



12576 - Orbit determination for Fomalhaut b and the origin of the debris belt halo

Cycle: 19, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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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) NAME-FOMALHAUT-COPY	STIS/CCD	1	20-Mar-2012 21:25:07.0	yes
02	(1) NAME-FOMALHAUT-COPY	STIS/CCD	1	20-Mar-2012 21:25:30.0	yes
03	(1) NAME-FOMALHAUT-COPY	STIS/CCD	1	20-Mar-2012 21:25:49.0	yes
04	(1) NAME-FOMALHAUT-COPY	STIS/CCD	1	20-Mar-2012 21:26:06.0	yes
05	(1) NAME-FOMALHAUT-COPY	STIS/CCD	1	20-Mar-2012 21:26:26.0	yes
06	(1) NAME-FOMALHAUT-COPY	STIS/CCD	1	20-Mar-2012 21:26:42.0	yes
07	(1) NAME-FOMALHAUT-COPY	STIS/CCD	1	20-Mar-2012 21:26:59.0	yes
08	(1) NAME-FOMALHAUT-COPY	STIS/CCD	1	20-Mar-2012 21:27:18.0	yes
09	(1) NAME-FOMALHAUT-COPY	STIS/CCD	1	20-Mar-2012 21:27:35.0	yes
10	(1) NAME-FOMALHAUT-COPY	STIS/CCD	1	20-Mar-2012 21:27:54.0	yes
11	(1) NAME-FOMALHAUT-COPY	STIS/CCD	1	20-Mar-2012 21:28:11.0	yes

<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>
12	(1) NAME-FOMALHAUT-COPY	STIS/CCD	1	20-Mar-2012 21:28:27.0	yes
51	(1) NAME-FOMALHAUT-COPY	WFC3/UVIS	1	20-Mar-2012 21:28:40.0	yes
52	(1) NAME-FOMALHAUT-COPY	WFC3/UVIS	1	20-Mar-2012 21:28:46.0	yes
53	(1) NAME-FOMALHAUT-COPY	WFC3/UVIS	1	20-Mar-2012 21:28:52.0	yes
54	(1) NAME-FOMALHAUT-COPY	WFC3/UVIS	1	20-Mar-2012 21:28:59.0	yes
55	(1) NAME-FOMALHAUT-COPY	WFC3/UVIS	1	20-Mar-2012 21:29:05.0	yes
56	(1) NAME-FOMALHAUT-COPY	WFC3/UVIS	1	20-Mar-2012 21:29:11.0	yes
57	(1) NAME-FOMALHAUT-COPY	WFC3/UVIS	1	20-Mar-2012 21:29:17.0	yes
58	(1) NAME-FOMALHAUT-COPY	WFC3/UVIS	1	20-Mar-2012 21:29:24.0	yes
59	(1) NAME-FOMALHAUT-COPY	WFC3/UVIS	1	20-Mar-2012 21:29:30.0	yes
60	(1) NAME-FOMALHAUT-COPY	WFC3/UVIS	1	20-Mar-2012 21:29:36.0	yes

22 Total Orbits Used

ABSTRACT

HST has a unique capability to detect tenuous debris disks and exosolar planets at optical wavelengths. Using the ACS/HRC in 2004-2006, we imaged the debris belt surrounding Fomalhaut, finding evidence for a planetary system in the structure of the belt, and then directly imaging a planet candidate, Fomalhaut b (Fom b). New STIS data recover Fom b in 2010 with the expected flux and near its expected position. We also discover a tenuous belt halo extending 30 AU beyond the previously measured outer belt edge. These grains may be driven outward by radiation pressure or dynamically perturbed by Fom b.

We propose a long-term GO program dedicated to the study of the orbit of Fom b and its interaction with this newly discovered halo. The goals are to constrain the orbital elements of Fom b and establish with confidence that it is bound. The proposed astrometry is designed to measure the eccentricity with sufficient precision to discriminate between a circular orbit and one that is nested within the belt with $e \sim 0.12$. STIS is the only instrument demonstrated able to make these astrometric observations.

To pinpoint the origin of grains that comprise the belt halo, we propose to obtain the halo scattered light color by direct imaging in F336W and F814W using WFC3/UVIS. If the main belt and halo share the same color (as opposed to blue Rayleigh-scattering grains) then planetary dynamical

perturbations will be suspected. The UVIS F336W observations leave open the possibility of detecting Fomalhaut b at short wavelengths, testing the hypothesis that Fom b is optically bright due to scattering from an extended circumplanetary ring system such as that found around Saturn.

OBSERVING DESCRIPTION

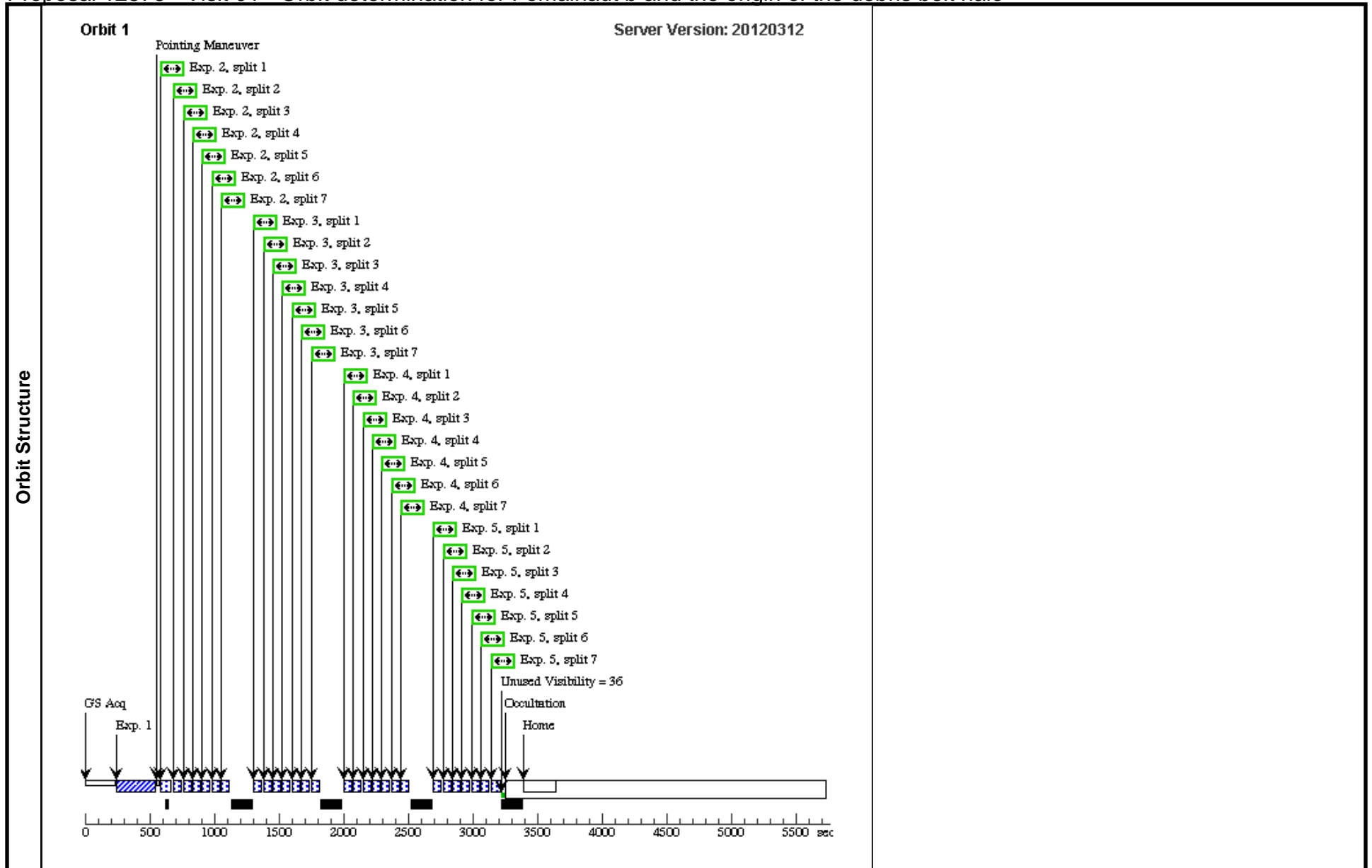
The STIS portion of the observation is a duplicate of the STIS observations conducted under GO-11818 during September 2010 (Visits 19-21). The main difference is that we will utilize three times as many orbits (12 orbits; Visits 01-12 in Cycle 19) to improve our signal to noise. The star Fomalhaut will be imaged behind the STIS WEDGE. Since this is a multi-cycle program (3 cycles) to obtain annual astrometry on Fomalhaut b, it is important to attempt the Cycle 19 observation within the Cycle 19 time frame because we will observe it again in Cycle 20 and Cycle 21. ORIENTs are chosen so that Fomalhaut b, which is at PA=318 approximately 13" from the star, is imaged in a region free of diffraction spikes, focal plane structures, etc.

