



10718 - The Exosphere of a Newly Discovered Transiting Planet

Cycle: 14, Proposal Category: GO/DD

(Availability Mode: AVAILABLE)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. Jeff A. Valenti (PI)	Space Telescope Science Institute	valenti@stsci.edu
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Dr. Ronald L. Gilliland (CoI)	Space Telescope Science Institute	gillil@stsci.edu
Dr. Bun'ei Sato (CoI)	National Astronomical Observatory of Japan (NAOJ)	

VISITS

<i>Visit</i>	<i>Targets</i>	<i>Configurations</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) HD-149026 DARK	ACS/HRC ACS/SBC S/C	5	27-Mar-2006 23:55:21.0	yes
02	(1) HD-149026 DARK	ACS/HRC ACS/SBC S/C	5	27-Mar-2006 23:56:53.0	yes
03	(1) HD-149026 DARK	ACS/HRC ACS/SBC S/C	4	27-Mar-2006 23:58:00.0	yes

Proposal 10718 - Overview

<i>Visit</i>	<i>Targets</i>	<i>Configurations</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
04	(1) HD-149026 DARK	ACS/HRC ACS/SBC S/C	4	27-Mar-2006 23:59:04.0	yes

18 Total Orbits Used

ABSTRACT

We propose to use HST to directly detect the atmosphere and extended envelope (exosphere) of a recently discovered planet that transits the relatively bright star HD 149026. Absorption of background stellar Lyman-alpha emission is an extremely sensitive exospheric diagnostic that only HST can measure. If the HD 149026 planet is evaporating, then hydrogen in the exosphere should fill or overflow the Roche lobe, which has a size 4 times the diameter of Jupiter. If we do not detect a decrease in Lyman-alpha flux during several transits, then the hydrogen exosphere does not fill the Roche lobe of the planet and significant evaporation is unlikely. This would be a surprise, given that Vidal-Madjar et al. (2003) detected the exosphere of the planet that transits HD 209458, and the models of Lecavelier des Etangs et al. (2004) predict an order of magnitude more evaporation for the planet around HD 149026, due to its lower mass and smaller orbital distance. The newly discovered planet has 3 times the mean density and at least 3 times the core mass of the planet that transits HD 209458, which is consistent with significant exospheric evaporation in the past. We will also use ACS/PR200L observations to measure stellar limb darkening in the NUV, to detect Mg in the lower atmosphere of the planet, and to search for evidence of a moon or planetary rings.

OBSERVING DESCRIPTION

This program consists of 4 visits. Visits 1 and 2 are identical, each requiring 5 orbits. These two visits alternate between using the ACS/SBC and the ACS/HRC, with the pattern SBC, HRC, SBC, HRC, SBC. Because visits 1 and 2 begin and end with the SBC, they require 5 consecutive SAA-free orbits. Visit 3 is similar to visits 1 and 2, except that it lacks the final SBC orbit. Because visit 3 uses the SBC in orbits 1 and 3, it requires 3 consecutive SAA-free orbits. The final HRC orbit of visit 3 may occur in an SAA-impacted orbit, though preferably with passage through the SAA occurring during occultation. Visit 4 is similar to visits 1 and 2, except that it lacks the initial SBC orbit. Because visit 4 uses the SBC in orbits 2 and

Proposal 10718 - Overview

4, it requires 3 consecutive SAA-free orbits. The initial HRC orbit of visit 4 may occur in an SAA-impacted orbit, though preferably with passage through the SAA occurring during occultation.

Each visit has the same period and zero phase constraint, giving the best current estimate of the HJD at the midpoint of the extrasolar planetary transit. The period and zero phase constraint may be refined once or twice during the life of this program. The phase constraint for each visit is on the ACS/SBC F125LP image at the beginning of orbit 3 (for visits 1, 2, and 3) or orbit 2 (for visit 4). The phase window is 96 minutes wide, allowing all possible phasings of the orbit of HST with the midpoint of the extrasolar planetary transit. To further improve schedulability, SCHED is set to 100%.

Each orbit begins with a 60 second ACS/SBC F125LP image or a 1 second ACS/HRC F330W image. These manually inserted images take the place of autoimages. Cosmic ray splits are suppressed because the sequence of images can be used to identify cosmic rays or because the initial image is too short to be affected significantly by cosmic rays. The initial image in each orbit is followed by eight 265 second ACS/SBC PR110L images or twenty-two 56 second ACS/HRC PR200L images. Full-frame HRC exposures that are at least 56 seconds long can be dumped in parallel, avoiding the need for a serial dump after 16 exposures.

Using the solar spectrum scaled to $V=8.15$, the ACS Imaging ETC predicts a global count rate of 5600 counts/sec and a peak local count rate of 3.4 counts/sec/pixel for the F125LP filter and the highest possible backgrounds [ACSIMAG50921]. Using coadded STIS spectra of HD 209458 scaled to $V=8.15$, the ACS Spectroscopic ETC predicts a global count rate of 20,000 counts/sec and a peak local count rate of 0.33 counts/sec/pixel, assuming a high geocoronal background [ACSSPEC48073]. The target (HD 149026) has no emission in the core of Ca II H & K (Sato et al. 2005), so the target is not active and not variable.

According to the exposure time calculator, the ACS/HRC PR200L exposure will be 2x saturated at 2900 Angstroms and 200x saturated at 4500 Angstroms. The accurate photometry needed for this program relies on the fact that charge is not lost, even if it bleeds along CCD columns. GAIN=4 is used for all ACS/HRC exposures to completely sample the full well depth of CCD pixels. In addition, a POS TARG of 0.0, -1.25 arcsec is used for all ACS/HRC exposures. This POS TARG should place the red end of the prism spectrum near $x=560$ and $y=460$, which is a location on the HRC with a relatively deep full well capacity.

Proposal 10718 - Visit 01 - The Exosphere of a Newly Discovered Transiting Planet

Tue Mar 28 04:59:30 GMT 2006

Visit	Proposal 10718, Visit 01 Diagnostic Status: Error Scientific Instruments: ACS/SBC, ACS/HRC, S/C Special Requirements: SCHED 100%; Period 2.876 D AND ZERO-PHASE JD2453530.7492 <i>Comments: This visit requires 5 orbits (SBC, HRC, SBC, HRC, SBC). This visit requires 5 consecutive SAA-free orbits. Schedule visit 3 or 4 (which are different) instead, if only 3 consecutive SAA-free orbits are available. Visits 1 and 2 are identical.</i>																																			
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	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit																										
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2		(1) HD-149026	ACS/SBC, ACCUM, SBC	F125LP			Sequence 1-4 Non-In t	60.0 Secs [==>]	[1]																											
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Proposal 10718 - Visit 01 - The Exosphere of a Newly Discovered Transiting Planet

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	3		(1) HD-149026	ACS/SBC, ACCUM, SBC	PR110L			Sequence 1-4 Non-Int	265.0 Secs X 8	
[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)]									[1]	
<i>Comments: change qasi_states start and end states from WFMAHVON to WFHROBS</i>										
4	DARK_SB CDOWN	DARK	S/C, DATA, NONE				SAA CONTOUR 28; Sequence 1-4 Non-Int SPEC COM INSTR EJHVTOP	455.0 Secs		
[==>]									[1]	
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5		(1) HD-149026	ACS/HRC, ACCUM, HRC	F330W	CR-SPLIT=NO;	POS TARG 0,-1.25		1.0 Secs		
[==>]									[2]	

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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
Exposures (continued)	6	(1) HD-149026	ACS/HRC, ACCUM, HRC	PR200L	AUTOIMAGE=NO; CR-SPLIT=NO; GAIN=4	POS TARG 0,-1.25		56.0 Secs X 22 [==>(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)]	[2]	
	7	DARK_SB CUP	DARK	S/C, DATA, NONE		SAA CONTOUR 28; SPEC COM INSTR EJOPTHV	Sequence 7-10 Non-Int	620.0 Secs [==>]	[2]	
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	8	(1) HD-149026	ACS/SBC, ACCUM, SBC	F125LP		PHASE 0.9827 TO 0.0059	Sequence 7-10 Non-Int	60.0 Secs [==>]	[3]	
	<i>Comments: change qasi_states start and end states from WFMAHVON to WFHROBS</i>									

Proposal 10718 - Visit 01 - The Exosphere of a Newly Discovered Transiting Planet

