



17600 - The Exosphere of an Venus-Like Exoplanet

Cycle: 31, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. Shreyas Vissapragada (PI) (Contact)	Carnegie Institution of Washington
Larissa Palethorpe (CoI) (ESA Member)	University of Bristol
Shishir Dholakia (CoI)	University of Southern Queensland
Daisy Turner (CoI) (ESA Member)	University of Birmingham
Dr. Annelies Mortier (CoI) (ESA Member)	University of Birmingham
Prof. Ken Rice (CoI) (ESA Member)	University of Edinburgh, Institute for Astronomy
Dr. Thomas G. Wilson (CoI) (ESA Member)	University of Warwick
Dr. George Zhou (CoI)	University of Southern Queensland

VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) G-32-5 WAVE	STIS/CCD STIS/FUV-MAMA	5	21-Nov-2025 11:50:24.0	yes
02	(1) G-32-5 WAVE	STIS/CCD STIS/FUV-MAMA	5	21-Nov-2025 11:50:25.0	yes
03	(1) G-32-5 WAVE	STIS/CCD STIS/FUV-MAMA	5	21-Nov-2025 11:50:26.0	yes

15 Total Orbits Used

ABSTRACT

We propose a 10-orbit HST/STIS Mid-Cycle program to study the exosphere of the recently discovered terrestrial exoplanet GJ 12b (TOI-6251.01). With a Venus-like radius ($1.016 \pm 0.062 R_{\text{Earth}}$) and equilibrium temperature (327 K), GJ 12b offers us a rare chance to explore important Solar System processes like the runaway greenhouse effect on an extrasolar planet. This is also the best known terrestrial planet for Lyman-alpha transit observations: GJ 12's Lyman-alpha line is likely to be intrinsically strong based on the strong stellar X-ray emission, and its close proximity (12.2 pc) and high systemic radial velocity (51.2 km/s) partially offset the (relatively weak) interstellar absorption from the stellar line core. These factors result in much higher precisions than usually achievable for exoplanet Lyman-alpha studies: with two transits of five orbits each, we expect to constrain exospheric hydrogen absorption in GJ 12b to a precision of 0.9% in the red wing of the Lyman-alpha line. At this precision we would detect a Roche-lobe-filling transit at $\text{SNR} = 38.7$, and we would be sensitive (at the 3-sigma level) to neutral hydrogen down to $5R_p$, near the planetary exobase. By definitively confirming or ruling out exospheric hydrogen in Venus-like exoplanet, this Mid-Cycle program will significantly advance our understanding of the upper atmospheres of terrestrial exoplanets.

OBSERVING DESCRIPTION

Our program will observe two transits of GJ 12b with STIS MAMA-FUV G140M 1222A. The goal is to constrain planetary absorption in the Lyman-alpha line, i.e. to observe a decrease in the strength of the stellar LyA line during the planetary transit. Each visit includes 5 consecutive orbits, and a phase constraint has been placed on the first exposure of orbit 1 such that orbit 3 is centered on the planetary transit. As the transit duration is fairly short (1 hr), our timing requirement for the first exposure is somewhat strict (30 min) but still allows for some scheduling flexibility. The first orbit for each visit includes ACQ and ACQ/PEAK exposures, and all orbits include a science exposure and a wavecal exposure.

Reduced gyro mode would impact our program by limiting the number of transits that could be feasibly scheduled. Our primary target has a fairly long orbital period, so scheduling is already somewhat challenging.