The WFC3/UVIS portion of the program (Visits 51-60) uses a multi-roll strategy as well. For each of two filters (F336W and F814W), there are five ORIENTs over five orbits. Fomalhaut (the star) is positioned the chip gap using using UVIS-CENTER. The ORIENTs are chosen so that the planet Fomalhaut b does not land on the saturation column of the star, the chip gap, or the diffraction spikes. Also, scattering ghosts appear to dominate the upper portions of the frame relative to the star, and therefore we attempt to image Fomalhaut b in the bottom hemisphere relative to the star by choosing the appropriate telescope ORIENTs.

Proposal 12576 - Visit 01 - Orbit determination for Fomalhaut b and the origin of the debris belt halo

Wed Mar 21 01:29:44 GMT 2012

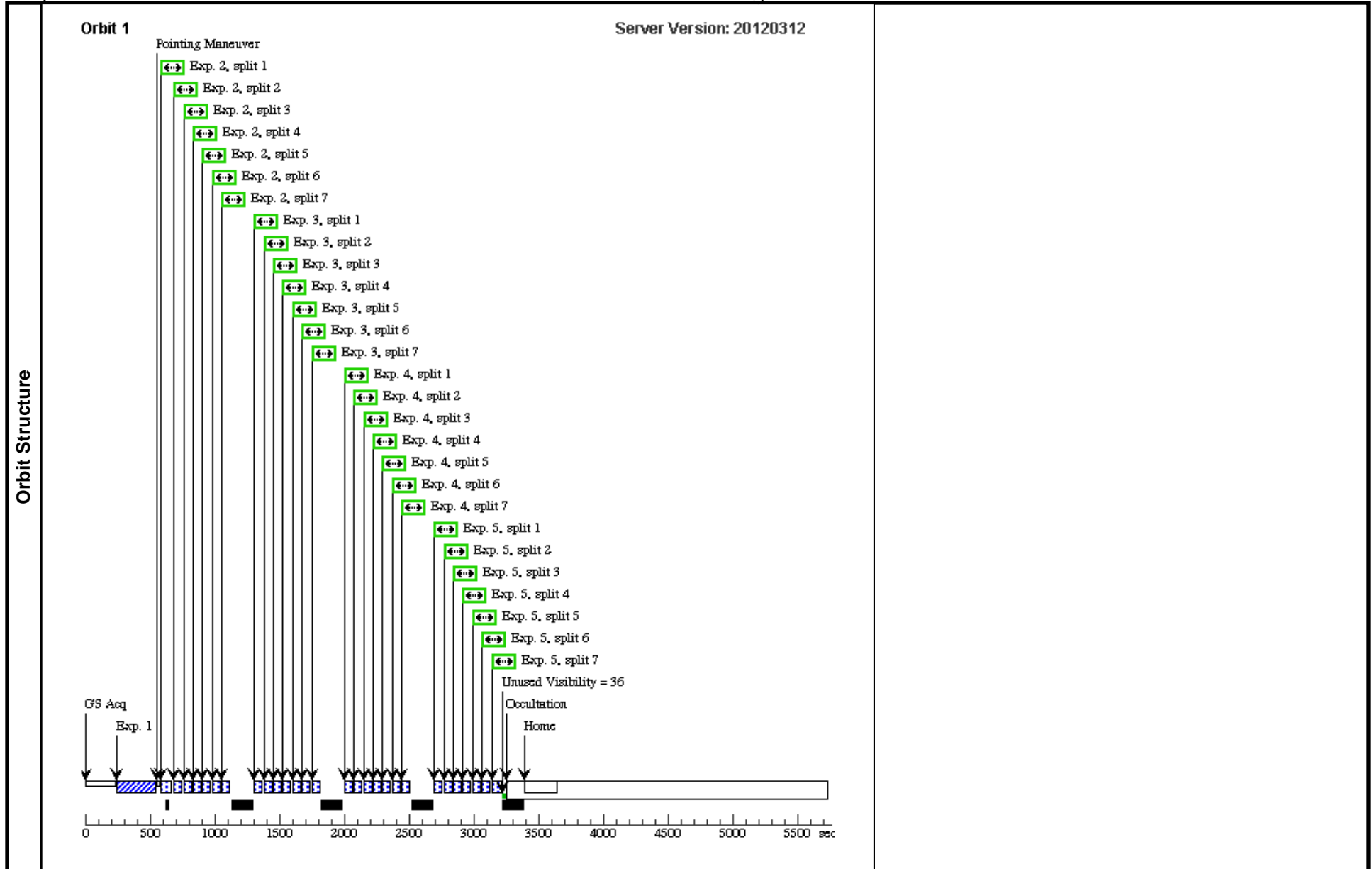
Visit	Proposal 12576, Visit 01, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: ORIENT 235.0D TO 235.0 D; GROUP 01.02.03.04 WITHIN 3.6 Orbits									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT-COPY	RA: 22 57 39.0465 (344.4126938d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000 Plate Id: 06EI	Proper Motion RA: 0.0255 sec of time/yr Proper Motion Dec: -0.165 arcsec/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Reference Frame: GSC1				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARI O SINGLE		2 Secs [==>]	[1]
	2		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	3		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	4		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	5		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]



Proposal 12576 - Visit 02 - Orbit determination for Fomalhaut b and the origin of the debris belt halo