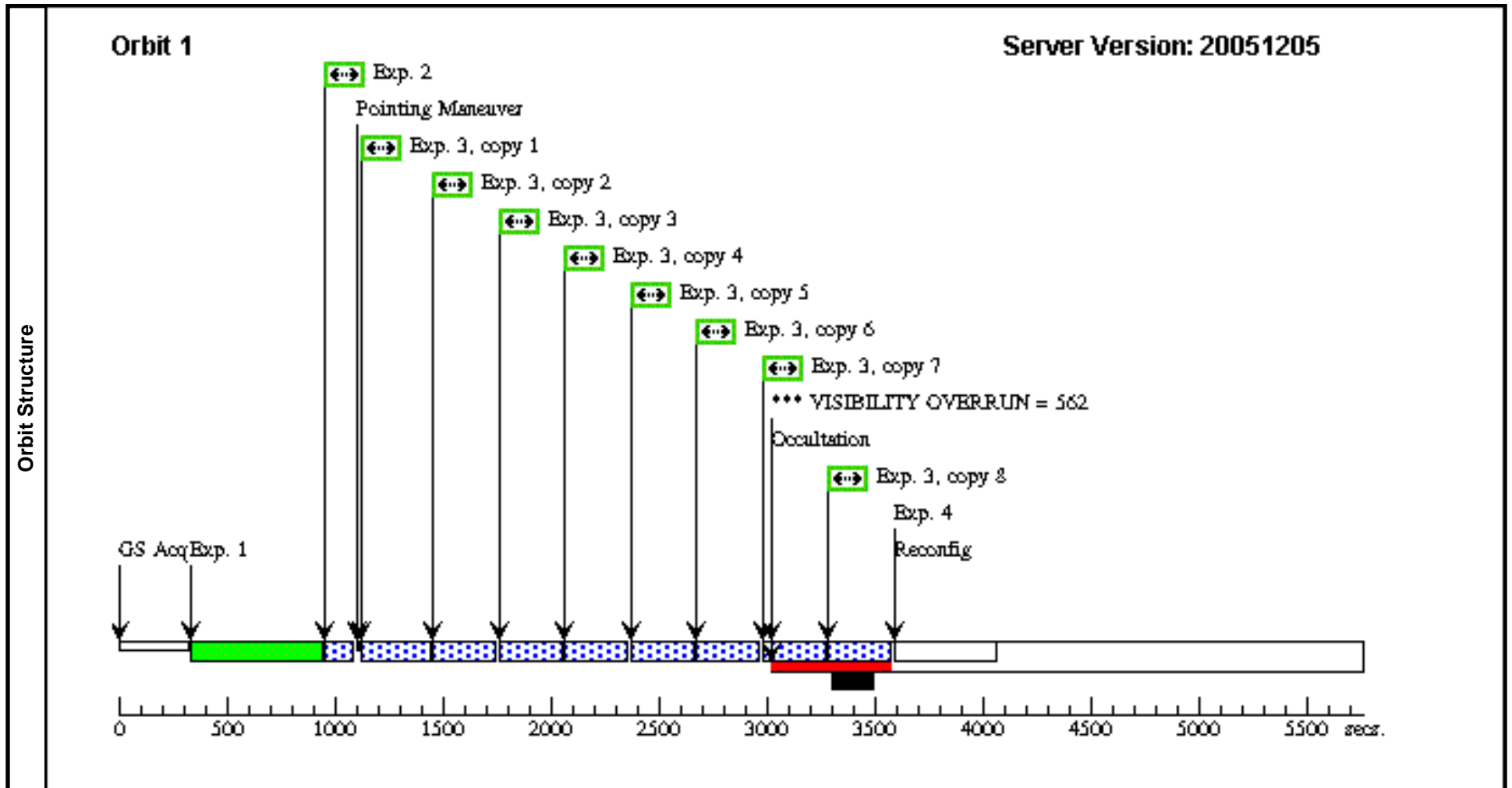
Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	9		(1) HD-149026	ACS/SBC, ACCUM, SBC	PR110L			Sequence 7-10 Non-Int	265.0 Secs X 8	
	[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)]									[3]
	<i>Comments: change qasi_states start and end states from WFMAHVON to WFHROBS</i>									
10	DARK_SB CDOWN	DARK	S/C, DATA, NONE				SAA CONTOUR 28; Sequence 7-10 Non-Int SPEC COM INSTR EJHVTOP	455.0 Secs		
[==>]									[3]	
<i>Comments: qasi_states.start_state=WFHROBS end_state=WFHROPER. spec com transitions ACS from WFMAHVON to WFHROPER</i>										
11		(1) HD-149026	ACS/HRC, ACCUM, HRC	F330W	CR-SPLIT=NO; GAIN=4	POS TARG 0,-1.25		1.0 Secs		
[==>]									[4]	

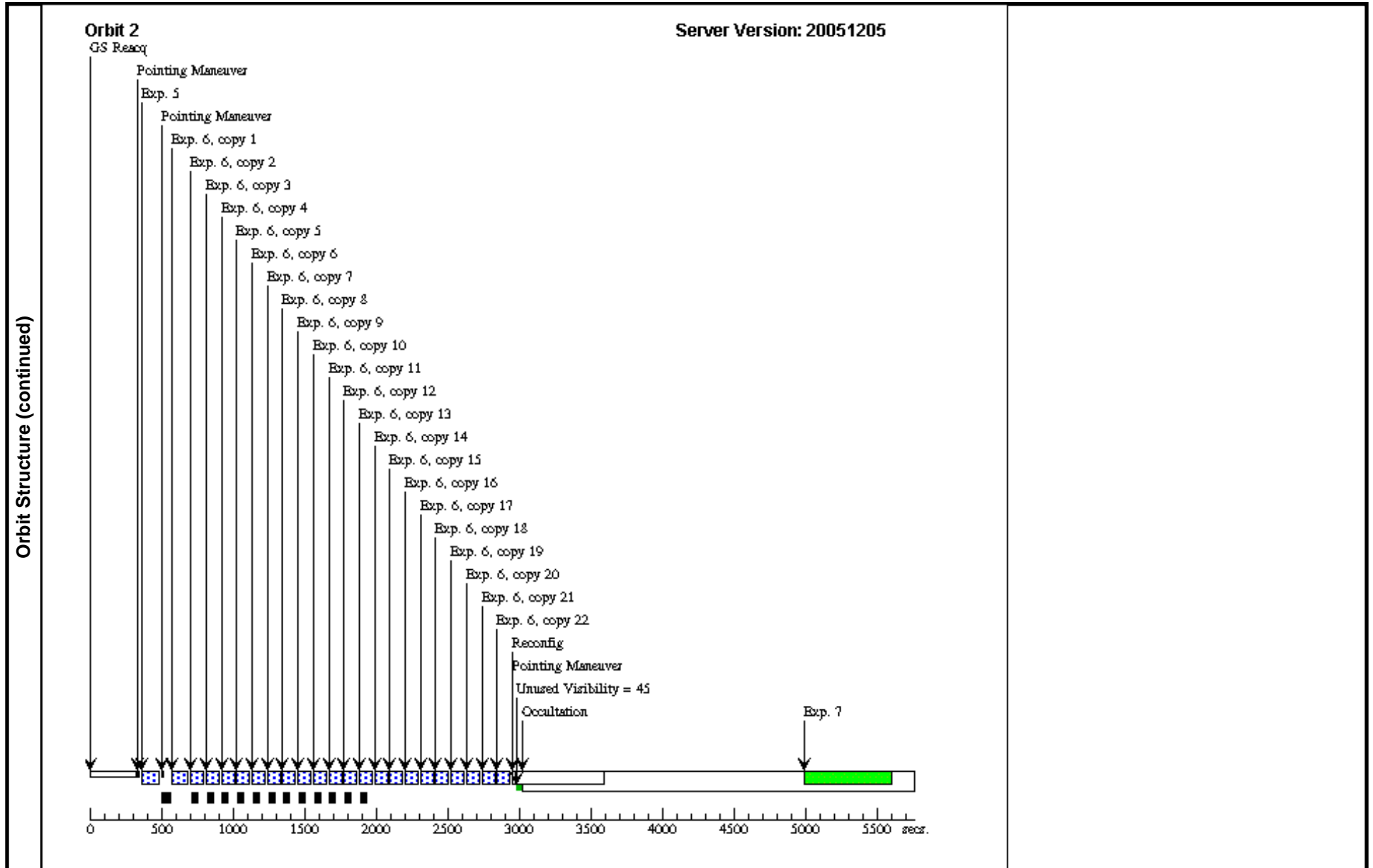
Proposal 10718 - Visit 01 - The Exosphere of a Newly Discovered Transiting Planet