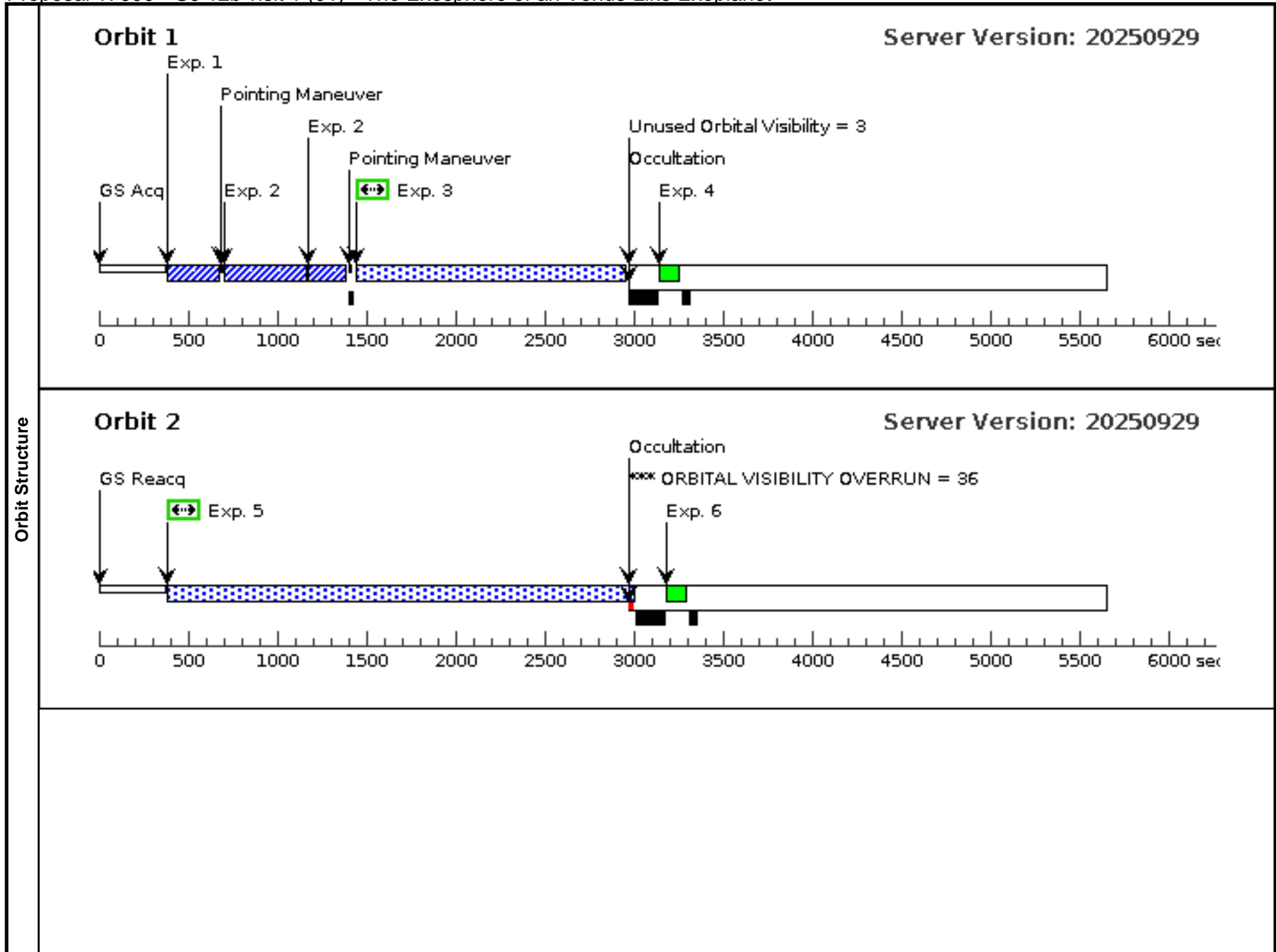
Proposal 17600 - GJ 12b visit 1 (01) - The Exosphere of an Venus-Like Exoplanet

Fri Nov 21 16:50:27 GMT 2025

Visit	Proposal 17600, GJ 12b visit 1 (01), failed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: Period 12.76142 D AND ZERO-PHASE HJD2459497.183 <i>Comments: First transit of GJ 12b.</i>																																		
	Diagnosics (GJ 12b visit 1 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (GJ 12b visit 1 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (GJ 12b visit 1 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (GJ 12b visit 1 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																		
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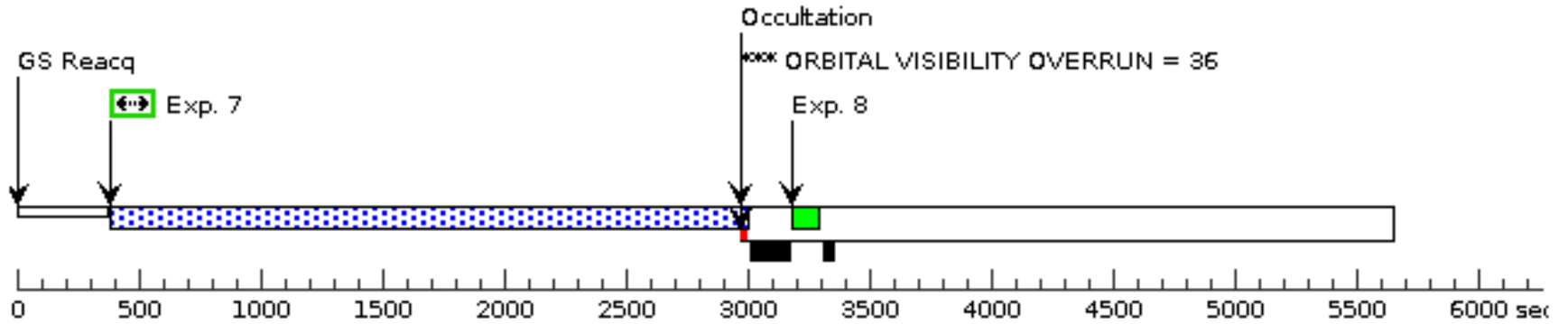
Proposal 17600 - GJ 12b visit 1 (01) - The Exosphere of an Venus-Like Exoplanet

