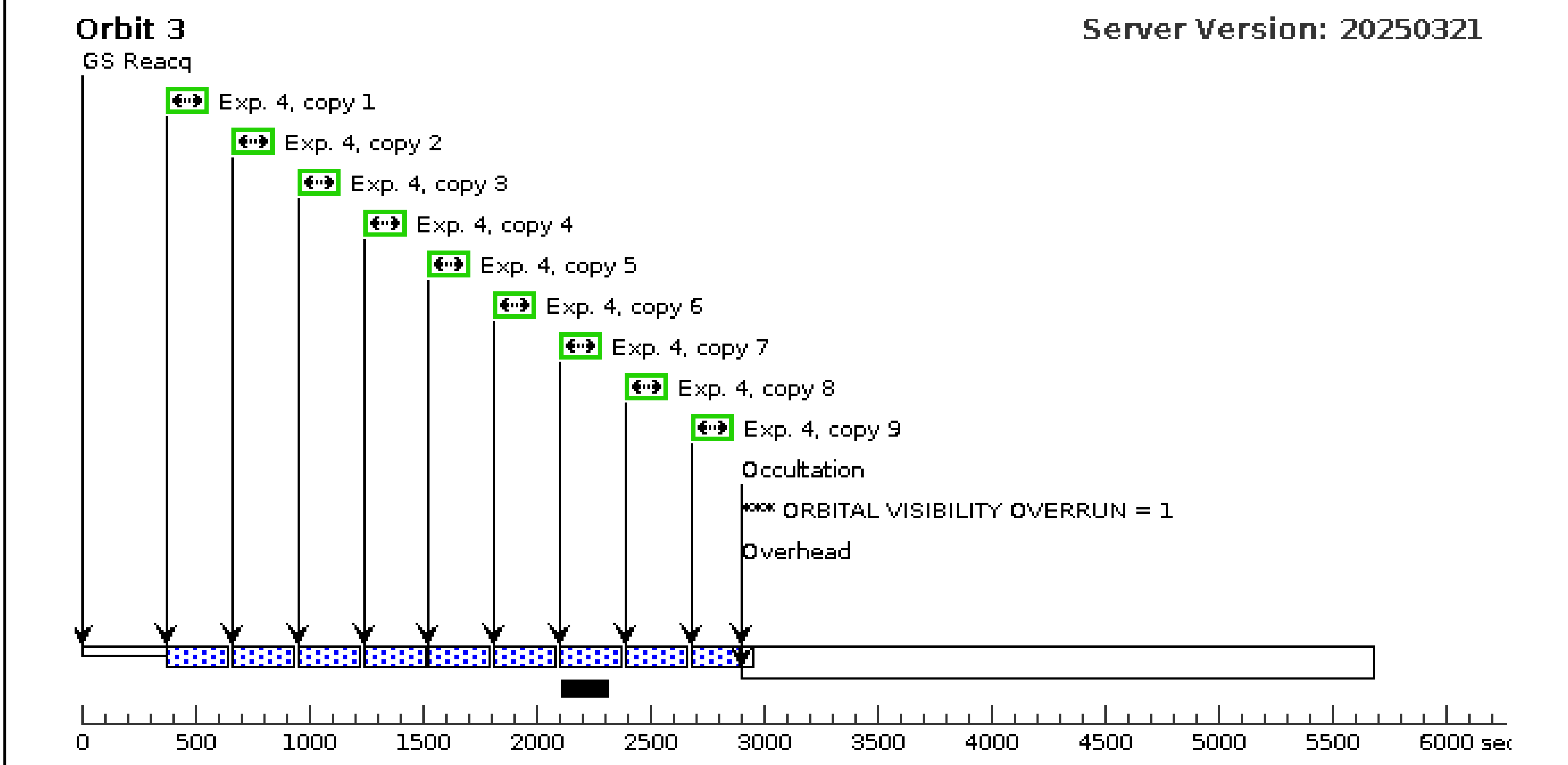
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Occultation
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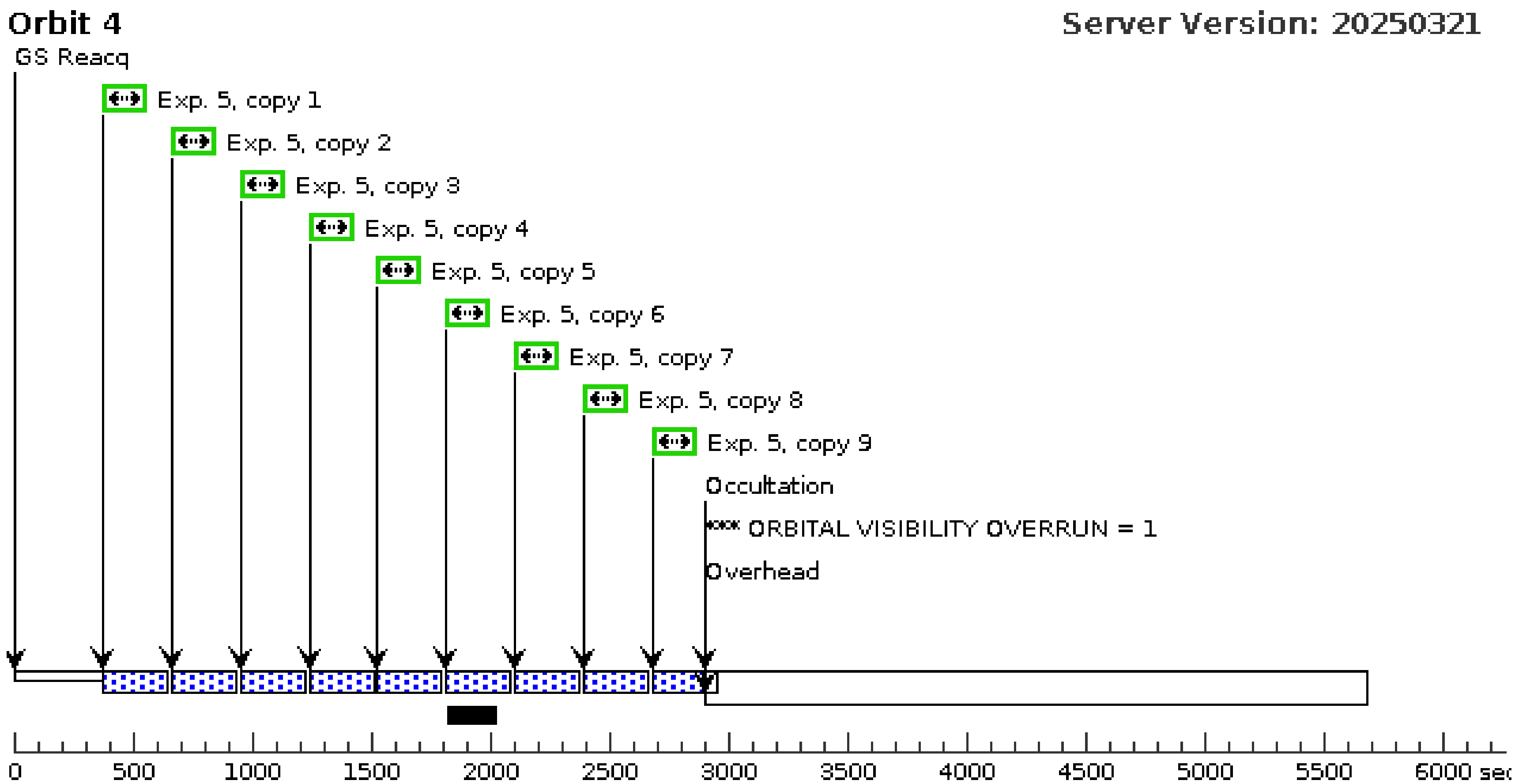
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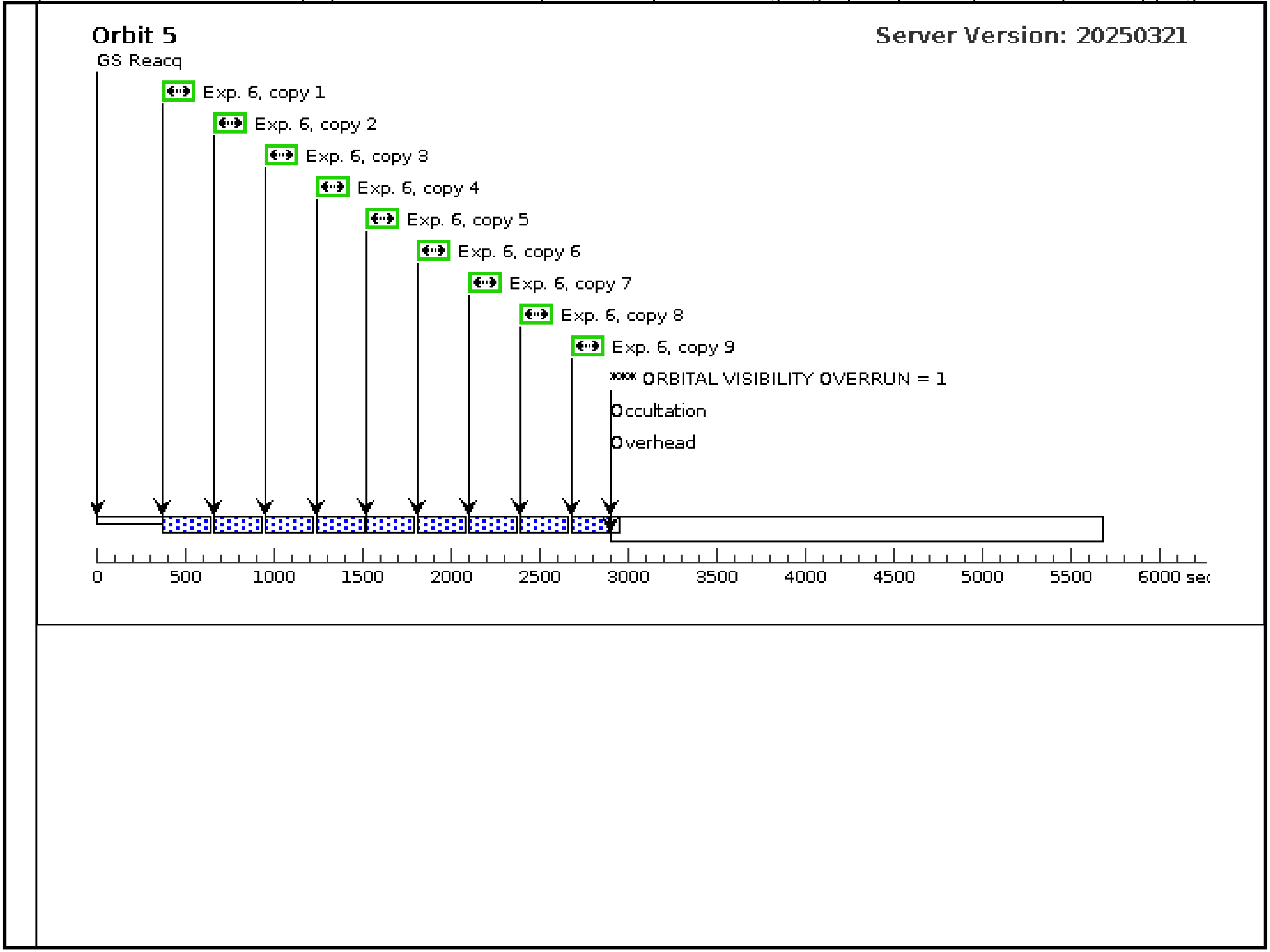
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Exp. 6, copy 9
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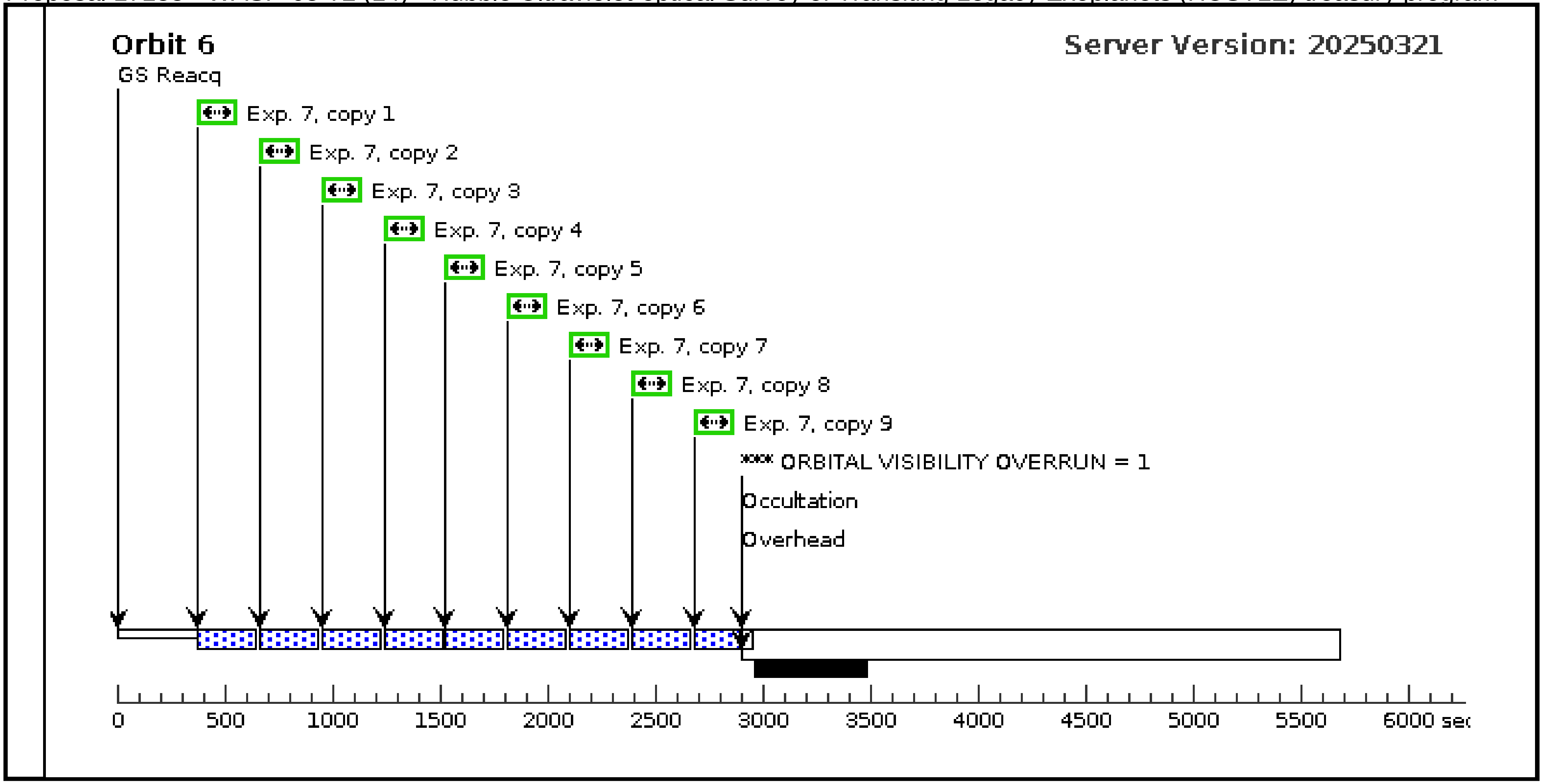
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*** ORBITAL VISIBILITY OVERRUN = 1
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6000 sec

Visit

Proposal 17183, WASP-63 T3 (15), completed Mon Jun 30 20:01:53 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; Period 4.37808 D AND ZERO-PHASE HJD2455921.653590

Comments: SIZEAXIS2 set to maximize data volume.
Based on ETC calculations with Castelli-Kurucz Models G8V 5500 4.5 at V mag = 11.2
G280 time to saturation = 270.25s
No known nearby sources to avoid
Centaxis paramters set based on previous program measurements (16039, 15838, 15288).
WASP-63 T1, T2, and T3 are all conducted with the same set-up

Diagnostics

(WASP-63 T3 (15)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(WASP-63 T3 (15)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(WASP-63 T3 (15)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(WASP-63 T3 (15)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(WASP-63 T3 (15)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	WASP-63	RA: 06 17 20.7485 (94.3364521d) Dec: -38 19 23.75 (-38.32326d) Equinox: J2000	Proper Motion RA: -0.001492031182100608 sec of time/yr Proper Motion Dec: -0.027297000065118482 arcsec/yr Epoch of Position: 2015.5	V=11.15	Reference Frame: SIMBAD

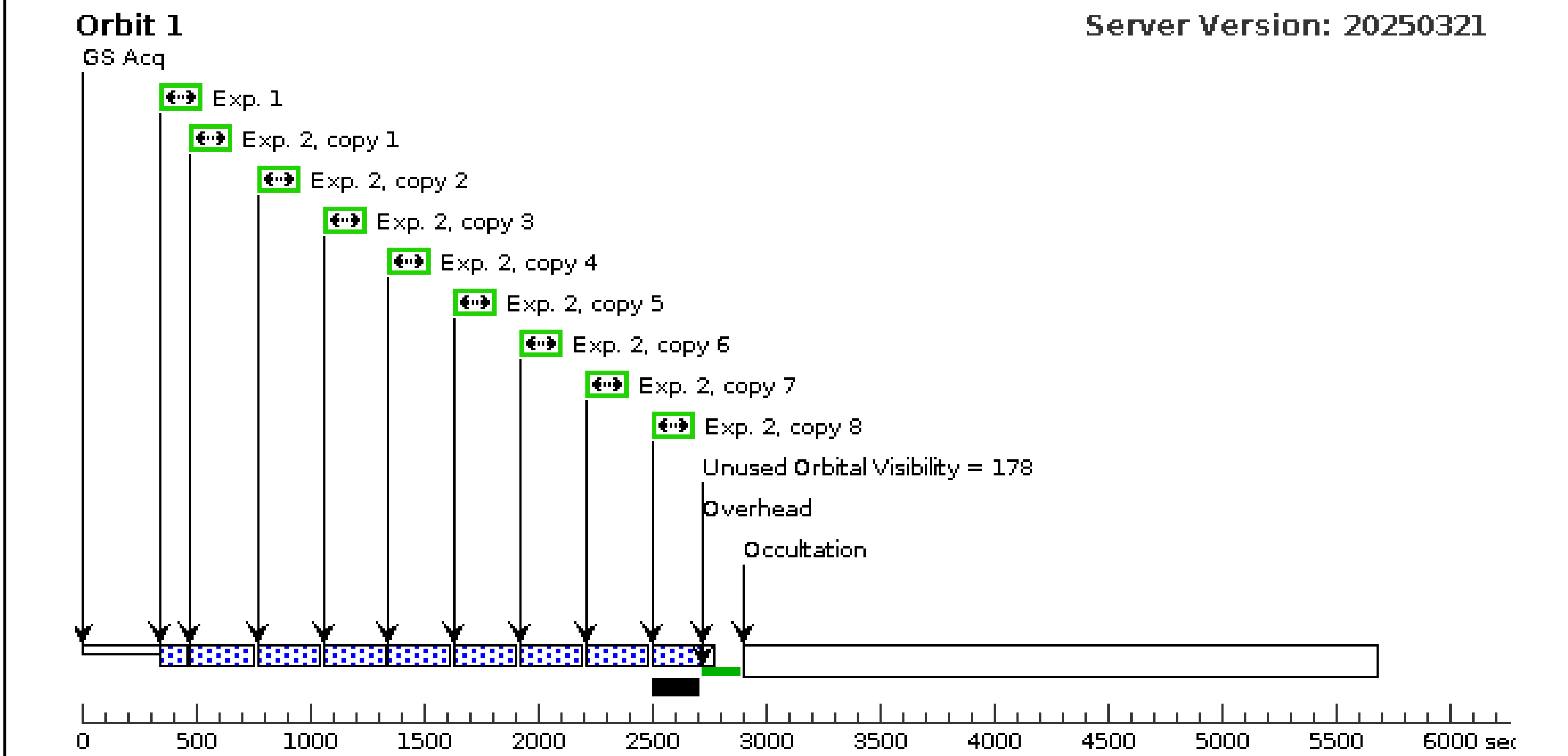
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANETARY SYSTEM]
Extended=NO

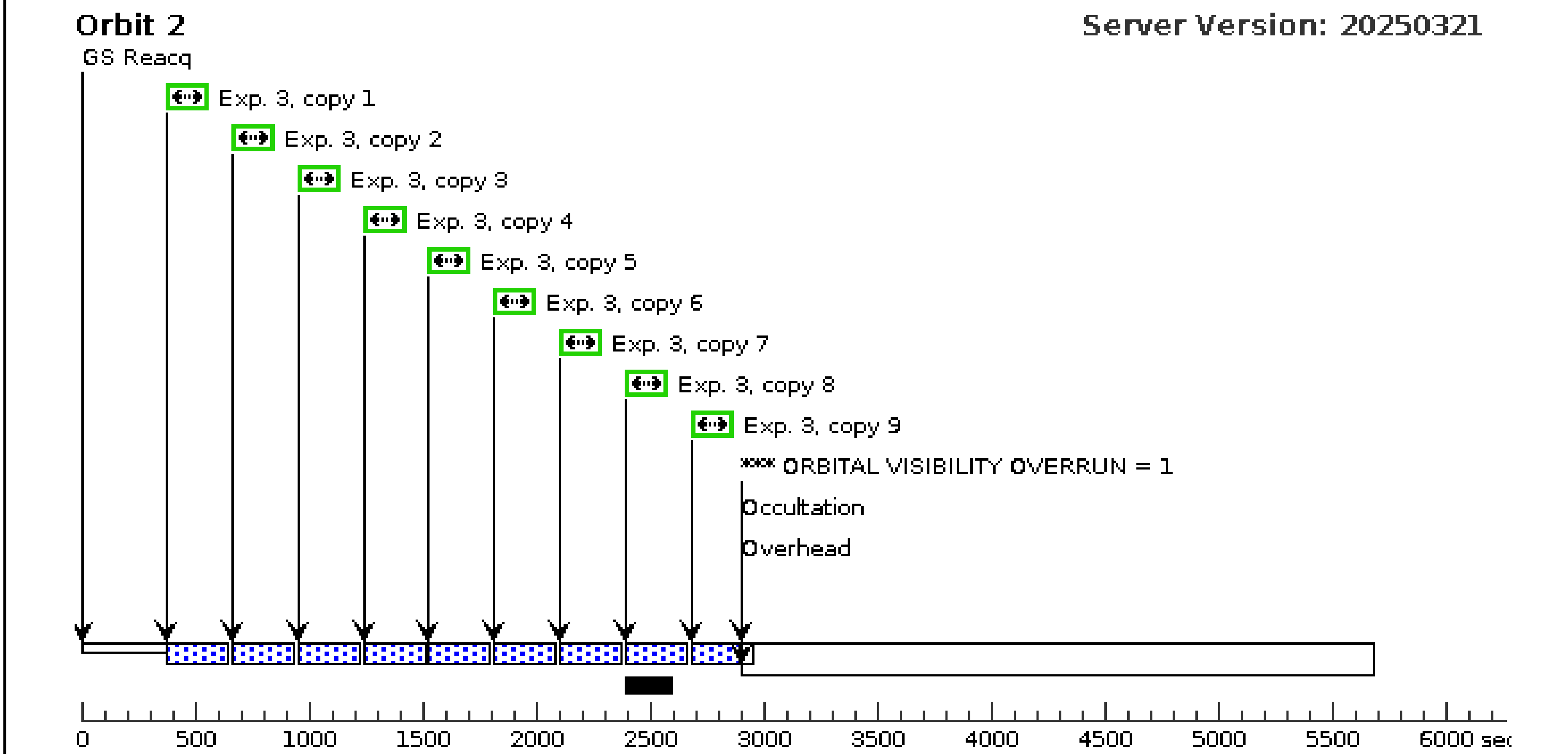
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(6) WASP-63	WFC3/UVIS, ACCUM, G280-REF	F300X	FLASH=16; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50; PHASE 0.956538533380436 TO 0.959710903206682	Sequence 1-2 Non-Int in WASP-63 T3 (15)	20 Secs (20 Secs) [==>]	[1]
2		(6) WASP-63	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=1	POS TARG null,-50	Sequence 1-2 Non-Int in WASP-63 T3 (15)	215 Secs X 8 (1720 Secs) *[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)]*	[1]
3		(6) WASP-63	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=1	POS TARG null,-50	Sequence 3-3 Non-Int in WASP-63 T3 (15)	215 Secs X 9 (1935 Secs) *[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)]*	[2]
4		(6) WASP-63	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=1	POS TARG null,-50	Sequence 4-4 Non-Int in WASP-63 T3 (15)	215 Secs X 9 (1935 Secs) *[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)]*	[3]

	5	(6) WASP-63	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=1	POS TARG null,-50	Sequence 5-5 Non-Int in WASP-63 T3 (15)	215 Secs X 9 (1935 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]*	***[4]***
	6	(6) WASP-63	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=1	POS TARG null,-50	Sequence 6-6 Non-Int in WASP-63 T3 (15)	215 Secs X 9 (1935 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]*	***[5]***
	7	(6) WASP-63	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=1	POS TARG null,-50	Sequence 7-7 Non-Int in WASP-63 T3 (15)	215 Secs X 9 (1935 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]*	***[6]***

Orbit Structure

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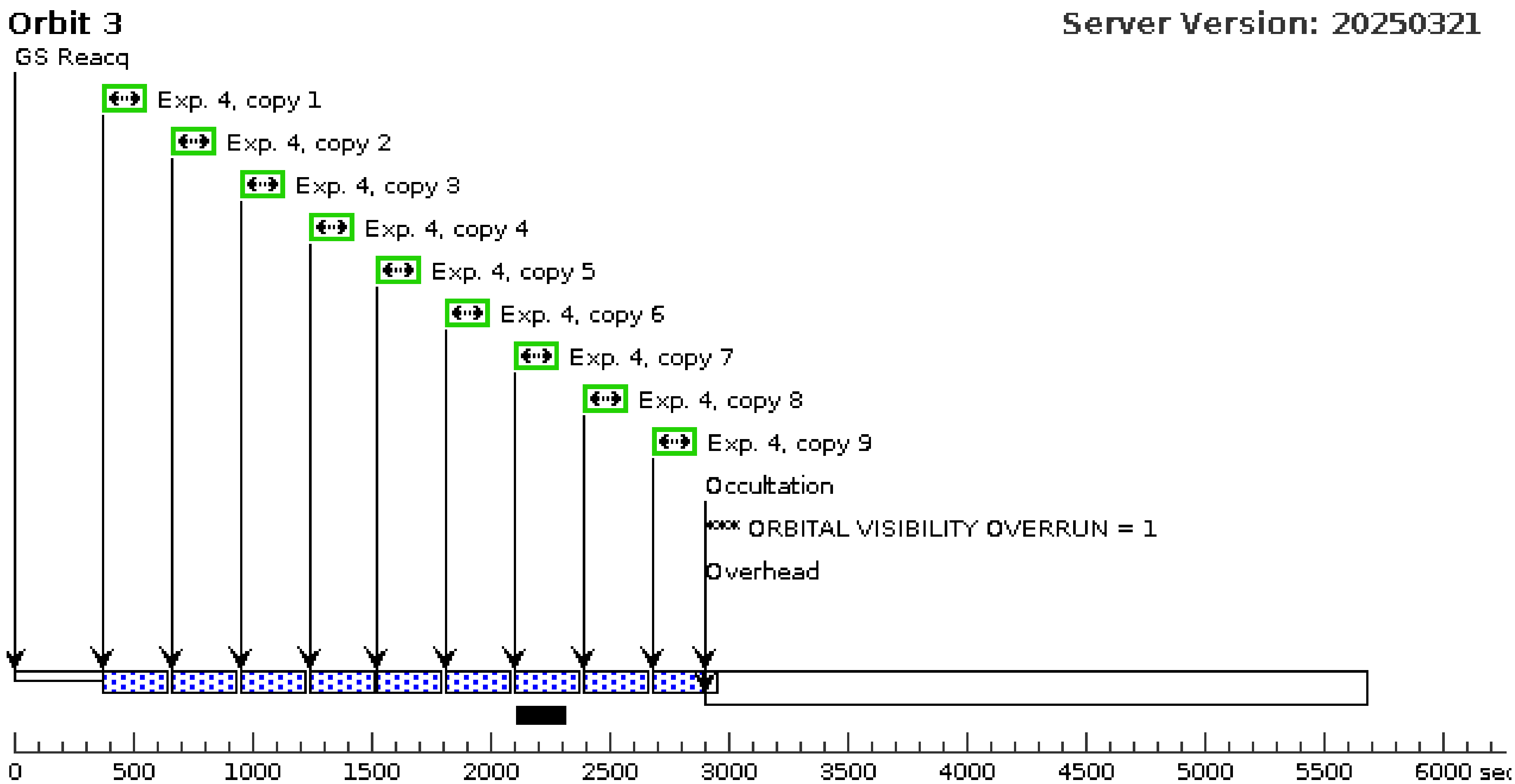
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Occultation
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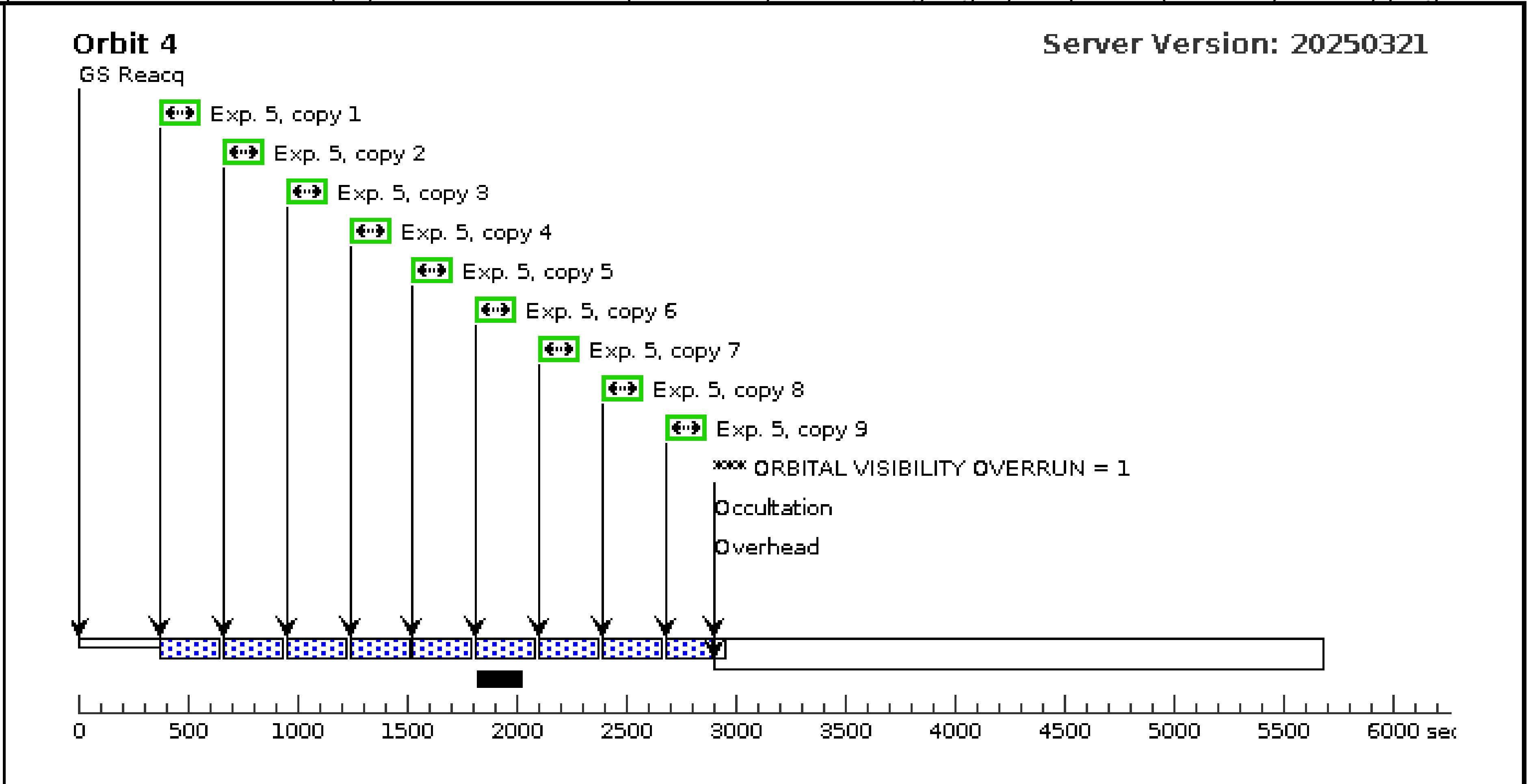
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*** ORBITAL VISIBILITY OVERRUN = 1
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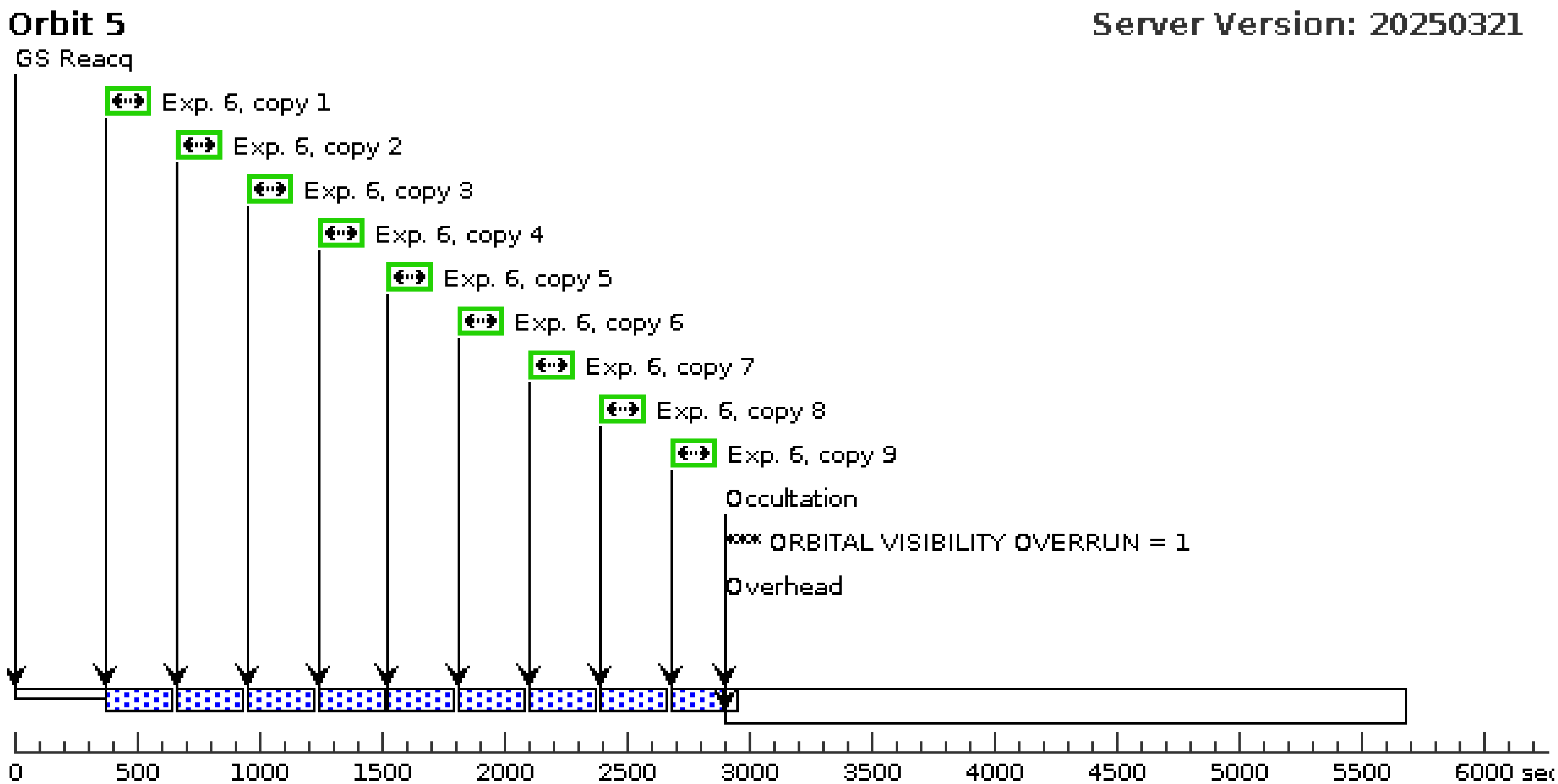
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Exp. 6, copy 8
Exp. 6, copy 9
Occultation
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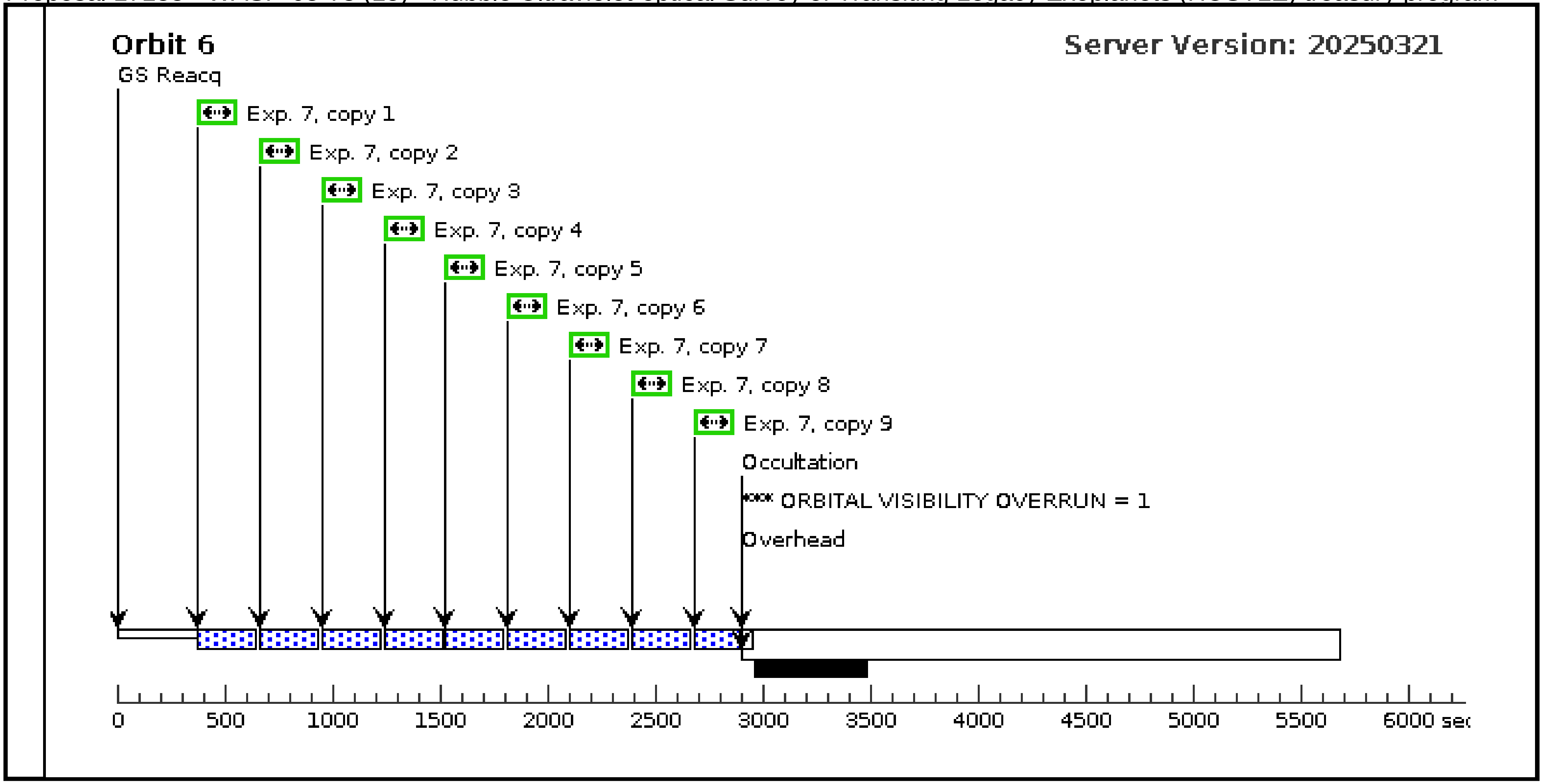
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Exp. 7, copy 8
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Occultation
*** ORBITAL VISIBILITY OVERRUN = 1
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5500
6000 sec