Wed Mar 21 01:29:46 GMT 2012

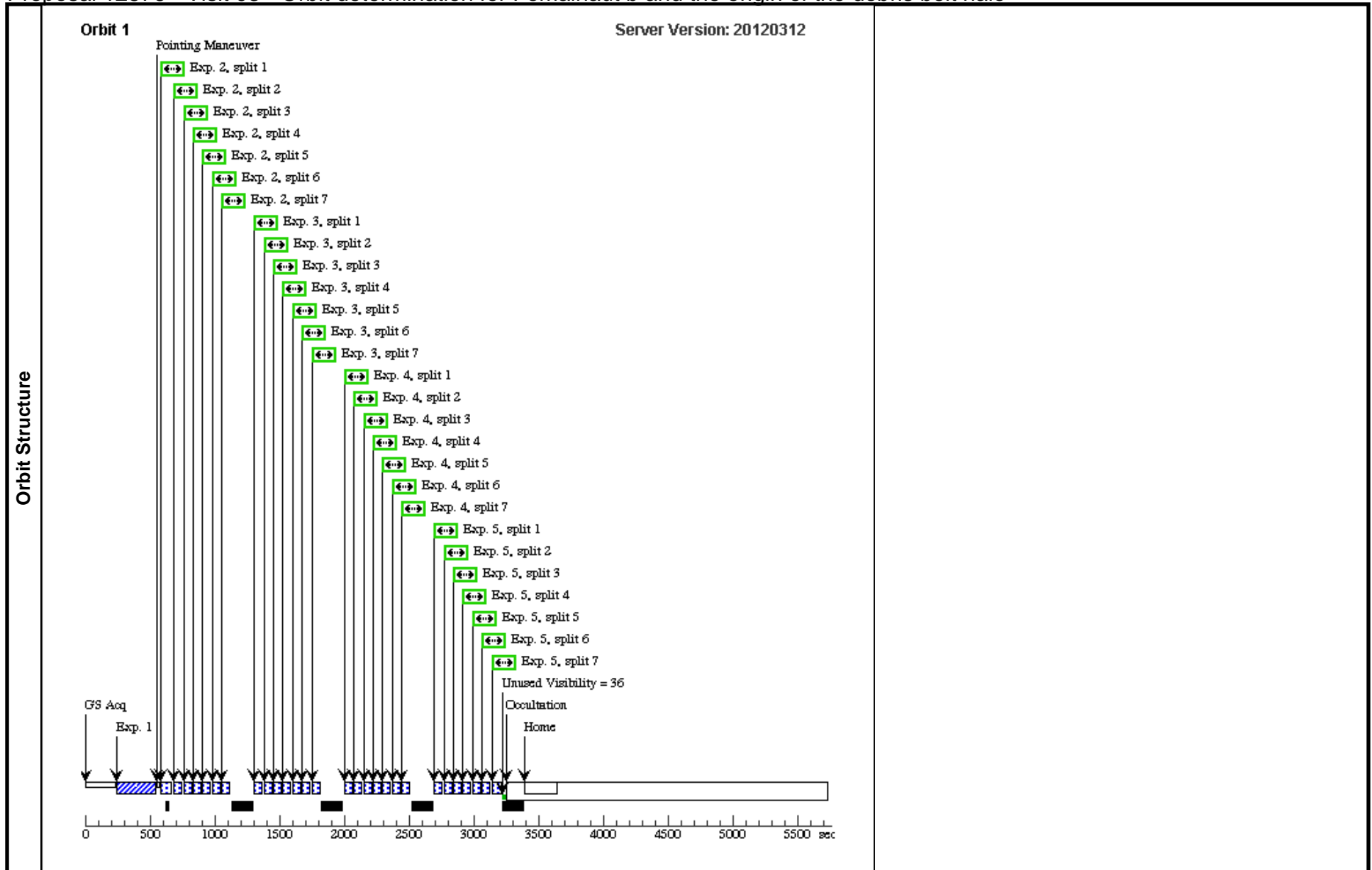
Visit	Proposal 12576, Visit 02, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: ORIENT 243.0D TO 243.0 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT-COPY	RA: 22 57 39.0465 (344.4126938d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000 Plate Id: 06EI	Proper Motion RA: 0.0255 sec of time/yr Proper Motion Dec: -0.165 arcsec/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Reference Frame: GSC1				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARI O SINGLE		2 Secs [==>]	[1]
	2		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	3		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	4		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	5		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]



Proposal 12576 - Visit 03 - Orbit determination for Fomalhaut b and the origin of the debris belt halo

Wed Mar 21 01:29:47 GMT 2012

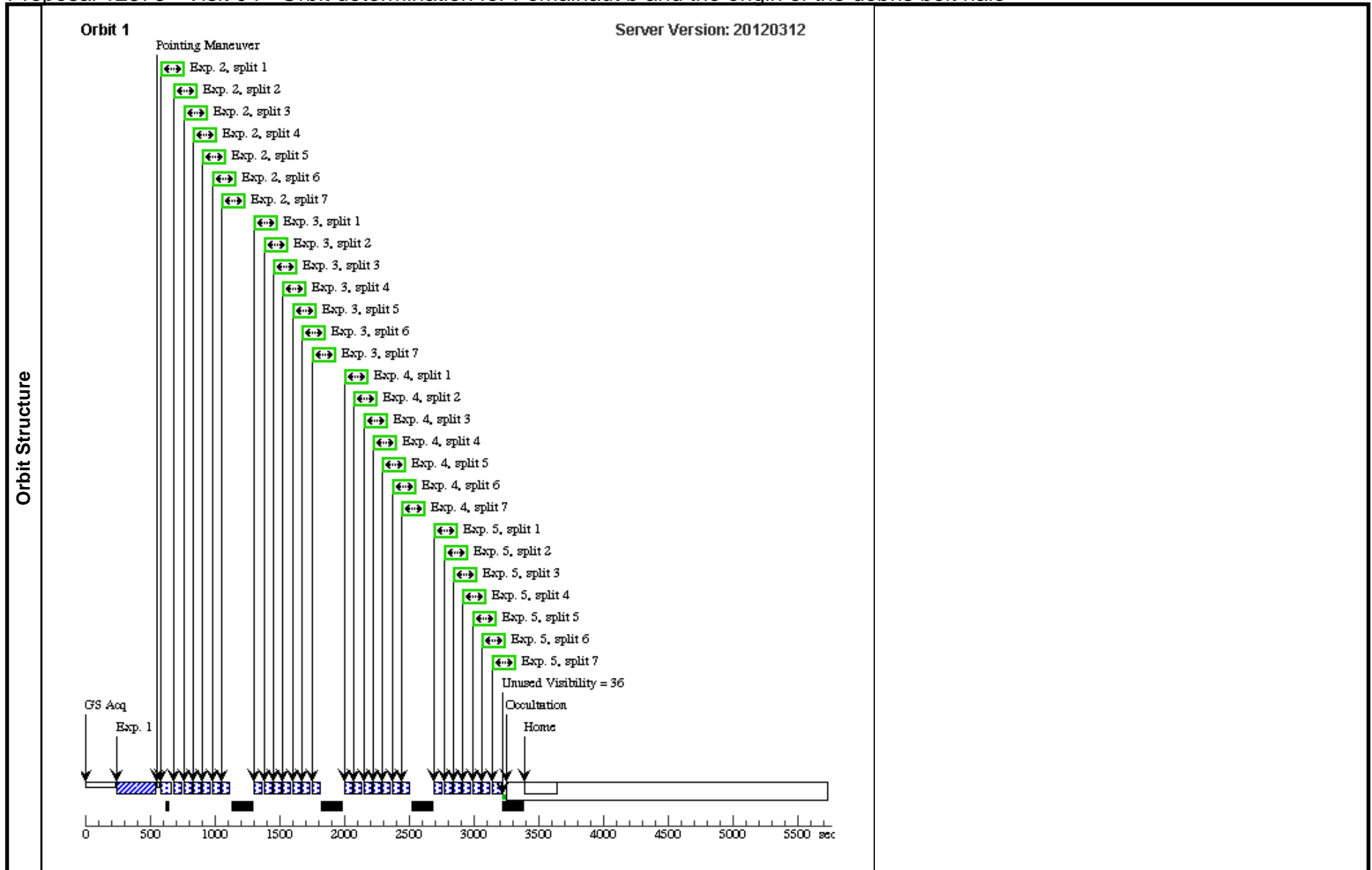
Visit	Proposal 12576, Visit 03, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: ORIENT 251.0D TO 251.0 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT-COPY	RA: 22 57 39.0465 (344.4126938d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000 Plate Id: 06EI	Proper Motion RA: 0.0255 sec of time/yr Proper Motion Dec: -0.165 arcsec/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Reference Frame: GSC1				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARI O SINGLE		2 Secs [==>]	[1]
	2		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	3		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	4		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	5		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]