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (1902719)	(1) G-32-5	STIS/CCD, ACQ, F28X50OIII	MIRROR		PHASE 0.99198883 86 TO 0.9944376256	Sequence 1-4 Non-Int in GJ 12b visit 1 (01)	5 Secs (5 Secs) [==>]	[1]
	2	ACQ/PEAK (1902726)	(1) G-32-5	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR			Sequence 1-4 Non-Int in GJ 12b visit 1 (01)	10 Secs (10 Secs) [==>]	[1]
	3	SCIENCE (1902730)	(1) G-32-5	STIS/FUV-MAMA, TIME-TAG, 52X0.1	G140M 1222 A		BUFFER-TIME=83 5; WAVECAL=NO	Sequence 1-4 Non-Int in GJ 12b visit 1 (01)	1350 Secs (1350 Secs) [==>]	[1]
	4	WAVECAL WAVE		STIS/FUV-MAMA, ACCUM, 52X0.1	G140M 1222 A			Sequence 1-4 Non-Int in GJ 12b visit 1 (01)	[==>]	[1]
	5	SCIENCE (1902729)	(1) G-32-5	STIS/FUV-MAMA, TIME-TAG, 52X0.1	G140M 1222 A		BUFFER-TIME=13 57; WAVECAL=NO	Sequence 5-6 Non-Int in GJ 12b visit 1 (01)	2600 Secs (2600 Secs) [==>]	[2]
	6	WAVECAL WAVE		STIS/FUV-MAMA, ACCUM, 52X0.1	G140M 1222 A			Sequence 5-6 Non-Int in GJ 12b visit 1 (01)	[==>]	[2]
	7	SCIENCE (1902729)	(1) G-32-5	STIS/FUV-MAMA, TIME-TAG, 52X0.1	G140M 1222 A		BUFFER-TIME=13 57; WAVECAL=NO	Sequence 7-8 Non-Int in GJ 12b visit 1 (01)	2600 Secs (2600 Secs) [==>]	[3]
	8	WAVECAL WAVE		STIS/FUV-MAMA, ACCUM, 52X0.1	G140M 1222 A			Sequence 7-8 Non-Int in GJ 12b visit 1 (01)	[==>]	[3]
	9	SCIENCE (1902729)	(1) G-32-5	STIS/FUV-MAMA, TIME-TAG, 52X0.1	G140M 1222 A		BUFFER-TIME=13 57; WAVECAL=NO	Sequence 9-10 Non-Int in GJ 12b visit 1 (01)	2600 Secs (2600 Secs) [==>]	[4]
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	11	SCIENCE (1902729)	(1) G-32-5	STIS/FUV-MAMA, TIME-TAG, 52X0.1	G140M 1222 A		BUFFER-TIME=13 57; WAVECAL=NO	Sequence 11-12 Non-Int in GJ 12b visit 1 (01)	2600 Secs (2600 Secs) [==>]	[5]
12	WAVECAL WAVE		STIS/FUV-MAMA, ACCUM, 52X0.1	G140M 1222 A			Sequence 11-12 Non-Int in GJ 12b visit 1 (01)	[==>]	[5]	