Visit

Proposal 17183, WASP-63 T1 repeat HOPR 92498 (26), completed Mon Jun 30 20:01:53 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; Period 4.37808 D AND ZERO-PHASE HJD2455921.653590

Comments: SIZEAXIS2 set to maximize data volume.
Based on ETC calculations with Castelli-Kurucz Models G8V 5500 4.5 at V mag = 11.2
G280 time to saturation = 270.25s
No known nearby sources to avoid
Centaxis paramters set based on previous program measurements (16039, 15838, 15288).
WASP-63 T1, T2, and T3 are all conducted with the same set-up

Diagnostics

(WASP-63 T1 repeat HOPR 92498 (26)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(WASP-63 T1 repeat HOPR 92498 (26)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(WASP-63 T1 repeat HOPR 92498 (26)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(WASP-63 T1 repeat HOPR 92498 (26)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(WASP-63 T1 repeat HOPR 92498 (26)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

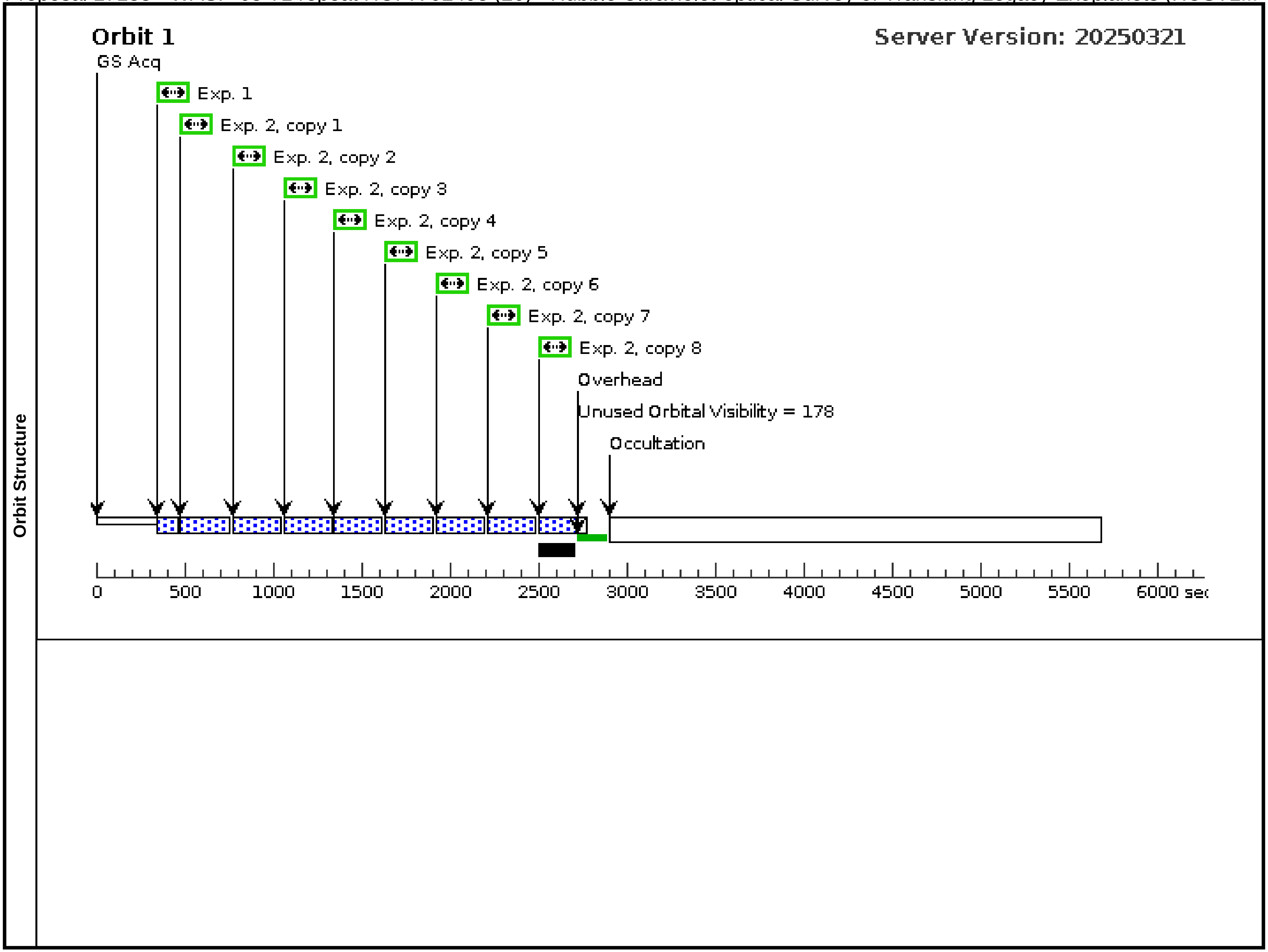
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	WASP-63	RA: 06 17 20.7485 (94.3364521d) Dec: -38 19 23.75 (-38.32326d) Equinox: J2000	Proper Motion RA: -0.001492031182100608 sec of time/yr Proper Motion Dec: -0.027297000065118482 arcsec/yr Epoch of Position: 2015.5	V=11.15	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANETARY SYSTEM]
Extended=NO

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(6) WASP-63	WFC3/UVIS, ACCUM, G280-REF	F300X	FLASH=16; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50; PHASE 0.956538533380436 TO 0.959710903206682	Sequence 1-2 Non-Int in WASP-63 T1 repeat HOPR 92498 (26)	20 Secs (20 Secs) *[==>]*	*[1]*
2		(6) WASP-63	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=1	POS TARG null,-50	Sequence 1-2 Non-Int in WASP-63 T1 repeat HOPR 92498 (26)	215 Secs X 8 (1720 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	*[1]*
3		(6) WASP-63	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=1	POS TARG null,-50	Sequence 3-3 Non-Int in WASP-63 T1 repeat HOPR 92498 (26)	215 Secs X 9 (1935 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]*	*[2]*
4		(6) WASP-63	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=1	POS TARG null,-50	Sequence 4-4 Non-Int in WASP-63 T1 repeat HOPR 92498 (26)	215 Secs X 9 (1935 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]*	*[3]*

	5	(6) WASP-63	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=1	POS TARG null,-50	Sequence 5-5 Non-Int in WASP-63 T1 repeat HOPR 92498 (26)	215 Secs X 9 (1935 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]*	***[4]***
	6	(6) WASP-63	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=1	POS TARG null,-50	Sequence 6-6 Non-Int in WASP-63 T1 repeat HOPR 92498 (26)	215 Secs X 9 (1935 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]*	***[5]***
	7	(6) WASP-63	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=1	POS TARG null,-50	Sequence 7-7 Non-Int in WASP-63 T1 repeat HOPR 92498 (26)	215 Secs X 9 (1935 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]*	***[6]***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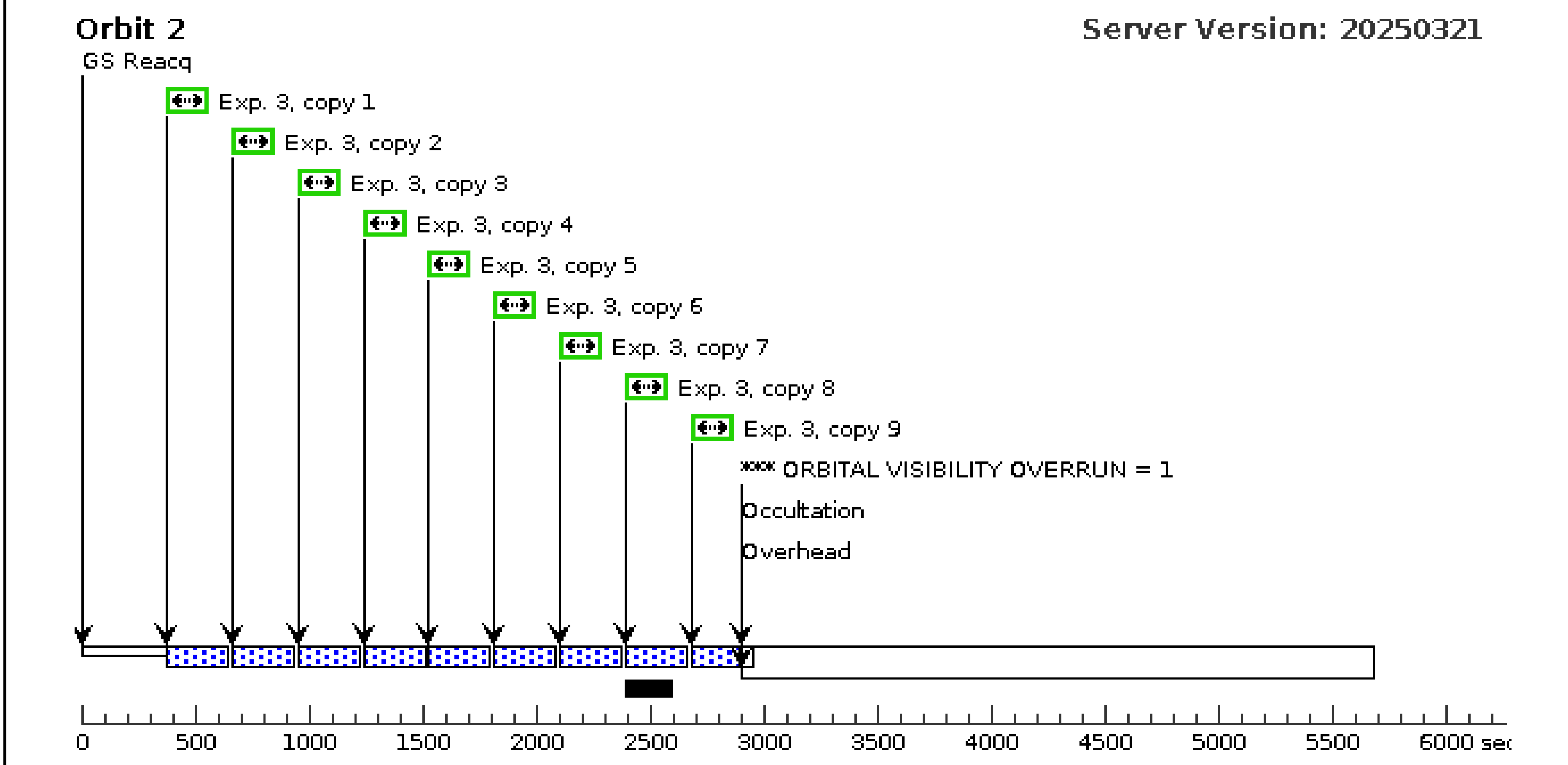
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Exp. 3, copy 7
Exp. 3, copy 8
Exp. 3, copy 9
*** ORBITAL VISIBILITY OVERRUN = 1
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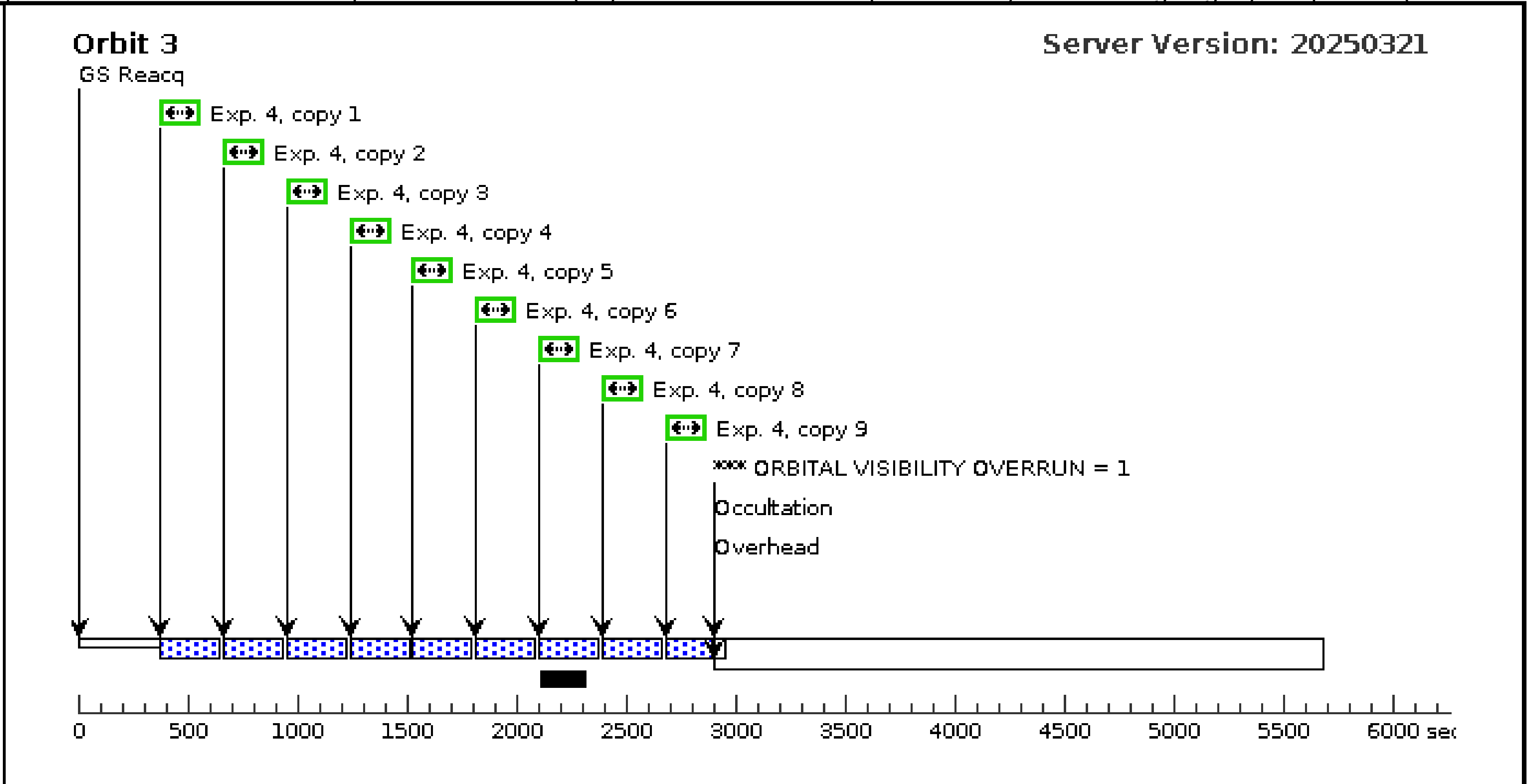
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*** ORBITAL VISIBILITY OVERRUN = 1
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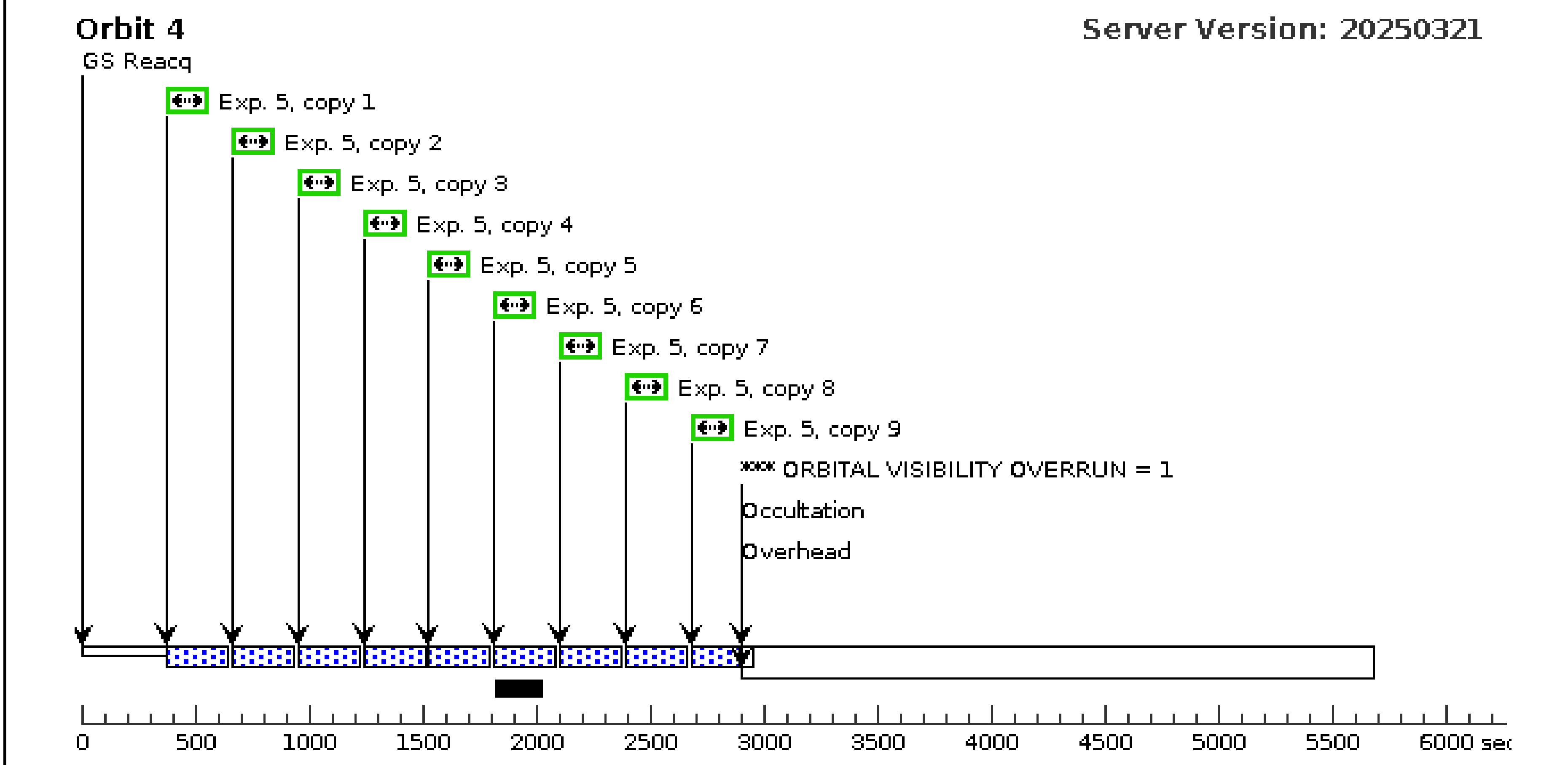
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Exp. 5, copy 9
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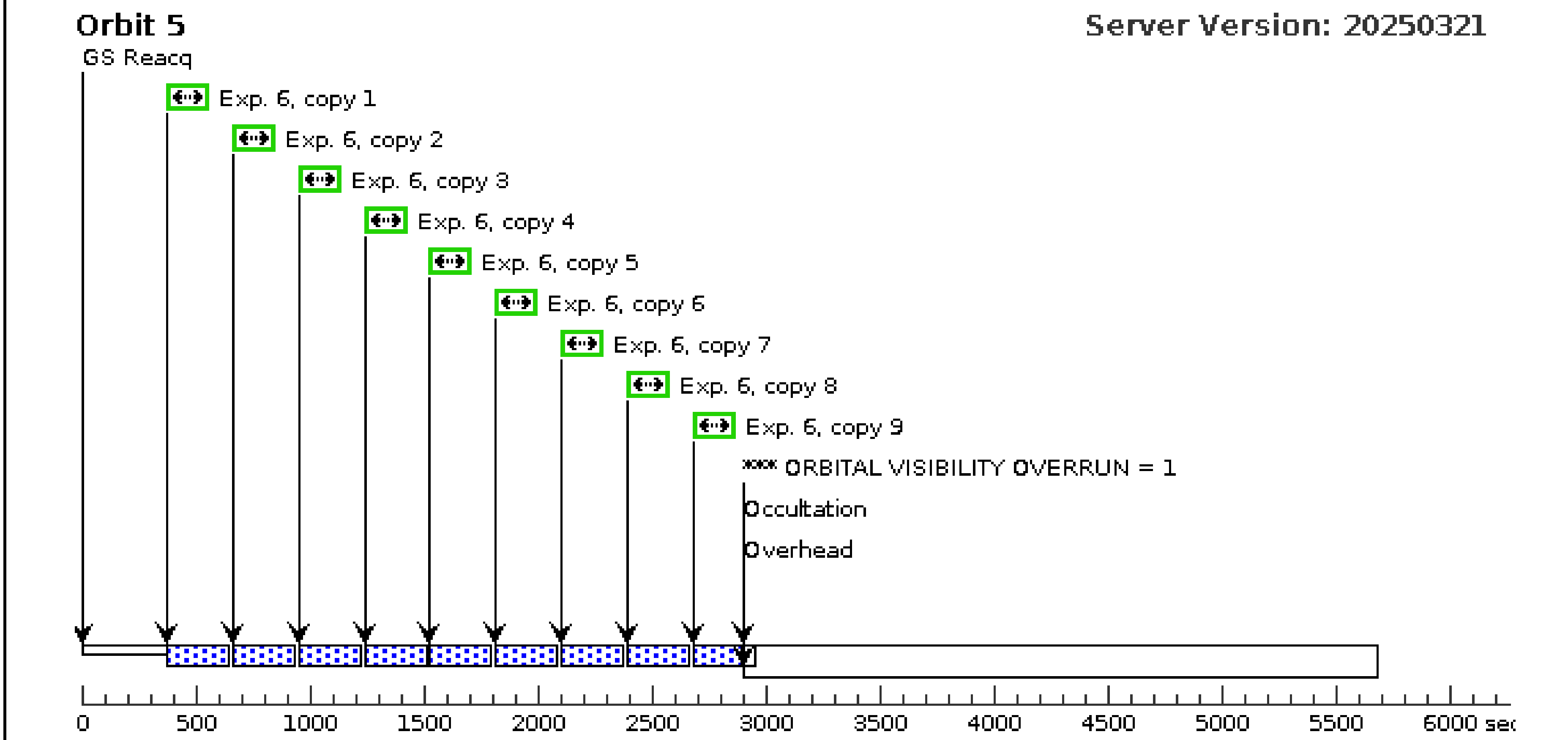
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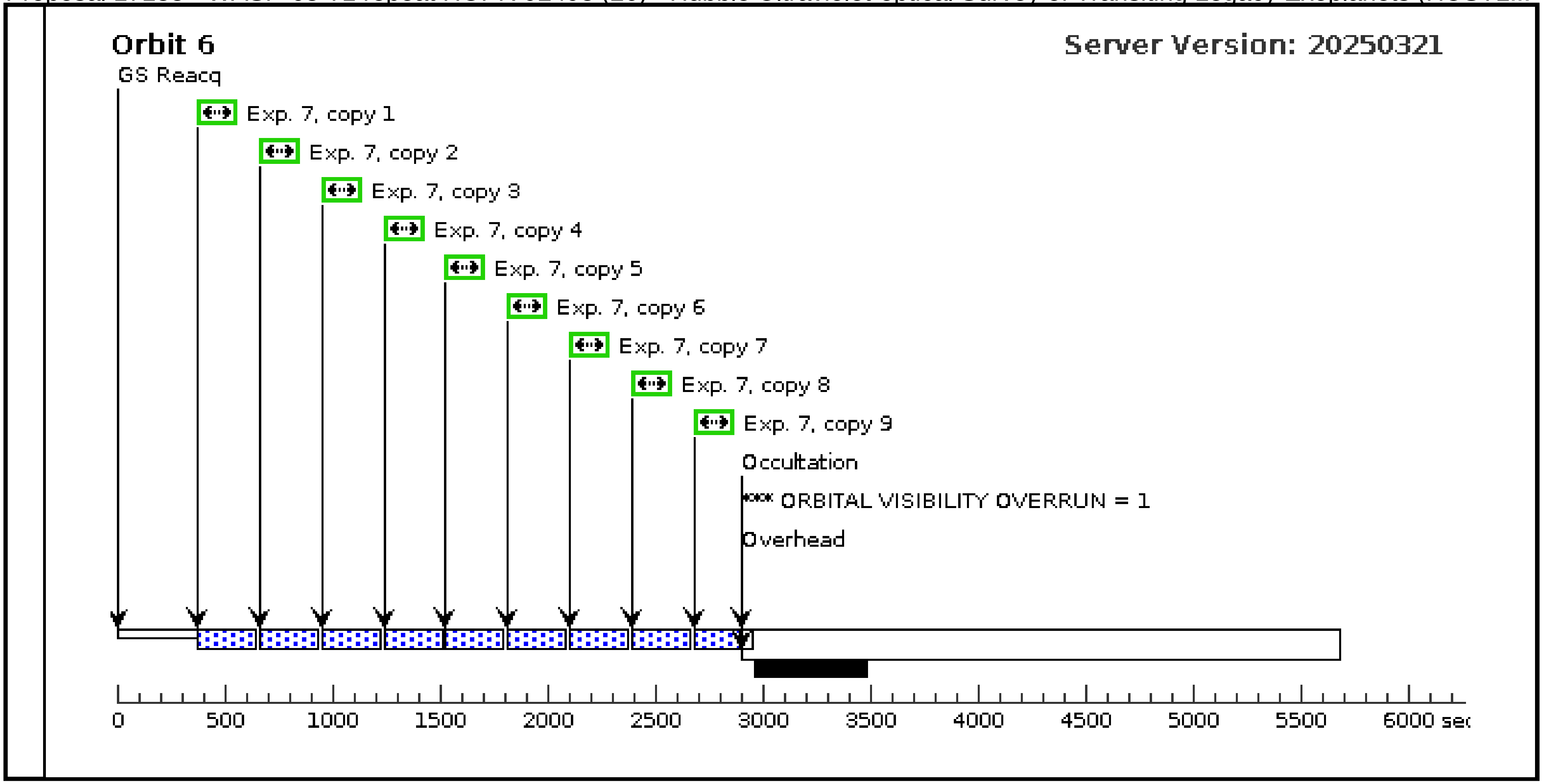
5500
6000 sec



Orbit 6
Server Version: 20250321
GS Reacq
Exp. 7, copy 1
Exp. 7, copy 2
Exp. 7, copy 3
Exp. 7, copy 4
Exp. 7, copy 5
Exp. 7, copy 6
Exp. 7, copy 7
Exp. 7, copy 8
Exp. 7, copy 9
Occultation
*** ORBITAL VISIBILITY OVERRUN = 1
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17183, WASP-31 T1 (16), completed Mon Jun 30 20:01:53 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 264D TO 28 D; ORIENT 72D TO 208 D; Period 3.40591 D AND ZERO-PHASE HJD2455873.866620

Comments: SIZEAXIS set to maximize data volume.
Based on ETC calculations with Castelli-Kurucz Models F8V 6250 4.0 at V mag = 11.7
G280 time to saturation = 379.05s
Orient contraints used to limit spectral overlap from one nearby source
Centaxis paramters set based on previous program measurements (16039, 15838, 15288).