Proposal 12576 - Visit 04 - Orbit determination for Fomalhaut b and the origin of the debris belt halo

Wed Mar 21 01:29:48 GMT 2012

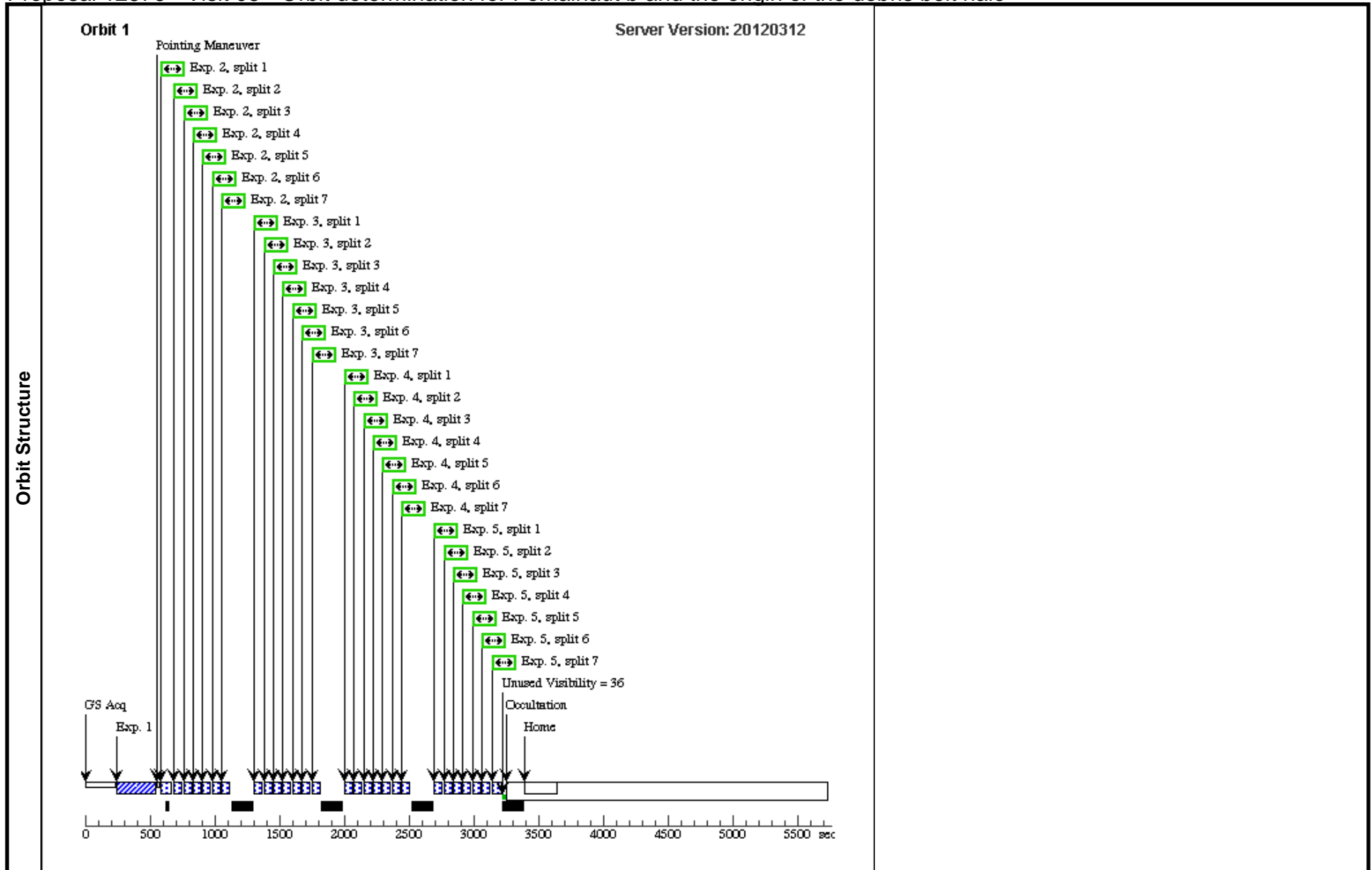
Visit	Proposal 12576, Visit 04, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: ORIENT 259.0D TO 259.0 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT-COPY	RA: 22 57 39.0465 (344.4126938d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000 Plate Id: 06EI	Proper Motion RA: 0.0255 sec of time/yr Proper Motion Dec: -0.165 arcsec/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Reference Frame: GSC1				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARI O SINGLE		2 Secs [==>]	[1]
	2		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	3		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	4		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	5		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]



Proposal 12576 - Visit 05 - Orbit determination for Fomalhaut b and the origin of the debris belt halo