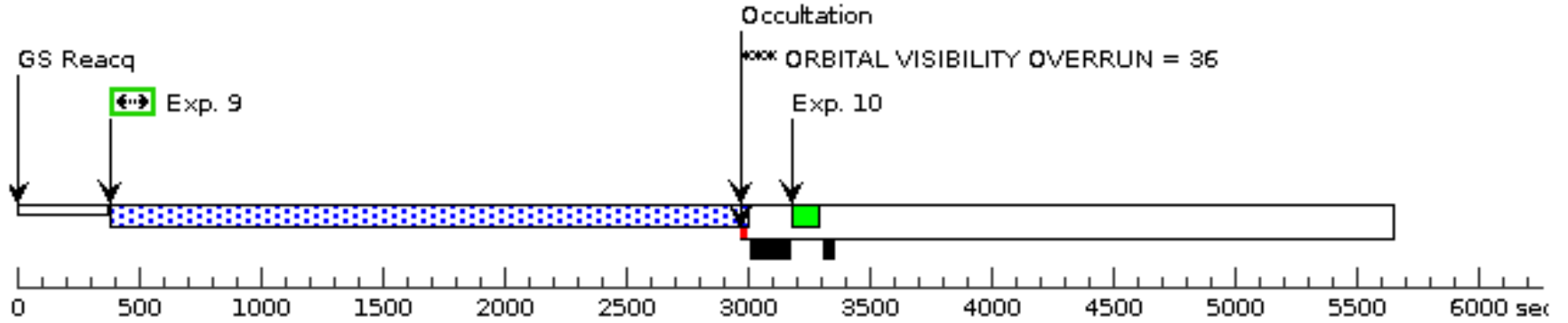
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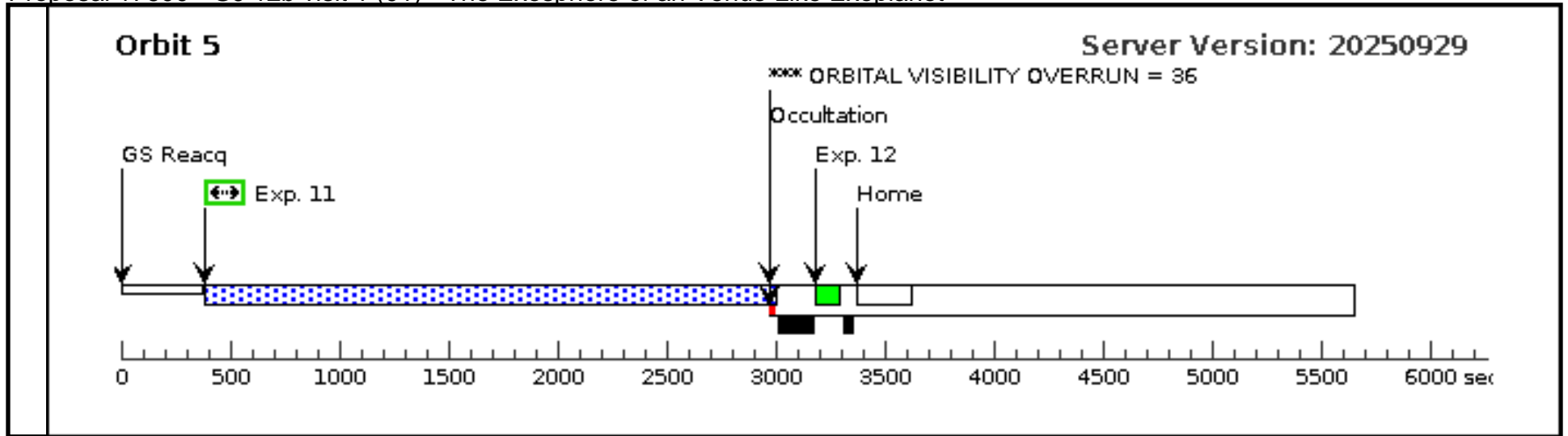
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Orbit 4

Server Version: 20250929





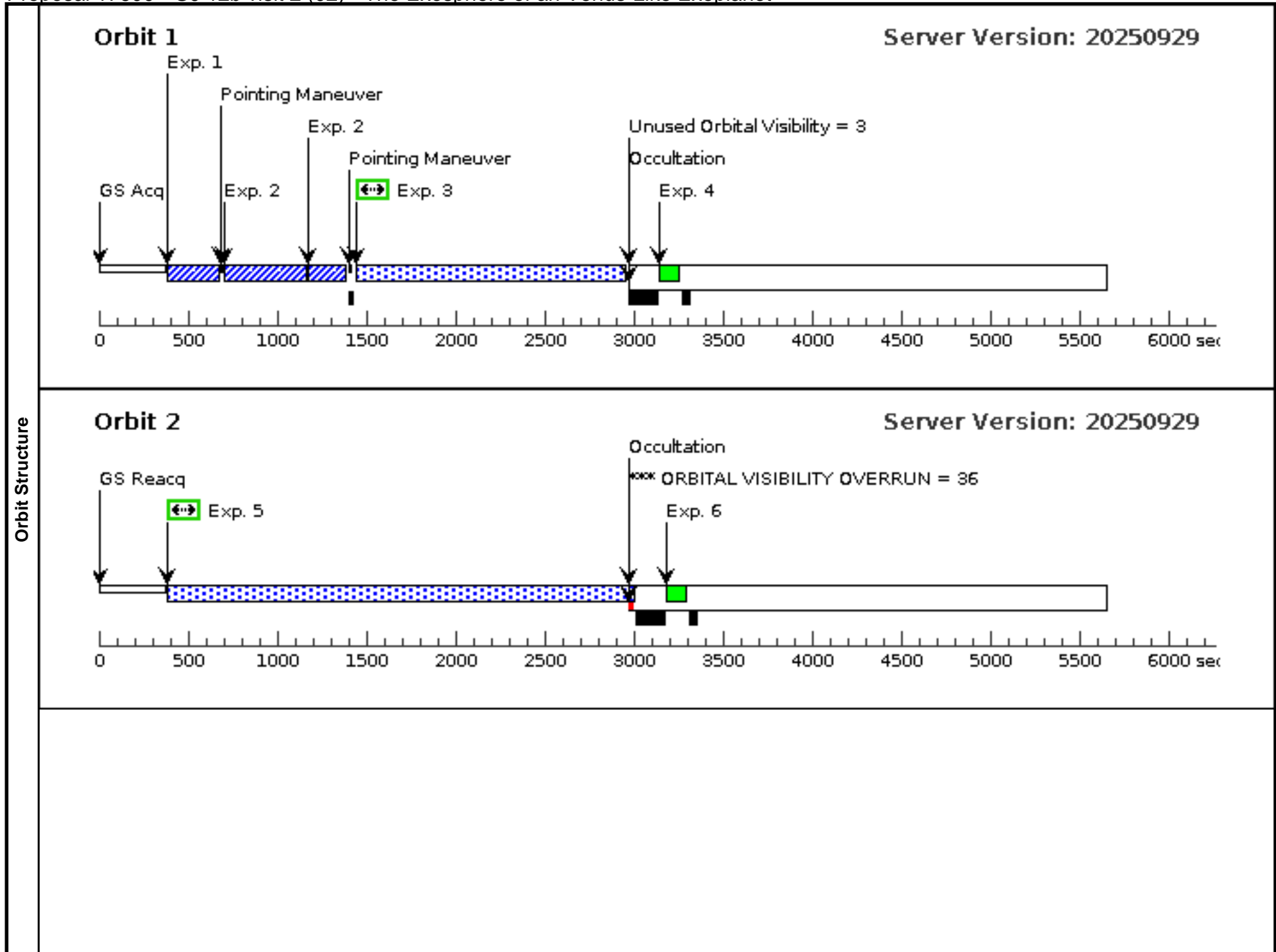
Proposal 17600 - GJ 12b visit 2 (02) - The Exosphere of an Venus-Like Exoplanet