Diagnostics

(WASP-31 T1 (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(WASP-31 T1 (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(WASP-31 T1 (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

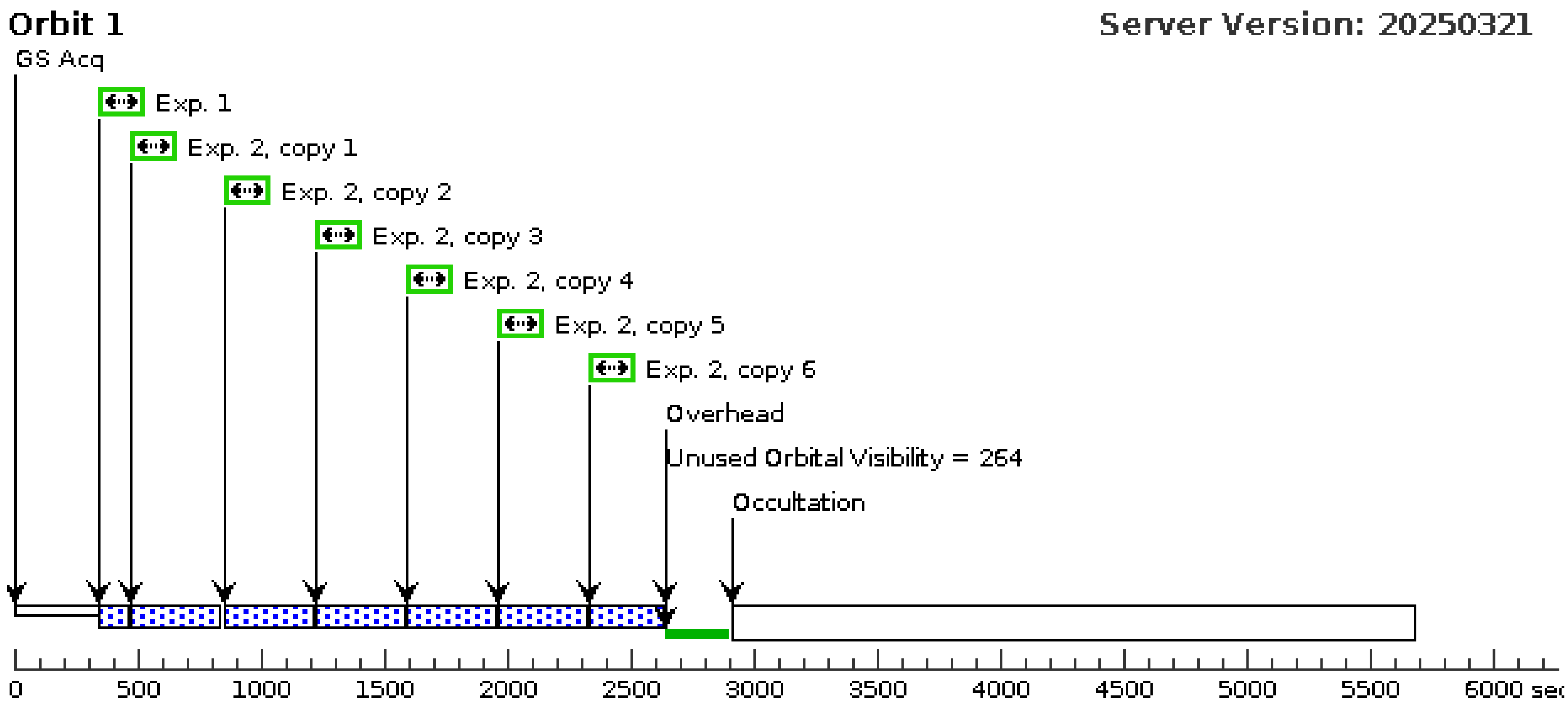
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	WASP-31	RA: 11 17 45.3579 (169.4389913d) Dec: -19 03 17.22 (-19.05478d) Equinox: J2000	Proper Motion RA: -0.0020248124557346848 sec of time/yr Proper Motion Dec: 9.9E-4 arcsec/yr Epoch of Position: 2015.5	V=11.66	Reference Frame: SIMBAD

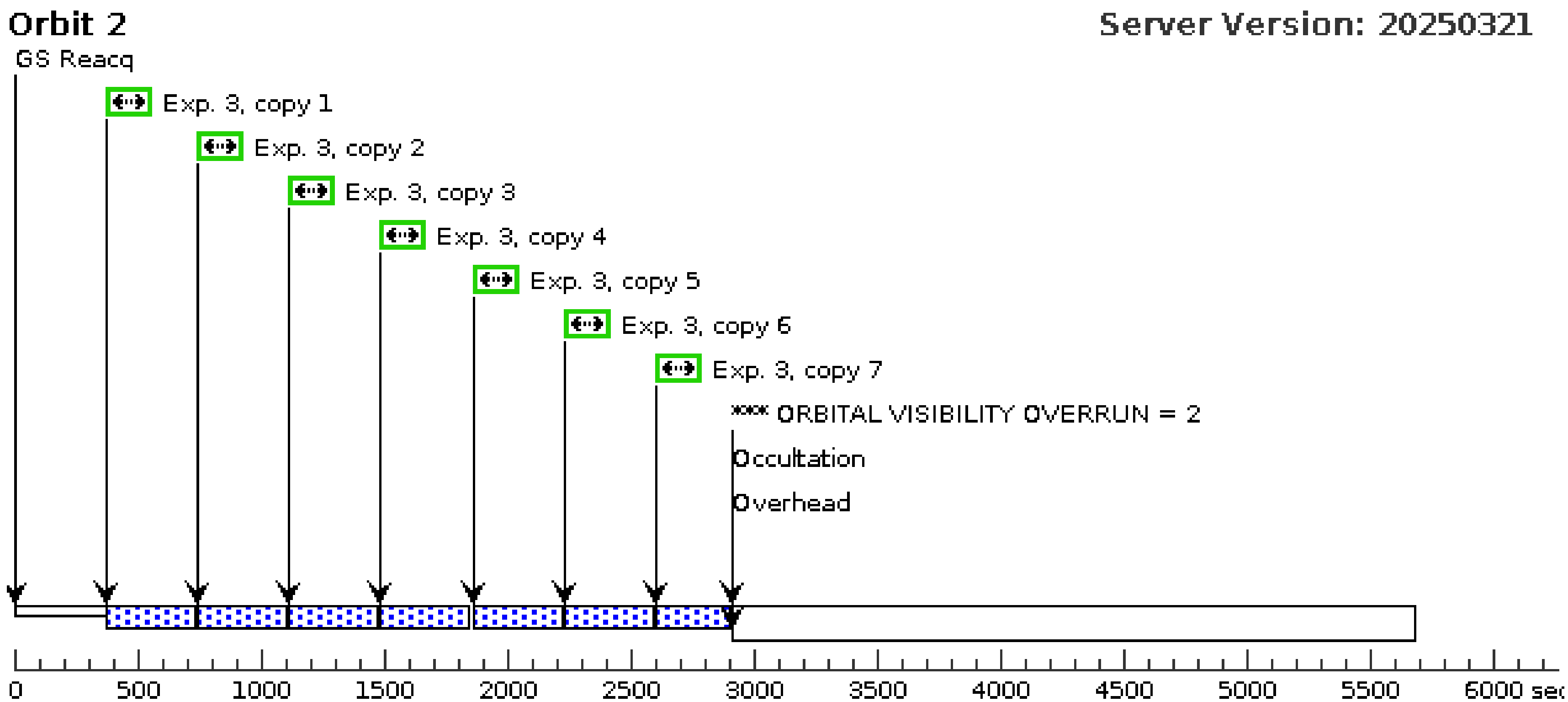
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANETARY SYSTEM]
Extended=NO

Exposures

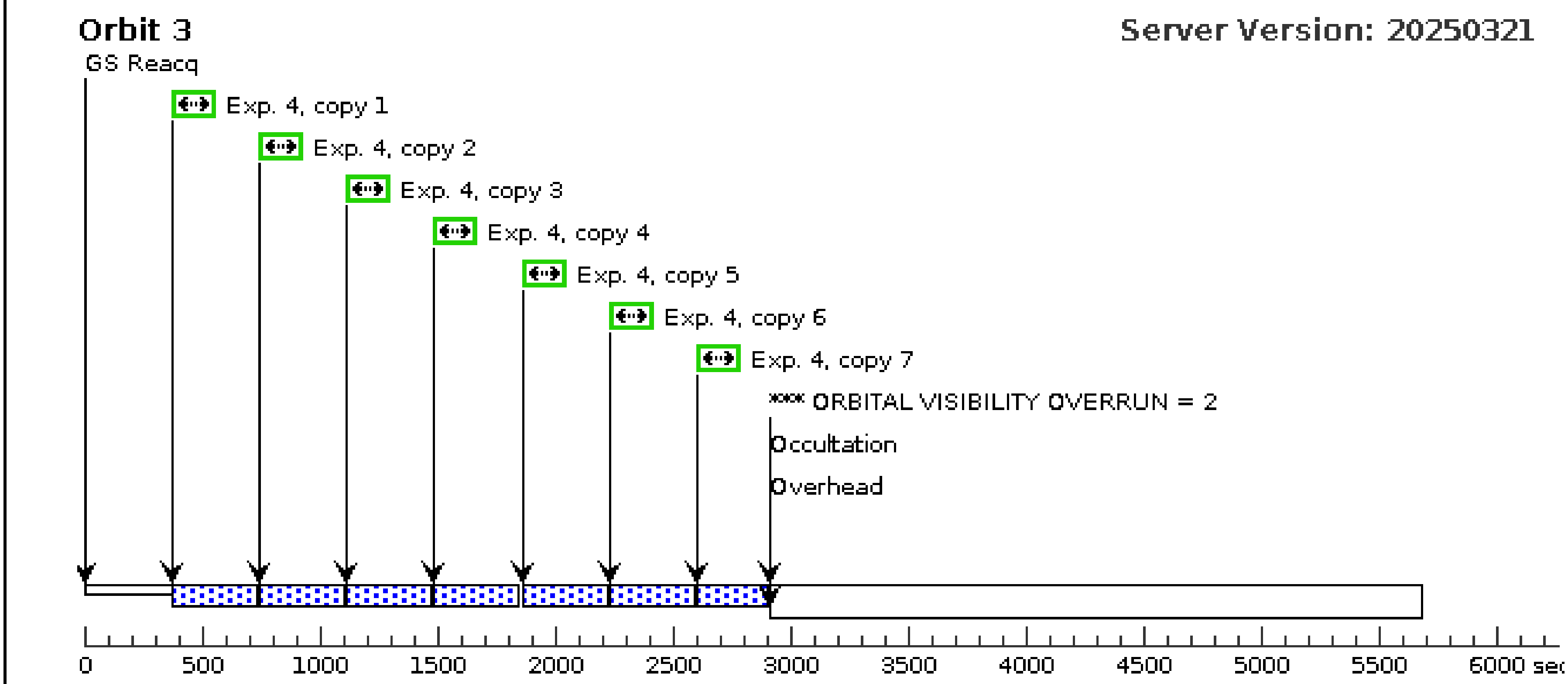
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(7) WASP-31	WFC3/UVIS, ACCUM, G280-REF	F300X	FLASH=16; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50; PHASE 0.963706872574917 TO 0.967784752060882	Sequence 1-2 Non-Int in WASP-31 T1 (16)	16 Secs (16 Secs) [==>]	[1]
2		(7) WASP-31	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 1-2 Non-Int in WASP-31 T1 (16)	301 Secs X 6 (1806 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)]	[1]
3		(7) WASP-31	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 3-3 Non-Int in WASP-31 T1 (16)	301 Secs X 7 (2107 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)]	[2]
4		(7) WASP-31	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 4-4 Non-Int in WASP-31 T1 (16)	301 Secs X 7 (2107 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)]	[3]
5		(7) WASP-31	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 5-5 Non-Int in WASP-31 T1 (16)	301 Secs X 7 (2107 Secs) [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)]	[4]

Orbit Structure





Orbit 2
Server Version: 20250321
GS Reacq
Exp. 3, copy 1
Exp. 3, copy 2
Exp. 3, copy 3
Exp. 3, copy 4
Exp. 3, copy 5
Exp. 3, copy 6
Exp. 3, copy 7
*** ORBITAL VISIBILITY OVERRUN = 2
Occultation
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec



Orbit 3
Server Version: 20250321
GS Reacq
Exp. 4, copy 1
Exp. 4, copy 2
Exp. 4, copy 3
Exp. 4, copy 4
Exp. 4, copy 5
Exp. 4, copy 6
Exp. 4, copy 7
*** ORBITAL VISIBILITY OVERRUN = 2
Occultation
Overhead
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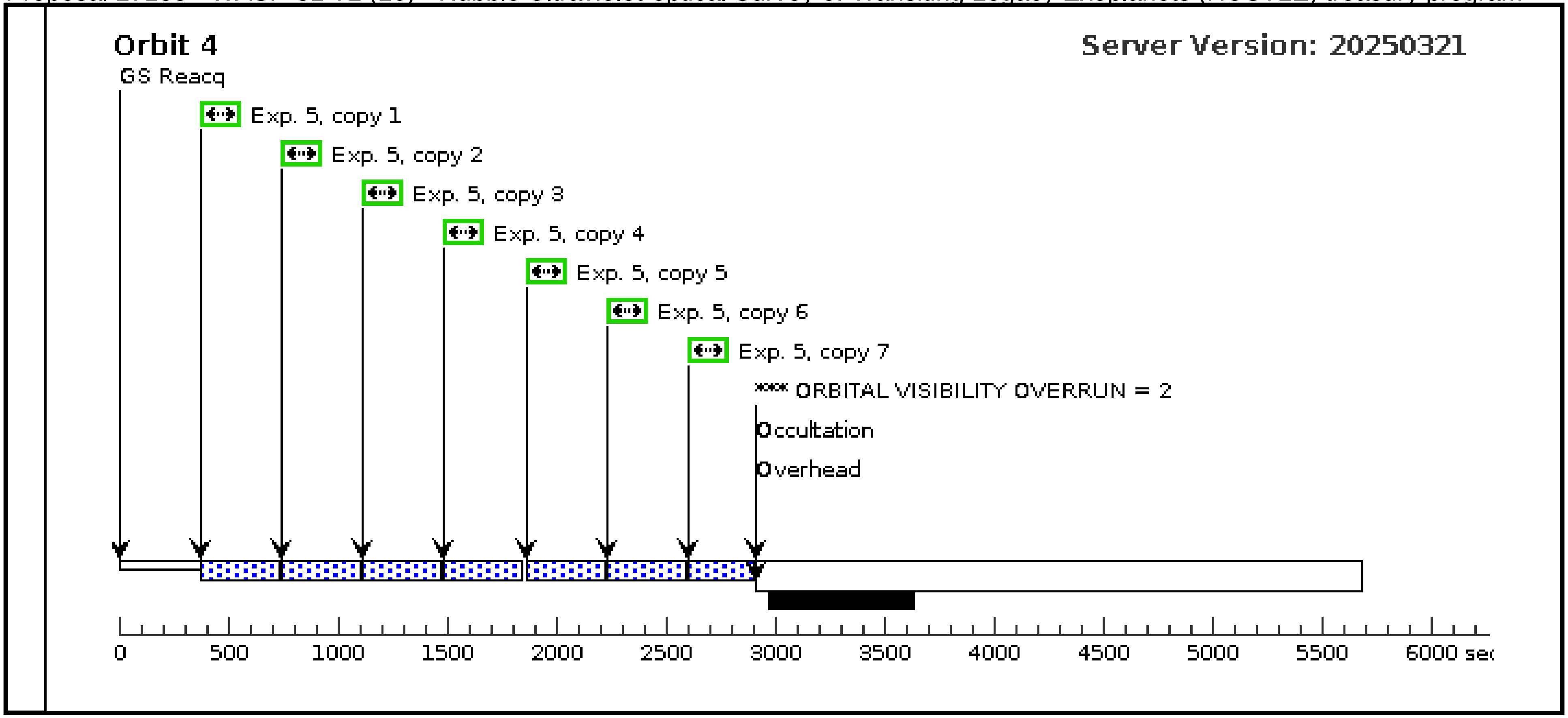
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 4
Server Version: 20250321
GS Reacq
Exp. 5, copy 1
Exp. 5, copy 2
Exp. 5, copy 3
Exp. 5, copy 4
Exp. 5, copy 5
Exp. 5, copy 6
Exp. 5, copy 7
*** ORBITAL VISIBILITY OVERRUN = 2
Occultation
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17183, WASP-31 T2 (28), completed Mon Jun 30 20:01:53 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 264D TO 28 D; ORIENT 72D TO 208 D; Period 3.40591 D AND ZERO-PHASE HJD2455873.866620

Comments: SIZEAXIS set to maximize data volume.
Based on ETC calculations with Castelli-Kurucz Models F8V 6250 4.0 at V mag = 11.7
G280 time to saturation = 379.05s
Orient contraints used to limit spectral overlap from one nearby source
Centaxis paramters set based on previous program measurements (16039, 15838, 15288).
Y POSTARG differes from Visit 16 by 1" to place the spectra on a different part of the detector to avoid detector damage and test efficiency
Y POSTARG = -51 (moved by ~ 50 pixels)
Sub-array size differs from visit 16 by 10 pixels in SIZEAXIS1 to fit obs into new HST orbit length window

Fixed Targets

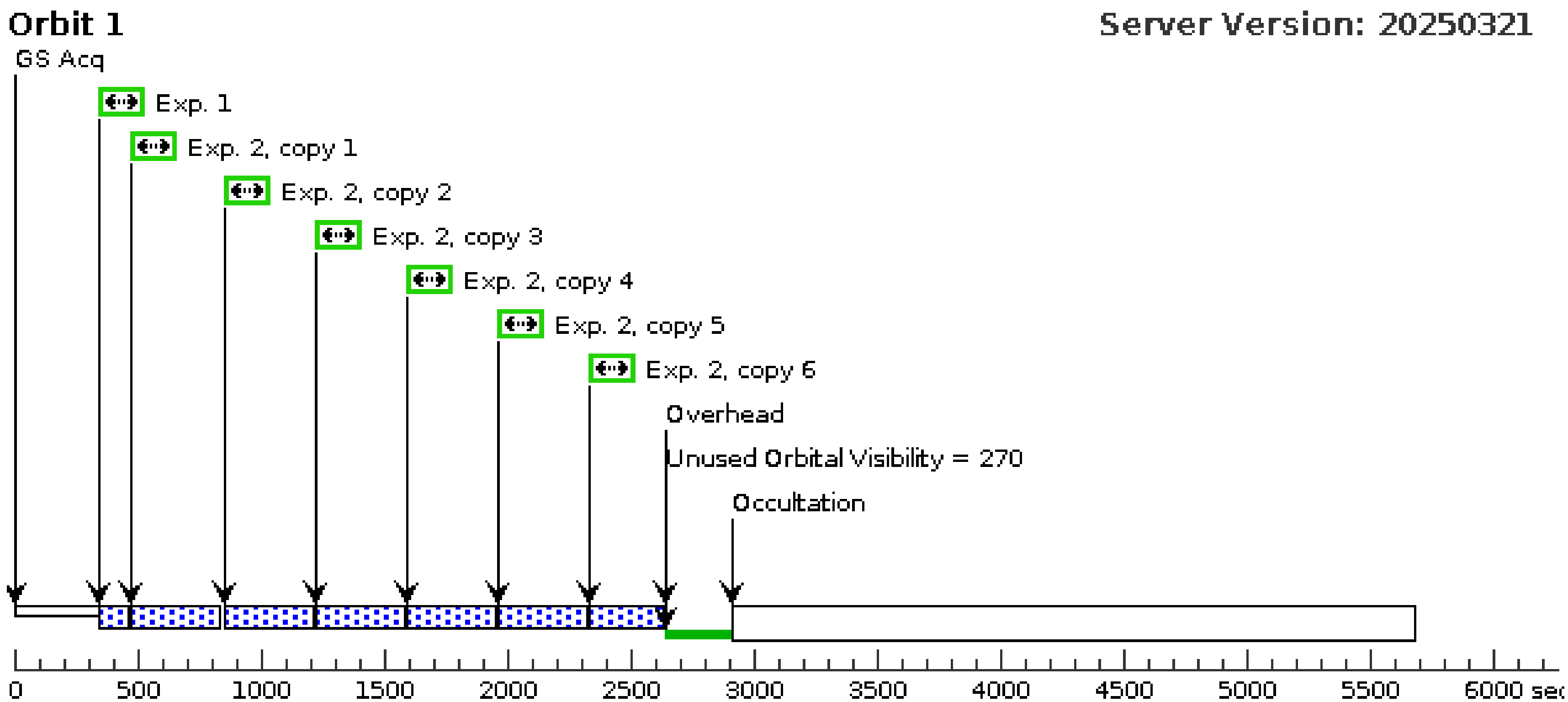
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	WASP-31	RA: 11 17 45.3579 (169.4389913d) Dec: -19 03 17.22 (-19.05478d) Equinox: J2000	Proper Motion RA: -0.0020248124557346848 sec of time/yr Proper Motion Dec: 9.9E-4 arcsec/yr Epoch of Position: 2015.5	V=11.66	Reference Frame: SIMBAD

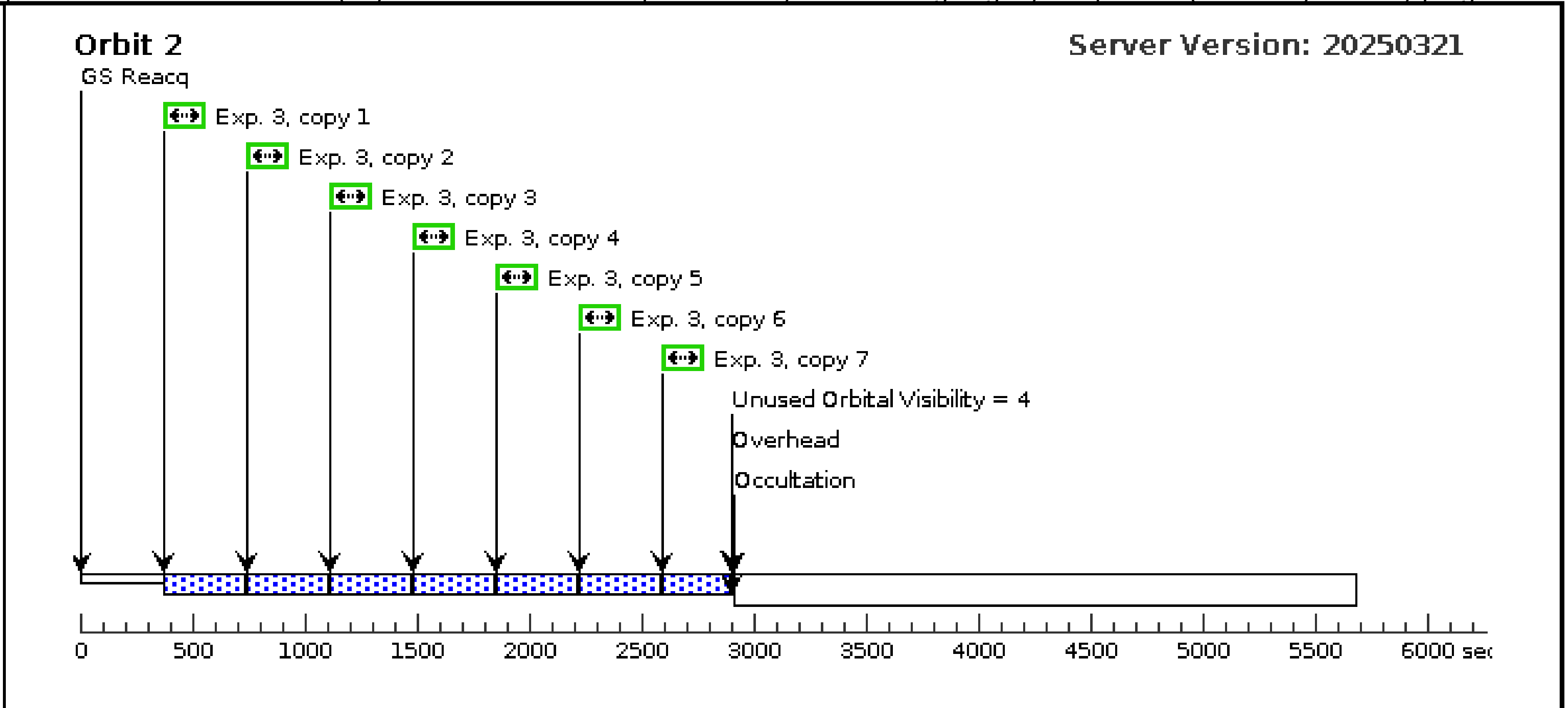
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANETARY SYSTEM]
Extended=NO

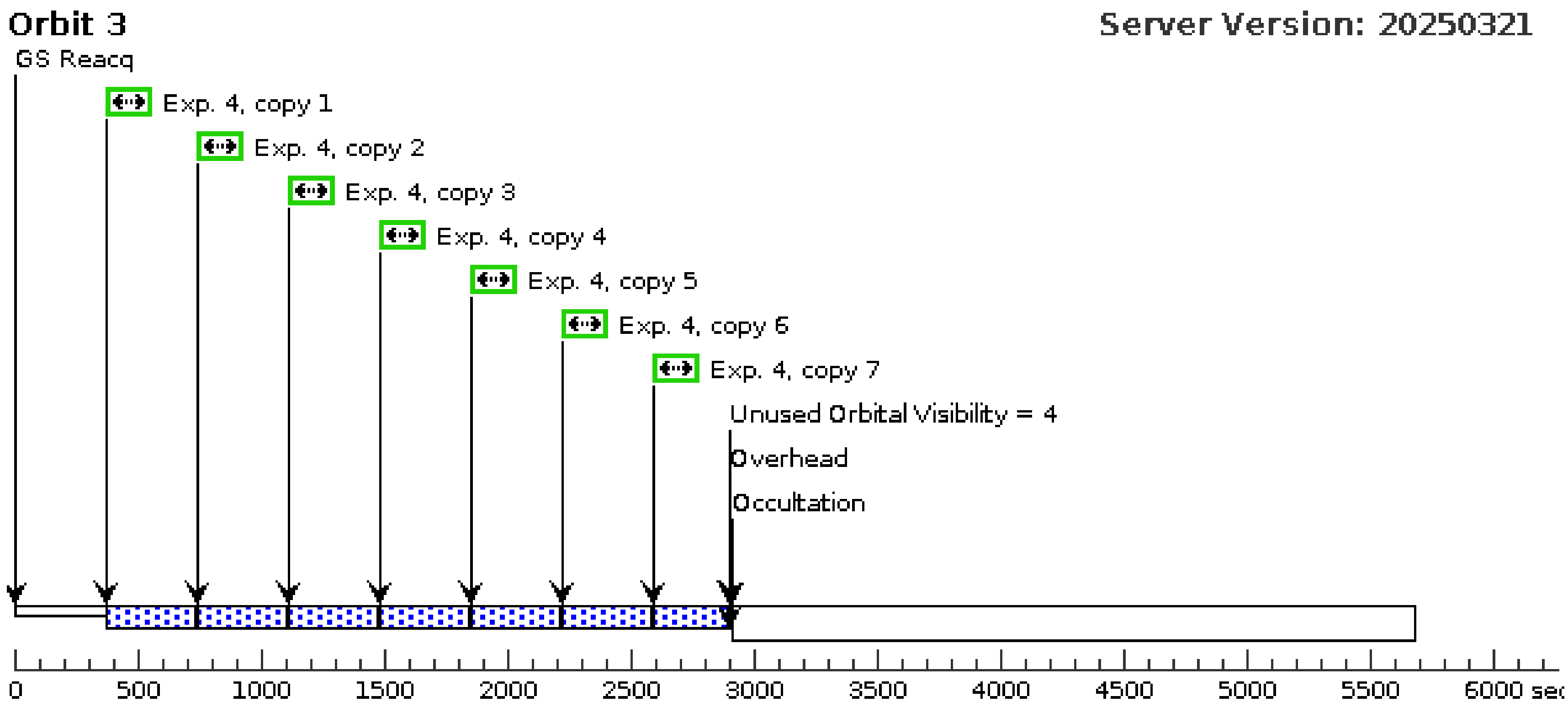
Exposures

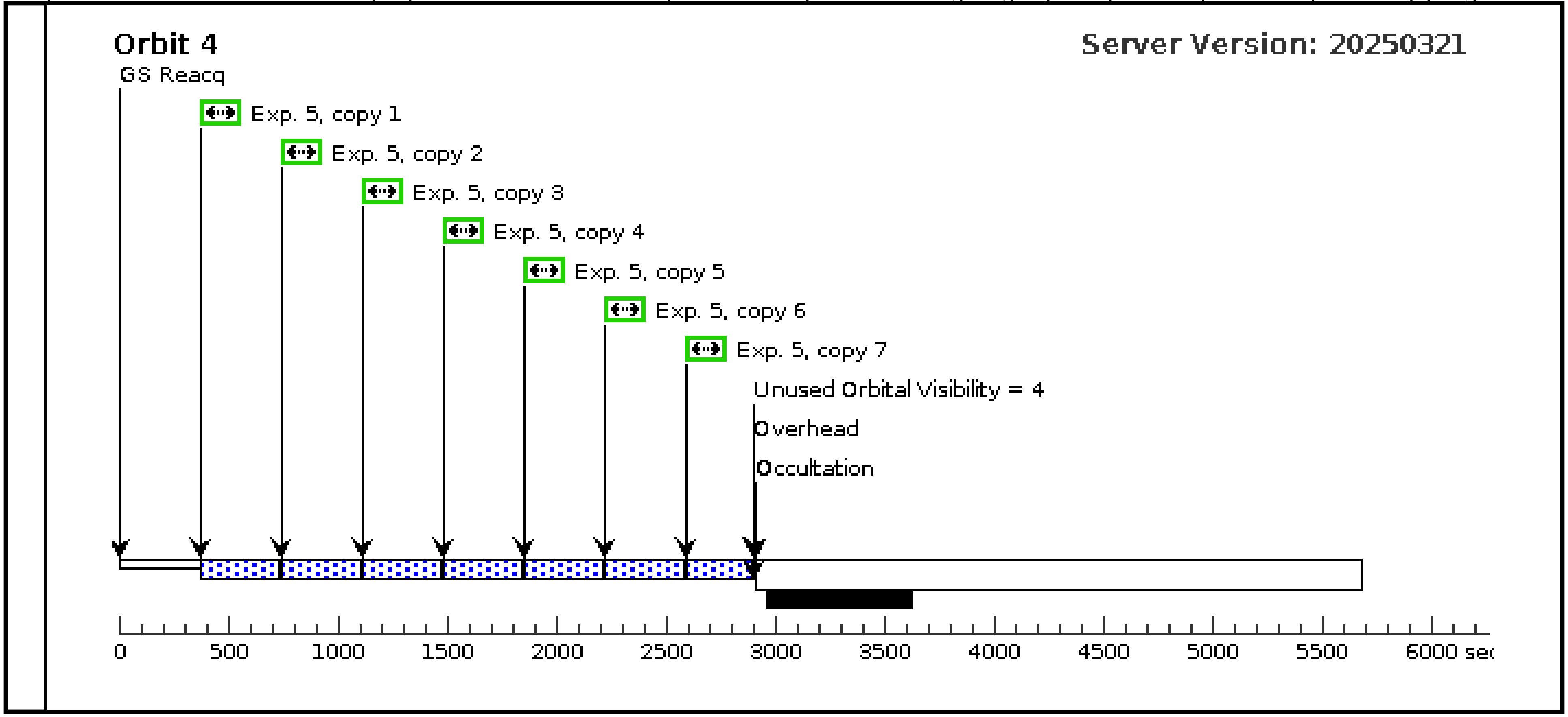
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(7) WASP-31	WFC3/UVIS, ACCUM, G280-REF	F300X	FLASH=16; SIZEAXIS1=2090; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-51; PHASE 0.963706872574917 TO 0.967784752060882	Sequence 1-2 Non-Int in WASP-31 T2 (28)	16 Secs (16 Secs) *[==>]*	*[1]*
2		(7) WASP-31	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2090; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-51	Sequence 1-2 Non-Int in WASP-31 T2 (28)	301 Secs X 6 (1806 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]*	*[1]*
3		(7) WASP-31	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2090; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-51	Sequence 3-3 Non-Int in WASP-31 T2 (28)	301 Secs X 7 (2107 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]*	*[2]*
4		(7) WASP-31	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2090; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-51	Sequence 4-4 Non-Int in WASP-31 T2 (28)	301 Secs X 7 (2107 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]*	*[3]*
5		(7) WASP-31	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2090; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-51	Sequence 5-5 Non-Int in WASP-31 T2 (28)	301 Secs X 7 (2107 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]*	*[4]*

Orbit Structure




Orbit 2
Server Version: 20250321
GS Reacq
Exp. 3, copy 1
Exp. 3, copy 2
Exp. 3, copy 3
Exp. 3, copy 4
Exp. 3, copy 5
Exp. 3, copy 6
Exp. 3, copy 7
Unused Orbital Visibility = 4
Overhead
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 3
Server Version: 20250321
GS Reacq
Exp. 4, copy 1
Exp. 4, copy 2
Exp. 4, copy 3
Exp. 4, copy 4
Exp. 4, copy 5
Exp. 4, copy 6
Exp. 4, copy 7
Unused Orbital Visibility = 4
Overhead
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 4
Server Version: 20250321
GS Reacq
Exp. 5, copy 1
Exp. 5, copy 2
Exp. 5, copy 3
Exp. 5, copy 4
Exp. 5, copy 5
Exp. 5, copy 6
Exp. 5, copy 7
Unused Orbital Visibility = 4
Overhead
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17183, WASP-17 T1 (18), completed Mon Jun 30 20:01:53 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 319D TO 351 D; ORIENT 31D TO 89 D; ORIENT 139D TO 171 D; ORIENT 221D TO 269 D; Period 3.73548546 D AND ZERO-PHASE HJD2454592.801540

Comments: SIZEAXIS set to maximize data volume.
Based on ETC calculations with Castelli-Kurucz Models F5V 6500 4.0 at V mag = 11.6
G280 time to saturation = 324.72s
Orient contraints used to limit spectral overlap from two nearby sources
Centaxis paramters set based on previous program measurements (16039, 15838, 15288).