Wed Mar 21 01:29:49 GMT 2012

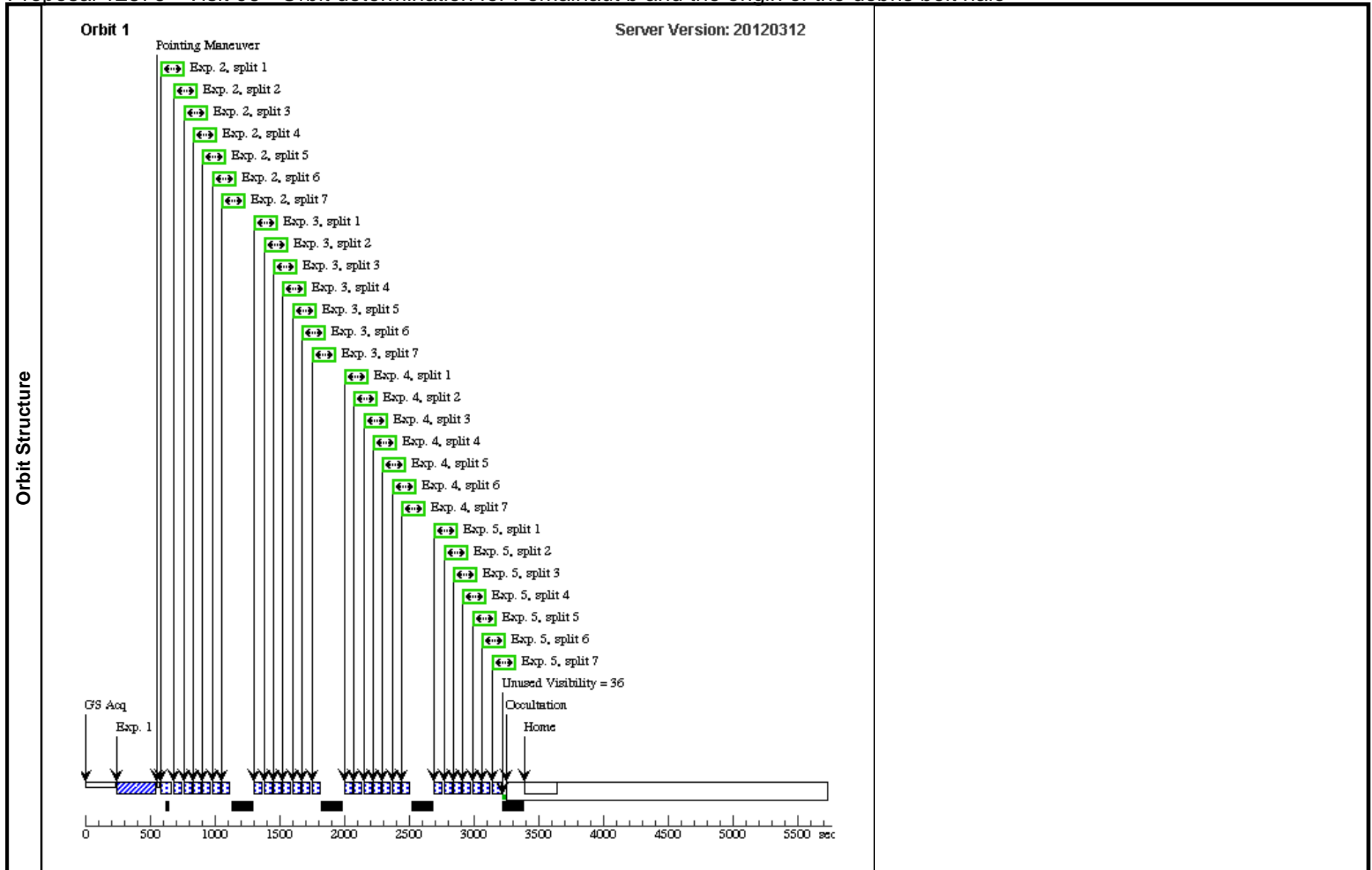
Visit	Proposal 12576, Visit 05, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: ORIENT 237.0D TO 237.0 D; AFTER 04 BY 1 H TO 36 H; GROUP 05,06,07,08 WITHIN 3.6 Orbits									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT-COPY	RA: 22 57 39.0465 (344.4126938d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000 Plate Id: 06EI	Proper Motion RA: 0.0255 sec of time/yr Proper Motion Dec: -0.165 arcsec/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Reference Frame: GSC1				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARI O SINGLE		2 Secs [==>]	[1]
	2		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	3		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	4		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	5		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]



Proposal 12576 - Visit 06 - Orbit determination for Fomalhaut b and the origin of the debris belt halo

Wed Mar 21 01:29:49 GMT 2012

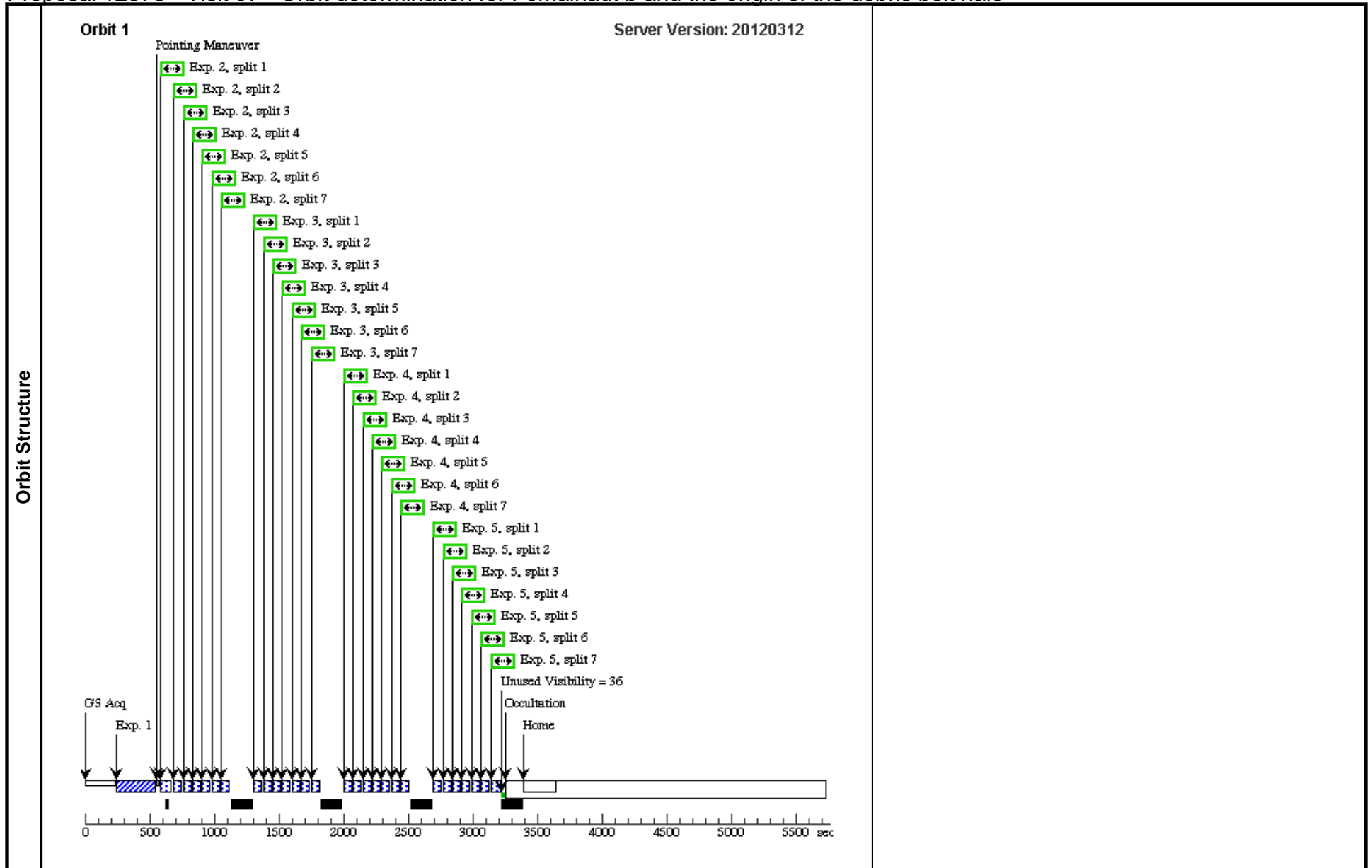
Visit	Proposal 12576, Visit 06, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: ORIENT 245.0D TO 245.0 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT-COPY	RA: 22 57 39.0465 (344.4126938d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000 Plate Id: 06EI	Proper Motion RA: 0.0255 sec of time/yr Proper Motion Dec: -0.165 arcsec/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Reference Frame: GSC1				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARI O SINGLE		2 Secs [==>]	[1]
	2		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	3		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	4		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	5		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]



Proposal 12576 - Visit 07 - Orbit determination for Fomalhaut b and the origin of the debris belt halo