Fri Nov 21 16:50:27 GMT 2025

Visit	Proposal 17600, GJ 12b visit 2 (02), implementation Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: Period 12.76142 D AND ZERO-PHASE HJD2459497.183 <i>Comments: Second transit of GJ 12b.</i>																																		
	(GJ 12b visit 2 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (GJ 12b visit 2 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (GJ 12b visit 2 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (GJ 12b visit 2 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																		
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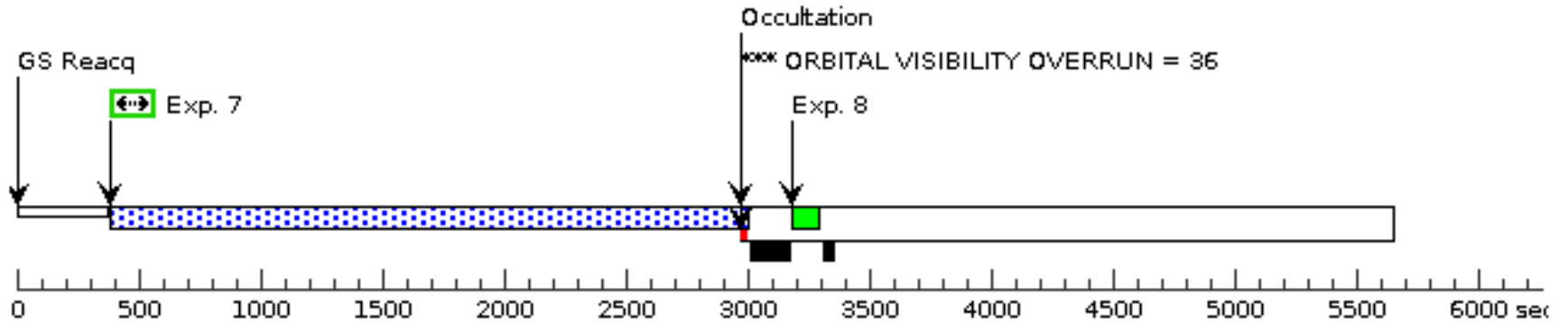
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	1	ACQ (1902719)	(1) G-32-5	STIS/CCD, ACQ, F28X50OIII	MIRROR			PHASE 0.98766808 98 TO 0.9893006145	Sequence 1-4 Non-Int in GJ 12b visit 2 (02)	5 Secs (5 Secs) [==>]	[1]
	2	ACQ/PEAK (1902726)	(1) G-32-5	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				Sequence 1-4 Non-Int in GJ 12b visit 2 (02)	10 Secs (10 Secs) [==>]	[1]
	3	SCIENCE (1902730)	(1) G-32-5	STIS/FUV-MAMA, TIME-TAG, 52X0.1	G140M 1222 A		BUFFER-TIME=835; WAVECAL=NO		Sequence 1-4 Non-Int in GJ 12b visit 2 (02)	1350 Secs (1350 Secs) [==>]	[1]
	4	WAVECAL WAVE		STIS/FUV-MAMA, ACCUM, 52X0.1	G140M 1222 A				Sequence 1-4 Non-Int in GJ 12b visit 2 (02)	[==>]	[1]
	5	SCIENCE (1902729)	(1) G-32-5	STIS/FUV-MAMA, TIME-TAG, 52X0.1	G140M 1222 A		BUFFER-TIME=1357; WAVECAL=NO		Sequence 5-6 Non-Int in GJ 12b visit 2 (02)	2600 Secs (2600 Secs) [==>]	[2]
	6	WAVECAL WAVE		STIS/FUV-MAMA, ACCUM, 52X0.1	G140M 1222 A				Sequence 5-6 Non-Int in GJ 12b visit 2 (02)	[==>]	[2]
	7	SCIENCE (1902729)	(1) G-32-5	STIS/FUV-MAMA, TIME-TAG, 52X0.1	G140M 1222 A		BUFFER-TIME=1357; WAVECAL=NO		Sequence 7-8 Non-Int in GJ 12b visit 2 (02)	2600 Secs (2600 Secs) [==>]	[3]
	8	WAVECAL WAVE		STIS/FUV-MAMA, ACCUM, 52X0.1	G140M 1222 A				Sequence 7-8 Non-Int in GJ 12b visit 2 (02)	[==>]	[3]
	9	SCIENCE (1902729)	(1) G-32-5	STIS/FUV-MAMA, TIME-TAG, 52X0.1	G140M 1222 A		BUFFER-TIME=1357; WAVECAL=NO		Sequence 9-10 Non-Int in GJ 12b visit 2 (02)	2600 Secs (2600 Secs) [==>]	[4]
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12	WAVECAL WAVE		STIS/FUV-MAMA, ACCUM, 52X0.1	G140M 1222 A				Sequence 11-12 Non-Int in GJ 12b visit 2 (02)	[==>]	[5]	