Diagnostics

(WASP-17 T1 (18)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(9)	WASP-17	RA: 15 59 50.9395 (239.9622479d) Dec: -28 03 42.46 (-28.06179d) Equinox: J2000	Proper Motion RA: -6.11939102377288E-4 sec of time/yr Proper Motion Dec: -0.00963899997259432 arcsec/yr Epoch of Position: 2015.5	V=11.59	Reference Frame: SIMBAD

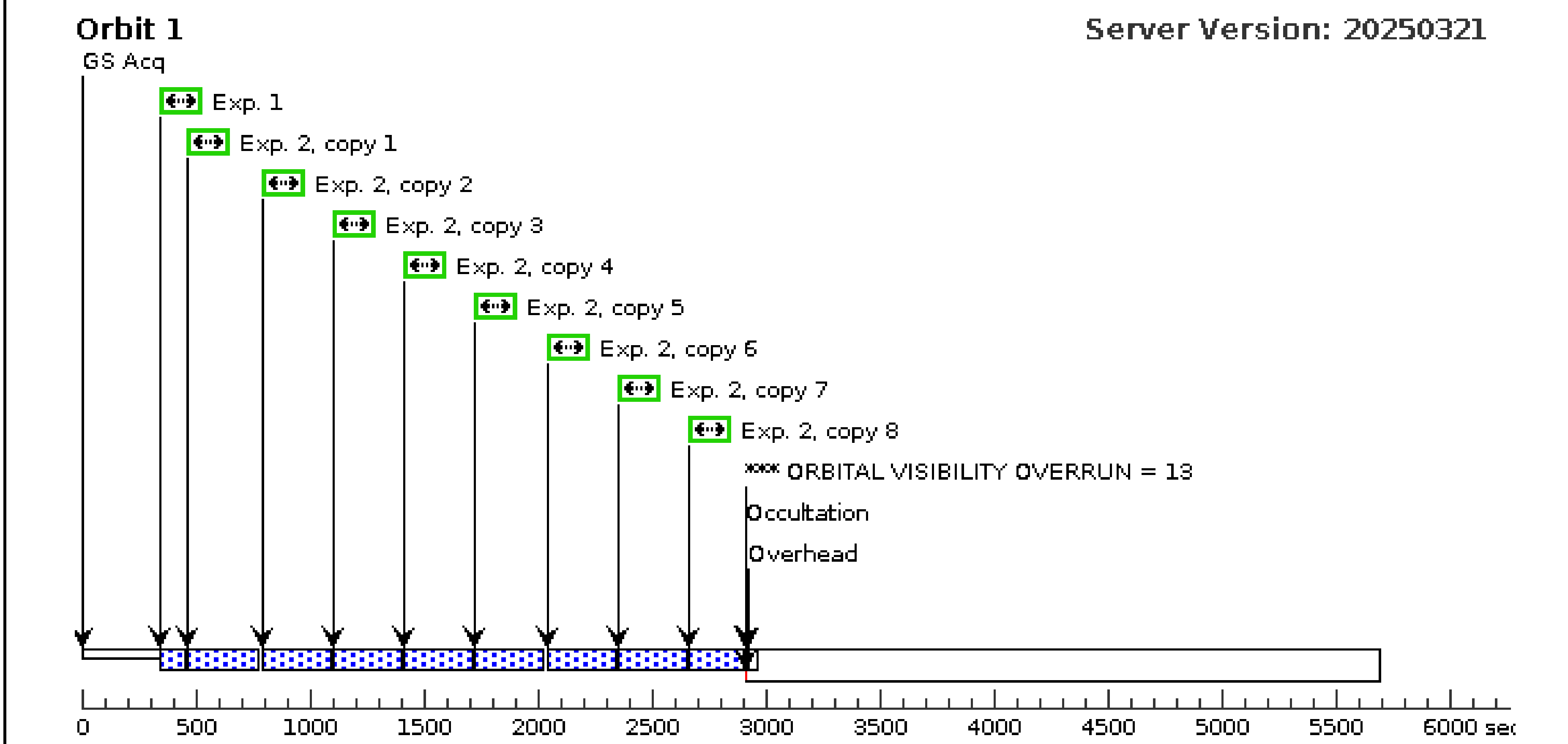
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET]

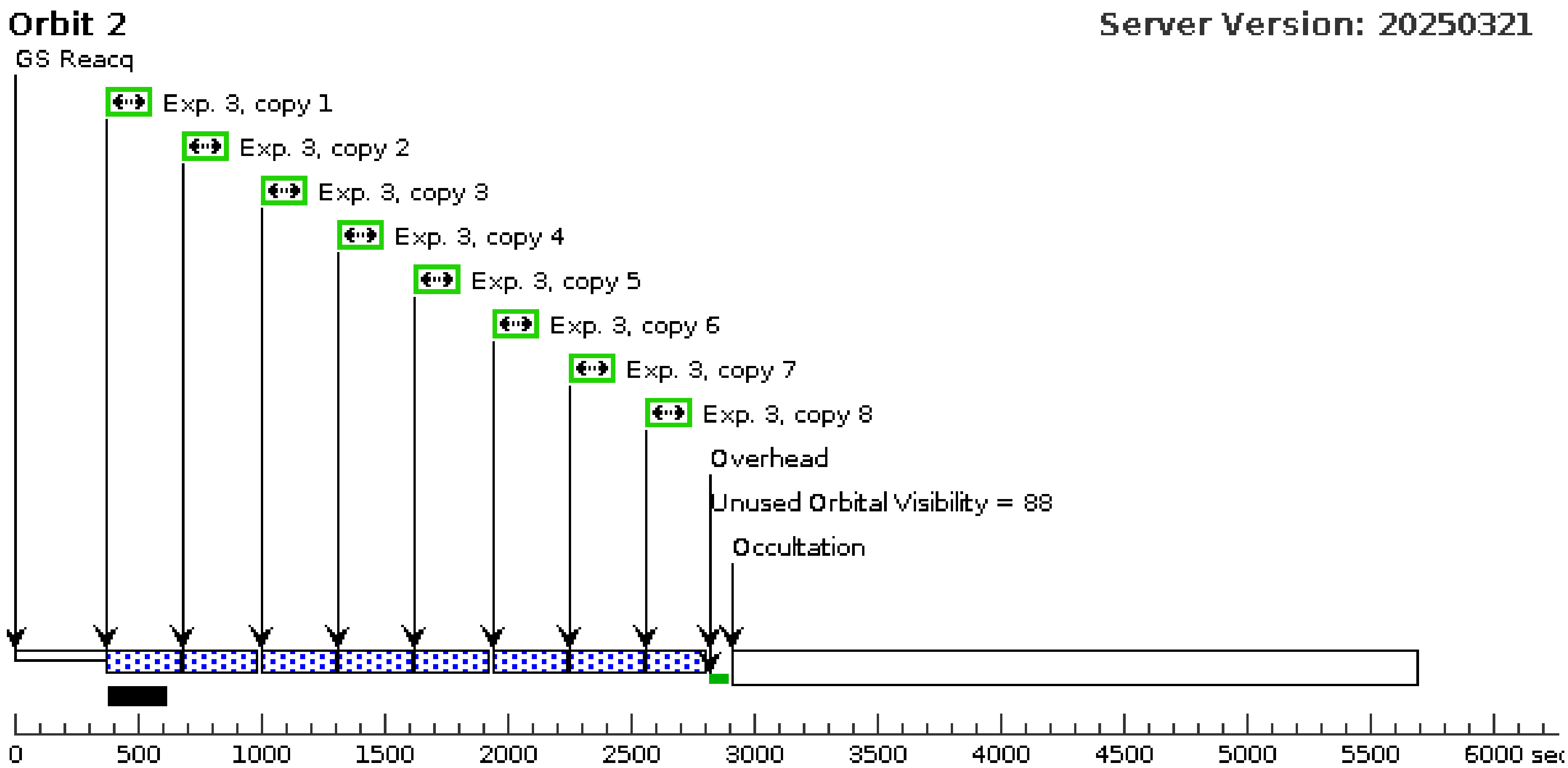
Exposures

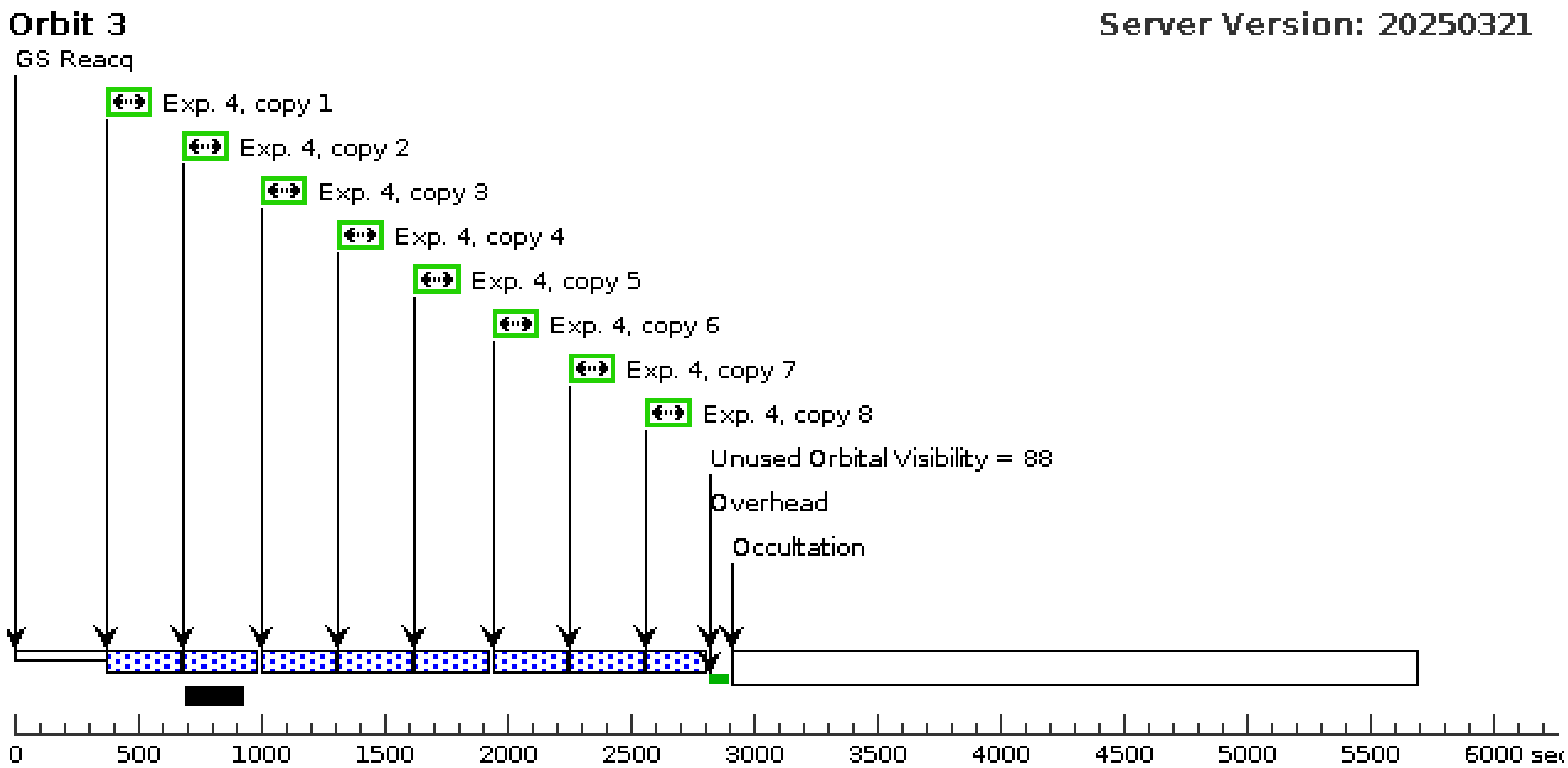
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(9) WASP-17	WFC3/UVIS, ACCUM, G280-REF	F300X	FLASH=16; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50; PHASE 0.95798552929063 TO 0.961703624043672	Sequence 1-2 Non-Int in WASP-17 T1 (18)	12 Secs (12 Secs) *[==>]*	*[1]*
2		(9) WASP-17	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 1-2 Non-Int in WASP-17 T1 (18)	243 Secs X 8 (1944 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	*[1]*
3		(9) WASP-17	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 3-3 Non-Int in WASP-17 T1 (18)	243 Secs X 8 (1944 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	*[2]*
4		(9) WASP-17	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 4-4 Non-Int in WASP-17 T1 (18)	243 Secs X 8 (1944 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	*[3]*
5		(9) WASP-17	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 5-5 Non-Int in WASP-17 T1 (18)	243 Secs X 8 (1944 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	*[4]*

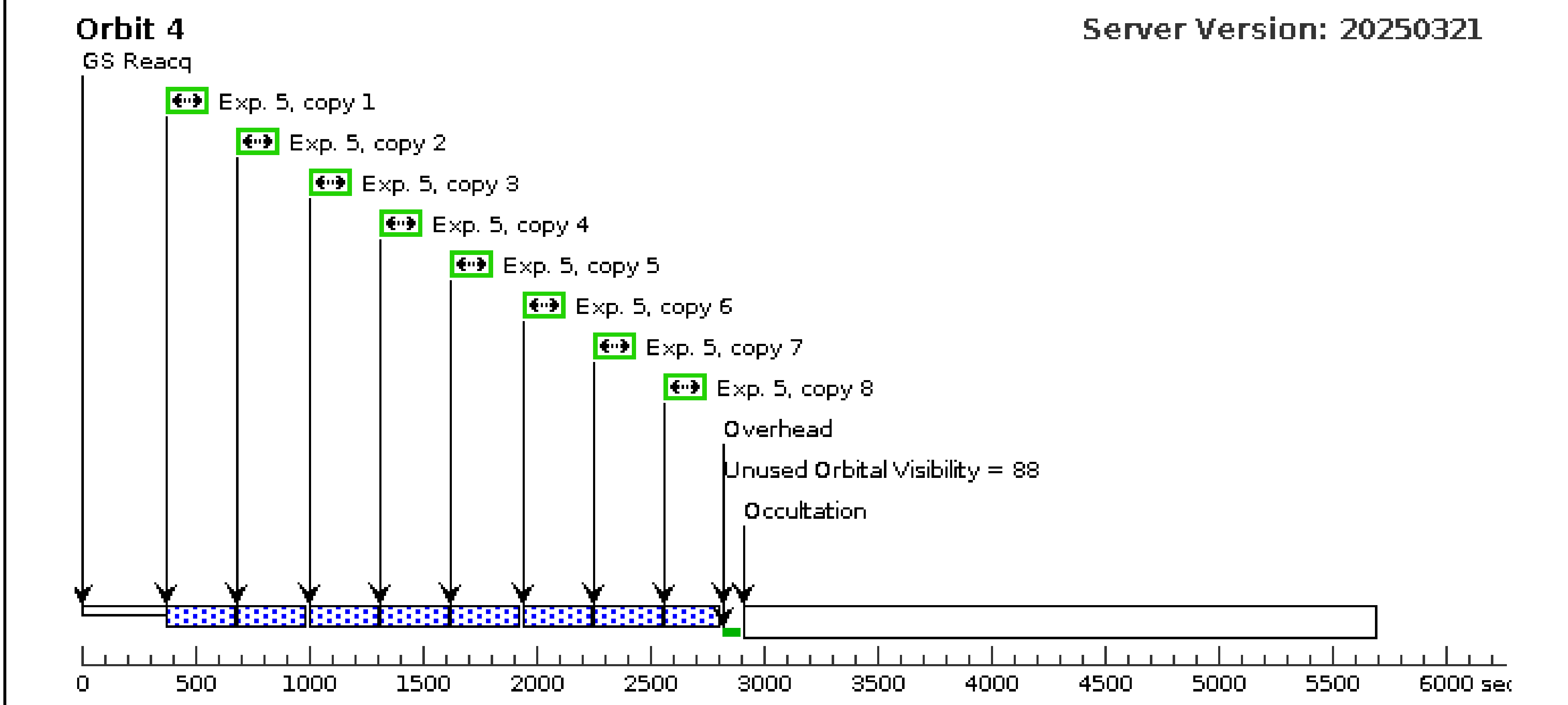
	6	(9) WASP-17	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50	Sequence 6-6 Non-Int in WASP-17 T1 (18)	243 Secs X 8 (1944 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	***[5]***

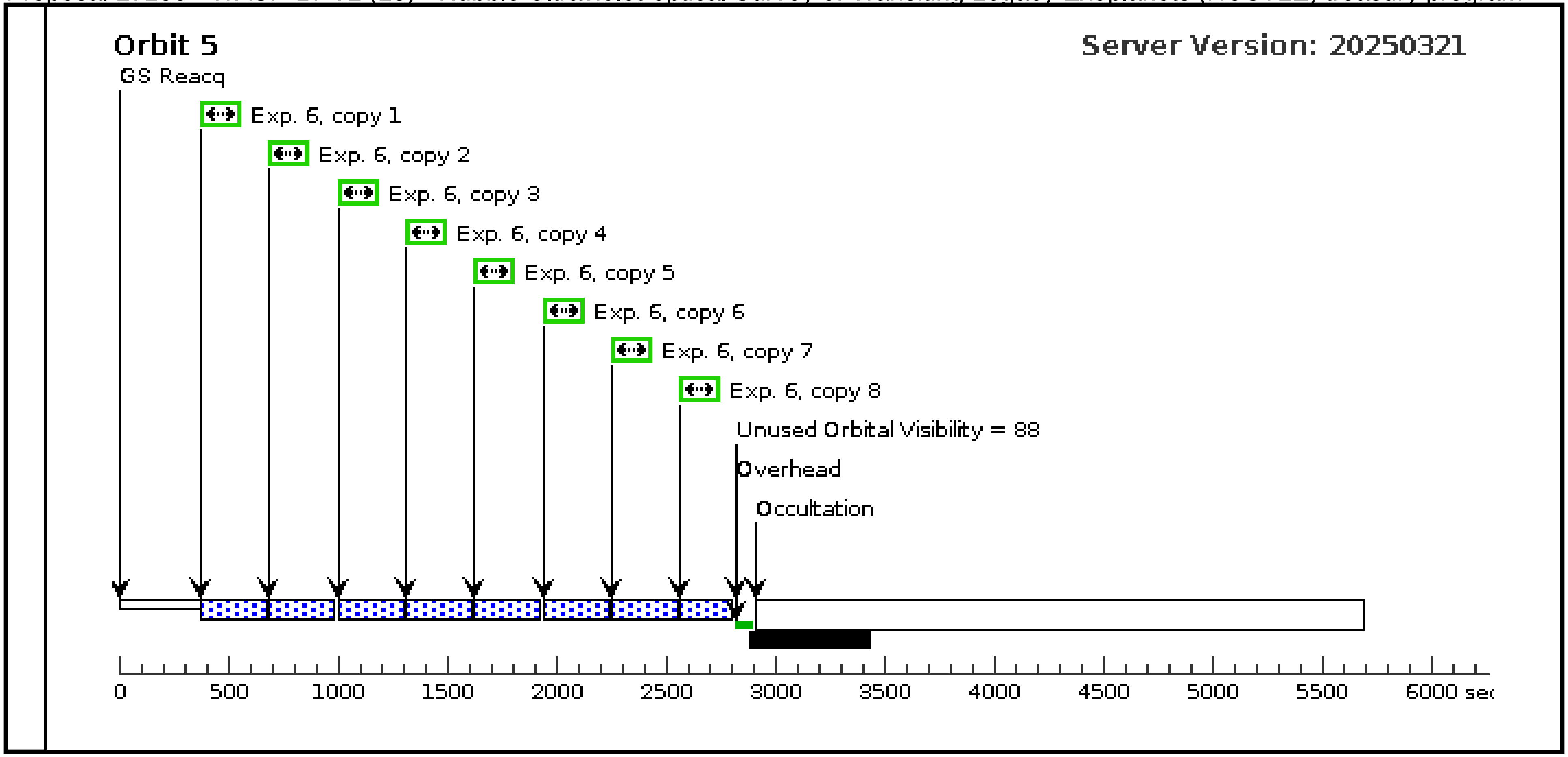
Orbit Structure




Orbit 2
Server Version: 20250321
GS Reacq
Exp. 3, copy 1
Exp. 3, copy 2
Exp. 3, copy 3
Exp. 3, copy 4
Exp. 3, copy 5
Exp. 3, copy 6
Exp. 3, copy 7
Exp. 3, copy 8
Overhead
Unused Orbital Visibility = 88
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 3
Server Version: 20250321
GS Reacq
Exp. 4, copy 1
Exp. 4, copy 2
Exp. 4, copy 3
Exp. 4, copy 4
Exp. 4, copy 5
Exp. 4, copy 6
Exp. 4, copy 7
Exp. 4, copy 8
Unused Orbital Visibility = 88
Overhead
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 4
Server Version: 20250321
GS Reacq
Exp. 5, copy 1
Exp. 5, copy 2
Exp. 5, copy 3
Exp. 5, copy 4
Exp. 5, copy 5
Exp. 5, copy 6
Exp. 5, copy 7
Exp. 5, copy 8
Overhead
Unused Orbital Visibility = 88
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 5
Server Version: 20250321
GS Reacq
Exp. 6, copy 1
Exp. 6, copy 2
Exp. 6, copy 3
Exp. 6, copy 4
Exp. 6, copy 5
Exp. 6, copy 6
Exp. 6, copy 7
Exp. 6, copy 8
Unused Orbital Visibility = 88
Overhead
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17183, HAT-P-32 T1 (19), completed Mon Jun 30 20:01:53 GMT 2025

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 5D TO 29 D; ORIENT 79D TO 135 D; ORIENT 185D TO 209 D; ORIENT 259D TO 315 D; Period 2.15001 D AND ZERO-PHASE HJD2455867.40274

Comments: SIZEAXIS set to maximize data volume.
Based on ETC calculations with Castelli-Kurucz Models F8V 6250 4.0 at V mag = 11.3
G280 time to saturation = 262.38s
Orient contraints used to limit spectral overlap from two nearby sources
Centaxis paramters set based on previous program measurements (16039, 15838, 15288).

Diagnostics

(HAT-P-32 T1 (19)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

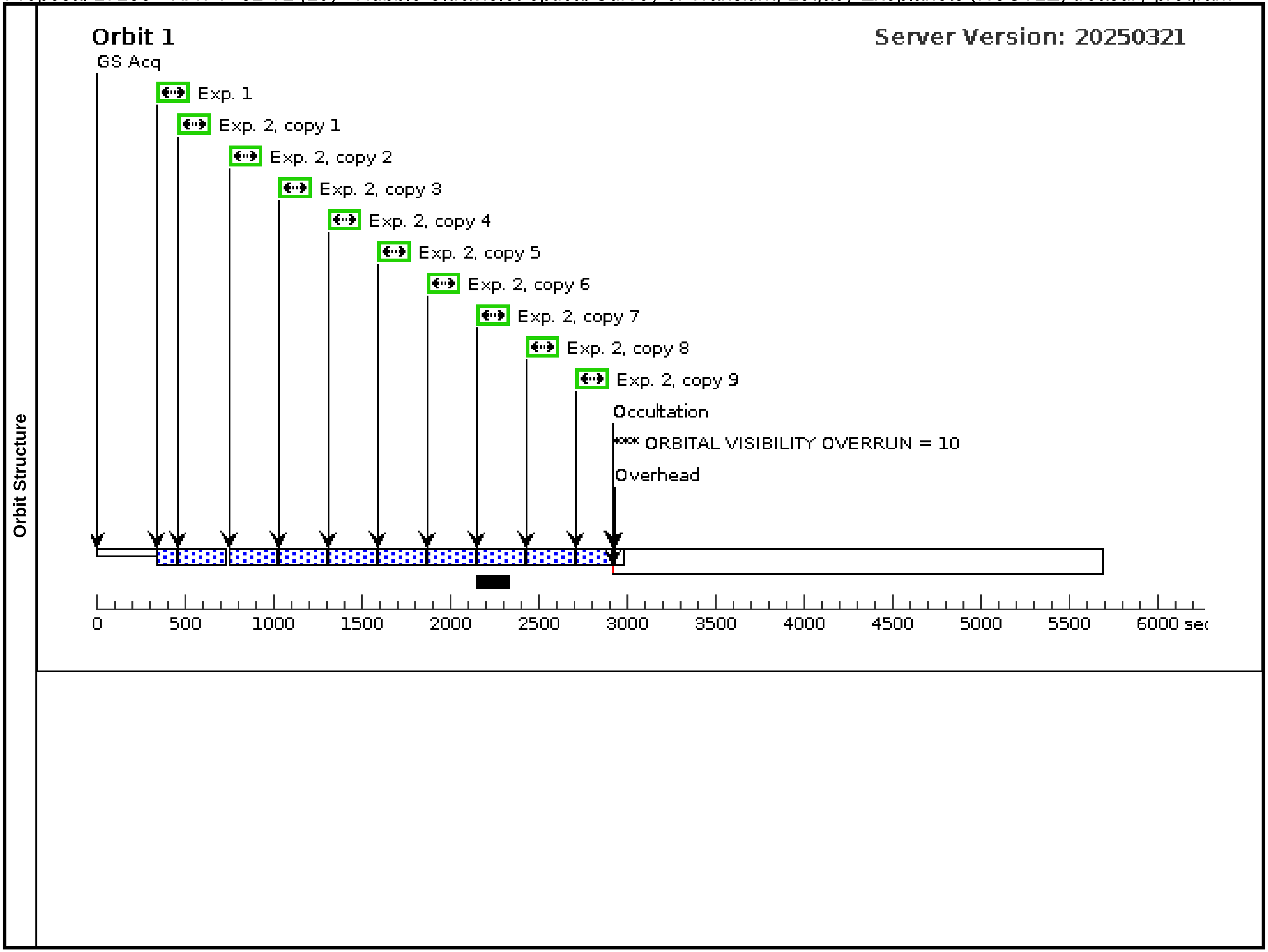
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(10)	HAT-P-32	RA: 02 04 10.2774 (31.0428225d) Dec: +46 41 16.21 (46.68784d) Equinox: J2000	Proper Motion RA: -9.548485613807059E-4 sec of time/yr Proper Motion Dec: 0.003477 arcsec/yr Epoch of Position: 2015.5	V=11.44	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANETARY SYSTEM]
Extended=NO

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(10) HAT-P-32	WFC3/UVIS, ACCUM, G280-REF	F300X	FLASH=16; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50; PHASE 0.942506679225171 TO 0.948966602907736	Sequence 1-2 Non-Int in HAT-P-32 T1 (19)	8 Secs (8 Secs) *[==>]*	*[1]*
2		(10) HAT-P-32	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=5	POS TARG null,-50	Sequence 1-2 Non-Int in HAT-P-32 T1 (19)	205 Secs X 9 (1845 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]*	*[1]*
3		(10) HAT-P-32	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=5	POS TARG null,-50	Sequence 3-3 Non-Int in HAT-P-32 T1 (19)	205 Secs X 9 (1845 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]*	*[2]*
4		(10) HAT-P-32	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=5	POS TARG null,-50	Sequence 4-4 Non-Int in HAT-P-32 T1 (19)	205 Secs X 9 (1845 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]*	*[3]*

	5	(10) HAT-P-32	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=5	POS TARG null,-50	Sequence 5-5 Non-Int in HAT-P-32 T1 (19)	205 Secs X 9 (1845 Secs) *[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 9)]*	***[4]***



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GS Acq
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Exp. 2, copy 5
Exp. 2, copy 6
Exp. 2, copy 7
Exp. 2, copy 8
Exp. 2, copy 9
Occultation
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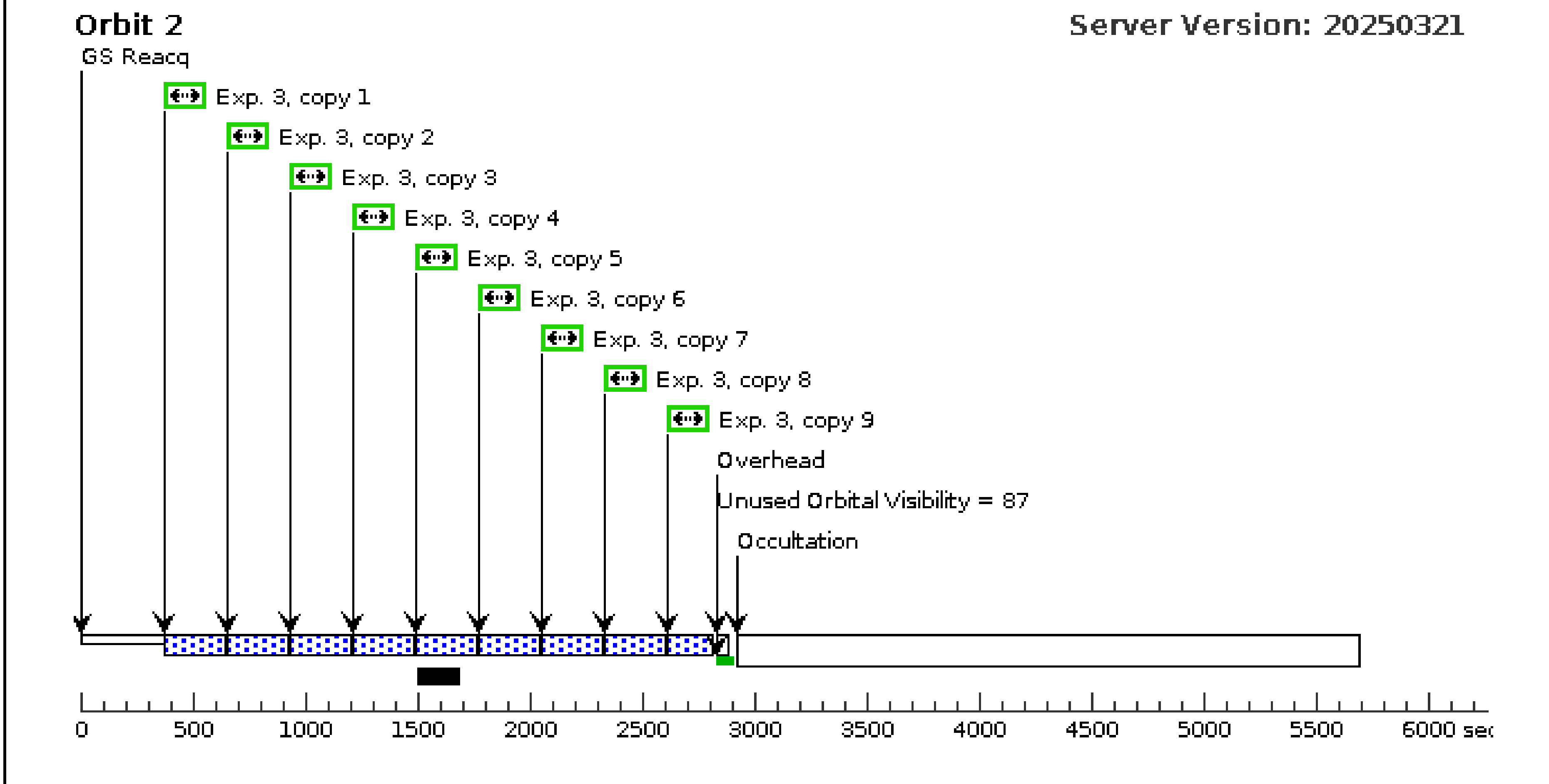
6000 sec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Exp. 3, copy 7
Exp. 3, copy 8
Exp. 3, copy 9
Overhead
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Occultation
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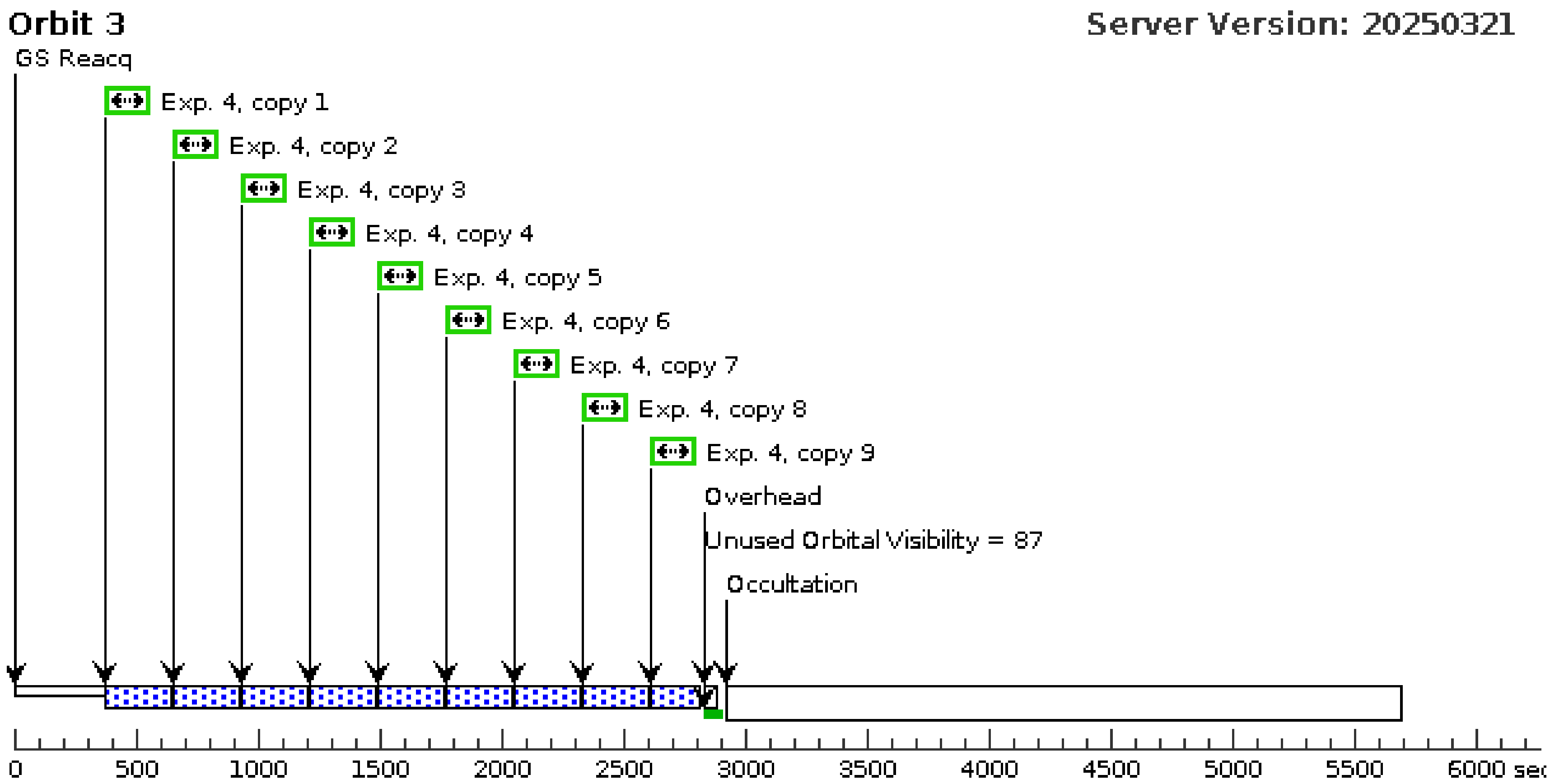
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Exp. 4, copy 6
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Exp. 4, copy 8
Exp. 4, copy 9
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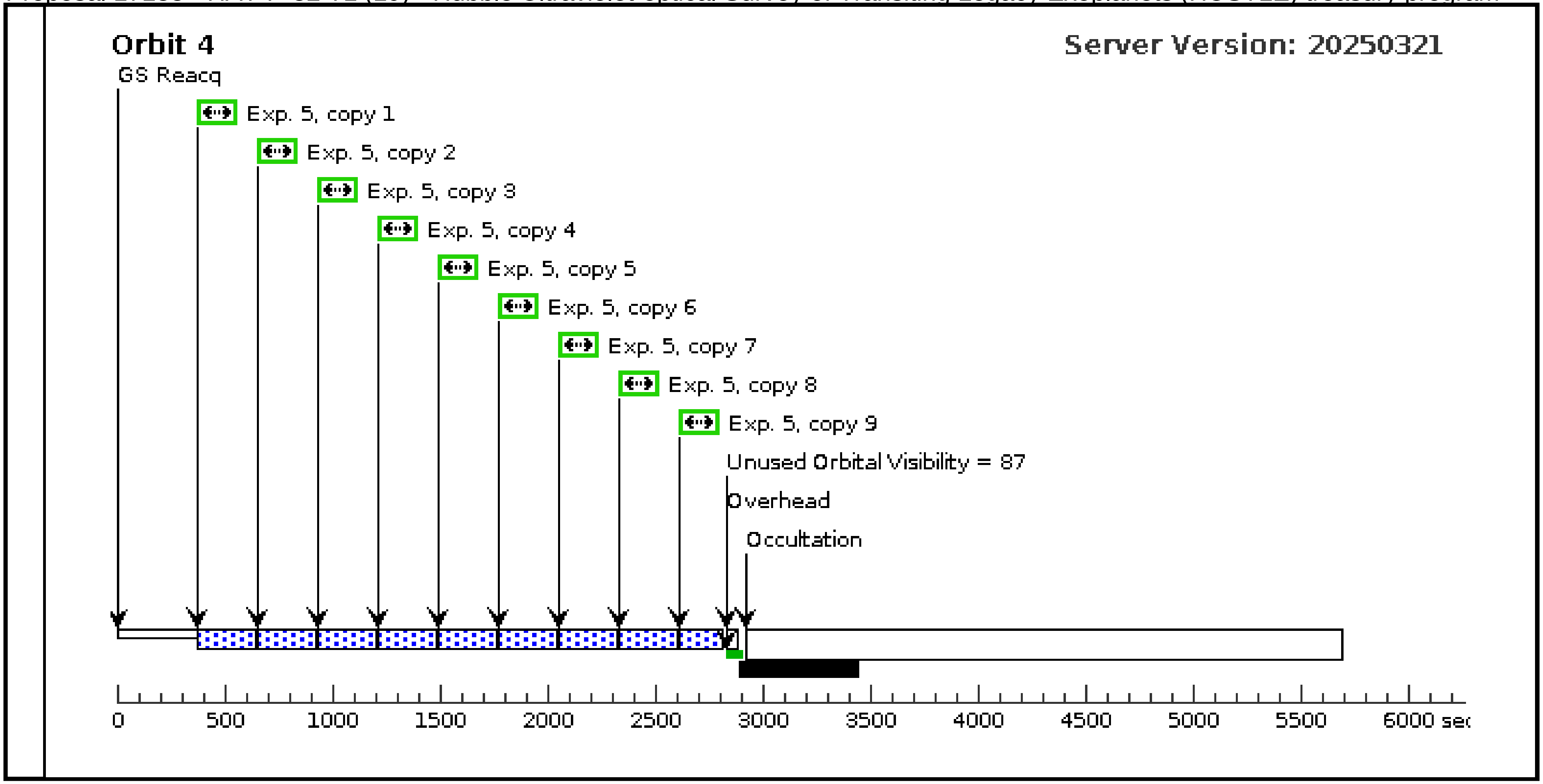