Wed Mar 21 01:29:50 GMT 2012

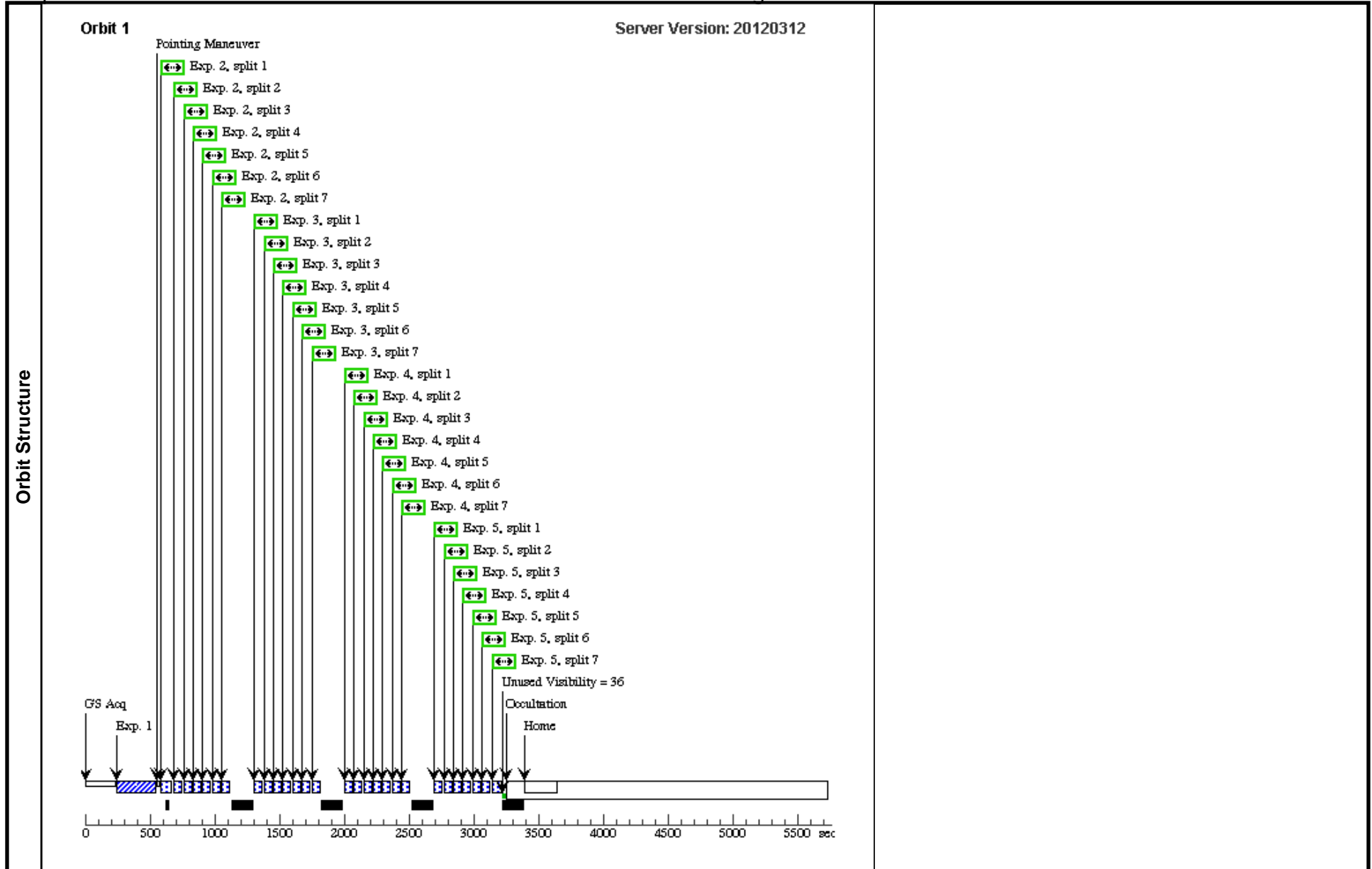
Visit	Proposal 12576, Visit 07, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: ORIENT 253.0D TO 253.0 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT-COPY	RA: 22 57 39.0465 (344.4126938d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000 Plate Id: 06EI	Proper Motion RA: 0.0255 sec of time/yr Proper Motion Dec: -0.165 arcsec/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Reference Frame: GSC1				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARI O SINGLE		2 Secs [==>]	[1]
	2		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	3		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	4		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	5		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]



Proposal 12576 - Visit 08 - Orbit determination for Fomalhaut b and the origin of the debris belt halo

Wed Mar 21 01:29:51 GMT 2012

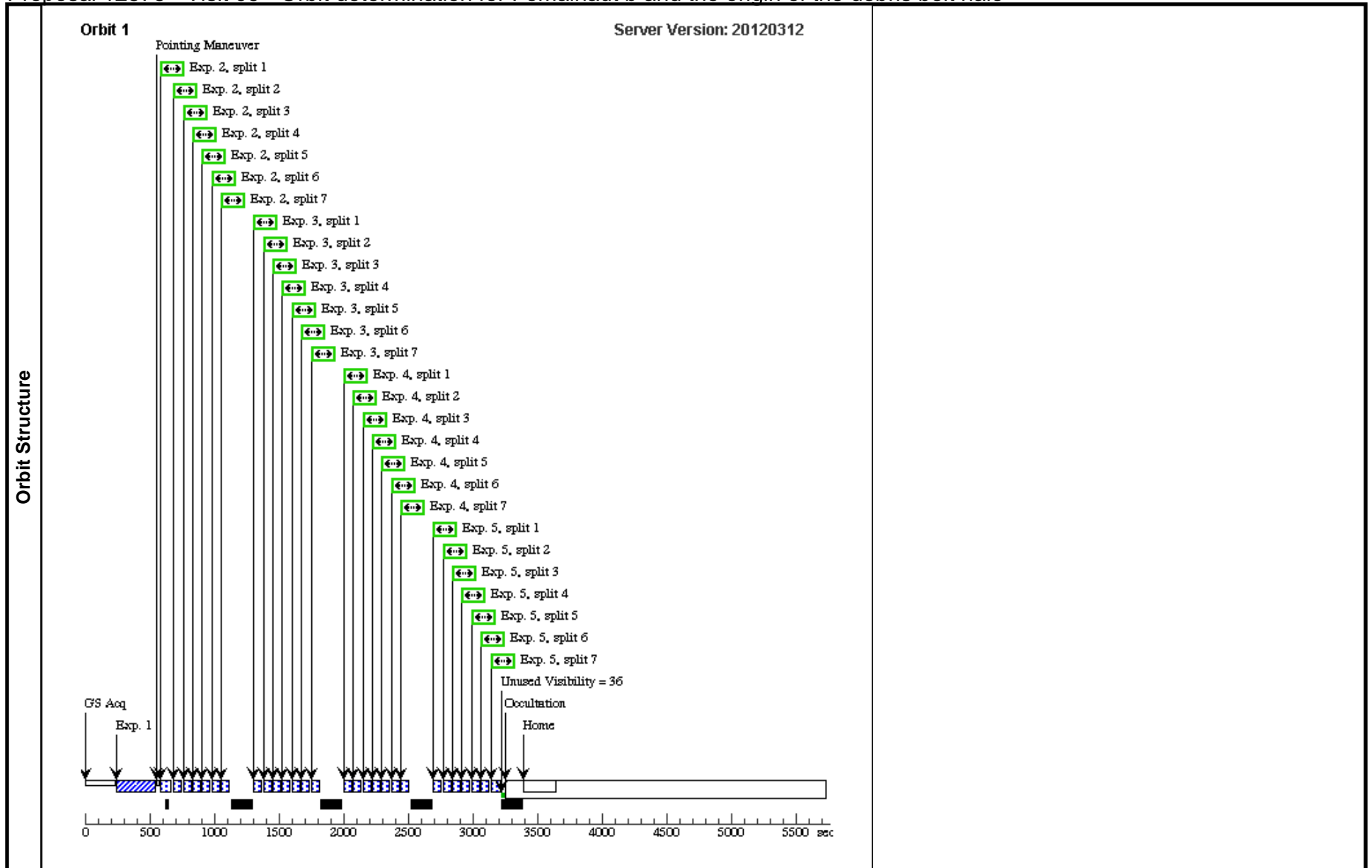
Visit	Proposal 12576, Visit 08, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: ORIENT 261.0D TO 261.0 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT-COPY	RA: 22 57 39.0465 (344.4126938d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000 Plate Id: 06EI	Proper Motion RA: 0.0255 sec of time/yr Proper Motion Dec: -0.165 arcsec/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Reference Frame: GSC1				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARI O SINGLE		2 Secs [==>]	[1]
	2		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	3		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	4		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	5		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]