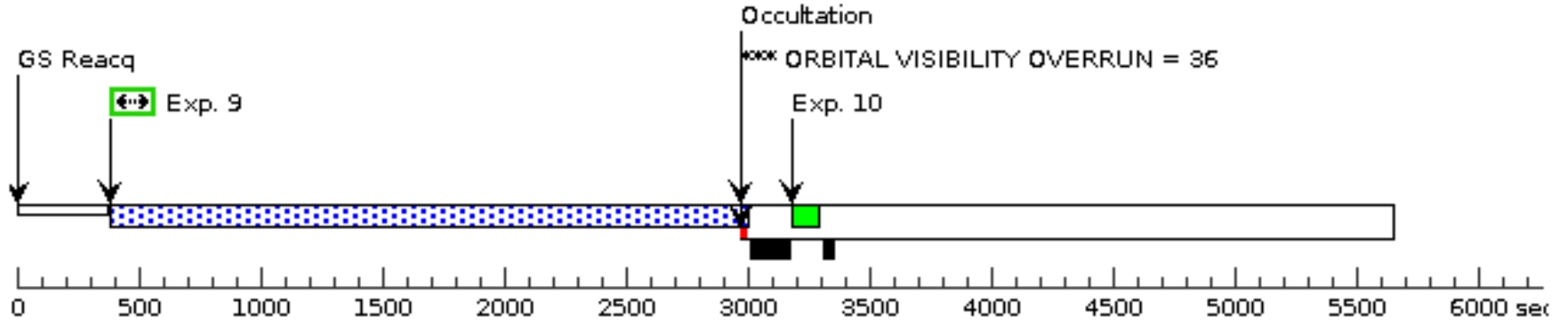
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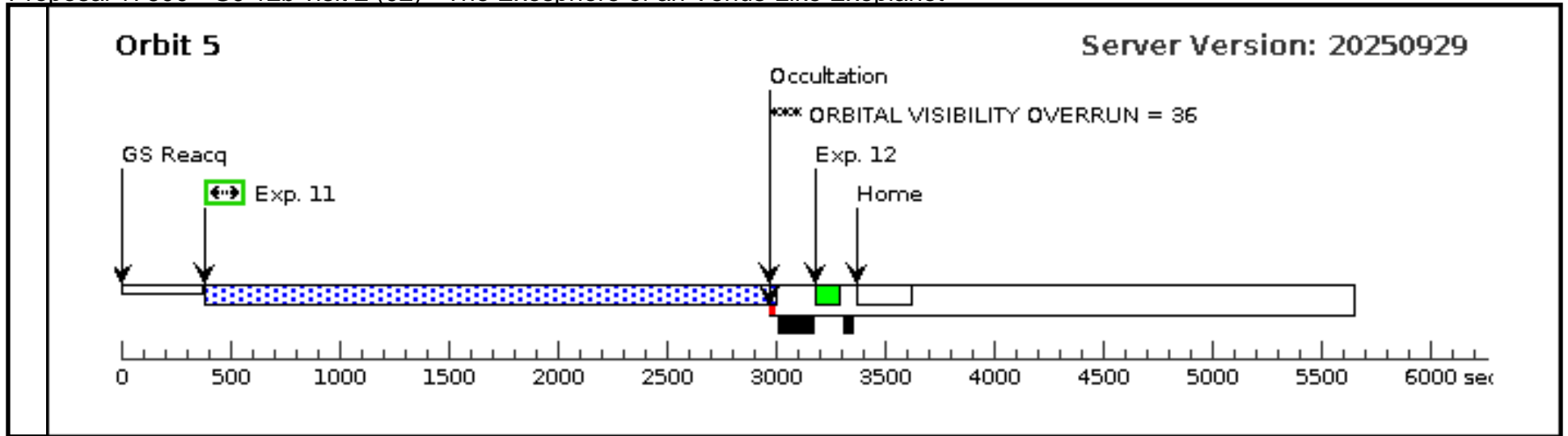
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Orbit 4