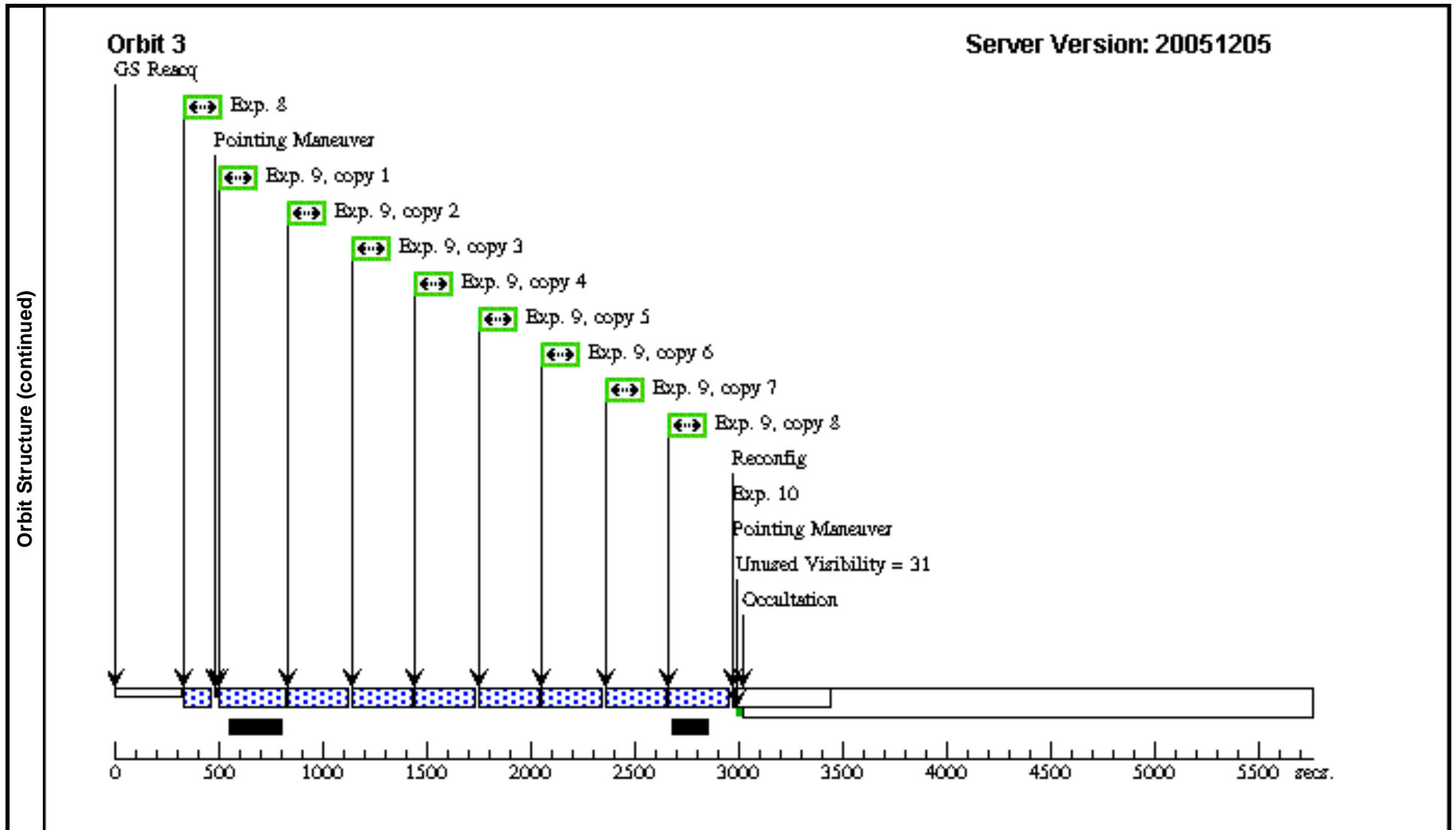
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Exposures (continued)	12		(1) HD-149026	ACS/HRC, ACCUM, HRC	PR200L	AUTOIMAGE=NO; CR-SPLIT=NO; GAIN=4	POS TARG 0,-1.25		56.0 Secs X 22 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)] [==>(Copy 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)]	[4]	
	13	DARK_SB CUP	DARK	S/C, DATA, NONE			SAA CONTOUR 28; SPEC COM INSTR EJOPTHV	Sequence 13-16 Non -Int	620.0 Secs [==>]	[4]	
	<i>Comments: qasi_states.start_state=WFHROPER end_state=WFHROBS. spec com transitions ACS from WFHROPER to WFMAHVON</i>										
	14		(1) HD-149026	ACS/SBC, ACCUM, SBC	F125LP			Sequence 13-16 Non -Int	60.0 Secs [==>]	[5]	
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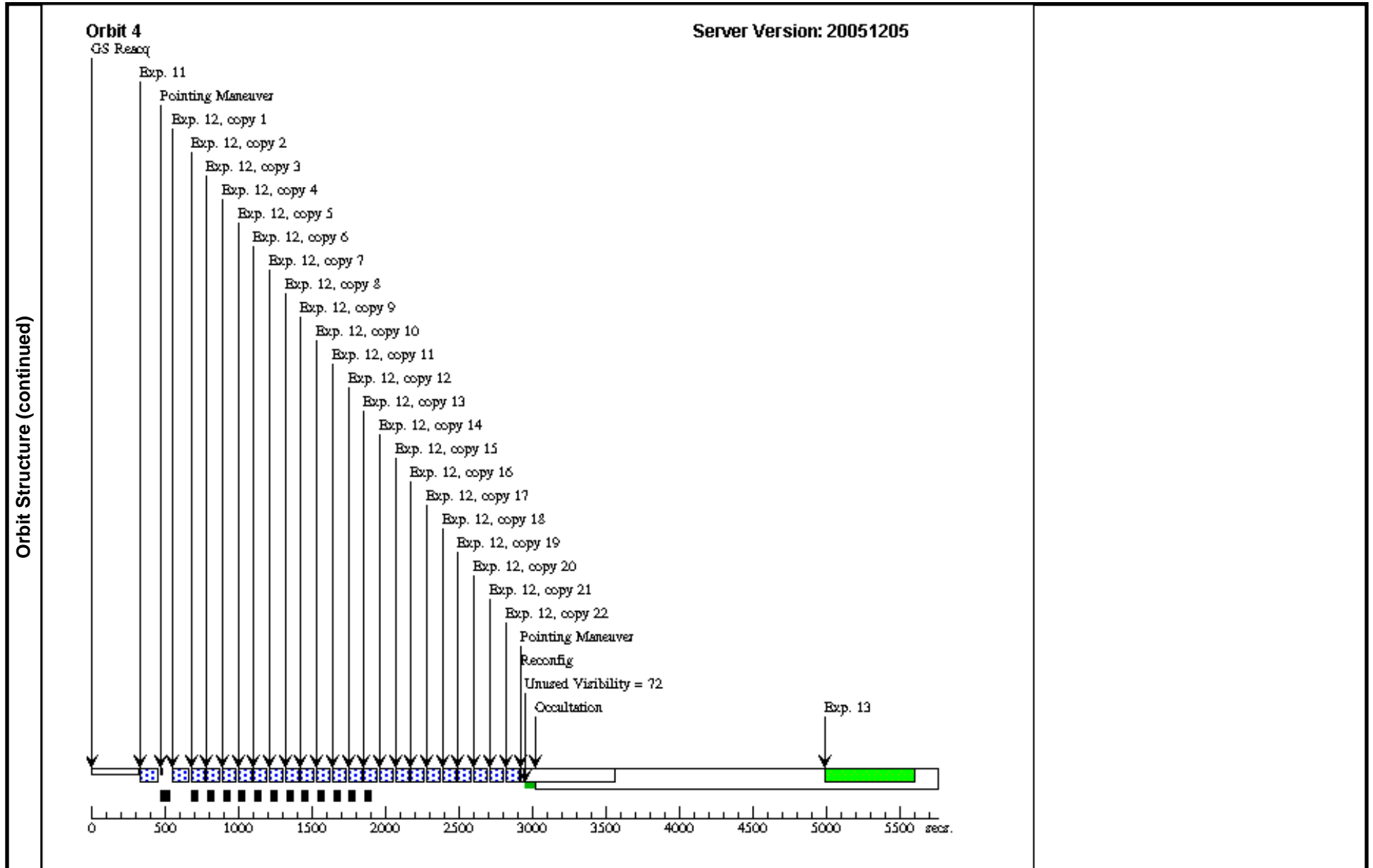
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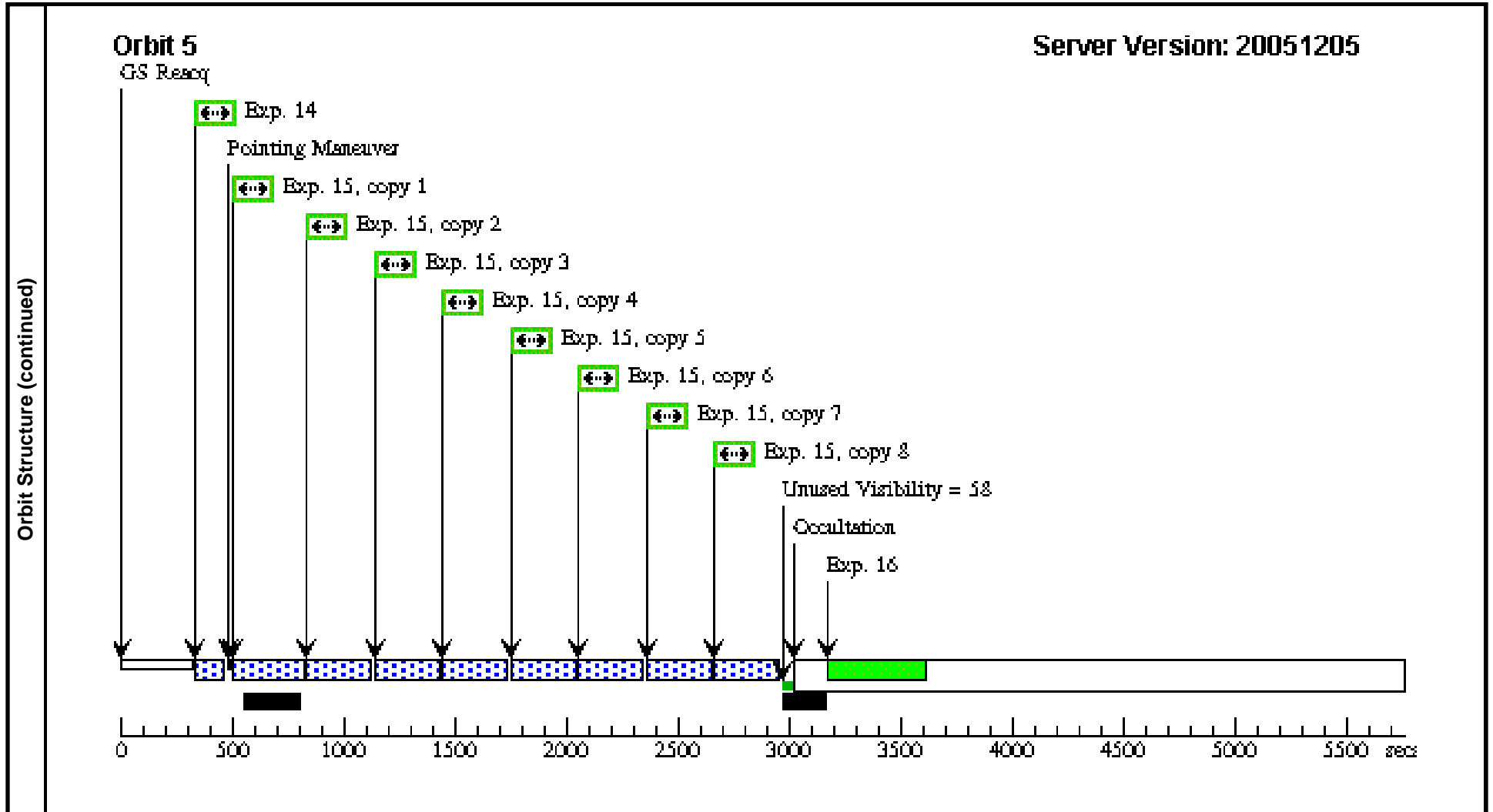
Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	15		(1) HD-149026	ACS/SBC, ACCUM, SBC	PR110L			Sequence 13-16 Non-Int	265.0 Secs X 8	
<p>[==>(Copy 1)]</p> <p>[==>(Copy 2)]</p> <p>[==>(Copy 3)]</p> <p>[==>(Copy 4)]</p> <p>[==>(Copy 5)]</p> <p>[==>(Copy 6)]</p> <p>[==>(Copy 7)]</p> <p>[==>(Copy 8)]</p>									[5]	
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16	DARK_SB CDOWN	DARK	S/C, DATA, NONE				SAA CONTOUR 28; SPEC COM INSTR EJHVTOP	Sequence 13-16 Non-Int	455.0 Secs	
<p>Comments: qasi_states.start_state=WFHROBS end_state=WFHROPER. spec com transitions ACS from WFMAHVON to WFHROPER</p>									[5]	











Proposal 10718 - Visit 02 - The Exosphere of a Newly Discovered Transiting Planet

Tue Mar 28 04:59:41 GMT 2006

Visit	Proposal 10718, Visit 02 Diagnostic Status: Error Scientific Instruments: ACS/SBC, ACS/HRC, S/C Special Requirements: SCHED 100%; SAME ORIENT AS 01; Period 2.876 D AND ZERO-PHASE JD2453530.7492 <i>Comments: This visit requires 5 orbits (SBC, HRC, SBC, HRC, SBC). This visit requires 5 consecutive SAA-free orbits. Schedule visit 3 or 4 (which are different) instead, if only 3 consecutive SAA-free orbits are available. Visits 1 and 2 are identical.</i>																																																										
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	3		(1) HD-149026	ACS/SBC, ACCUM, SBC	PR110L			Sequence 1-4 Non-Int	265.0 Secs X 8 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)]	[1]	
	<i>Comments: change qasi_states start and end states from WFMAHVON to WFHROBS</i>										
	4	DARK_SB CDOWN	DARK	S/C, DATA, NONE				SAA CONTOUR 28; Sequence 1-4 Non-Int SPEC COM INSTR EJHVTOP	455.0 Secs [==>]	[1]	
	<i>Comments: qasi_states.start_state=WFHROBS end_state=WFHROPER. spec com transitions ACS from WFMAHVON to WFHROPER</i>										
5		(1) HD-149026	ACS/HRC, ACCUM, HRC	F330W	CR-SPLIT=NO; GAIN=4	POS TARG 0,-1.25		1.0 Secs [==>]	[2]		

Proposal 10718 - Visit 02 - The Exosphere of a Newly Discovered Transiting Planet