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Exp. 5, copy 8
Exp. 5, copy 9
Unused Orbital Visibility = 87
Overhead
Occultation
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1000
1500
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3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17183, HAT-P-32 T2 (29), completed Mon Jun 30 20:01:53 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 5D TO 29 D; ORIENT 79D TO 135 D; ORIENT 185D TO 209 D; ORIENT 259D TO 315 D; Period 2.15001 D AND ZERO-PHASE HJD2455867.40274

Comments: SIZEAXIS set to maximize data volume.
Based on ETC calculations with Castelli-Kurucz Models F8V 6250 4.0 at V mag = 11.3
G280 time to saturation = 262.38s
Orient contraints used to limit spectral overlap from two nearby sources
Centaxis paramters set based on previous program measurements (16039, 15838, 15288).
Y POSTARG differes from Visit 16 by 1" to place the spectra on a different part of the detector to avoid detector damage and test efficiency
Y POSTARG = -50.5 (moved by ~25 pixels)
Sub-array size differs from visit 96 by 40 pixels in SIZEAXIS1 and 10 pixels in SIZEAXIS2 to fit obs into new HST orbit length window

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(10)	HAT-P-32	RA: 02 04 10.2774 (31.0428225d) Dec: +46 41 16.21 (46.68784d) Equinox: J2000	Proper Motion RA: -9.548485613807059E-4 sec of time/yr Proper Motion Dec: 0.003477 arcsec/yr Epoch of Position: 2015.5	V=11.44	Reference Frame: SIMBAD

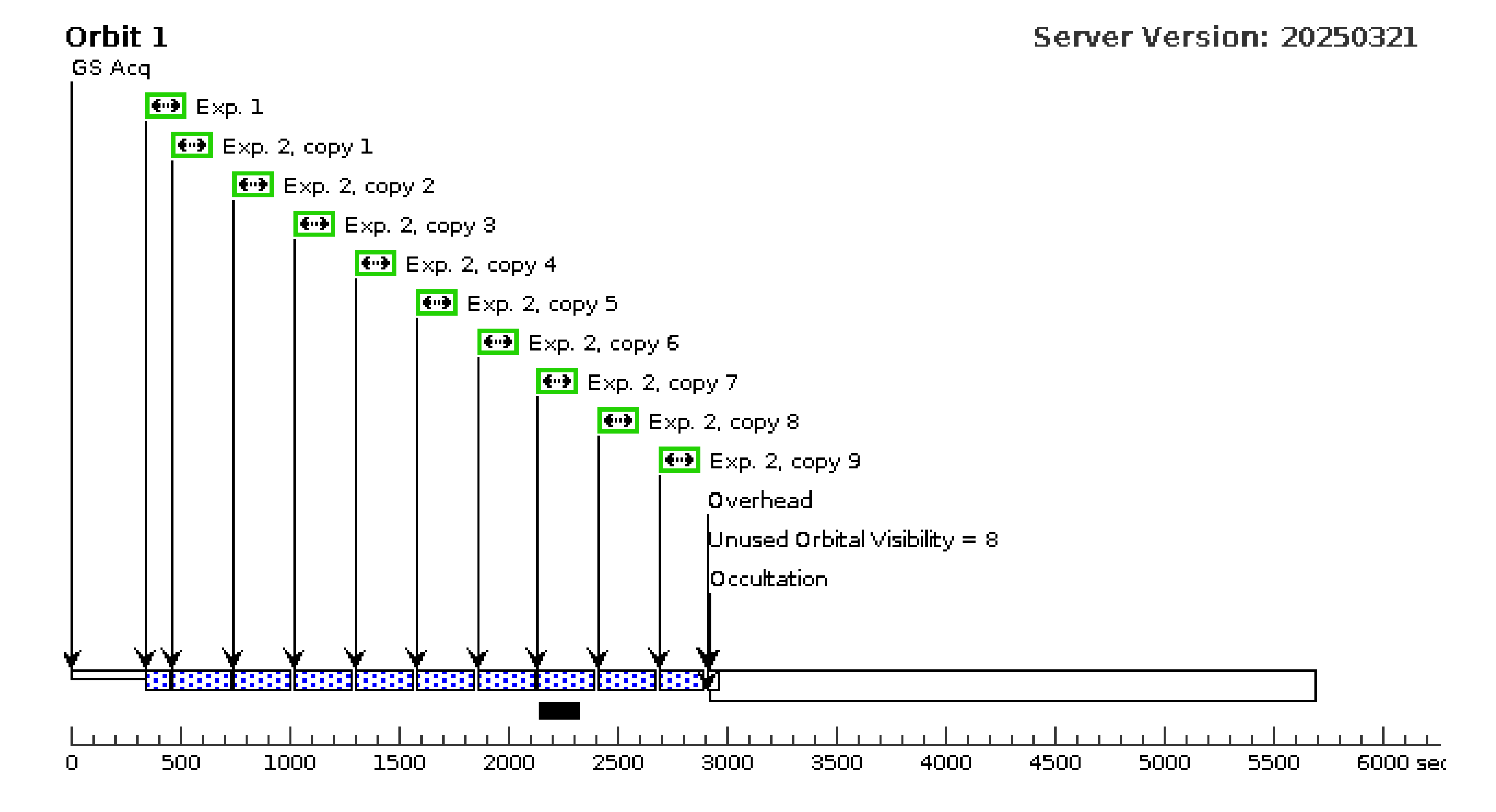
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANETARY SYSTEM]
Extended=NO

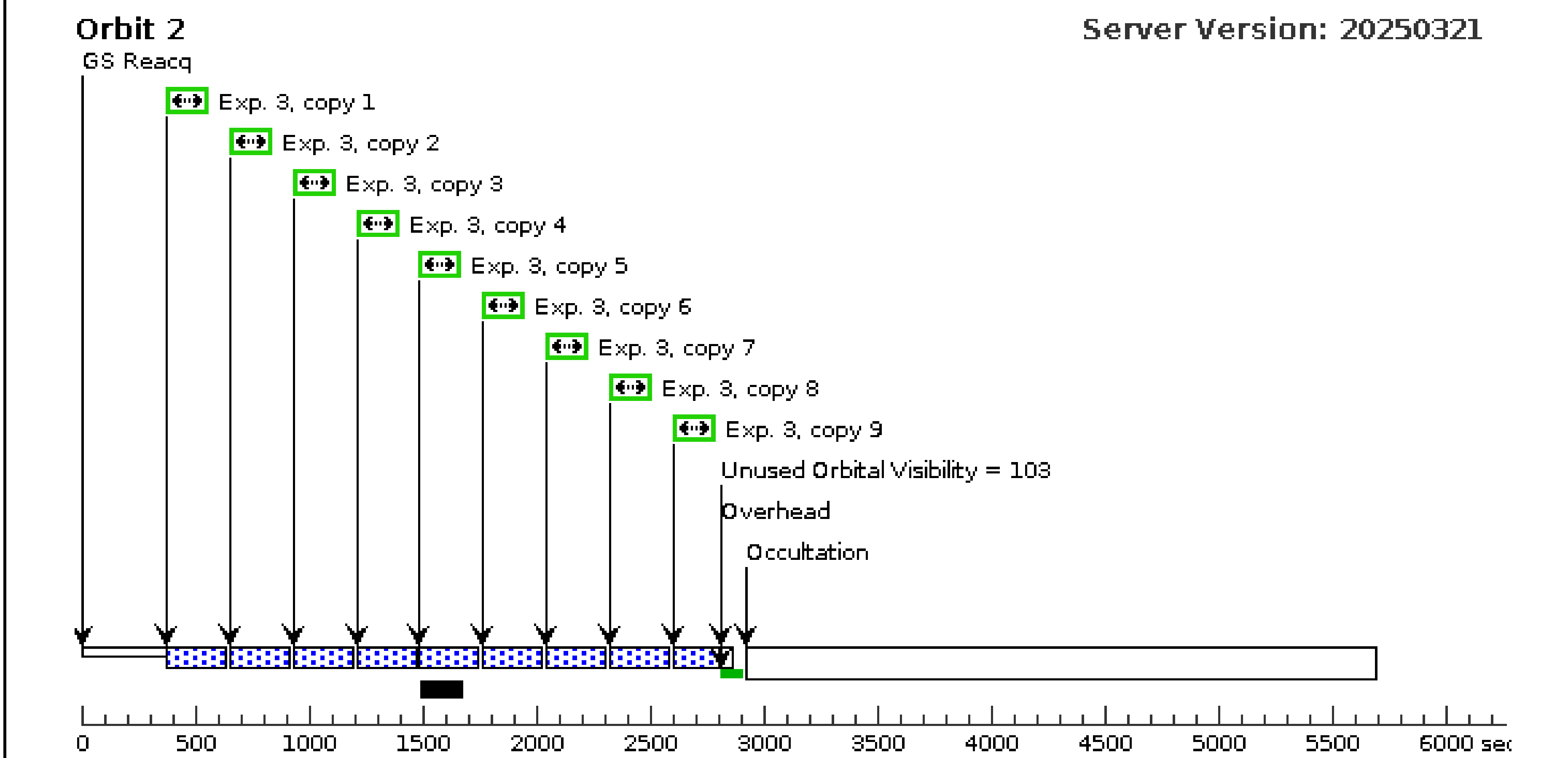
Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(10) HAT-P-32	WFC3/UVIS, ACCUM, G280-REF	F300X	FLASH=16; SIZEAXIS1=2060; SIZEAXIS2=590; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50.5; PHASE 0.942506679225171 TO 0.948966602907736	Sequence 1-2 Non-Int in HAT-P-32 T2 (29)	8 Secs (8 Secs) *[==>]*	*[1]*
2		(10) HAT-P-32	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2060; SIZEAXIS2=590; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=5	POS TARG null,-50.5	Sequence 1-2 Non-Int in HAT-P-32 T2 (29)	205 Secs X 9 (1845 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]*	*[1]*
3		(10) HAT-P-32	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2060; SIZEAXIS2=590; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=5	POS TARG null,-50.5	Sequence 3-3 Non-Int in HAT-P-32 T2 (29)	205 Secs X 9 (1845 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]*	*[2]*
4		(10) HAT-P-32	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2060; SIZEAXIS2=590; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=5	POS TARG null,-50.5	Sequence 4-4 Non-Int in HAT-P-32 T2 (29)	205 Secs X 9 (1845 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]*	*[3]*

	5	(10) HAT-P-32	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2060; SIZEAXIS2=590; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=5	POS TARG null,-50.5	Sequence 5-5 Non-Int in HAT-P-32 T2 (29)	205 Secs X 9 (1845 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]*	***[4]***

Orbit Structure

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Exp. 3, copy 6
Exp. 3, copy 7
Exp. 3, copy 8
Exp. 3, copy 9
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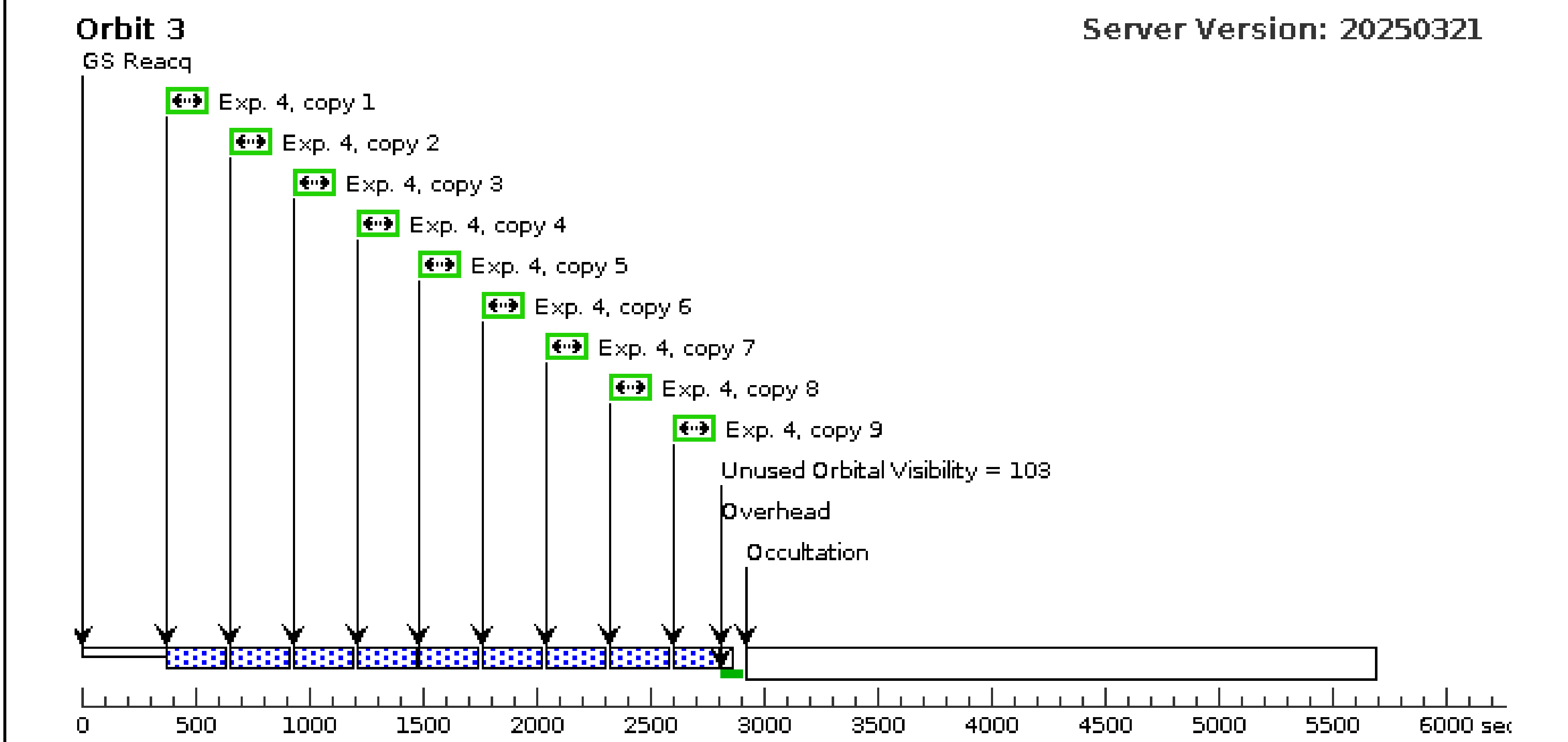
6000 sec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Exp. 4, copy 8
Exp. 4, copy 9
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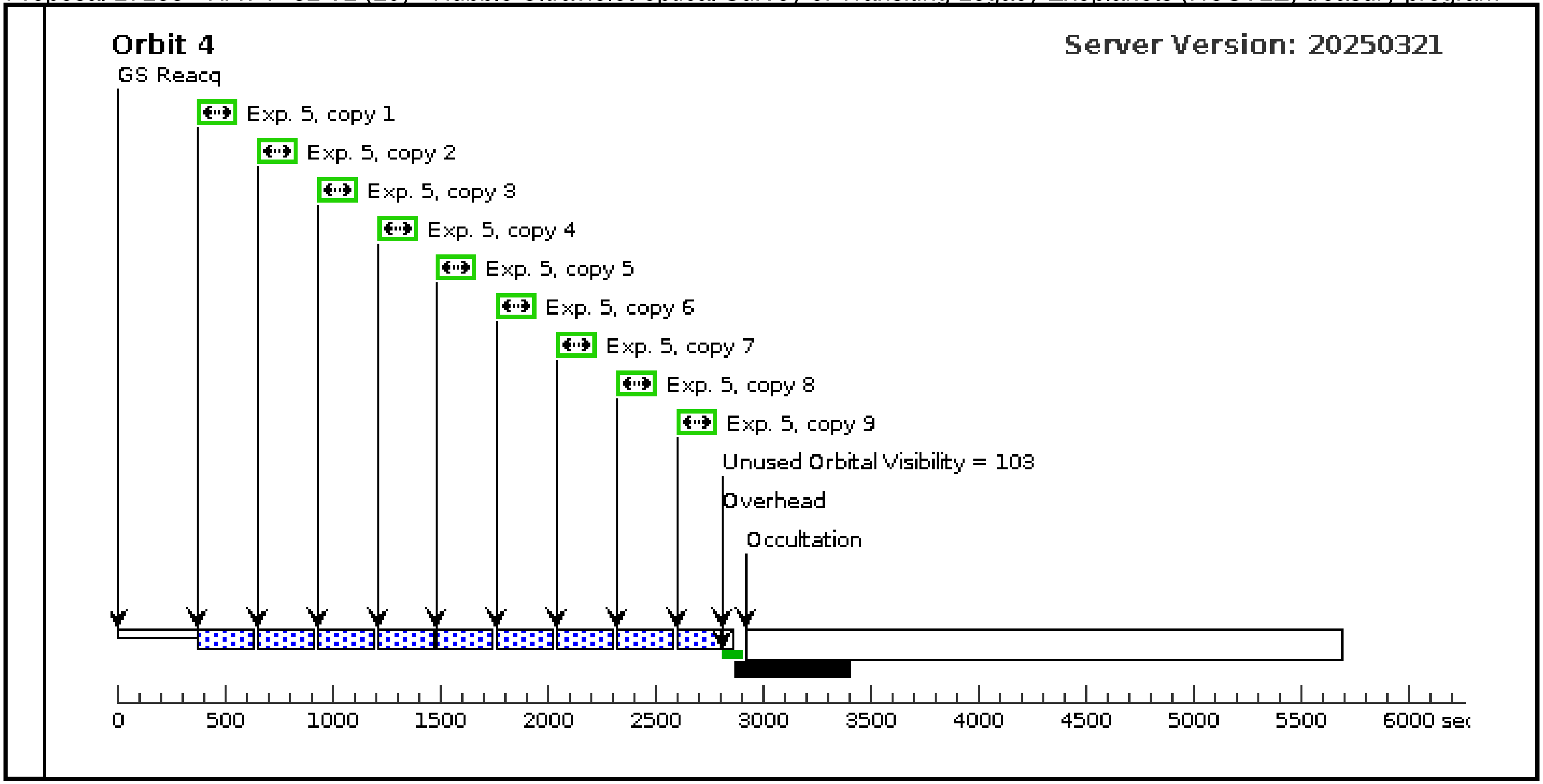
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Exp. 5, copy 8
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Unused Orbital Visibility = 103
Overhead
Occultation
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6000 sec

Visit

Proposal 17183, KELT-7 T1 (20), completed Mon Jun 30 20:01:53 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 83D TO 196 D; ORIENT 263D TO 16 D; Period 2.7347749 D AND ZERO-PHASE HJD2456355.2293

Comments: SIZEAXIS set to maximize data volume.
Based on ETC calculations with Castelli-Kurucz Models F5V 6500 4.0 at V mag = 8.54
G280 time to saturation = 19.4s
Orient contraints used to limit spectral overlap from one nearby source
Centaxis paramters set based on previous program measurements (16039, 15838, 15288).

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(11)	KELT-7	RA: 05 13 10.9289 (78.2955371d) Dec: +33 19 5.40 (33.31817d) Equinox: J2000	Proper Motion RA: 8.474191356582471E-4 sec of time/yr Proper Motion Dec: -0.0497790000963505 arcsec/yr Epoch of Position: 2015.5	V=8.54	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANETARY SYSTEM]
Extended=NO

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(11) KELT-7	WFC3/UVIS, ACCUM, G280-REF	F300X	FLASH=16; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50; PHASE 0.942611464787004 TO 0.947690096221782	Sequence 1-2 Non-Int in KELT-7 T1 (20)	1 Secs (1 Secs) *[==>]*	*[1]*
2		(11) KELT-7	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=15	POS TARG null,-50	Sequence 1-2 Non-Int in KELT-7 T1 (20)	16 Secs X 25 (400 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)]*	*[1]*

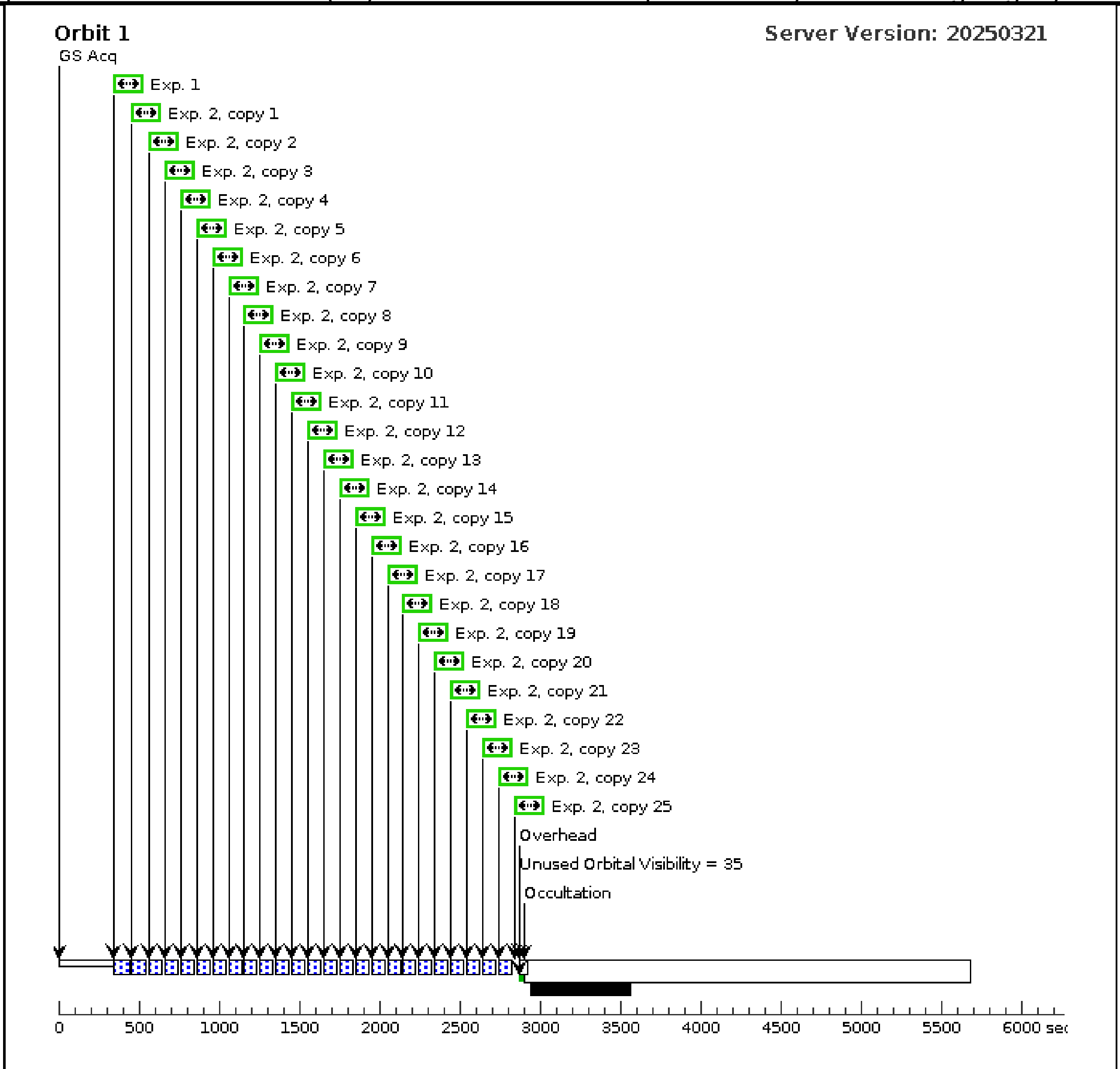
	3	(11) KELT-7	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=15	POS TARG null,-50	Sequence 3-3 Non-Int in KELT-7 T1 (20)	16 Secs X 26 (416 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 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)]*	***[2]***

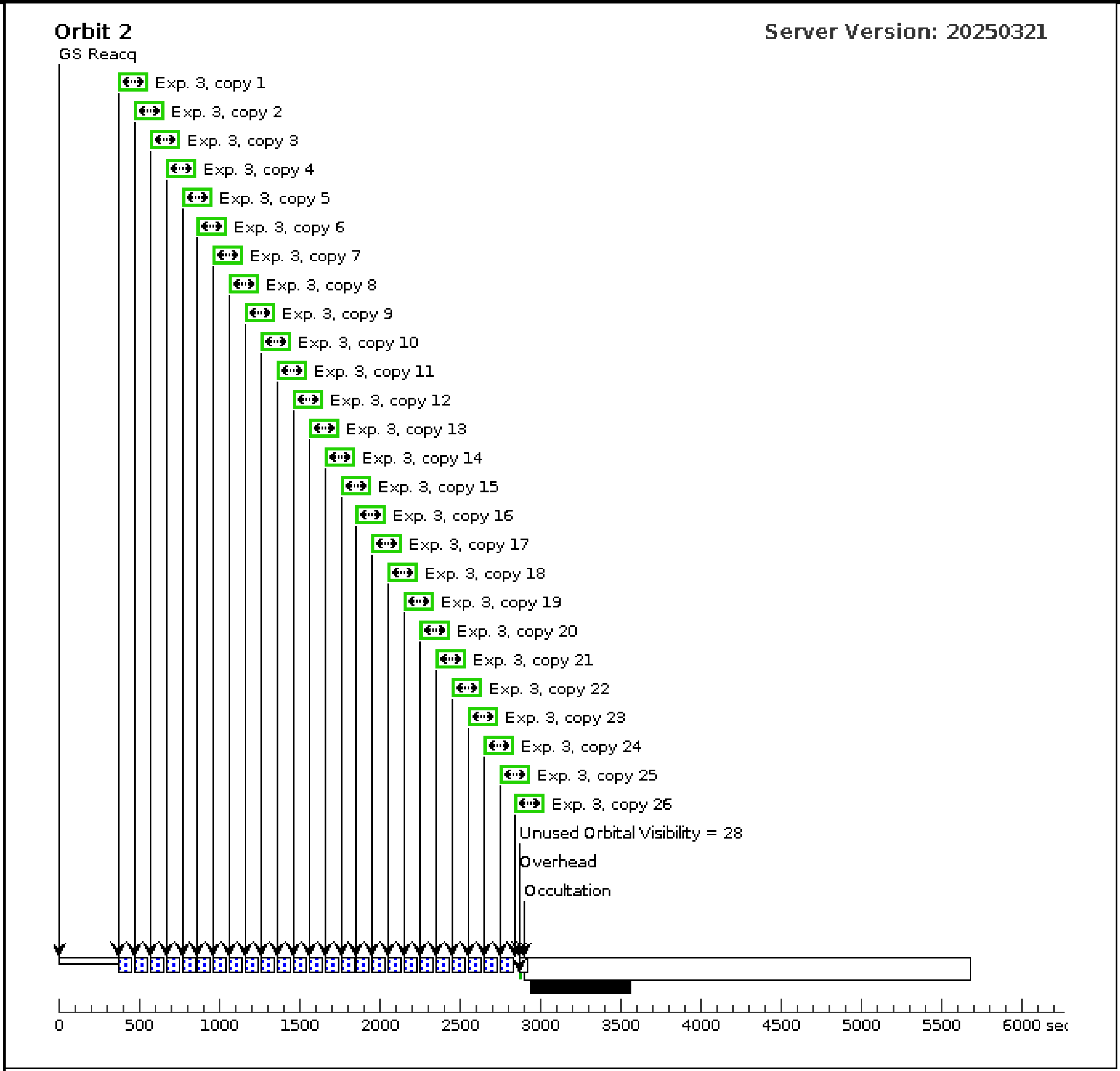
	4	(11) KELT-7	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=15	POS TARG null,-50	Sequence 4-4 Non-Int in KELT-7 T1 (20)	16 Secs X 26 (416 Secs)	
								[==>(Copy 1)] *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(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)]*	***[3]***

	5	(11) KELT-7	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=15	POS TARG null,-50	Sequence 5-5 Non-Int in KELT-7 T1 (20)	16 Secs X 26 (416 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)]*	***[4]***

	6	(11) KELT-7	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=15	POS TARG null,-50	Sequence 6-6 Non-Int in KELT-7 T1 (20)	16 Secs X 26 (416 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)]*	***[5]***

Orbit Structure

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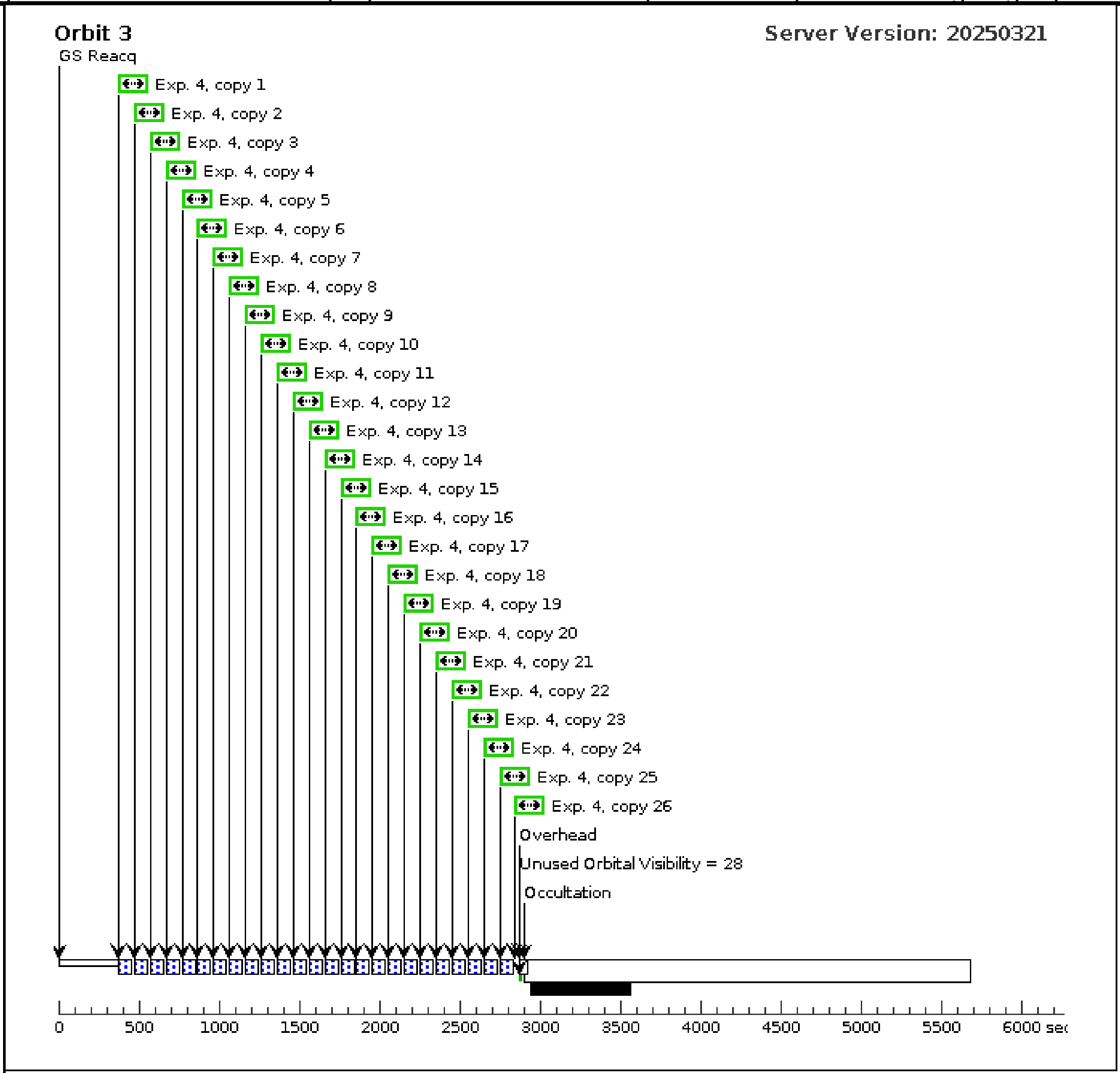
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Exp. 4, copy 21
Exp. 4, copy 22
Exp. 4, copy 23
Exp. 4, copy 24
Exp. 4, copy 25
Exp. 4, copy 26
Overhead
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Occultation
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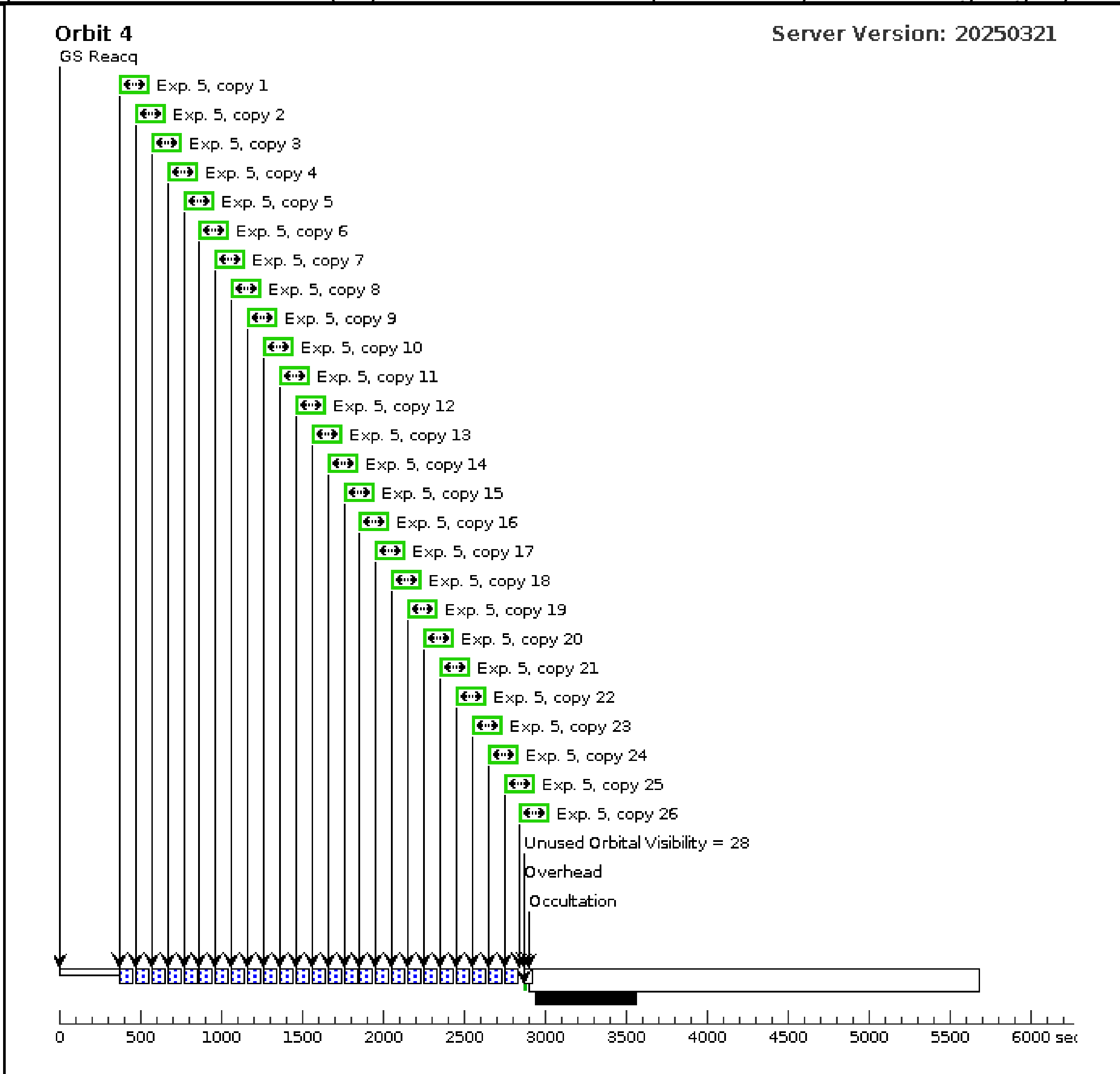
6000 sec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Exp. 5, copy 21
Exp. 5, copy 22
Exp. 5, copy 23
Exp. 5, copy 24
Exp. 5, copy 25
Exp. 5, copy 26
Unused Orbital Visibility = 28
Overhead
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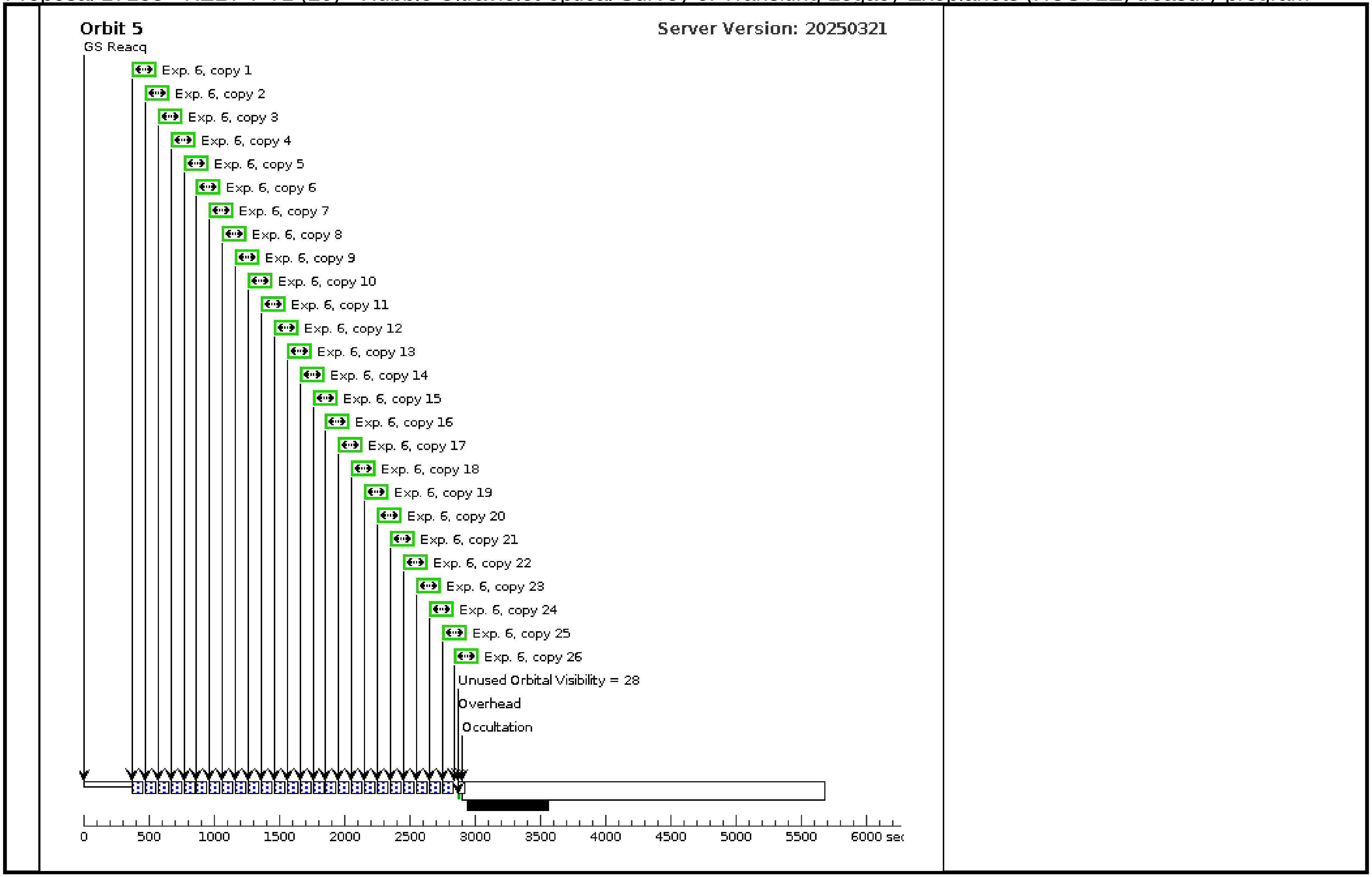
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Exp. 6, copy 24
Exp. 6, copy 25
Exp. 6, copy 26
Unused Orbital Visibility = 28
Overhead
Occultation
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2000
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4500
5000
5500
6000 sec