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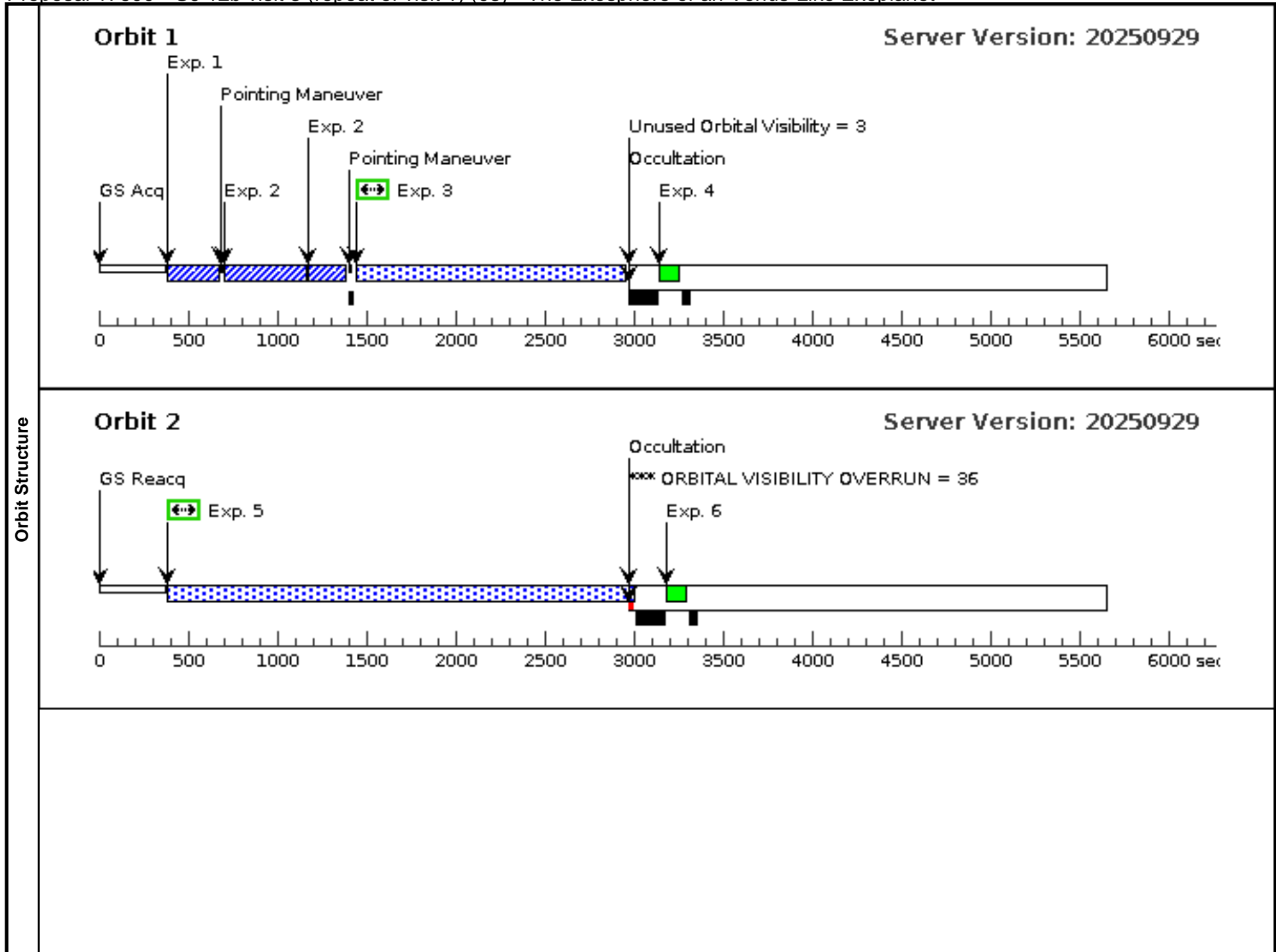
Proposal 17600 - GJ 12b visit 3 (repeat of visit 1) (03) - The Exosphere of an Venus-Like Exoplanet