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
Exposures (continued)	6	(1) HD-149026	ACS/HRC, ACCUM, HRC	PR200L	AUTOIMAGE=NO; CR-SPLIT=NO; GAIN=4	POS TARG 0,-1.25		56.0 Secs X 22 [==>(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)]	[2]	
	7	DARK_SB CUP	DARK	S/C, DATA, NONE		SAA CONTOUR 28; SPEC COM INSTR EJOPTHV	Sequence 7-10 Non-Int	620.0 Secs [==>]	[2]	
	<i>Comments: qasi_states.start_state=WFHROPER end_state=WFHROBS. spec com transitions ACS from WFHROPER to WFMAHVON</i>									
	8	(1) HD-149026	ACS/SBC, ACCUM, SBC	F125LP		PHASE 0.9827 TO 0.0059	Sequence 7-10 Non-Int	60.0 Secs [==>]	[3]	
	<i>Comments: change qasi_states start and end states from WFMAHVON to WFHROBS</i>									

Proposal 10718 - Visit 02 - The Exosphere of a Newly Discovered Transiting Planet

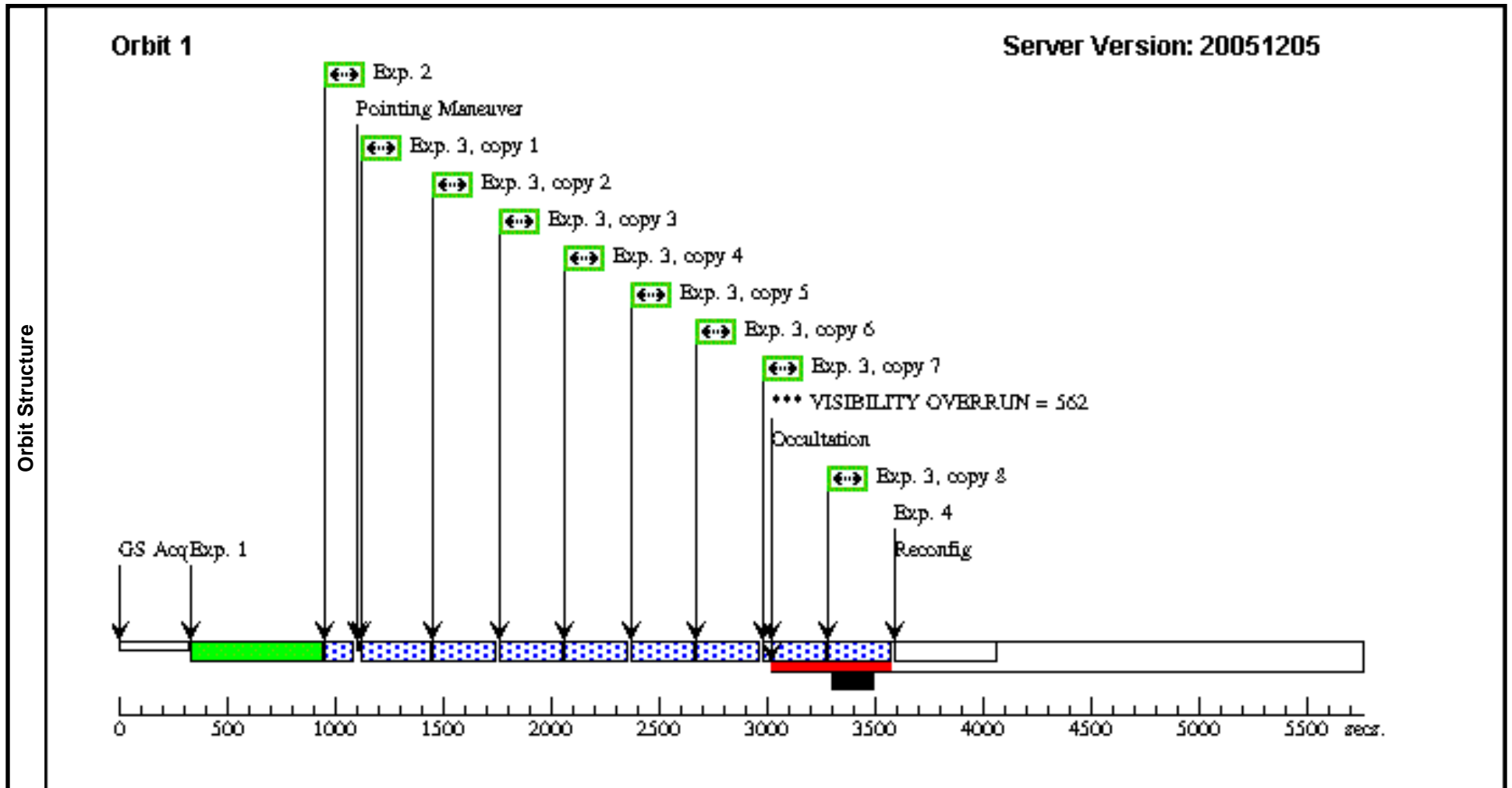
Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	9		(1) HD-149026	ACS/SBC, ACCUM, SBC	PR110L			Sequence 7-10 Non-Int	265.0 Secs X 8	
	[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)]									[3]
	<i>Comments: change qasi_states start and end states from WFMAHVON to WFHROBS</i>									
10	DARK_SB CDOWN	DARK	S/C, DATA, NONE				SAA CONTOUR 28; Sequence 7-10 Non-Int SPEC COM INSTR EJHVTOP	455.0 Secs		
[==>]									[3]	
<i>Comments: qasi_states.start_state=WFHROBS end_state=WFHROPER. spec com transitions ACS from WFMAHVON to WFHROPER</i>										
11		(1) HD-149026	ACS/HRC, ACCUM, HRC	F330W	CR-SPLIT=NO;	POS TARG 0,-1.25		1.0 Secs		
[==>]									[4]	

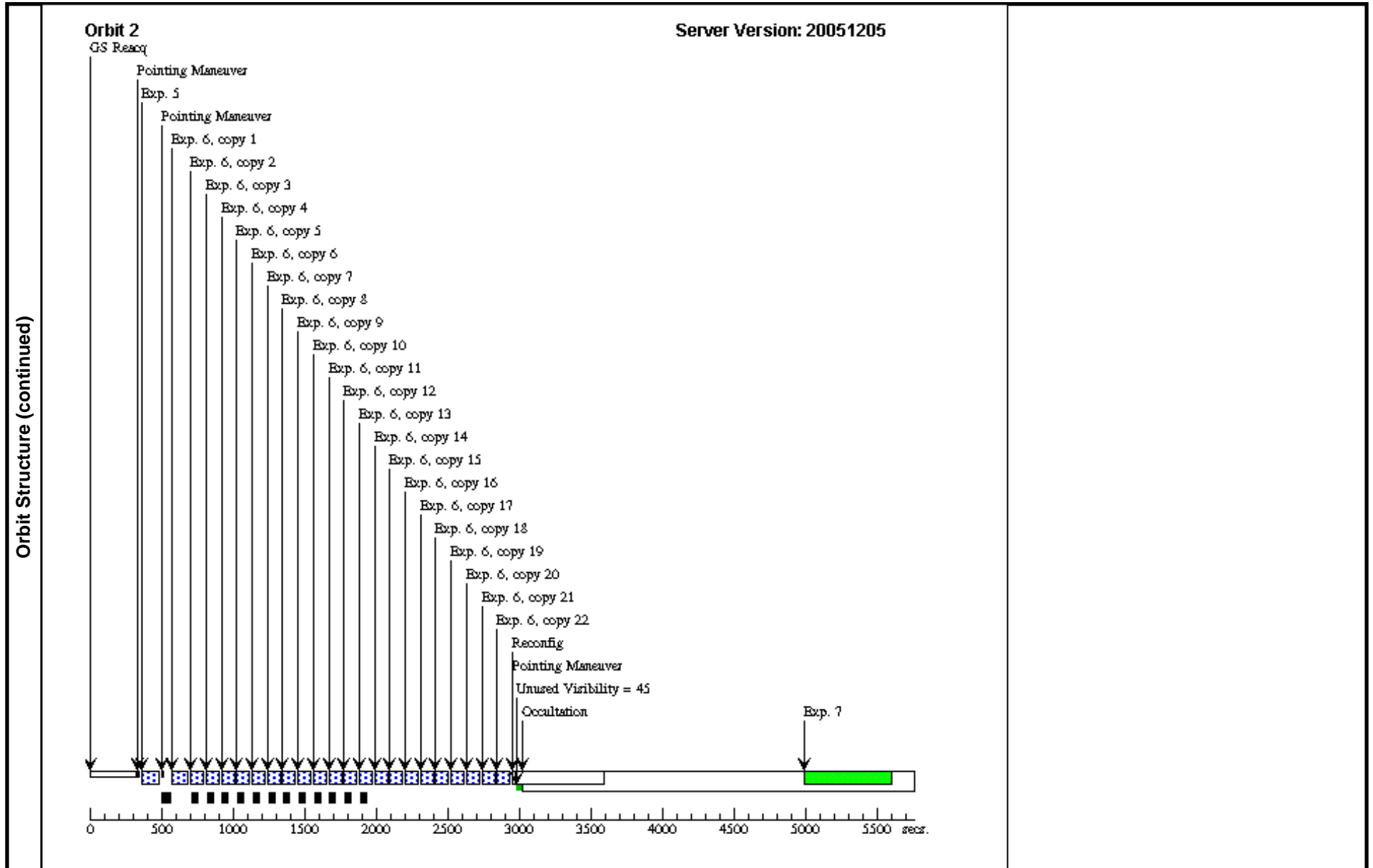
Proposal 10718 - Visit 02 - The Exosphere of a Newly Discovered Transiting Planet