Visit

Proposal 17183, WASP-76 T1 (21), completed Mon Jun 30 20:01:53 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; ORIENT 293D TO 42 D; ORIENT 110D TO 215 D; ORIENT 241D TO 255 D; ORIENT 64D TO 75 D; Period 1.8098798 D AND ZERO-PHASE HJD2458053.47655

Comments: SIZEAXIS set to maximize data volume.
Based on ETC calculations with Castelli-Kurucz Models F8V 6250 4.0 at V mag = 9.5
G280 time to saturation = 49.99s
Orient contraints used to limit spectral overlap from one nearby source
Centaxis paramters set based on previous program measurements (16039, 15838, 15288).

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(12)	WASP-76	RA: 01 46 31.9046 (26.6329358d) Dec: +02 42 1.40 (2.70039d) Equinox: J2000	Proper Motion RA: 0.0030298978679726327 sec of time/yr Proper Motion Dec: -0.0408189999689057 arcsec/yr Epoch of Position: 2015.5	V=9.52	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(12) WASP-76	WFC3/UVIS, ACCUM, G280-REF	F300X	FLASH=16; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50; PHASE 0.913284900571392 TO 0.920958803175694	Sequence 1-2 Non-Int in WASP-76 T1 (21)	2 Secs (2 Secs) *[==>]*	*[1]*
2		(12) WASP-76	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=14	POS TARG null,-50	Sequence 1-2 Non-Int in WASP-76 T1 (21)	35 Secs X 22 (770 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)]*	*[1]*

	3	(12) WASP-76	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=14	POS TARG null,-50	Sequence 3-3 Non-Int in WASP-76 T1 (21)	35 Secs X 23 (805 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)]*	***[2]***

	4	(12) WASP-76	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=14	POS TARG null,-50	Sequence 4-4 Non-Int in WASP-76 T1 (21)	35 Secs X 23 (805 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)]*	***[3]***

	5	(12) WASP-76	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=14	POS TARG null,-50	Sequence 5-5 Non-Int in WASP-76 T1 (21)	35 Secs X 23 (805 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)]*	***[4]***

	6	(12) WASP-76	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=14	POS TARG null,-50	Sequence 6-6 Non-Int in WASP-76 T1 (21)	35 Secs X 23 (805 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)]*	***[5]***

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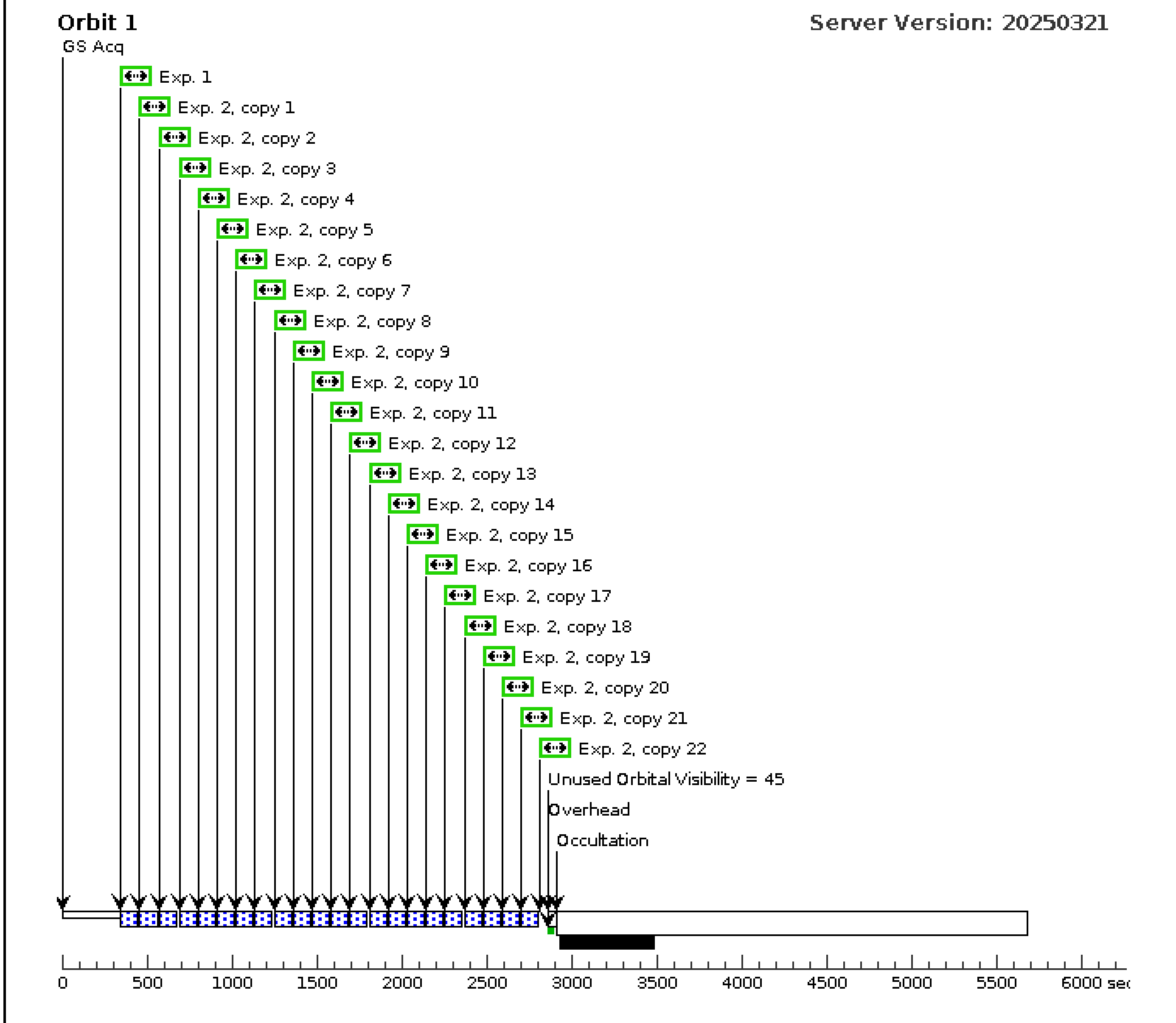

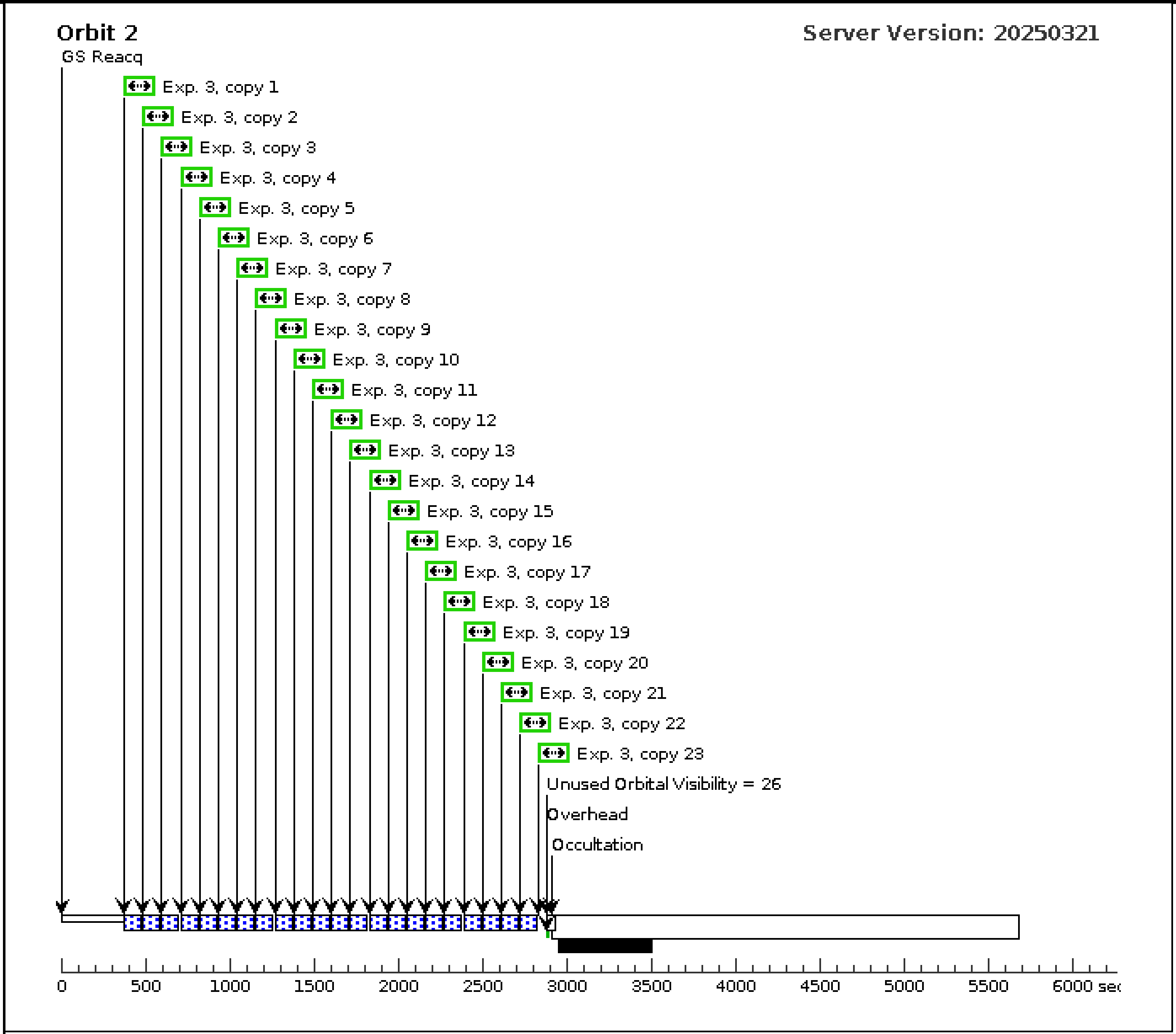

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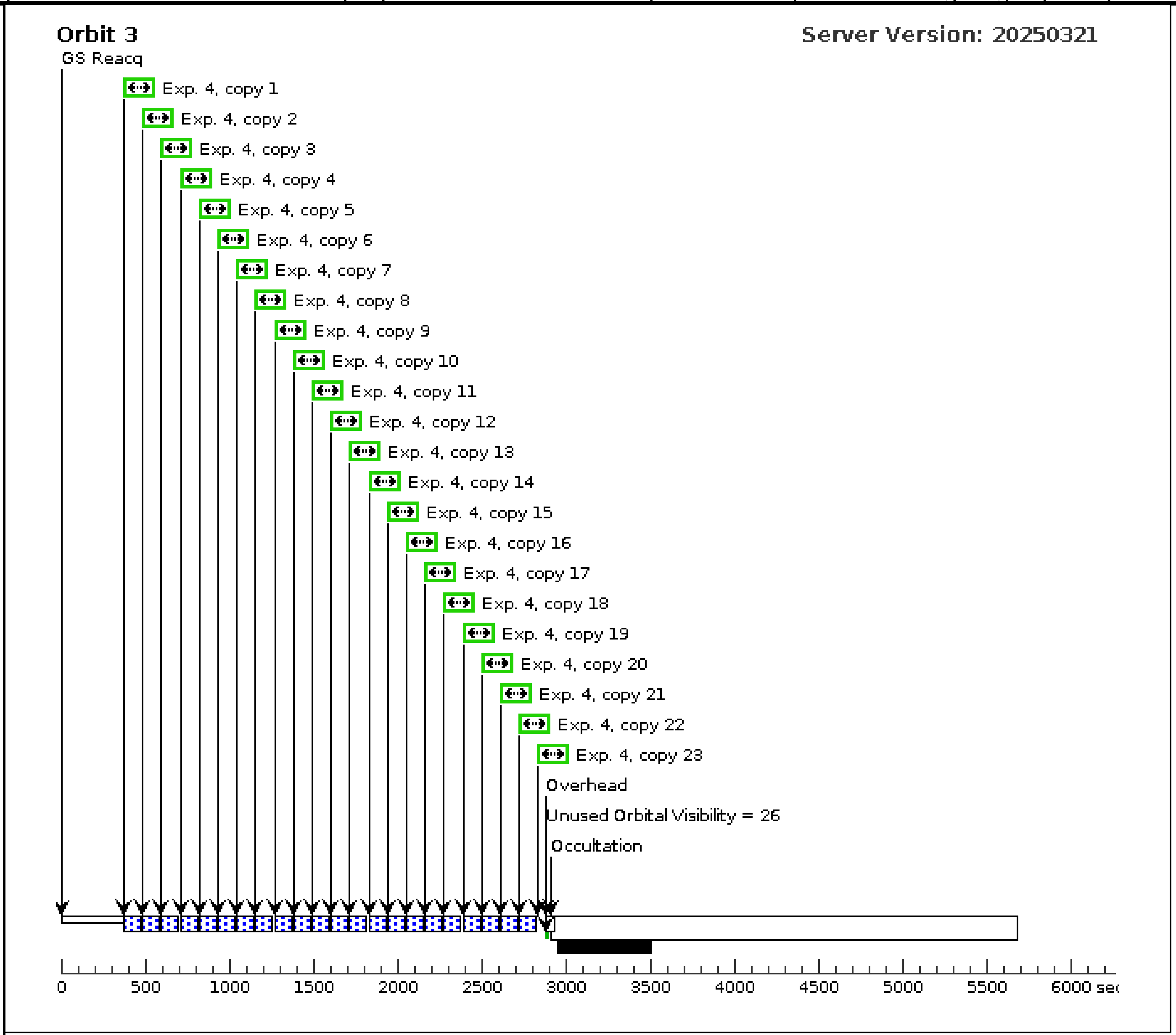
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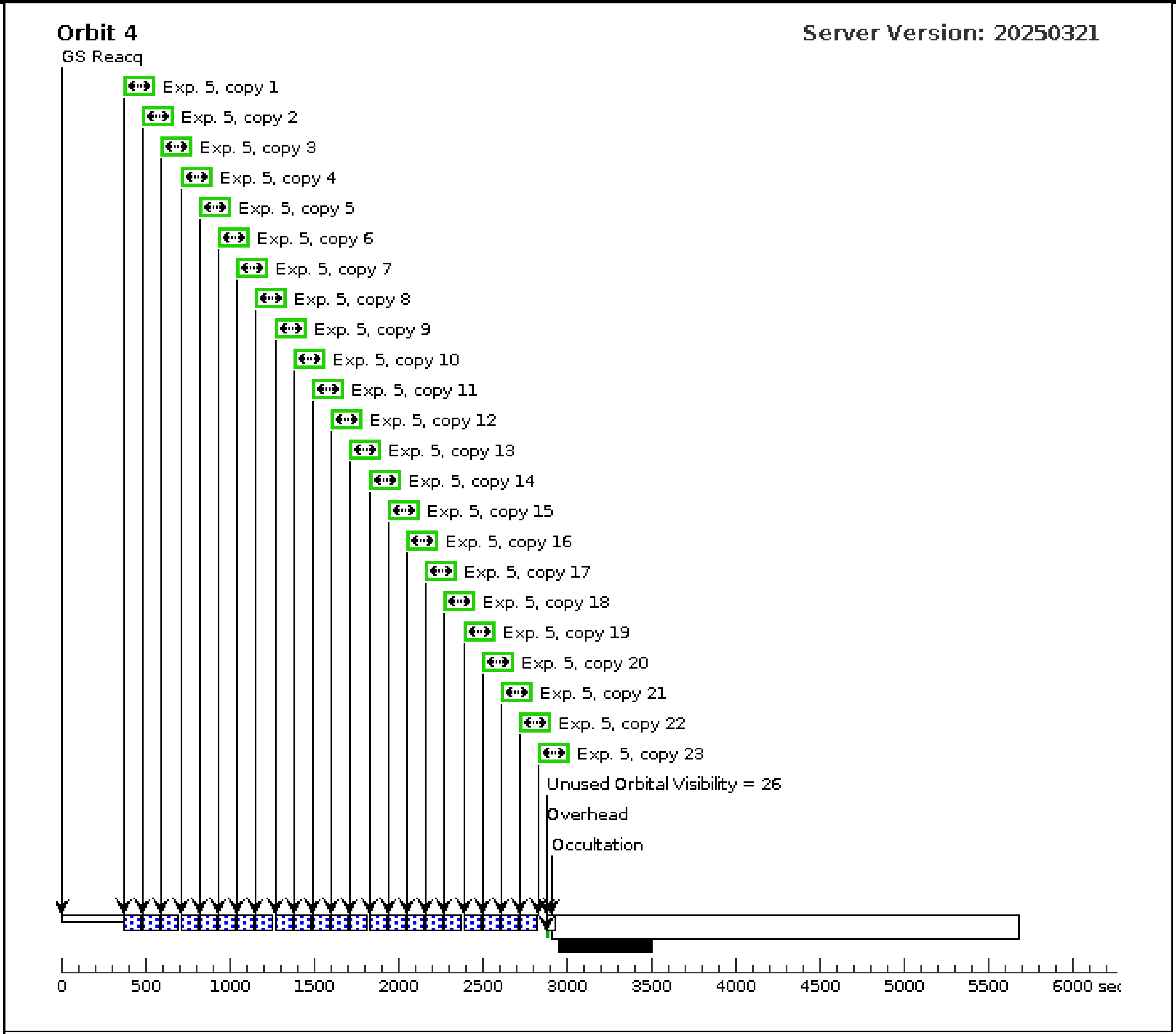
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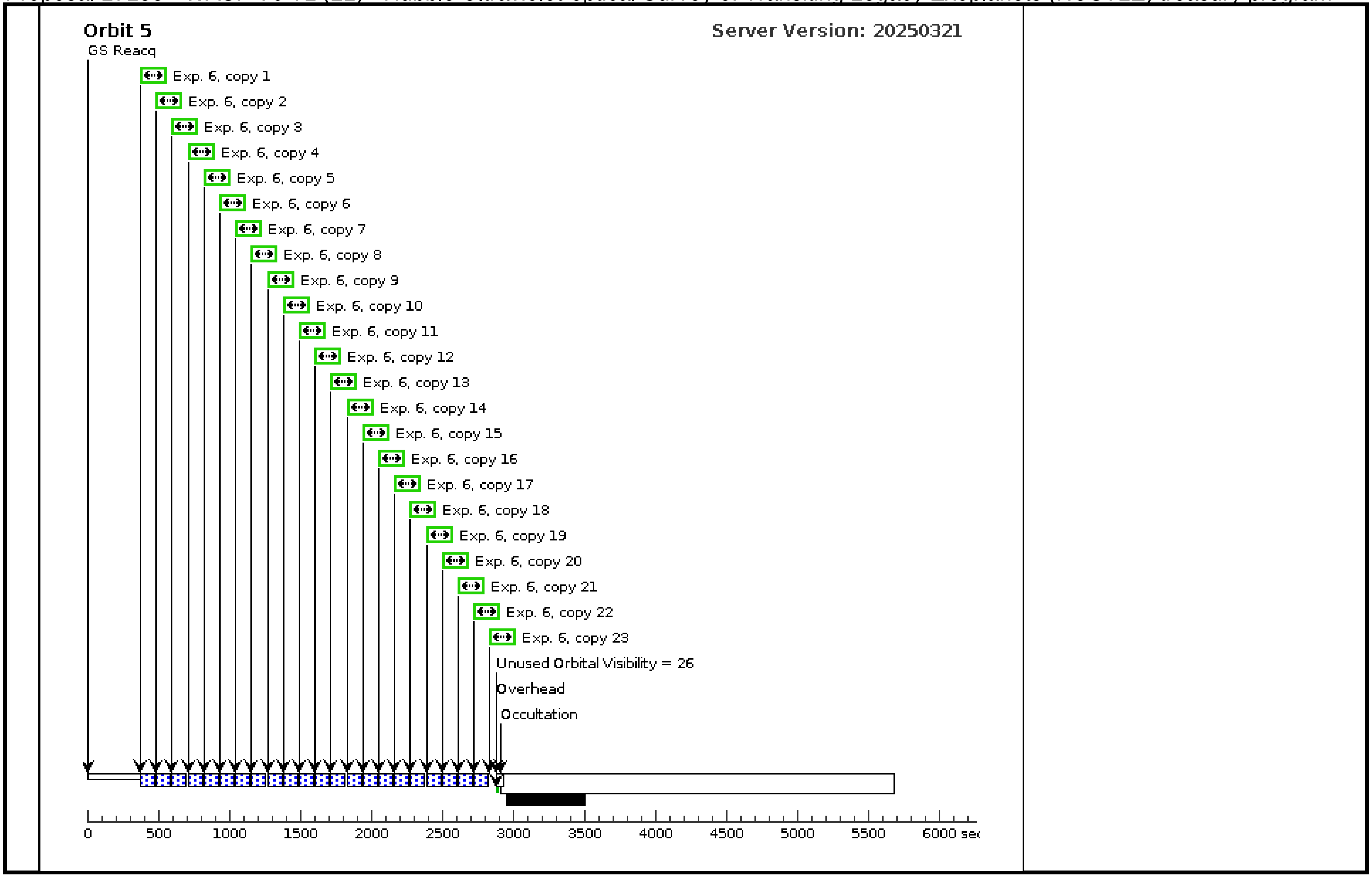
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Unused Orbital Visibility = 26
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Visit

Proposal 17183, WASP-189 T1 (22), completed Mon Jun 30 20:01:54 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; Period 2.724033 D AND ZERO-PHASE HJD2456706.4545

Comments: SIZEAXIS set to maximize data volume.
Based on ETC calculations with Castelli-Kurucz Models A5V 8250 4.0 at V mag = 6.62
G280 time to saturation = 2.09s
For this bright target, we saturate the +1 order in 2.09 s which could potentially introduce jitter issues due to the shutter speed which has a photometric error of 0.004/integration. In order to mitigate for the shutter timing jitter, we will saturate the +1 order and use the -1 spectral order as our many science spectrum. The -1 order has a peak throughput approximately 5x lower than the +1 order (see Fig 8.3 in the WFC3 Handbook and Fig 1 of Wakeford et al. 2020). We therefore increase our exposure time to 9 s to reach 87% full well on the -1 spectral order.

No known nearby sources to avoid
Centaxis paramters set based on previous program measurements (16039, 15838, 15288).
WASP-189 T1, T2, and T3 are all conducted with the same set-up

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(13)	WASP-189	RA: 15 02 44.8679 (225.6869496d) Dec: -03 01 52.99 (-3.03139d) Equinox: J2000	Proper Motion RA: -0.0033695819847724936 sec of time/yr Proper Motion Dec: -0.023754999938319088 arcsec/yr Epoch of Position: 2015.5	V=6.618	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANETARY SYSTEM]
Extended=NO

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(13) WASP-189	WFC3/UVIS, ACCUM, G280-REF	F300X	FLASH=16; SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50; PHASE 0.93014850489044 TO 0.93524715416851	Sequence 1-2 Non-Int in WASP-189 T1 (22)	1 Secs (1 Secs) *[==>]*	*[1]*
2		(13) WASP-189	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=16	POS TARG null,-50	Sequence 1-2 Non-Int in WASP-189 T1 (22)	9 Secs X 27 (243 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]*

	3	(13) WASP-189	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=16	POS TARG null,-50	Sequence 3-3 Non-Int in WASP-189 T1 (22)	9 Secs X 28 (252 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]***

	4	(13) WASP-189	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=16	POS TARG null,-50	Sequence 4-4 Non-Int in WASP-189 T1 (22)	9 Secs X 28 (252 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]***

	5	(13) WASP-189	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=16	POS TARG null,-50	Sequence 5-5 Non-Int in WASP-189 T1 (22)	9 Secs X 28 (252 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	(13) WASP-189	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=16	POS TARG null,-50	Sequence 6-6 Non-Int in WASP-189 T1 (22)	9 Secs X 28 (252 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)]*	***[5]***

	7	(13) WASP-189	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=600; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=16	POS TARG null,-50	Sequence 7-7 Non-Int in WASP-189 T1 (22)	9 Secs X 28 (252 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)]*	***[6]***

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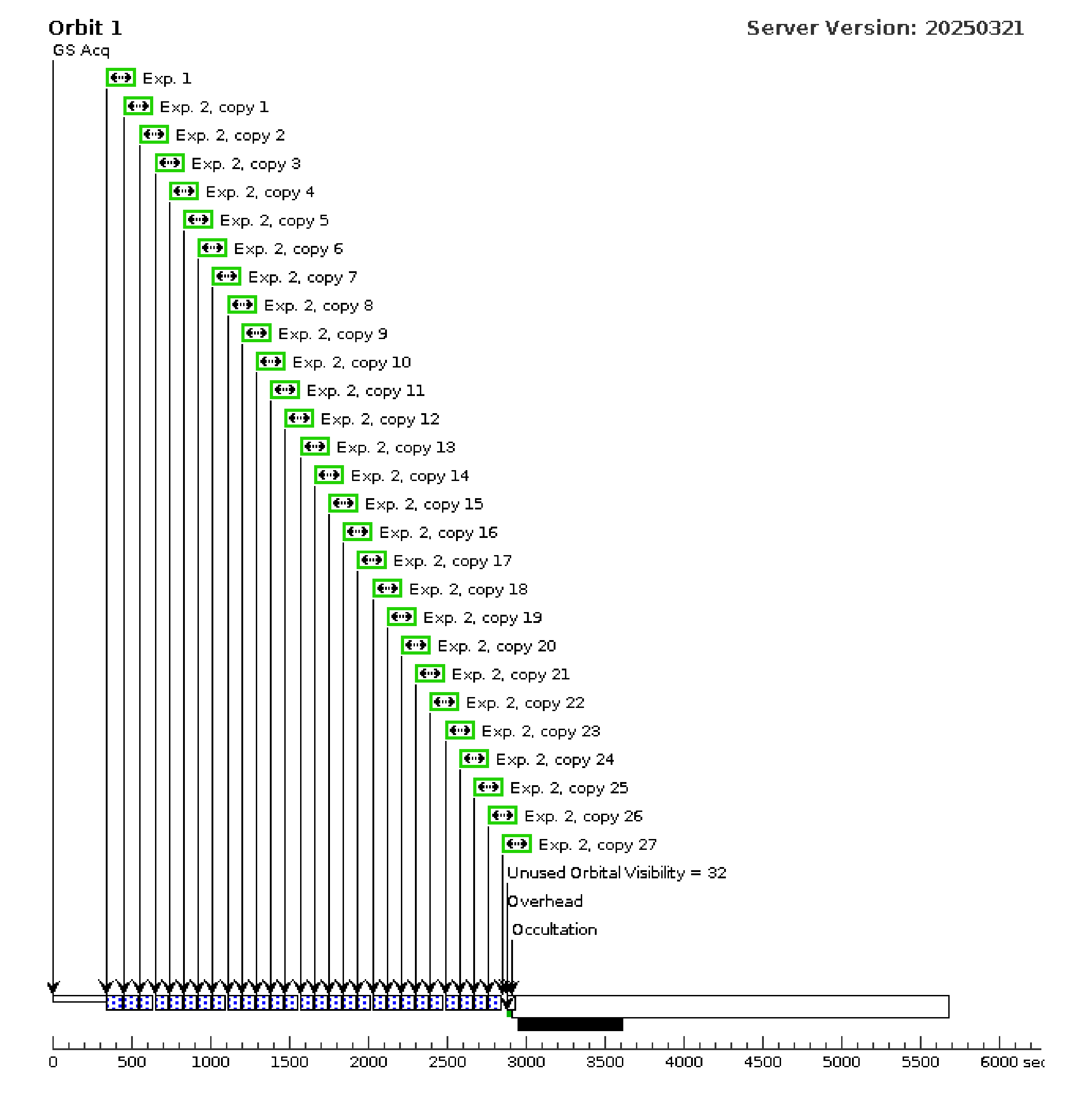