Fri Nov 21 16:50:27 GMT 2025

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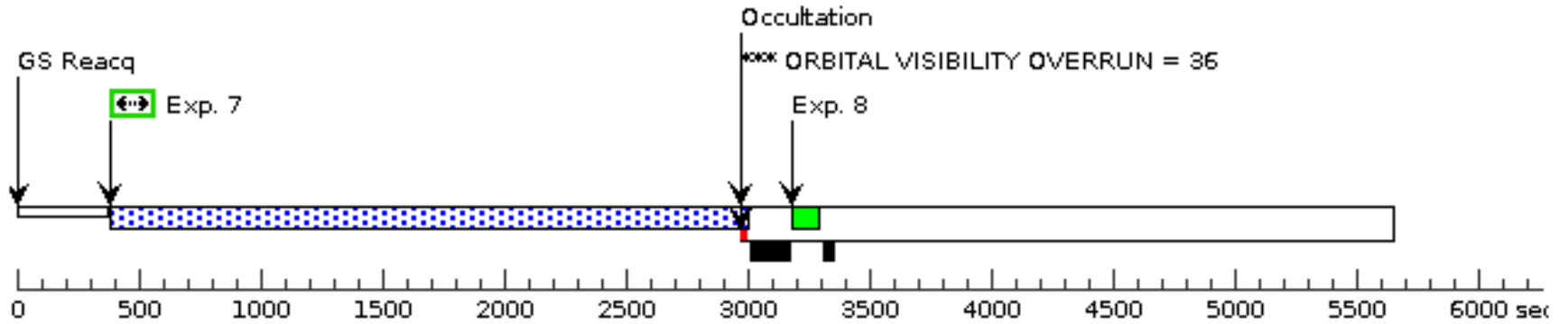
Proposal 17600 - GJ 12b visit 3 (repeat of visit 1) (03) - The Exosphere of an Venus-Like Exoplanet

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	2	ACQ/PEAK (1902726)	(1) G-32-5	STIS/CCD, ACQ/PEAK, 0.2X0.05ND	MIRROR				Sequence 1-4 Non-Int in GJ 12b visit 3 (repeat of visit 1) (03)	10 Secs (10 Secs) [==>]	[1]
	3	SCIENCE (1902730)	(1) G-32-5	STIS/FUV-MAMA, TIME-TAG, 52X0.1	G140M 1222 A		BUFFER-TIME=83 5; WAVECAL=NO		Sequence 1-4 Non-Int in GJ 12b visit 3 (repeat of visit 1) (03)	1350 Secs (1350 Secs) [==>]	[1]
	4	WAVECAL WAVE		STIS/FUV-MAMA, ACCUM, 52X0.1	G140M 1222 A				Sequence 1-4 Non-Int in GJ 12b visit 3 (repeat of visit 1) (03)	[==>]	[1]
	5	SCIENCE (1902729)	(1) G-32-5	STIS/FUV-MAMA, TIME-TAG, 52X0.1	G140M 1222 A		BUFFER-TIME=13 57; WAVECAL=NO		Sequence 5-6 Non-Int in GJ 12b visit 3 (repeat of visit 1) (03)	2600 Secs (2600 Secs) [==>]	[2]
	6	WAVECAL WAVE		STIS/FUV-MAMA, ACCUM, 52X0.1	G140M 1222 A				Sequence 5-6 Non-Int in GJ 12b visit 3 (repeat of visit 1) (03)	[==>]	[2]
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	10	WAVECAL WAVE		STIS/FUV-MAMA, ACCUM, 52X0.1	G140M 1222 A				Sequence 9-10 Non-Int in GJ 12b visit 3 (repeat of visit 1) (03)	[==>]	[4]
	11	SCIENCE (1902729)	(1) G-32-5	STIS/FUV-MAMA, TIME-TAG, 52X0.1	G140M 1222 A		BUFFER-TIME=13 57; WAVECAL=NO		Sequence 11-12 Non-Int in GJ 12b visit 3 (repeat of visit 1) (03)	2600 Secs (2600 Secs) [==>]	[5]
12	WAVECAL WAVE		STIS/FUV-MAMA, ACCUM, 52X0.1	G140M 1222 A				Sequence 11-12 Non-Int in GJ 12b visit 3 (repeat of visit 1) (03)	[==>]	[5]	



Orbit 3

Server Version: 20250929



Orbit 4

Server Version: 20250929