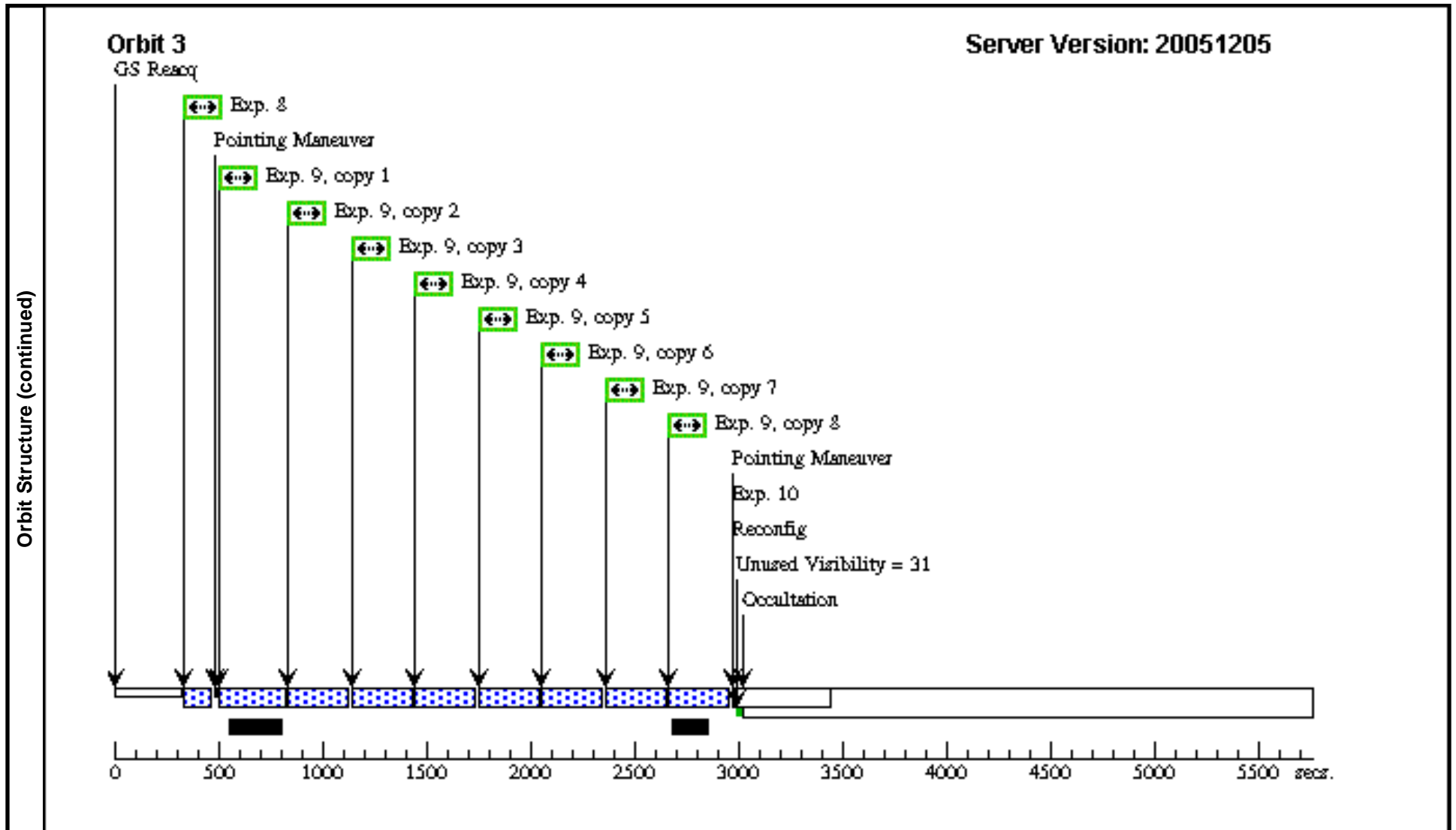
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
Exposures (continued)	12		(1) HD-149026	ACS/HRC, ACCUM, HRC	PR200L	AUTOIMAGE=NO; CR-SPLIT=NO; GAIN=4	POS TARG 0,-1.25		56.0 Secs X 22 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 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)]	[4]	
	13	DARK_SB CUP	DARK	S/C, DATA, NONE			SAA CONTOUR 28; SPEC COM INSTR EJOPTHV	Sequence 13-16 Non -Int	620.0 Secs [==>]	[4]	
	<i>Comments: qasi_states.start_state=WFHROPER end_state=WFHROBS. spec com transitions ACS from WFHROPER to WFMAHVON</i>										
	14		(1) HD-149026	ACS/SBC, ACCUM, SBC	F125LP			Sequence 13-16 Non -Int	60.0 Secs [==>]	[5]	
	<i>Comments: change qasi_states start and end states from WFMAHVON to WFHROBS</i>										

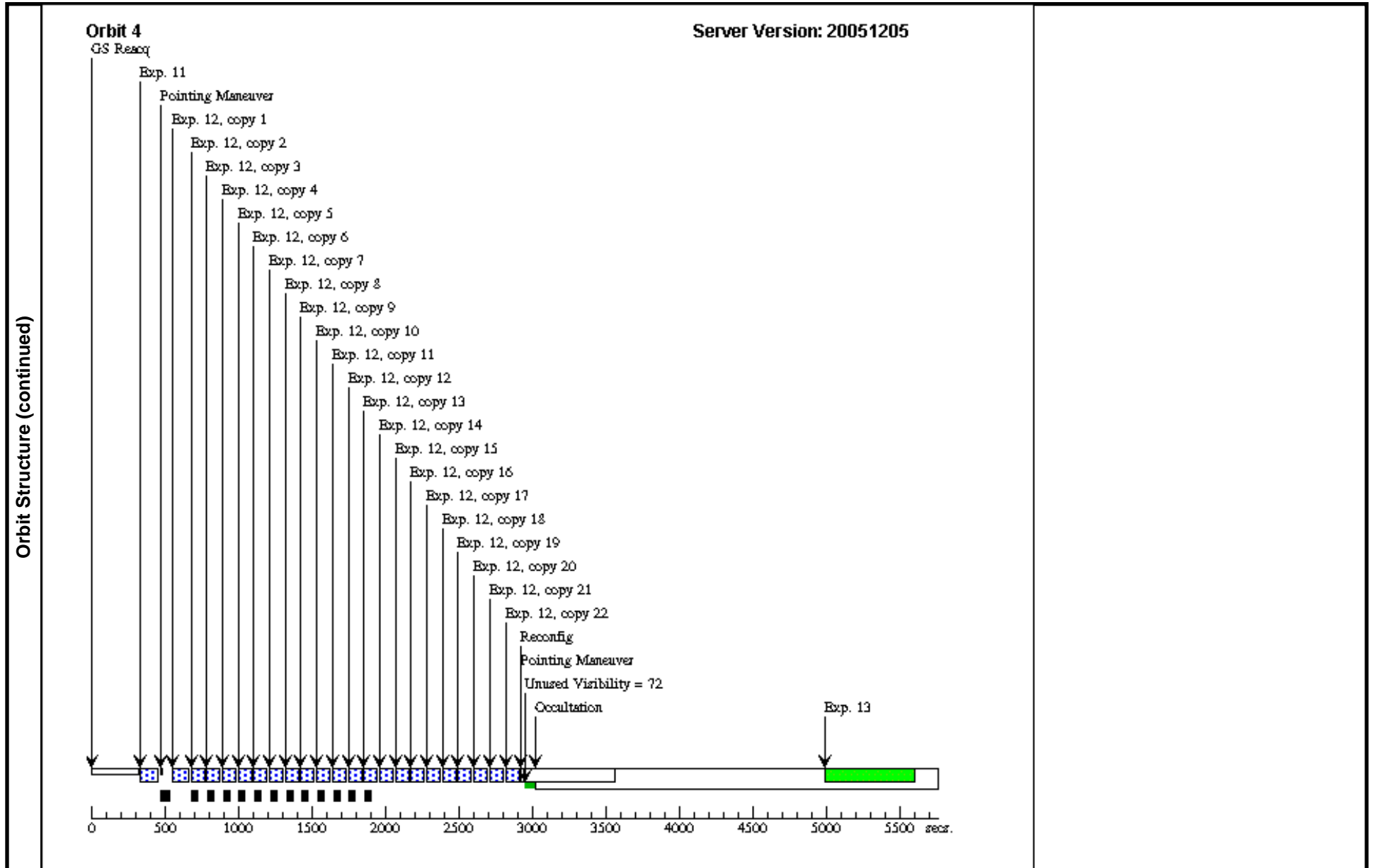
Proposal 10718 - Visit 02 - The Exosphere of a Newly Discovered Transiting Planet

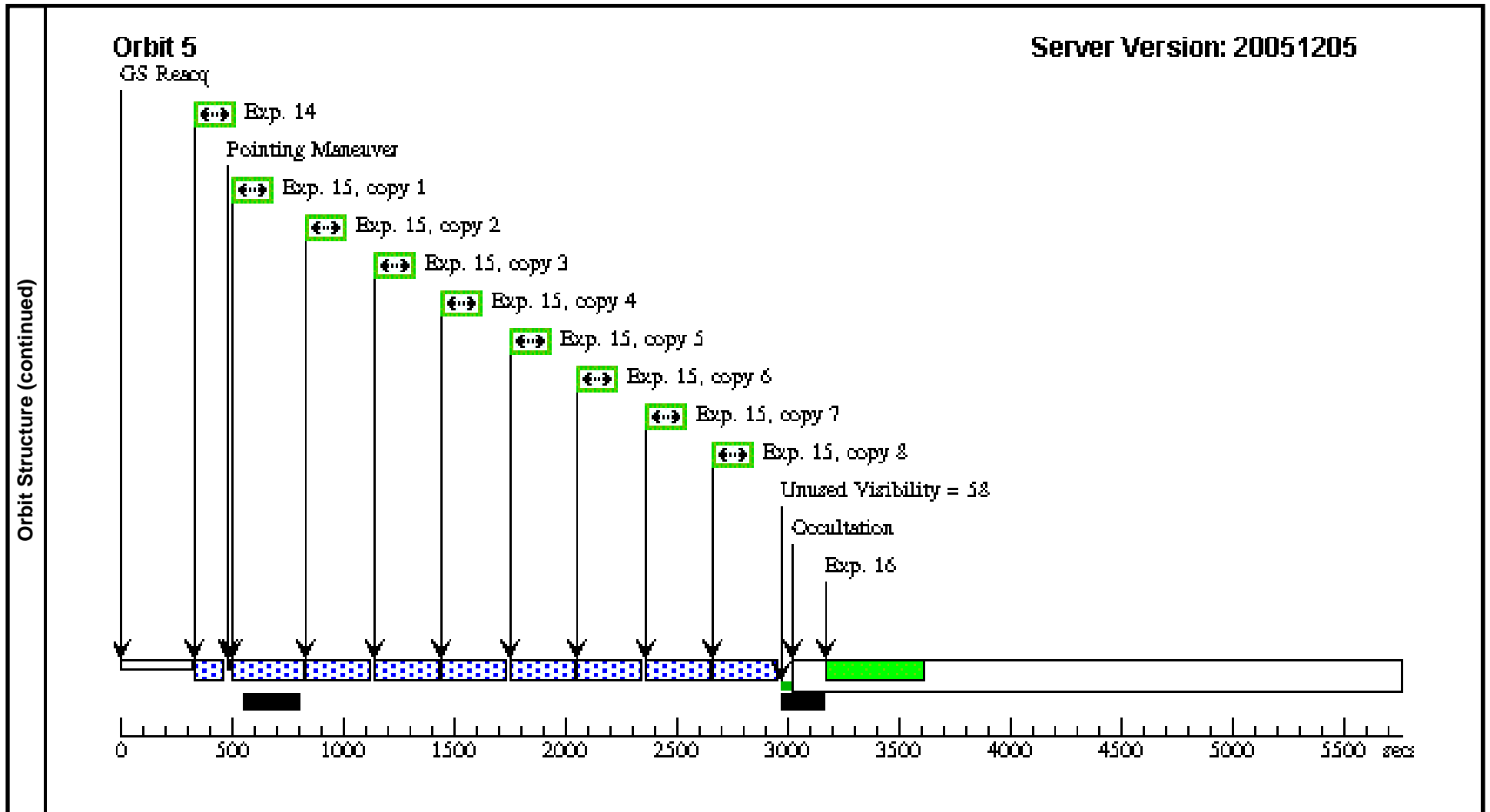
Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	15	(1) HD-149026	ACS/SBC, ACCUM, SBC	PR110L				Sequence 13-16 Non-Int	265.0 Secs X 8 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)]	[5]
<i>Comments: change qasi_states start and end states from WFMAHVON to WFHROBS</i>										
16	DARK_SB CDOWN	DARK	S/C, DATA, NONE			SAA CONTOUR 28; SPEC COM INSTR EJHVTOP	Sequence 13-16 Non-Int	455.0 Secs [==>]	[5]	
<i>Comments: qasi_states.start_state=WFHROBS end_state=WFHROPER. spec com transitions ACS from WFMAHVON to WFHROPER</i>										