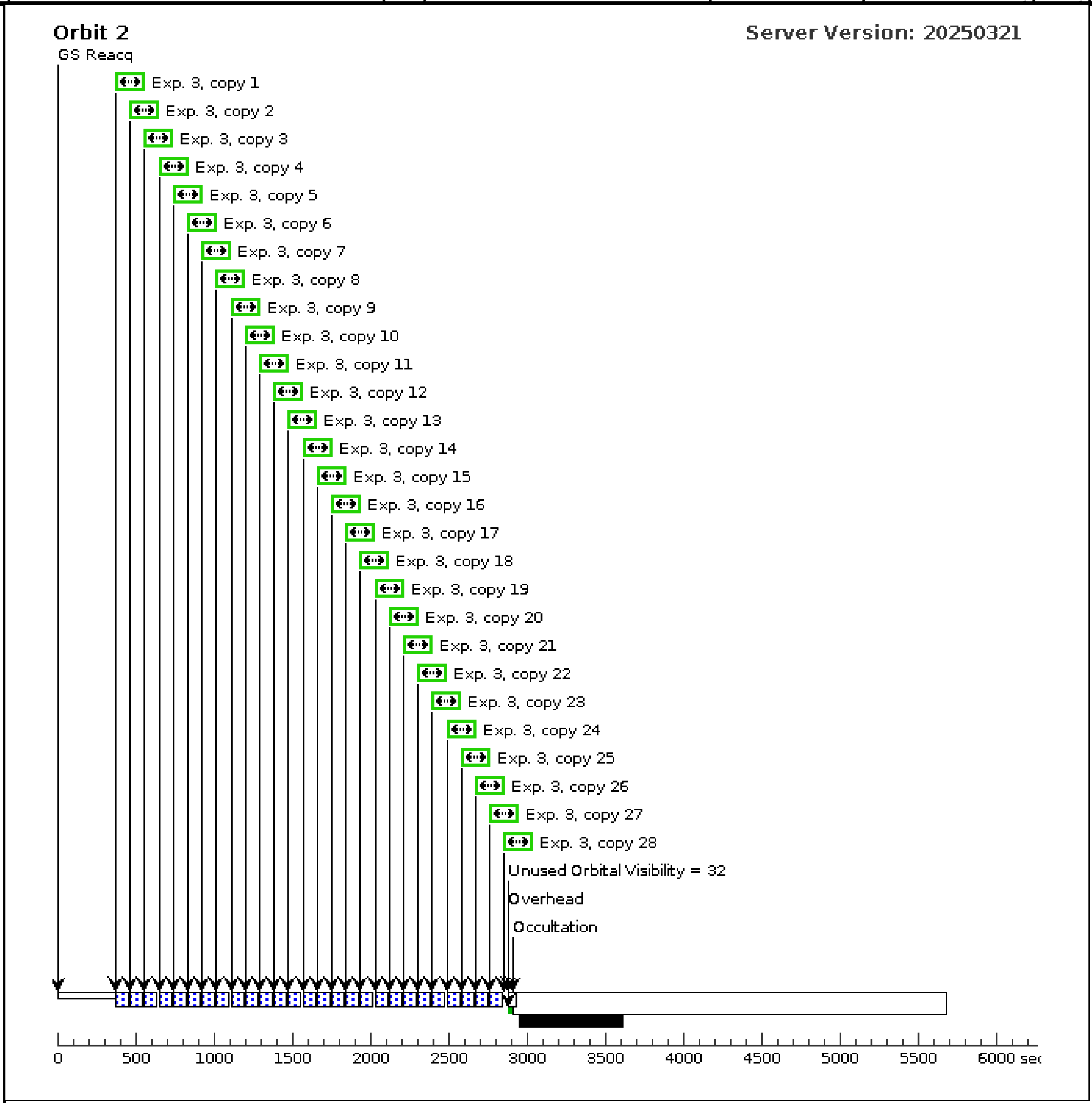
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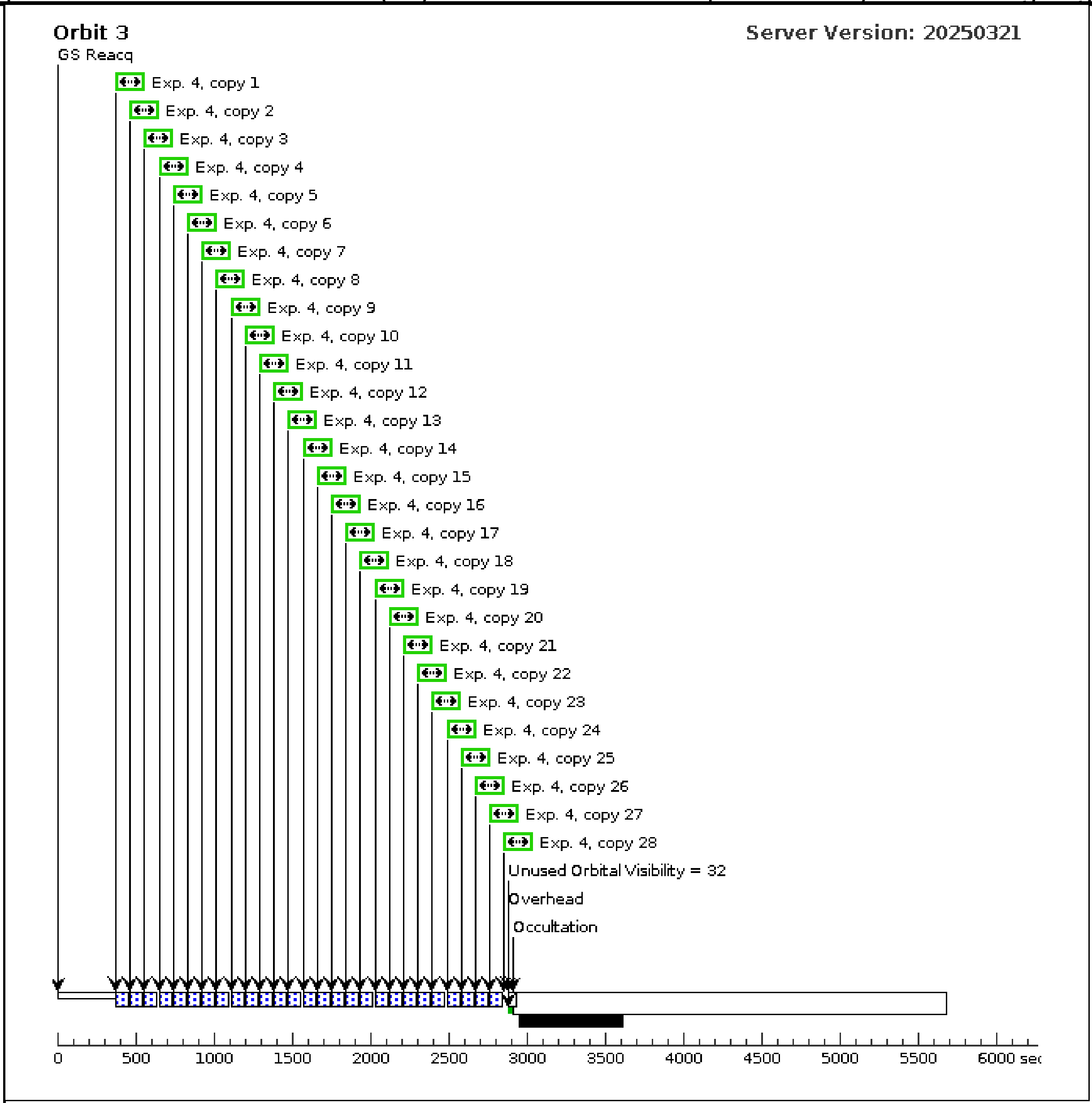
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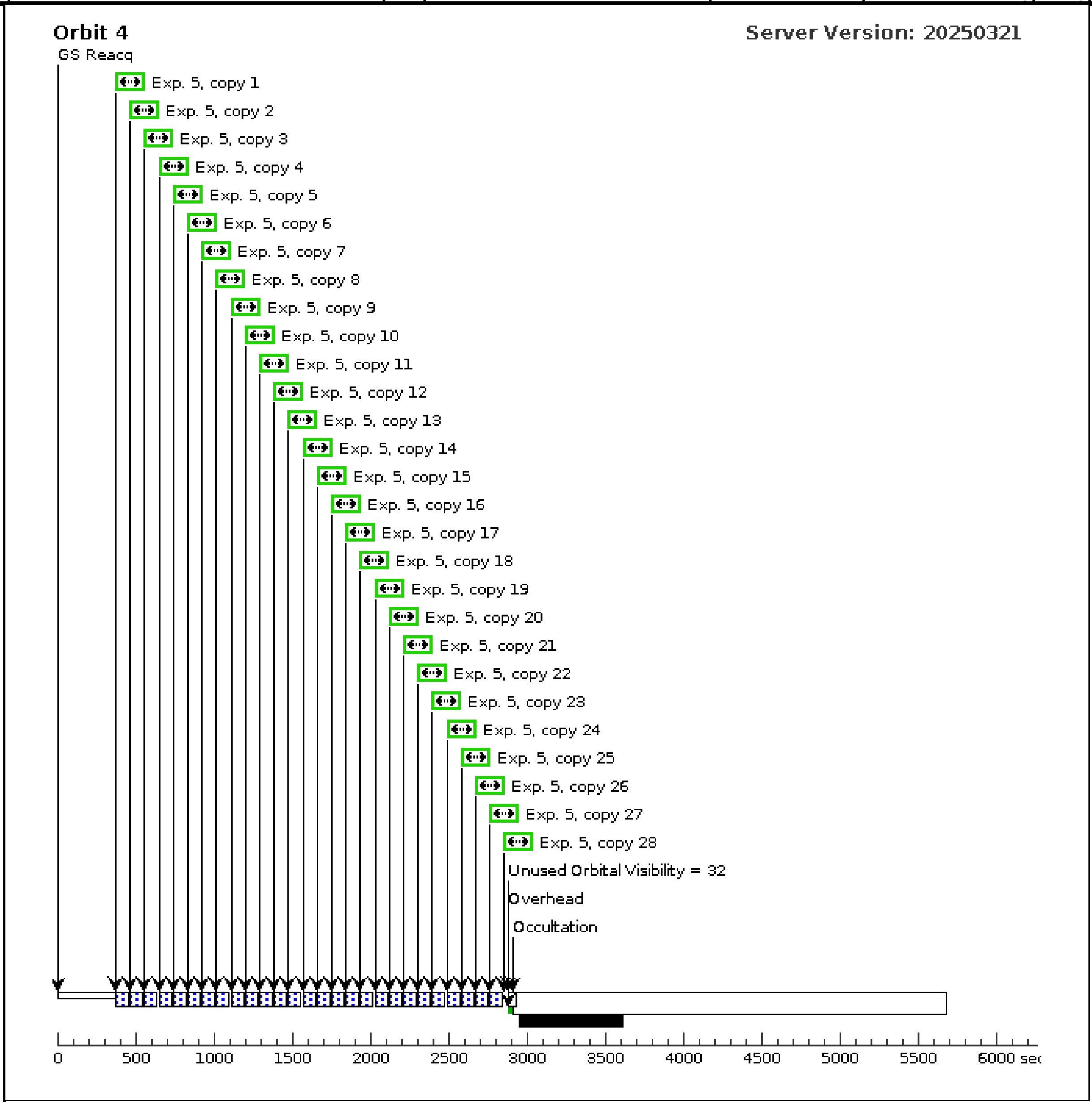
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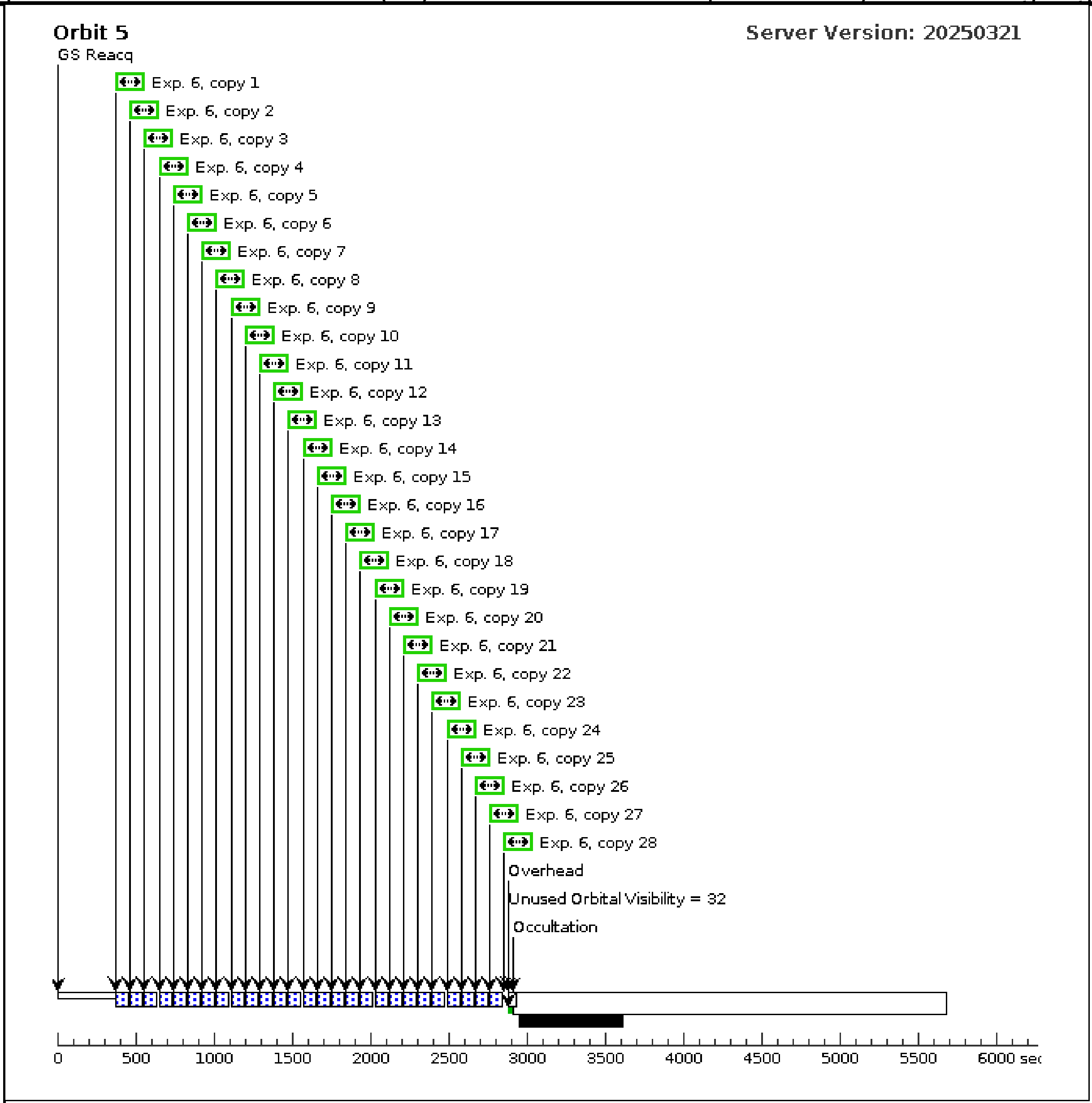

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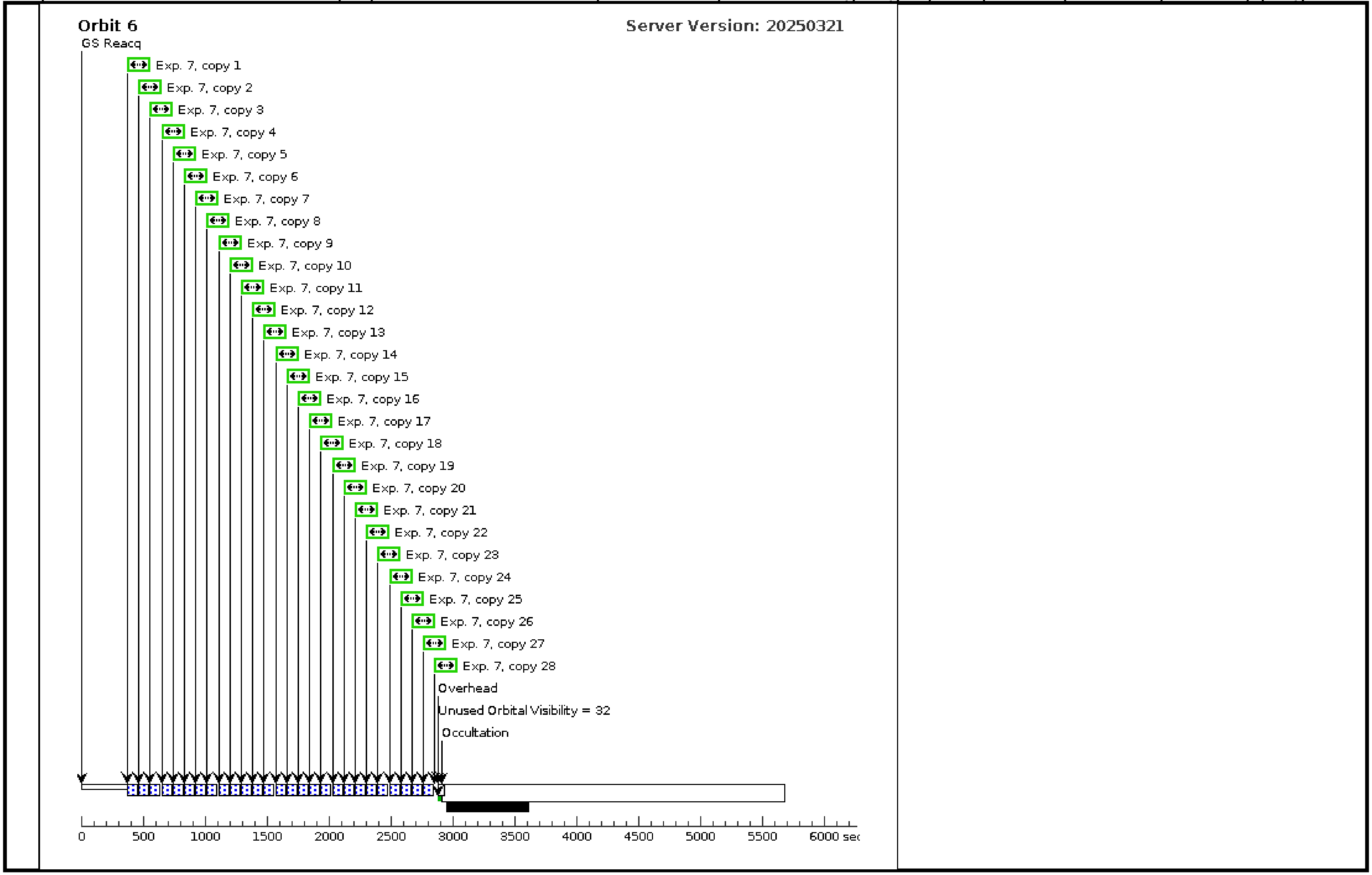
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Visit

Proposal 17183, WASP-189 T2 (23), completed Mon Jun 30 20:01:54 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; AFTER 31-DEC-2023:00:00:00; Period 2.724033 D AND ZERO-PHASE HJD2456706.4545

Comments: SIZEAXIS set to maximize data volume.
Based on ETC calculations with Castelli-Kurucz Models A5V 8250 4.0 at V mag = 6.62
G280 time to saturation = 2.09s
For this bright target, we saturate the +1 order in 2.09 s which could potentially introduce jitter issues due to the shutter speed which has a photometric error of 0.004/integration.
OLD: In order to mitigate for the shutter timing jitter, we will saturate the +1 order and use the -1 spectral order as our many science spectrum. The -1 order has a peak throughput approximately 5x lower than the +1 order (see Fig 8.3 in the WFC3 Handbook and Fig 1 of Wakeford et al. 2020). We therefore increase our exposure time to 9 s to reach 87% full well on the -1 spectral order.
NEW: We will expose for 2s to reach a peak of 65K e- in the +1 spectral trace. This new strategy was implemented following calibration tests to quantify the effect of jitter confirming that it should not dramatically impact the SNR.

No known nearby sources to avoid
Centaxis paramters set based on previous program measurements (16039, 15838, 15288).
WASP-189 T1, T2, and T3 are all conducted with the same set-up

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(13)	WASP-189	RA: 15 02 44.8679 (225.6869496d) Dec: -03 01 52.99 (-3.03139d) Equinox: J2000	Proper Motion RA: -0.0033695819847724936 sec of time/yr Proper Motion Dec: -0.023754999938319088 arcsec/yr Epoch of Position: 2015.5	V=6.618	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANETARY SYSTEM]
Extended=NO

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(13) WASP-189	WFC3/UVIS, ACCUM, G280-REF	F300X	FLASH=16; SIZEAXIS1=2100; SIZEAXIS2=500; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50; PHASE 0.93014850489044 TO 0.93524715416851	Sequence 1-2 Non-Int in WASP-189 T2 (23)	1 Secs (1 Secs) [==>]	[1]
2		(13) WASP-189	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=500; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=16	POS TARG null,-50	Sequence 1-2 Non-Int in WASP-189 T2 (23)	2 Secs X 32 (64 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)]	[1]

	3	(13) WASP-189	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=500; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=16	POS TARG null,-50	Sequence 3-3 Non-Int in WASP-189 T2 (23)	2 Secs X 33 (66 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[2]***

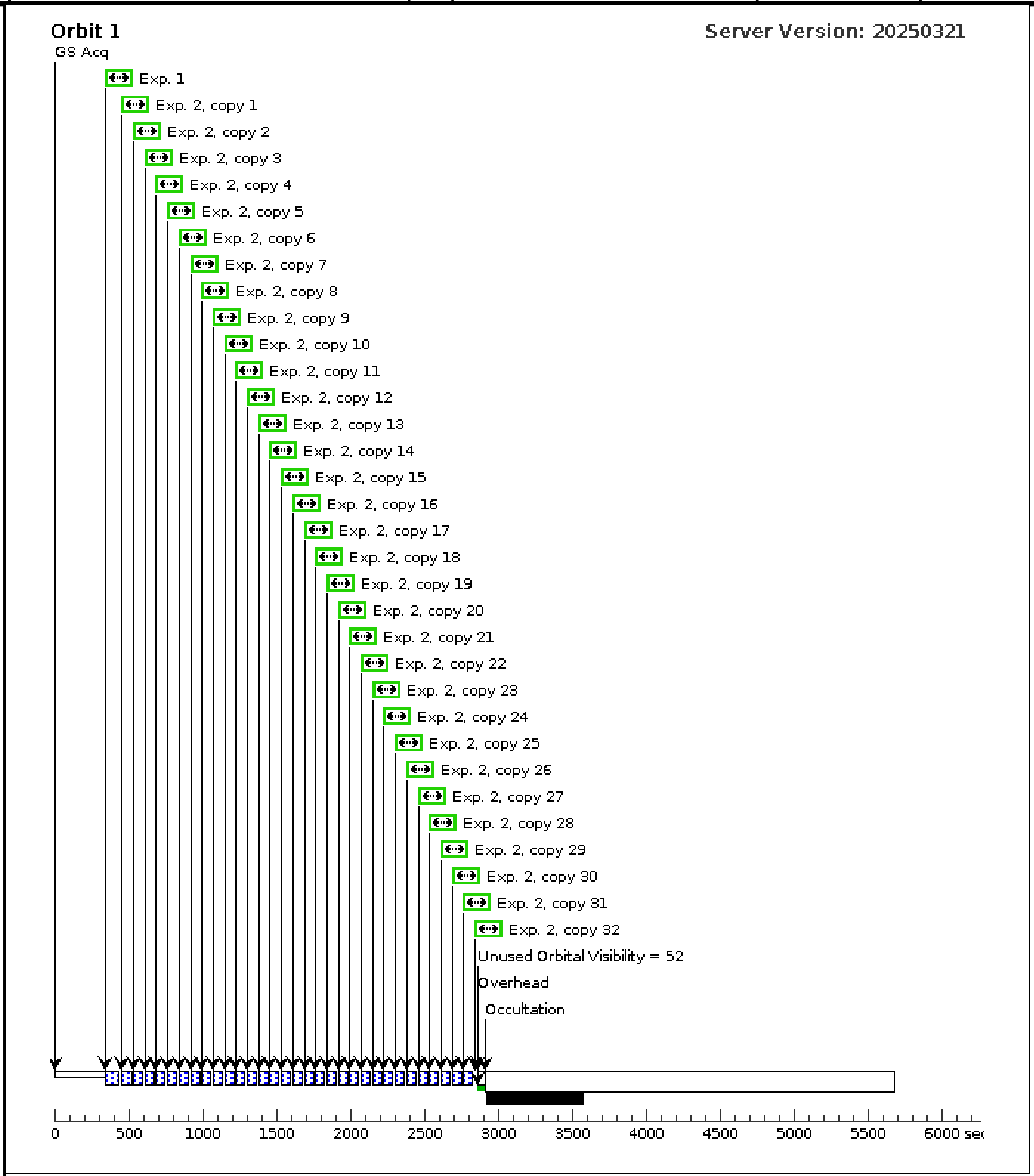
	4	(13) WASP-189	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=500; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=16	POS TARG null,-50	Sequence 4-4 Non-Int in WASP-189 T2 (23)	2 Secs X 33 (66 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[3]***

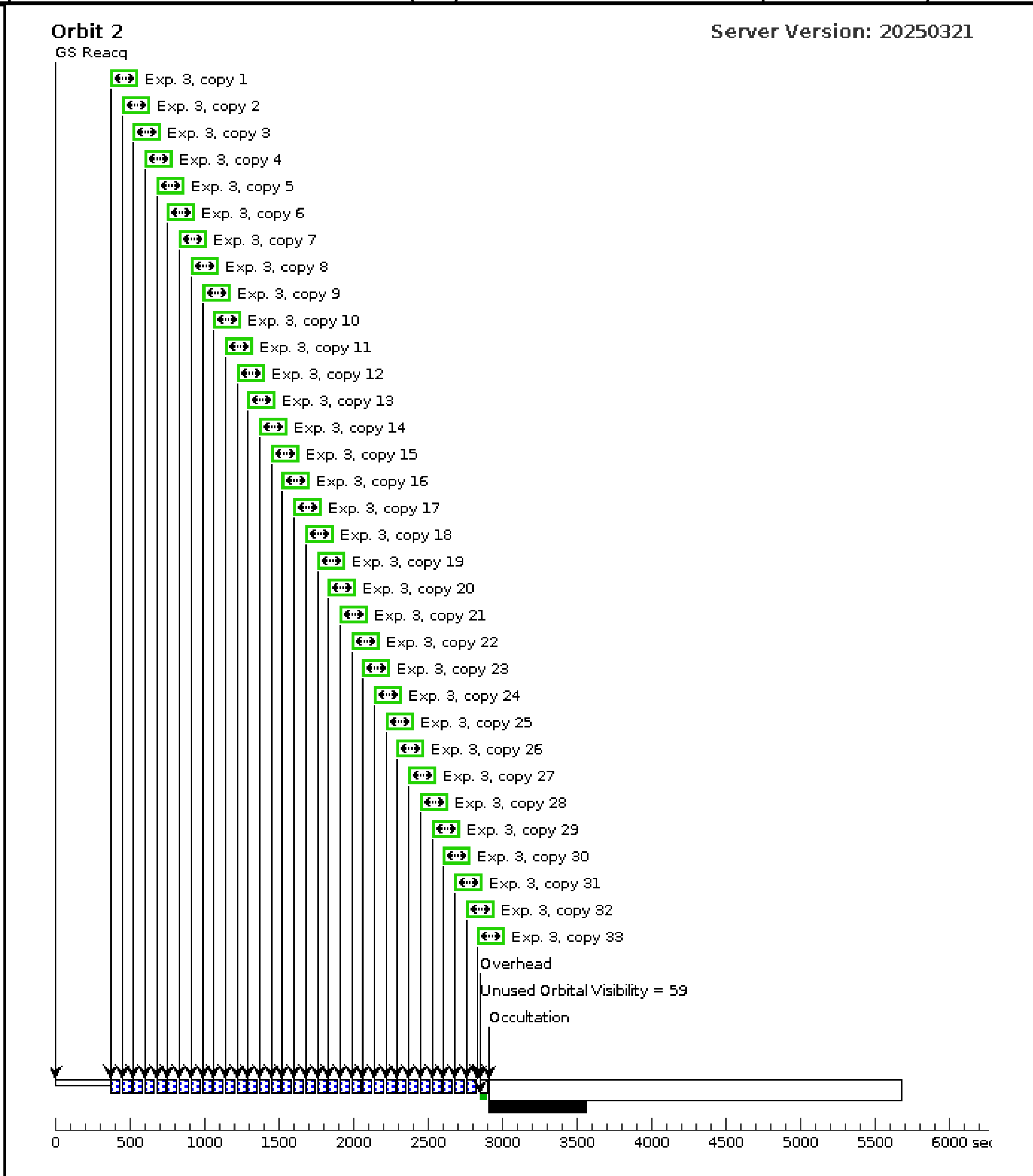
	5	(13) WASP-189	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=500; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=16	POS TARG null,-50	Sequence 5-5 Non-Int in WASP-189 T2 (23)	2 Secs X 33 (66 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[4]***

	6	(13) WASP-189	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=500; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=16	POS TARG null,-50	Sequence 6-6 Non-Int in WASP-189 T2 (23)	2 Secs X 33 (66 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[5]***

	7	(13) WASP-189	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=500; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=16	POS TARG null,-50	Sequence 7-7 Non-Int in WASP-189 T2 (23)	2 Secs X 33 (66 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[6]***

Orbit Structure

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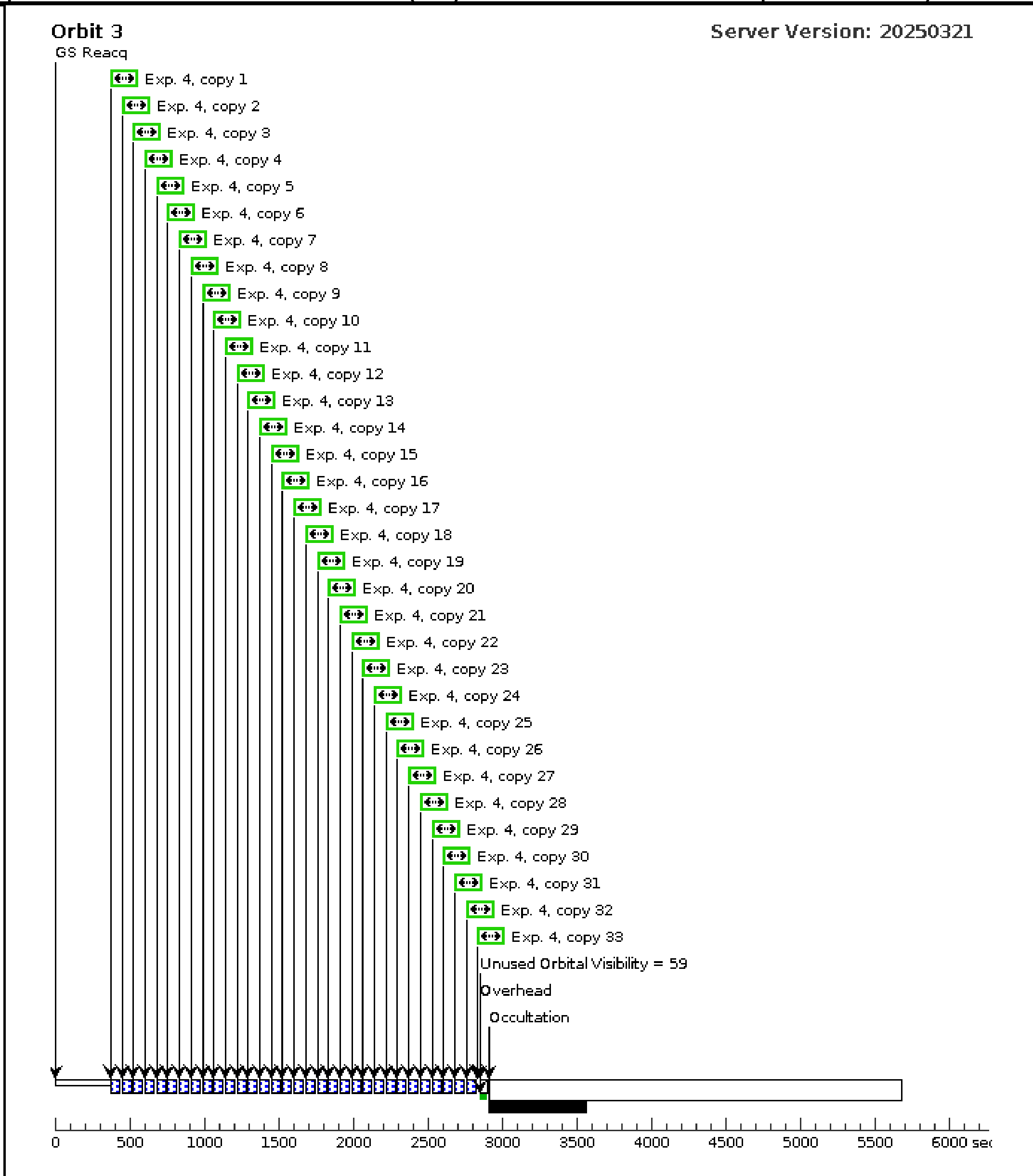
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Unused Orbital Visibility = 59
Overhead
Occultation
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2500
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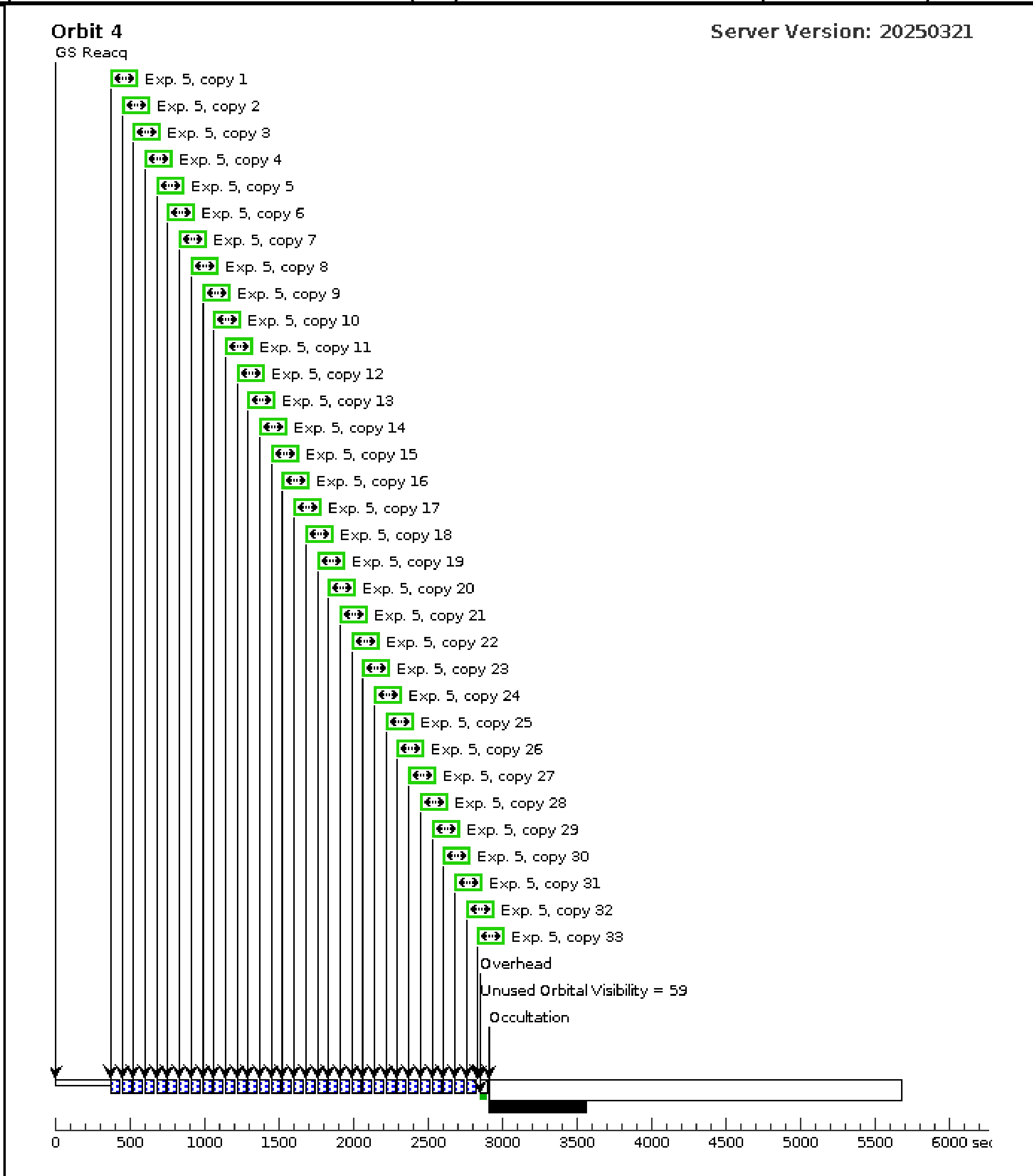
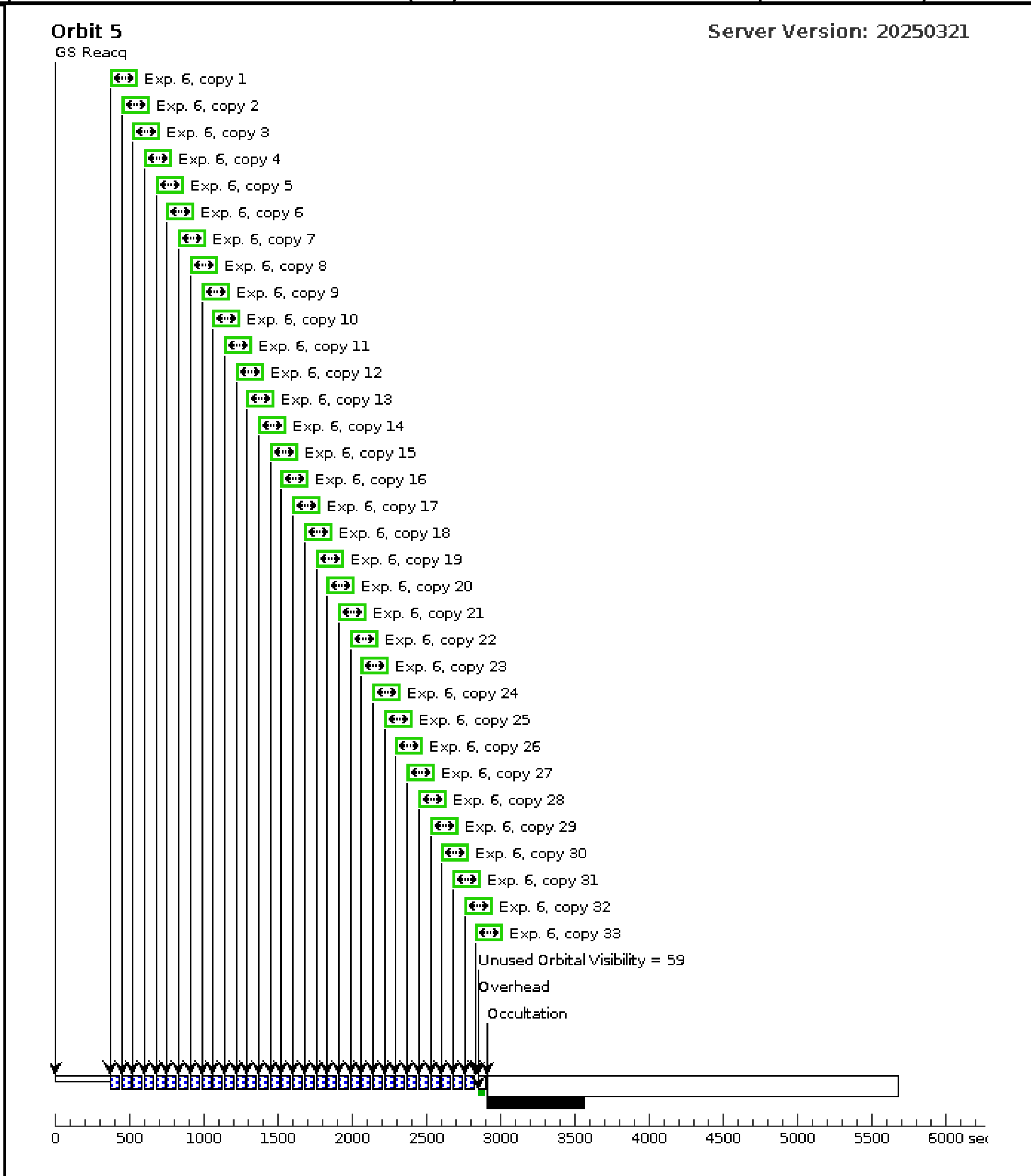
6000 sec