Proposal 12576 - Visit 09 - Orbit determination for Fomalhaut b and the origin of the debris belt halo

Wed Mar 21 01:29:52 GMT 2012

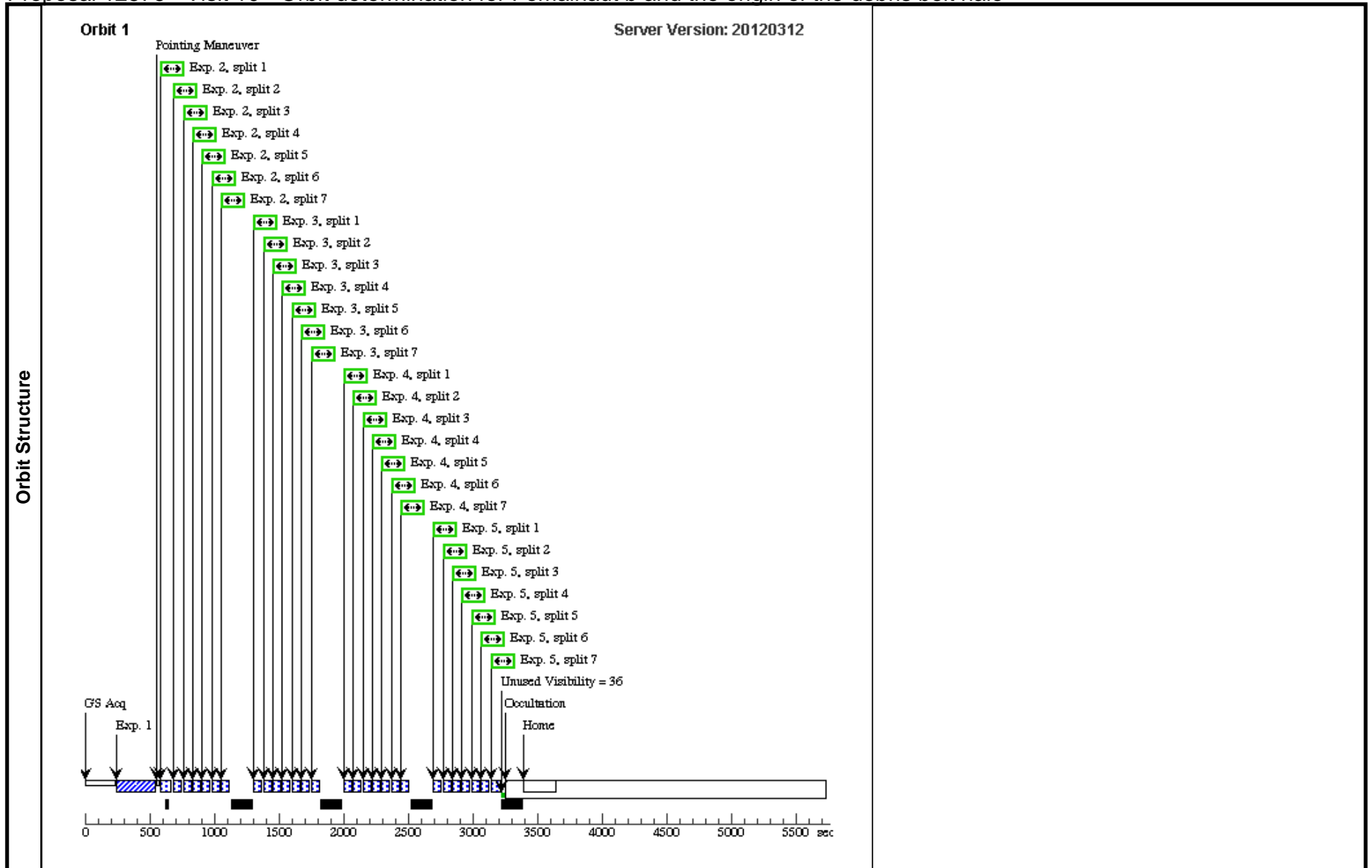
Visit	Proposal 12576, Visit 09, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: ORIENT 239.0D TO 239.0 D; AFTER 08 BY 1 H TO 36 H; GROUP 09,10,11,12 WITHIN 3.6 Orbits									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT-COPY	RA: 22 57 39.0465 (344.4126938d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000 Plate Id: 06EI	Proper Motion RA: 0.0255 sec of time/yr Proper Motion Dec: -0.165 arcsec/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Reference Frame: GSC1				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARI O SINGLE		2 Secs [==>]	[1]
	2		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	3		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	4		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	5		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]



Proposal 12576 - Visit 10 - Orbit determination for Fomalhaut b and the origin of the debris belt halo