Proposal 10718 - Visit 03 - The Exosphere of a Newly Discovered Transiting Planet

Tue Mar 28 04:59:48 GMT 2006

Visit	Proposal 10718, Visit 03 Diagnostic Status: Error Scientific Instruments: ACS/SBC, ACS/HRC, S/C Special Requirements: SCHED 100%; SAME ORIENT AS 01; Period 2.876 D AND ZERO-PHASE JD2453530.7492 <i>Comments: This visit requires 4 orbits (SBC, HRC, SBC, HRC). This visit requires 3 consecutive SAA-free orbits. Schedule visit 1 or 2 (which are identical) instead, if 5 consecutive SAA-free orbits are available.</i>																																																																														
	Diagnosics (DARK_SBCUP (03.001) special requirements) Error: Special Requirement SAA CONTOUR is not allowed for this exposure. (DARK_SBCDOWN (03.004) special requirements) Error: Special Requirement SAA CONTOUR is not allowed for this exposure. (DARK_SBCUP (03.007) special requirements) Error: Special Requirement SAA CONTOUR is not allowed for this exposure. (DARK_SBCDOWN (03.010) special requirements) Error: Special Requirement SAA CONTOUR is not allowed for this exposure. (Visit 03) Warning: VISIBILITY OVERRUN																																																																														
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>HD-149026</td> <td>RA: 16 30 29.6192 (247.6234133d) Dec: +38 20 50.32 (38.34731d) Equinox: J2000 Plate Id: (?)</td> <td>Proper Motion RA: -0.00664s/yr Proper Motion Dec: 0.0553"/yr Parallax: 0.01268" Epoch of Position: 1991.19</td> <td>V=8.16+/-0.1</td> <td>Coordinate Source: SIMBAD</td> </tr> </tbody> </table> <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Parallax from HIP Catalog. Proper motions from Tycho-2 Catalog (-78.1 mas/yr = -0.00664 seconds of time/year).</i>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	HD-149026	RA: 16 30 29.6192 (247.6234133d) Dec: +38 20 50.32 (38.34731d) Equinox: J2000 Plate Id: (?)	Proper Motion RA: -0.00664s/yr Proper Motion Dec: 0.0553"/yr Parallax: 0.01268" Epoch of Position: 1991.19	V=8.16+/-0.1	Coordinate Source: SIMBAD																																																									
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<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>DARK_SB CUP</td> <td>DARK</td> <td>S/C, DATA, NONE</td> <td></td> <td></td> <td>SAA CONTOUR 28; SPEC COM INSTR EJOPTHV</td> <td>Sequence 1-4 Non-Int</td> <td>620.0 Secs [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"><i>Comments: qasi_states.start_state=WFHROPER end_state=WFHROBS. spec com transitions ACS from WFHROPER to WFMAHVON</i></td> </tr> <tr> <td>2</td> <td>(1) HD-149026</td> <td></td> <td>ACS/SBC, ACCUM, SBC</td> <td>F125LP</td> <td></td> <td></td> <td>Sequence 1-4 Non-Int</td> <td>60.0 Secs [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"><i>Comments: change qasi_states start and end states from WFMAHVON to WFHROBS</i></td> </tr> <tr> <td>3</td> <td>(1) HD-149026</td> <td></td> <td>ACS/SBC, ACCUM, SBC</td> <td>PR110L</td> <td></td> <td></td> <td>Sequence 1-4 Non-Int</td> <td>265.0 Secs X 8 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)]</td> <td>[1]</td> </tr> <tr> <td colspan="10"><i>Comments: change qasi_states start and end states from WFMAHVON to WFHROBS</i></td> </tr> </tbody> </table>										#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	1	DARK_SB CUP	DARK	S/C, DATA, NONE			SAA CONTOUR 28; SPEC COM INSTR EJOPTHV	Sequence 1-4 Non-Int	620.0 Secs [==>]	[1]	<i>Comments: qasi_states.start_state=WFHROPER end_state=WFHROBS. spec com transitions ACS from WFHROPER to WFMAHVON</i>										2	(1) HD-149026		ACS/SBC, ACCUM, SBC	F125LP			Sequence 1-4 Non-Int	60.0 Secs [==>]	[1]	<i>Comments: change qasi_states start and end states from WFMAHVON to WFHROBS</i>										3	(1) HD-149026		ACS/SBC, ACCUM, SBC	PR110L			Sequence 1-4 Non-Int	265.0 Secs X 8 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)]	[1]	<i>Comments: change qasi_states start and end states from WFMAHVON to WFHROBS</i>									
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit																																																																						
1	DARK_SB CUP	DARK	S/C, DATA, NONE			SAA CONTOUR 28; SPEC COM INSTR EJOPTHV	Sequence 1-4 Non-Int	620.0 Secs [==>]	[1]																																																																						
<i>Comments: qasi_states.start_state=WFHROPER end_state=WFHROBS. spec com transitions ACS from WFHROPER to WFMAHVON</i>																																																																															
2	(1) HD-149026		ACS/SBC, ACCUM, SBC	F125LP			Sequence 1-4 Non-Int	60.0 Secs [==>]	[1]																																																																						
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3	(1) HD-149026		ACS/SBC, ACCUM, SBC	PR110L			Sequence 1-4 Non-Int	265.0 Secs X 8 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)]	[1]																																																																						
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Proposal 10718 - Visit 03 - The Exosphere of a Newly Discovered Transiting Planet

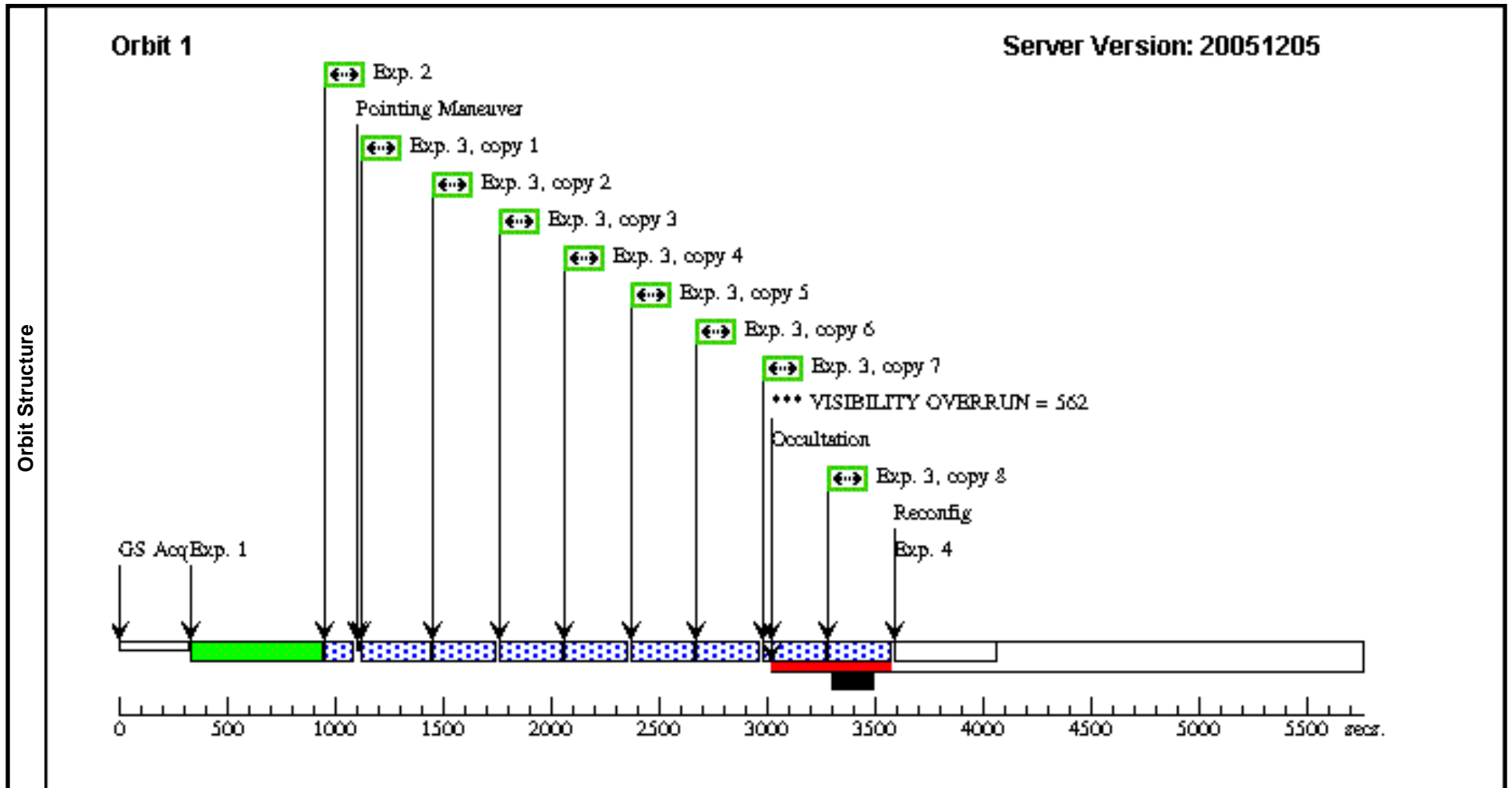
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures (continued)	4	DARK_SB CDOWN	DARK	S/C, DATA, NONE		SAA CONTOUR 28; SPEC COM INSTR EJHVTOP	Sequence 1-4 Non-Int	455.0 Secs [==>]	[1]
	<i>Comments: qasi_states.start_state=WFHROBS end_state=WFHROPER. spec com transitions ACS from WFMAHVON to WFHROPER</i>								
	5	(1) HD-149026	ACS/HRC, ACCUM, HRC	F330W	CR-SPLIT=NO; GAIN=4	POS TARG 0,-1.25		1.0 Secs [==>]	[2]
	6	(1) HD-149026	ACS/HRC, ACCUM, HRC	PR200L	AUTOIMAGE=NO; CR-SPLIT=NO; GAIN=4	POS TARG 0,-1.25		56.0 Secs X 22 [==>(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)]	[2]
7	DARK_SB CUP	DARK	S/C, DATA, NONE			SAA CONTOUR 28; SPEC COM INSTR EJOPTHV	Sequence 7-10 Non-Int	620.0 Secs [==>]	[2]
<i>Comments: qasi_states.start_state=WFHROPER end_state=WFHROBS. spec com transitions ACS from WFHROPER to WFMAHVON</i>									
8	(1) HD-149026	ACS/SBC, ACCUM, SBC	F125LP			PHASE 0.9827 TO 0 .0059	Sequence 7-10 Non-Int	60.0 Secs [==>]	[3]
<i>Comments: change qasi_states start and end states from WFMAHVON to WFHROBS</i>									