Proposal 17183 - WASP-189 T2 (23) - Hubble Ultraviolet-optical Survey of Transiting Legacy Exoplanets (HUSTLE) treasury program

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Exp. 6, copy 32
Exp. 6, copy 33
Unused Orbital Visibility = 59
Overhead
Occultation
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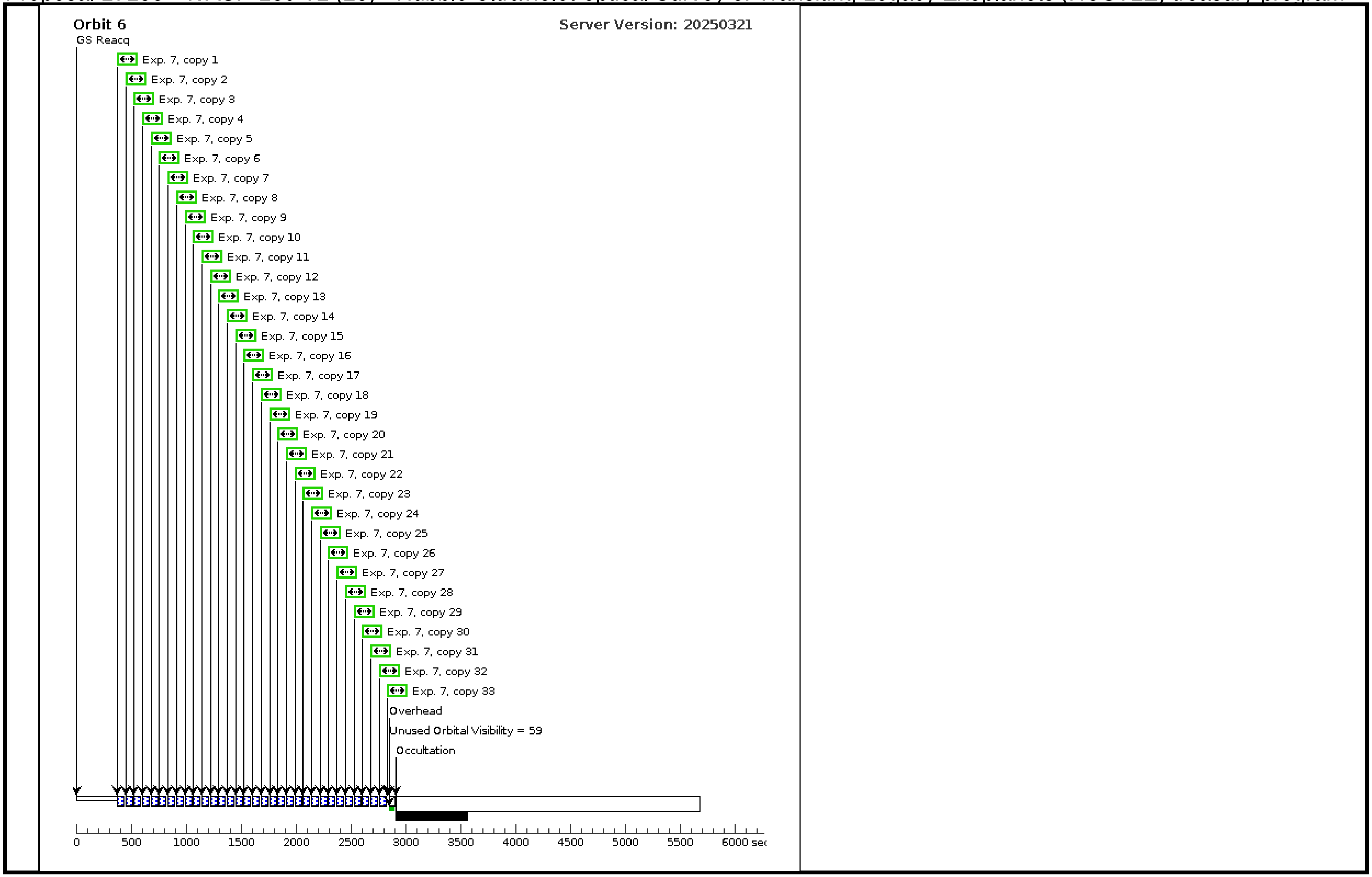
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Exp. 7, copy 27
Exp. 7, copy 28
Exp. 7, copy 29
Exp. 7, copy 30
Exp. 7, copy 31
Exp. 7, copy 32
Exp. 7, copy 33
Overhead
Unused Orbital Visibility = 59
Occultation
0
500
1000
1500
2000
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3000
3500
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4500
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5500
6000 sec

Visit

Proposal 17183, WASP-189 T3 (24), completed Mon Jun 30 20:01:54 GMT 2025

Diagnostic Status: No Diagnostics

Scientific Instruments: WFC3/UVIS

Special Requirements: SCHED 100%; AFTER 31-DEC-2023:00:00:00; Period 2.724033 D AND ZERO-PHASE HJD2456706.4545

Comments: SIZEAXIS set to maximize data volume.
Based on ETC calculations with Castelli-Kurucz Models A5V 8250 4.0 at V mag = 6.62
G280 time to saturation = 2.09s
OLD: For this bright target, we saturate the +1 order in 2.09 s which could potentially introduce jitter issues due to the shutter speed which has a photometric error of 0.004/integration. In order to mitigate for the shutter timing jitter, we will saturate the +1 order and use the -1 spectral order as our many science spectrum. The -1 order has a peak throughput approximately 5x lower than the +1 order (see Fig 8.3 in the WFC3 Handbook and Fig 1 of Wakeford et al. 2020). We therefore increase our exposure time to 9 s to reach 87% full well on the -1 spectral order.
NEW: We will expose for 2s to reach a peak of 65K e- in the +1 spectral trace. This new strategy was implemented following calibration tests to quantify the effect of jitter confirming that it should not dramatically impact the SNR.

No known nearby sources to avoid
Centaxis paramters set based on previous program measurements (16039, 15838, 15288).
WASP-189 T1, T2, and T3 are all conducted with the same set-up

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(13)	WASP-189	RA: 15 02 44.8679 (225.6869496d) Dec: -03 01 52.99 (-3.03139d) Equinox: J2000	Proper Motion RA: -0.0033695819847724936 sec of time/yr Proper Motion Dec: -0.023754999938319088 arcsec/yr Epoch of Position: 2015.5	V=6.618	Reference Frame: SIMBAD

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANETARY SYSTEM]
Extended=NO

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(13) WASP-189	WFC3/UVIS, ACCUM, G280-REF	F300X	FLASH=16; SIZEAXIS1=2100; SIZEAXIS2=500; CENTERAXIS1=2148; CENTERAXIS2=1208	POS TARG null,-50; PHASE 0.93014850489044 TO 0.93524715416851	Sequence 1-2 Non-Int in WASP-189 T3 (24)	1 Secs (1 Secs) *[==>]*	*[1]*
2		(13) WASP-189	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=500; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=16	POS TARG null,-50	Sequence 1-2 Non-Int in WASP-189 T3 (24)	2 Secs X 32 (64 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)]*	*[1]*

	3	(13) WASP-189	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=500; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=16	POS TARG null,-50	Sequence 3-3 Non-Int in WASP-189 T3 (24)	2 Secs X 33 (66 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[2]***

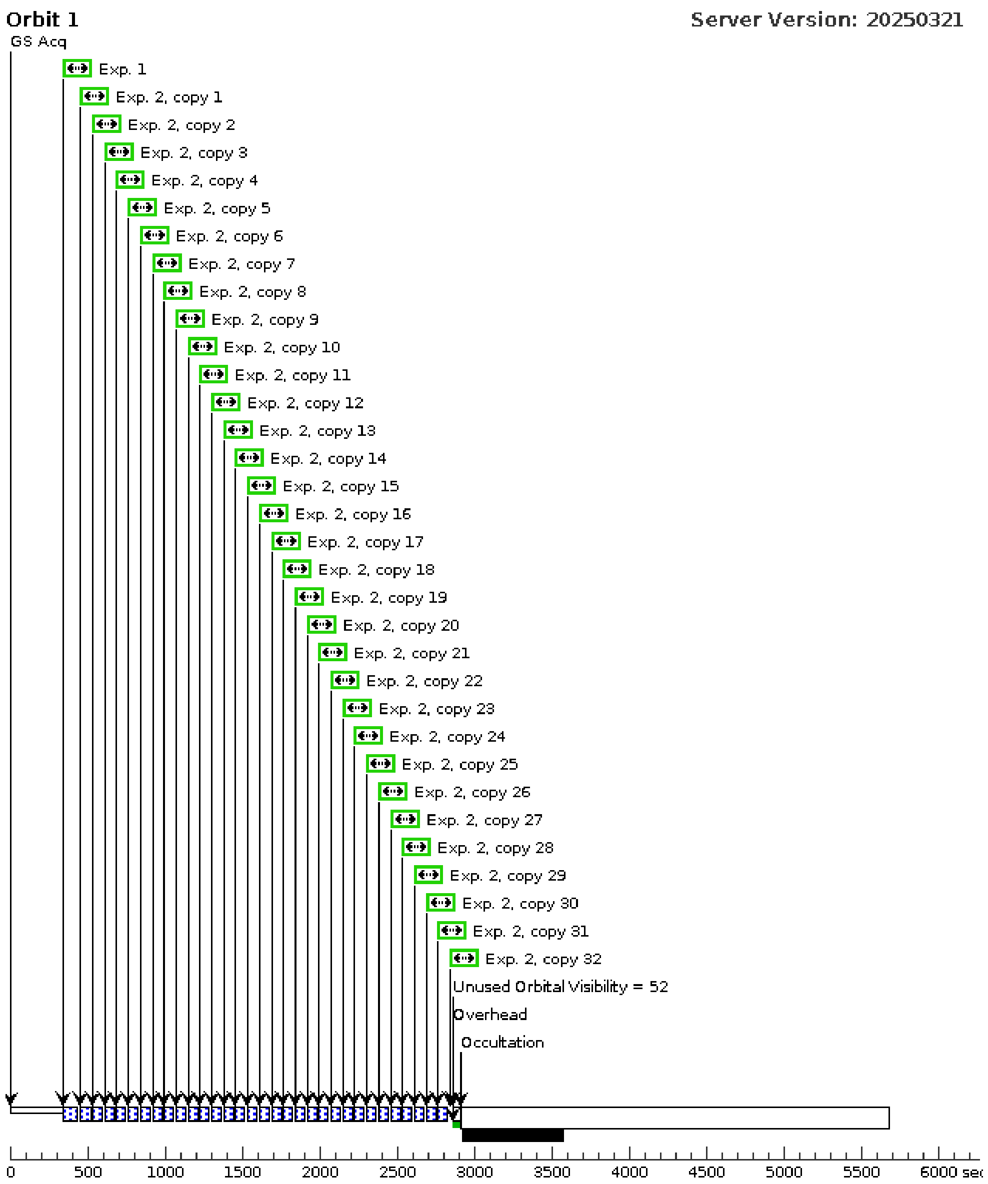
	4	(13) WASP-189	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=500; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=16	POS TARG null,-50	Sequence 4-4 Non-Int in WASP-189 T3 (24)	2 Secs X 33 (66 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[3]***

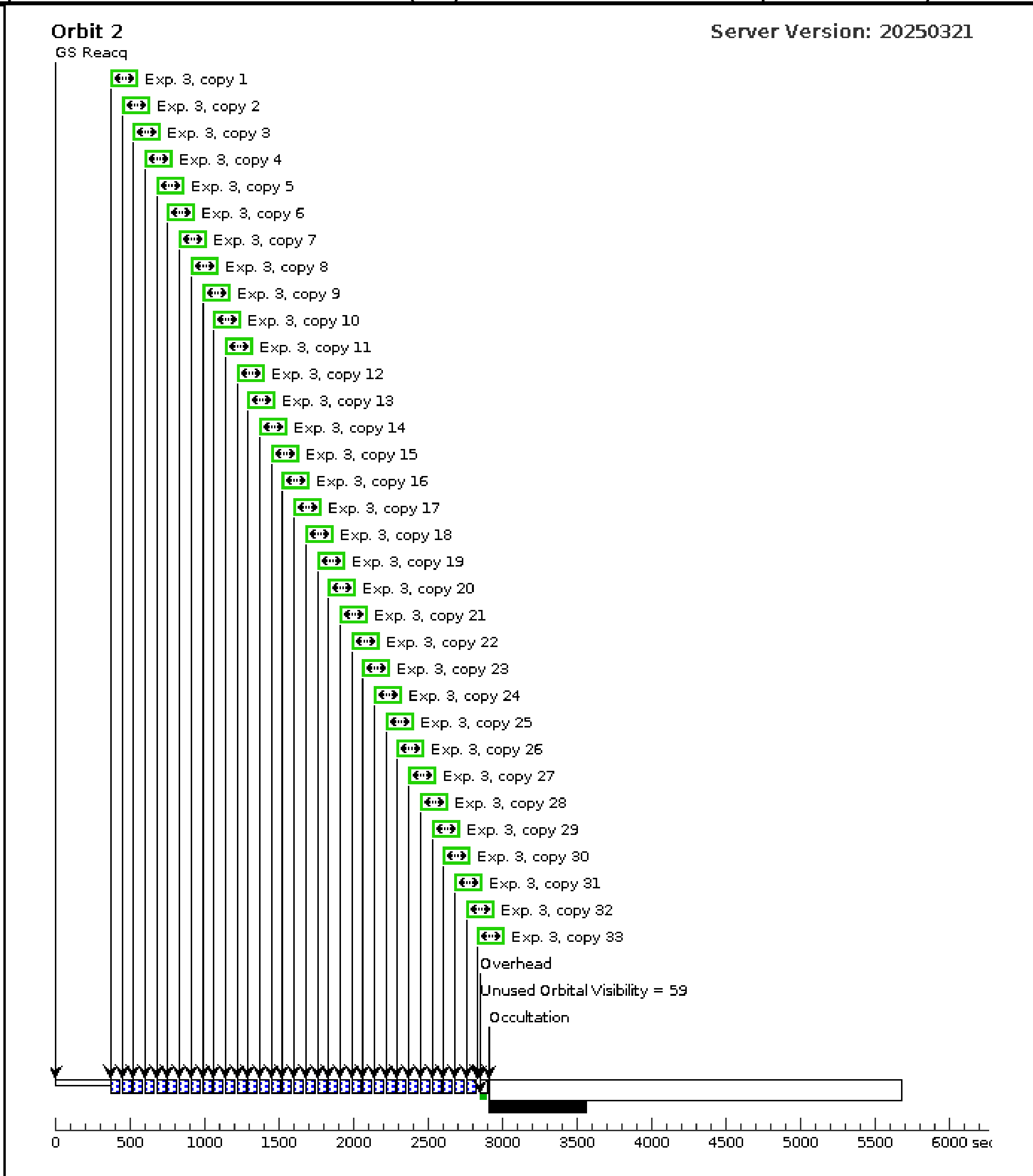
	5	(13) WASP-189	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=500; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=16	POS TARG null,-50	Sequence 5-5 Non-Int in WASP-189 T3 (24)	2 Secs X 33 (66 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[4]***

	6	(13) WASP-189	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=500; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=16	POS TARG null,-50	Sequence 6-6 Non-Int in WASP-189 T3 (24)	2 Secs X 33 (66 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[5]***

	7	(13) WASP-189	WFC3/UVIS, ACCUM, UVIS	G280	SIZEAXIS1=2100; SIZEAXIS2=500; CENTERAXIS1=2148; CENTERAXIS2=1208; FLASH=16	POS TARG null,-50	Sequence 7-7 Non-Int in WASP-189 T3 (24)	2 Secs X 33 (66 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]*	***[6]***

Orbit Structure

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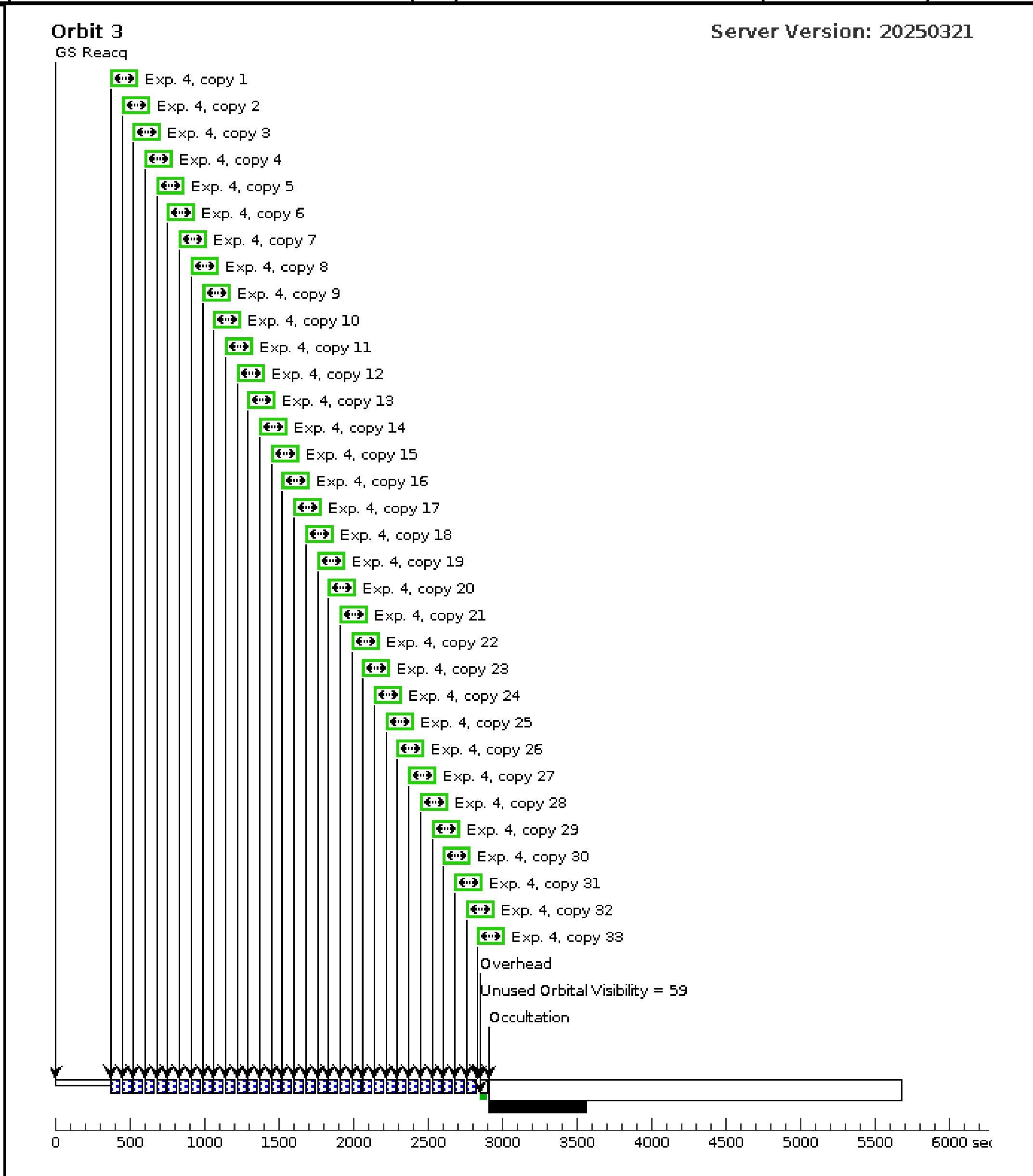
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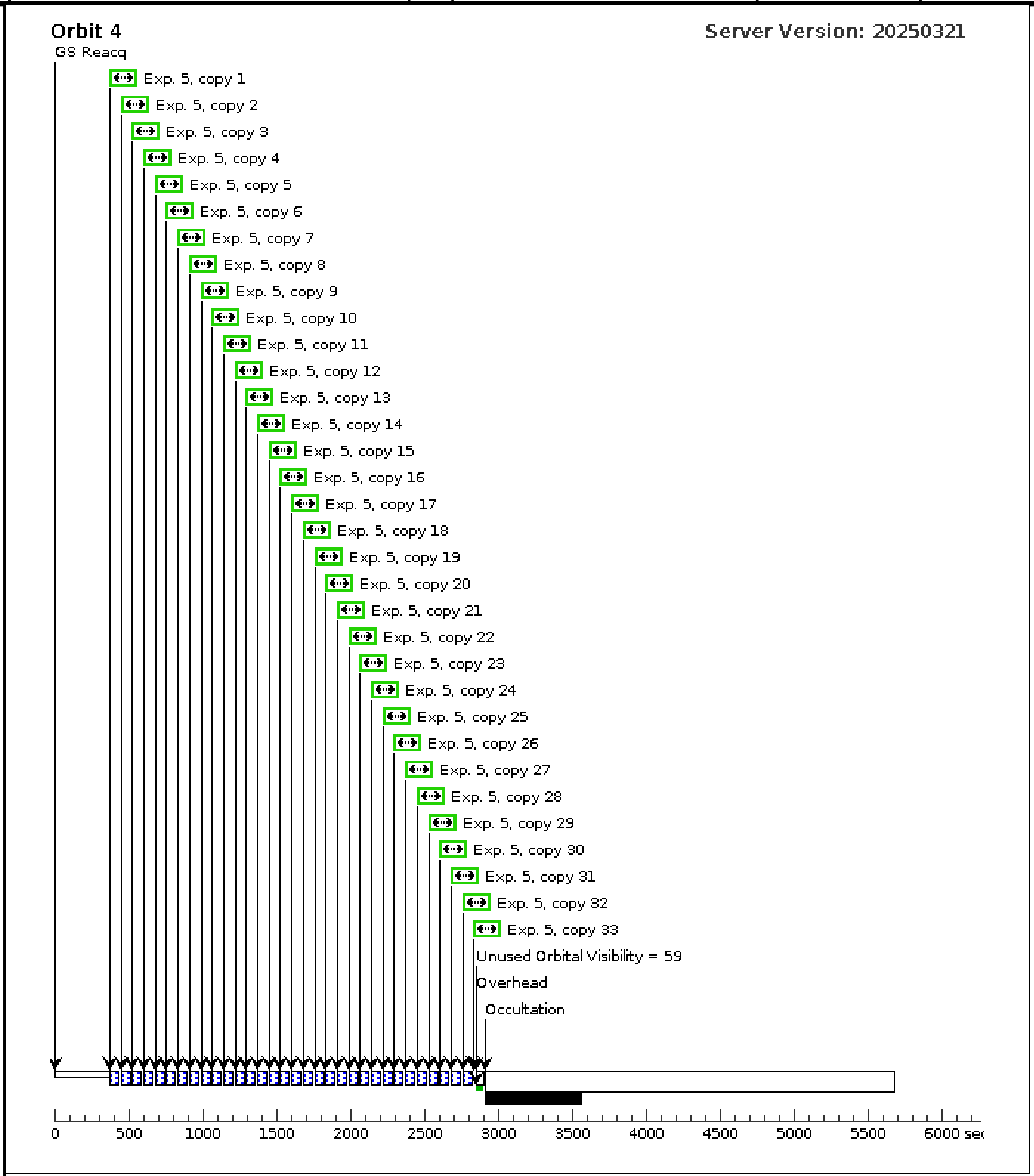
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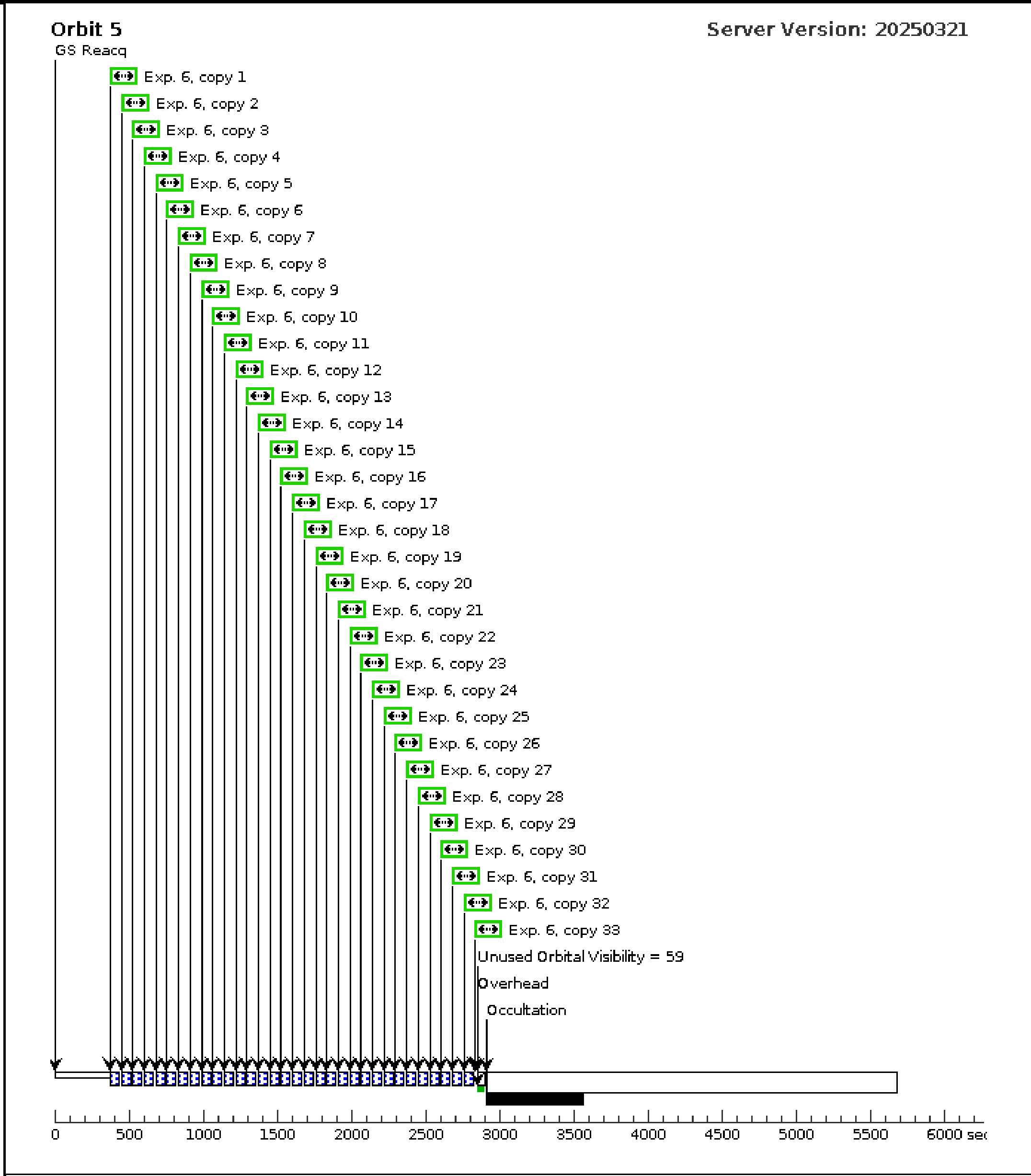
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Exp. 6, copy 30
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Exp. 6, copy 32
Exp. 6, copy 33
Unused Orbital Visibility = 59
Overhead
Occultation
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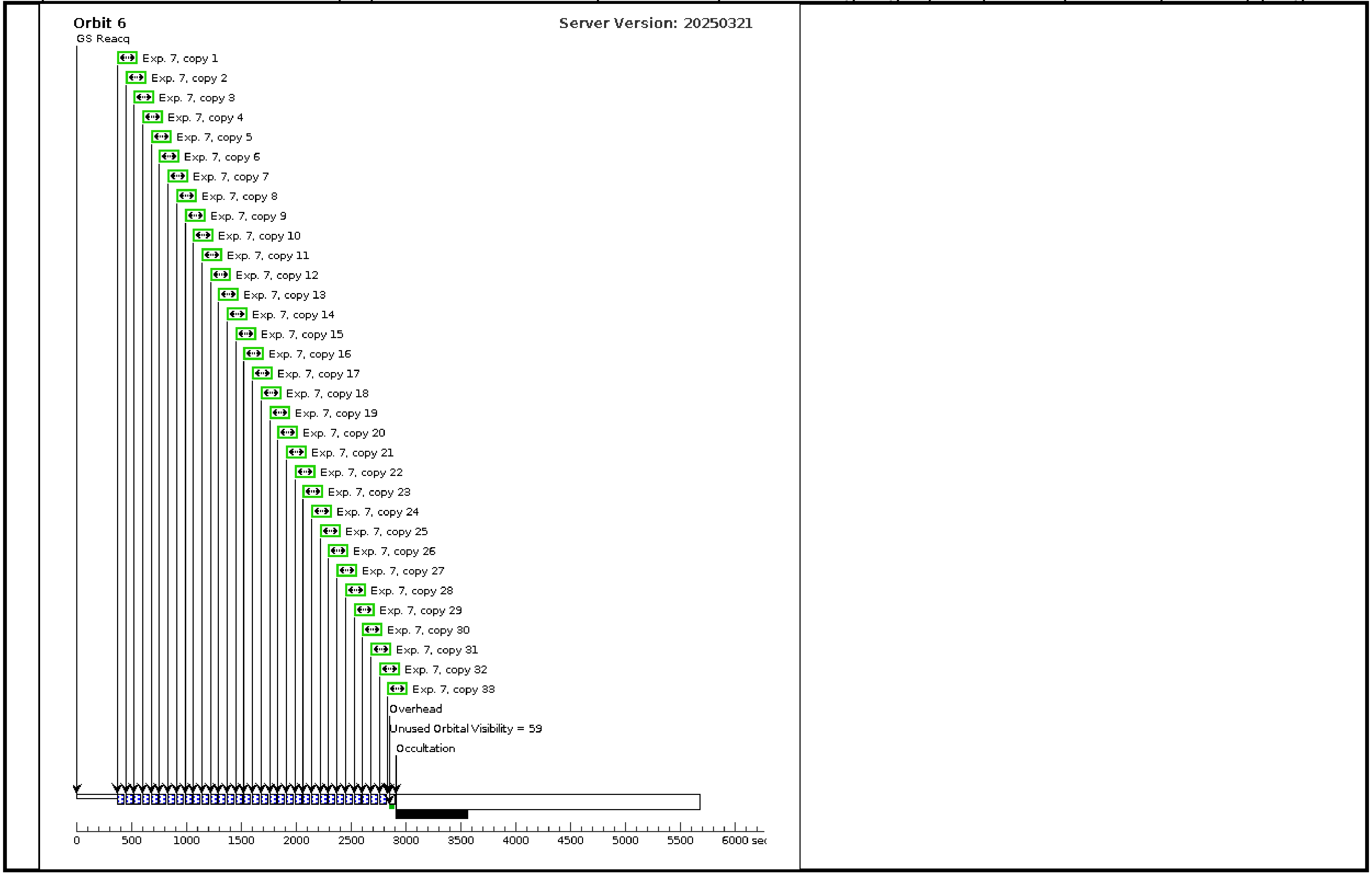
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Exp. 7, copy 26
Exp. 7, copy 27
Exp. 7, copy 28
Exp. 7, copy 29
Exp. 7, copy 30
Exp. 7, copy 31
Exp. 7, copy 32
Exp. 7, copy 33
Overhead
Unused Orbital Visibility = 59
Occultation
0
500
1000
1500
2000
2500
3000
3500
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4500
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5500
6000 sec