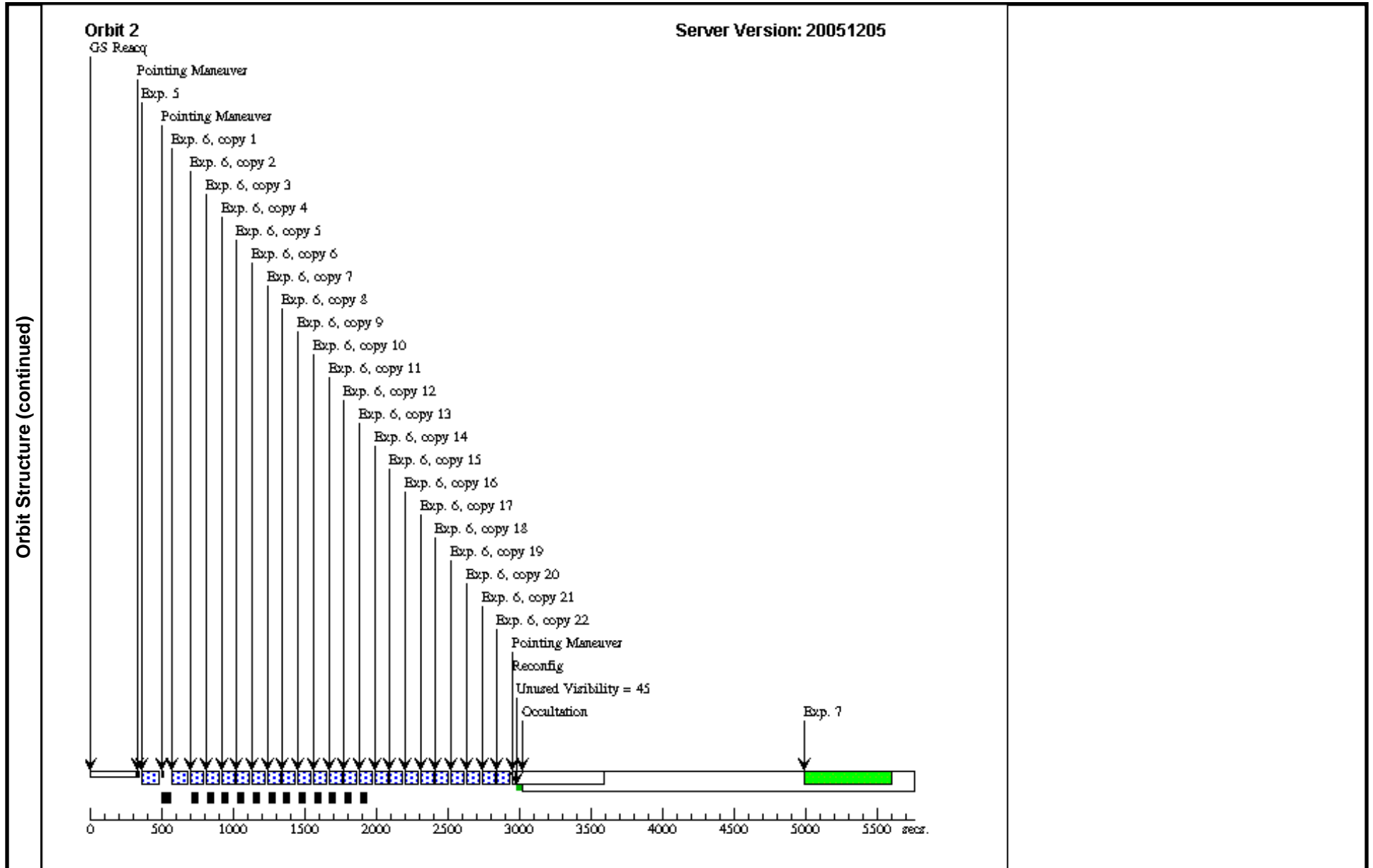
Proposal 10718 - Visit 03 - The Exosphere of a Newly Discovered Transiting Planet

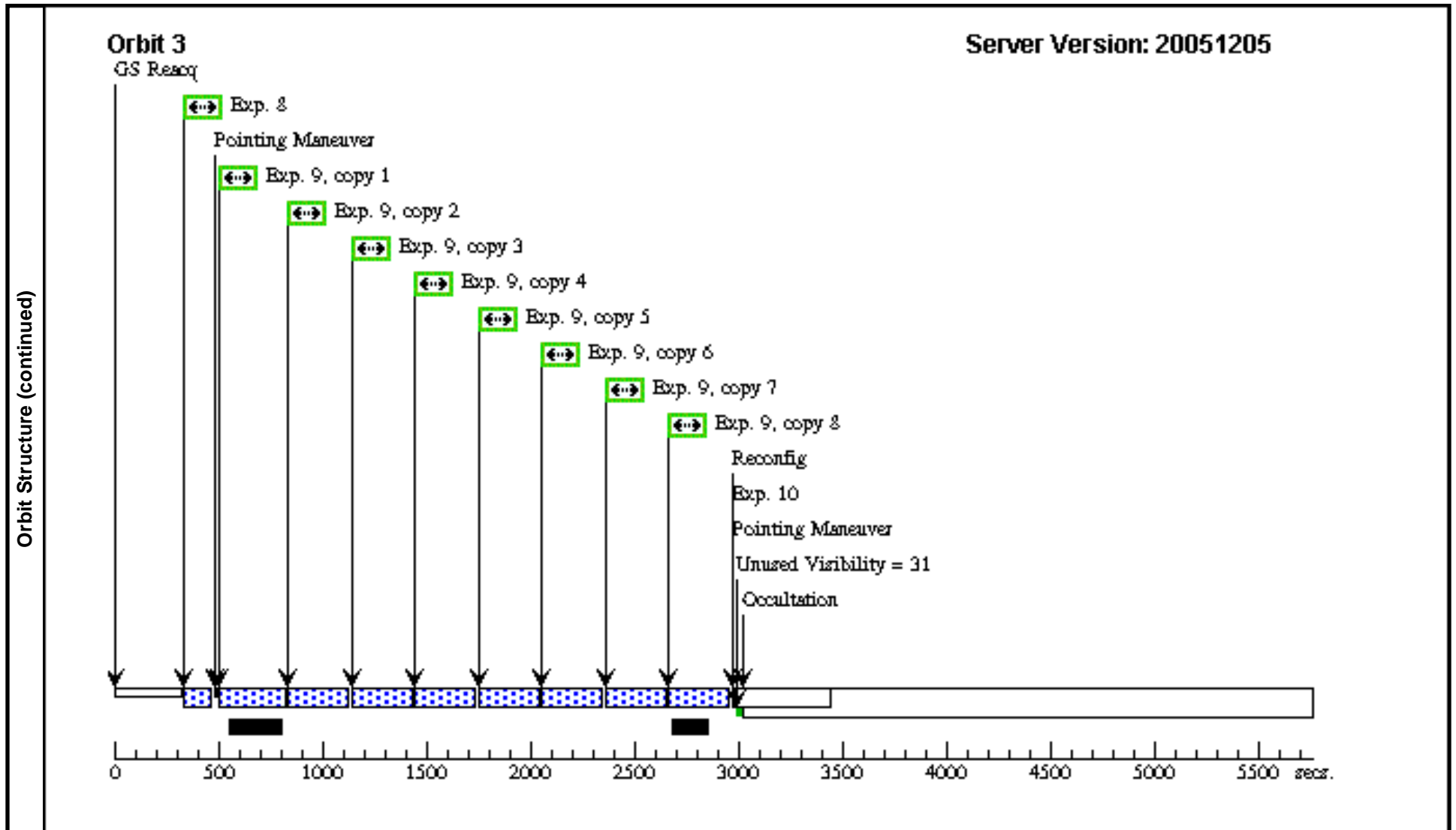
Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	9		(1) HD-149026	ACS/SBC, ACCUM, SBC	PR110L			Sequence 7-10 Non-Int	265.0 Secs X 8	
	[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)]									[3]
	<i>Comments: change qasi_states start and end states from WFMAHVON to WFHROBS</i>									
10	DARK_SB CDOWN	DARK	S/C, DATA, NONE				SAA CONTOUR 28; Sequence 7-10 Non-Int SPEC COM INSTR EJHVTOP	455.0 Secs		
[==>]									[3]	
<i>Comments: qasi_states.start_state=WFHROBS end_state=WFHROPER. spec com transitions ACS from WFMAHVON to WFHROPER</i>										
11		(1) HD-149026	ACS/HRC, ACCUM, HRC	F330W	CR-SPLIT=NO;	POS TARG 0,-1.25		1.0 Secs		
[==>]									[4]	

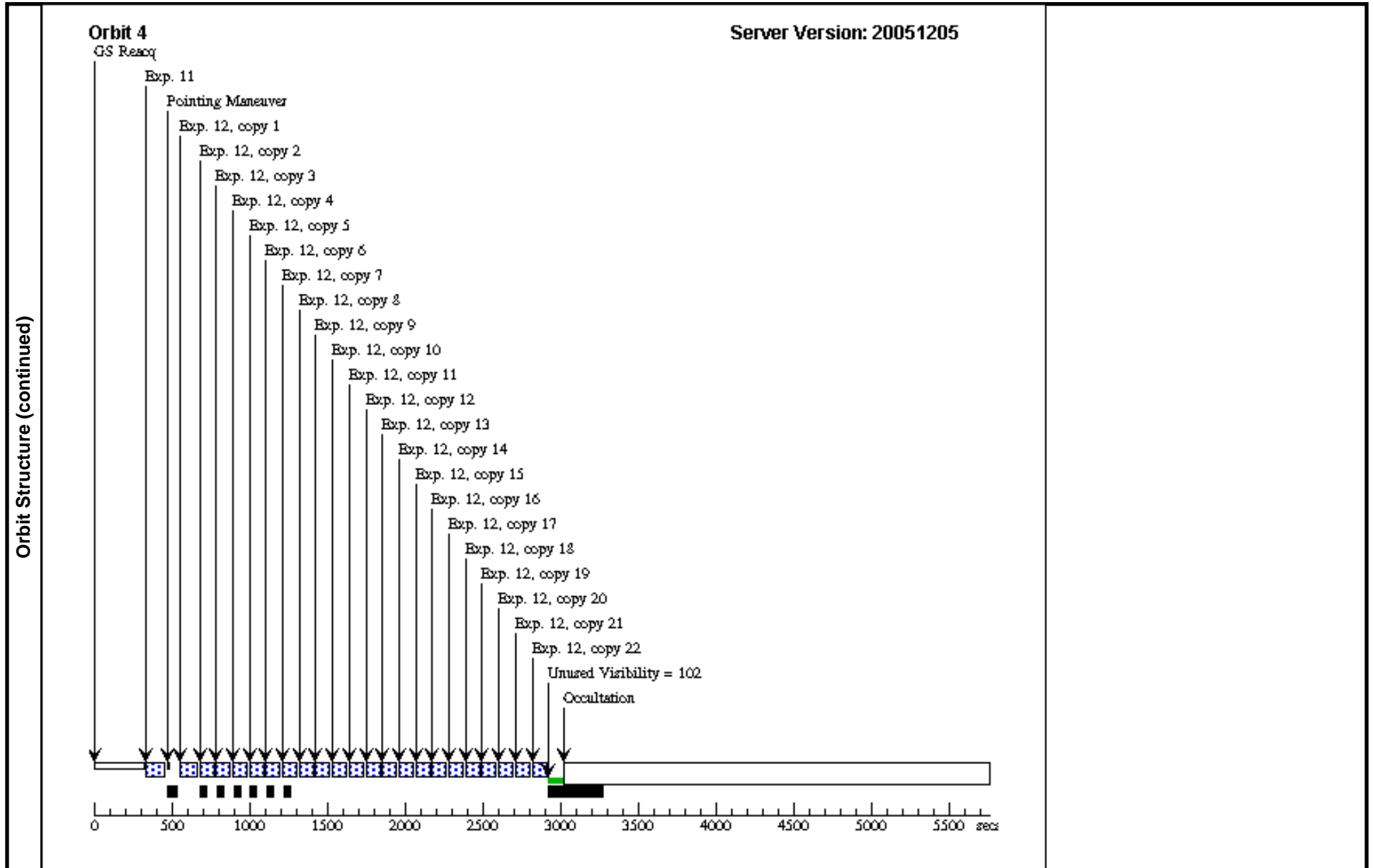
Proposal 10718 - Visit 03 - The Exosphere of a Newly Discovered Transiting Planet

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
Exposures (continued)	12	(1) HD-149026	ACS/HRC, ACCUM, HRC	PR200L	AUTOIMAGE=NO;	POS TARG 0,-1.25		56.0 Secs X 22		
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					GAIN=4			[==>(Copy 2)]		
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Proposal 10718 - Visit 04 - The Exosphere of a Newly Discovered Transiting Planet

Tue Mar 28 04:59:53 GMT 2006

Visit	Proposal 10718, Visit 04 Diagnostic Status: Error Scientific Instruments: ACS/SBC, ACS/HRC, S/C Special Requirements: SCHED 100%; SAME ORIENT AS 01; Period 2.876 D AND ZERO-PHASE JD2453530.7492 <i>Comments: This visit requires 4 orbits (HRC, SBC, HRC, SBC). This visit requires 3 consecutive SAA-free orbits. Schedule visit 1 or 2 (which are identical) instead, if 5 consecutive SAA-free orbits are available.</i>																												
	Diagnosics (DARK_SBCUP (04.003) special requirements) Error: Special Requirement SAA CONTOUR is not allowed for this exposure. (DARK_SBCDOWN (04.006) special requirements) Error: Special Requirement SAA CONTOUR is not allowed for this exposure. (DARK_SBCUP (04.009) special requirements) Error: Special Requirement SAA CONTOUR is not allowed for this exposure. (DARK_SBCDOWN (04.012) special requirements) Error: Special Requirement SAA CONTOUR is not allowed for this exposure.																												
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>HD-149026</td> <td>RA: 16 30 29.6192 (247.6234133d) Dec: +38 20 50.32 (38.34731d) Equinox: J2000 Plate Id: (?)</td> <td>Proper Motion RA: -0.00664s/yr Proper Motion Dec: 0.0553"/yr Parallax: 0.01268" Epoch of Position: 1991.19</td> <td>V=8.16+/-0.1</td> <td>Coordinate Source: SIMBAD</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Parallax from HIP Catalog. Proper motions from Tycho-2 Catalog (-78.1 mas/yr = -0.00664 seconds of time/year).</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	HD-149026	RA: 16 30 29.6192 (247.6234133d) Dec: +38 20 50.32 (38.34731d) Equinox: J2000 Plate Id: (?)	Proper Motion RA: -0.00664s/yr Proper Motion Dec: 0.0553"/yr Parallax: 0.01268" Epoch of Position: 1991.19	V=8.16+/-0.1	Coordinate Source: SIMBAD							
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																							
(1)	HD-149026	RA: 16 30 29.6192 (247.6234133d) Dec: +38 20 50.32 (38.34731d) Equinox: J2000 Plate Id: (?)	Proper Motion RA: -0.00664s/yr Proper Motion Dec: 0.0553"/yr Parallax: 0.01268" Epoch of Position: 1991.19	V=8.16+/-0.1	Coordinate Source: SIMBAD																								
<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>(1) HD-149026</td> <td>ACS/HRC, ACCUM, HRC</td> <td>F330W</td> <td>CR-SPLIT=NO; GAIN=4</td> <td>POS TARG 0,-1.25</td> <td></td> <td>1.0 Secs [==>]</td> <td>[1]</td> </tr> </tbody> </table>										#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	1		(1) HD-149026	ACS/HRC, ACCUM, HRC	F330W	CR-SPLIT=NO; GAIN=4	POS TARG 0,-1.25		1.0 Secs [==>]	[1]
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit																				
1		(1) HD-149026	ACS/HRC, ACCUM, HRC	F330W	CR-SPLIT=NO; GAIN=4	POS TARG 0,-1.25		1.0 Secs [==>]	[1]																				

Proposal 10718 - Visit 04 - The Exosphere of a Newly Discovered Transiting Planet

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
Exposures (continued)	2	(1) HD-149026	ACS/HRC, ACCUM, HRC	PR200L	AUTOIMAGE=NO; CR-SPLIT=NO; GAIN=4	POS TARG 0,-1.25		56.0 Secs X 22 [==>(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	DARK_SB CUP	DARK	S/C, DATA, NONE		SAA CONTOUR 28; SPEC COM INSTR EJOPTHV	Sequence 3-6 Non-In t	620.0 Secs [==>]	[1]	
	<i>Comments: qasi_states.start_state=WFHROPER end_state=WFHROBS. spec com transitions ACS from WFHROPER to WFMAHVON</i>									
	4	(1) HD-149026	ACS/SBC, ACCUM, SBC	F125LP		PHASE 0.9827 TO 0 .0059	Sequence 3-6 Non-In t	60.0 Secs [==>]	[2]	
	<i>Comments: change qasi_states start and end states from WFMAHVON to WFHROBS</i>									

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Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	5		(1) HD-149026	ACS/SBC, ACCUM, SBC	PR110L			Sequence 3-6 Non-Int	265.0 Secs X 8 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)]	[2]	
	<i>Comments: change qasi_states start and end states from WFMAHVON to WFHROBS</i>										
	6	DARK_SB CDOWN	DARK	S/C, DATA, NONE				SAA CONTOUR 28; Sequence 3-6 Non-Int SPEC COM INSTR EJHVTOP	455.0 Secs [==>]	[2]	
<i>Comments: qasi_states.start_state=WFHROBS end_state=WFHROPER. spec com transitions ACS from WFMAHVON to WFHROPER</i>											
7		(1) HD-149026	ACS/HRC, ACCUM, HRC	F330W	CR-SPLIT=NO; GAIN=4	POS TARG 0,-1.25		1.0 Secs [==>]	[3]		

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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
Exposures (continued)	8	(1) HD-149026	ACS/HRC, ACCUM, HRC	PR200L	AUTOIMAGE=NO; CR-SPLIT=NO; GAIN=4	POS TARG 0,-1.25		56.0 Secs X 22 [==>(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)]	[3]	
	9	DARK_SB CUP	DARK	S/C, DATA, NONE		SAA CONTOUR 28; SPEC COM INSTR EJOPTHV	Sequence 9-12 Non-Int	620.0 Secs [==>]	[3]	
	<i>Comments: qasi_states.start_state=WFHROPER end_state=WFHROBS. spec com transitions ACS from WFHROPER to WFMAHVON</i>									
	10	(1) HD-149026	ACS/SBC, ACCUM, SBC	F125LP				Sequence 9-12 Non-Int	60.0 Secs [==>]	[4]
	<i>Comments: change qasi_states start and end states from WFMAHVON to WFHROBS</i>									

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Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	11		(1) HD-149026	ACS/SBC, ACCUM, SBC	PR110L			Sequence 9-12 Non-Int	265.0 Secs X 8	
[==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)] [==>(Copy 7)] [==>(Copy 8)]									[4]	
<i>Comments: change qasi_states start and end states from WFMAHVON to WFHROBS</i>										
12	DARK_SB CDOWN	DARK	S/C, DATA, NONE				SAA CONTOUR 28; Sequence 9-12 Non-Int SPEC COM INSTR EJHVTOP	455.0 Secs		
[==>]									[4]	
<i>Comments: qasi_states.start_state=WFHROBS end_state=WFHROPER. spec com transitions ACS from WFMAHVON to WFHROPER</i>										