Wed Mar 21 01:29:53 GMT 2012

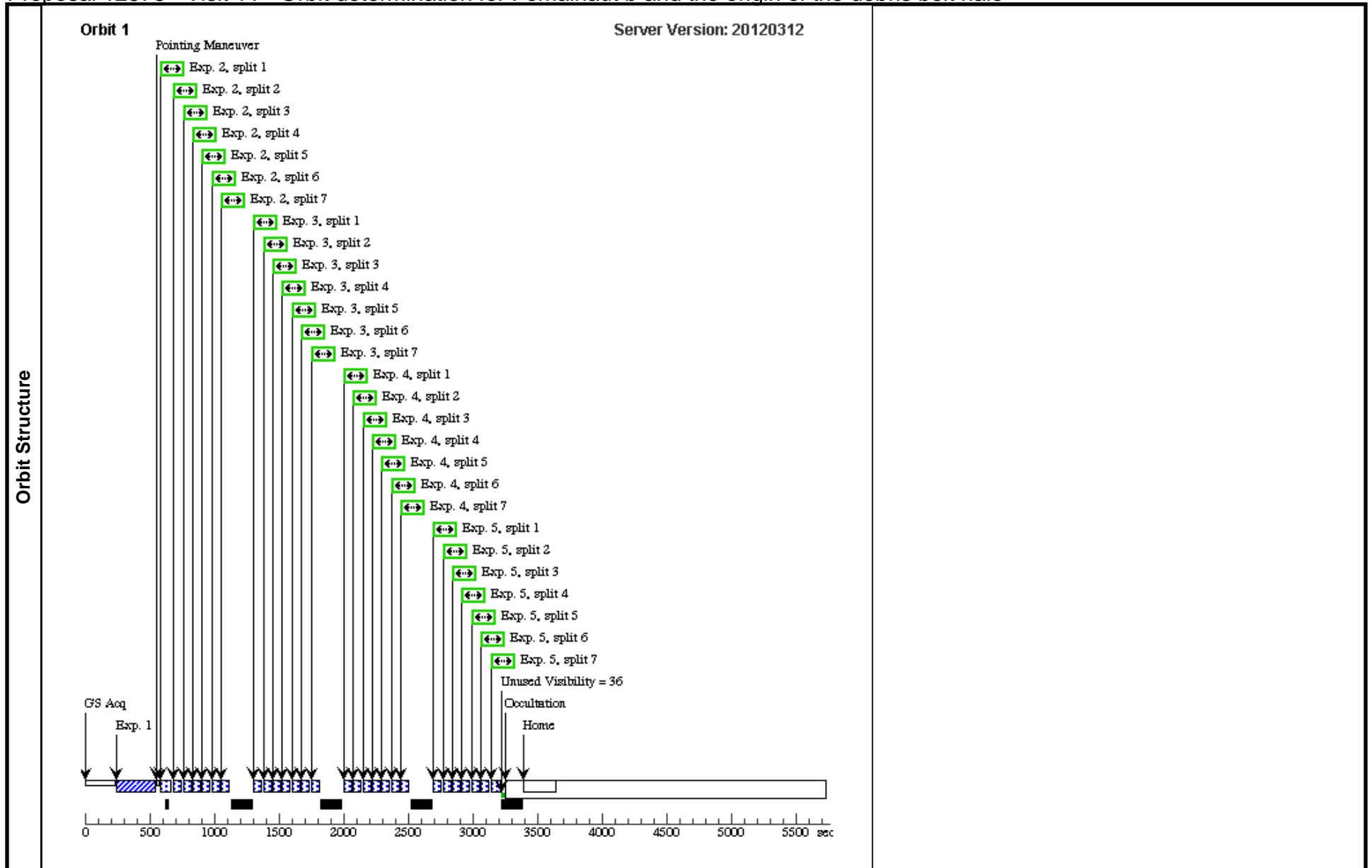
Visit	Proposal 12576, Visit 10, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: ORIENT 247.0D TO 247.0 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT-COPY	RA: 22 57 39.0465 (344.4126938d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000 Plate Id: 06EI	Proper Motion RA: 0.0255 sec of time/yr Proper Motion Dec: -0.165 arcsec/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Reference Frame: GSC1				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARI O SINGLE		2 Secs [==>]	[1]
	2		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	3		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	4		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	5		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]



Proposal 12576 - Visit 11 - Orbit determination for Fomalhaut b and the origin of the debris belt halo

Wed Mar 21 01:29:54 GMT 2012

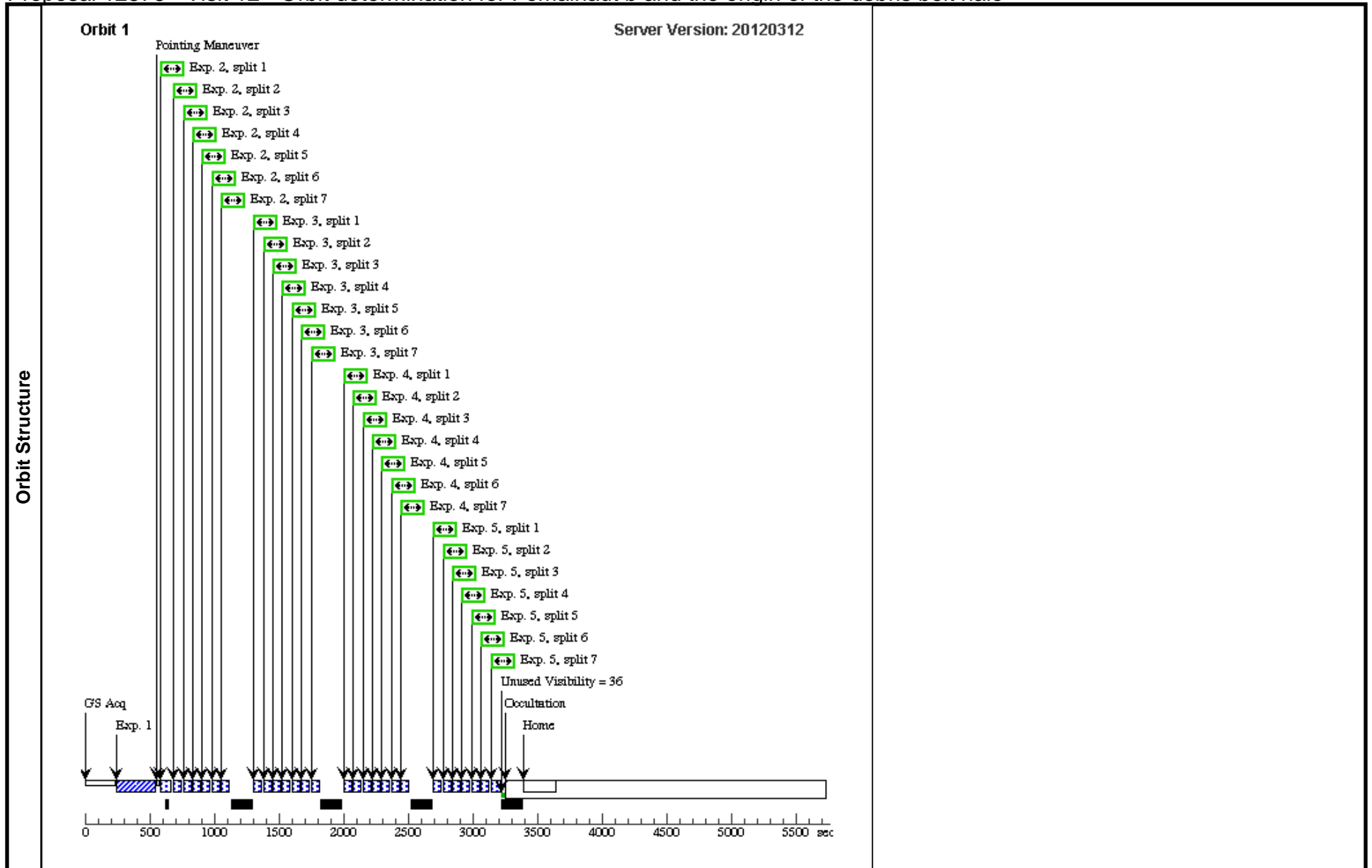
Visit	Proposal 12576, Visit 11, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: ORIENT 255.0D TO 255.0 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT-COPY	RA: 22 57 39.0465 (344.4126938d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000 Plate Id: 06EI	Proper Motion RA: 0.0255 sec of time/yr Proper Motion Dec: -0.165 arcsec/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Reference Frame: GSC1				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARI O SINGLE		2 Secs [==>]	[1]
	2		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	3		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	4		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	5		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]



Proposal 12576 - Visit 12 - Orbit determination for Fomalhaut b and the origin of the debris belt halo

Wed Mar 21 01:29:54 GMT 2012

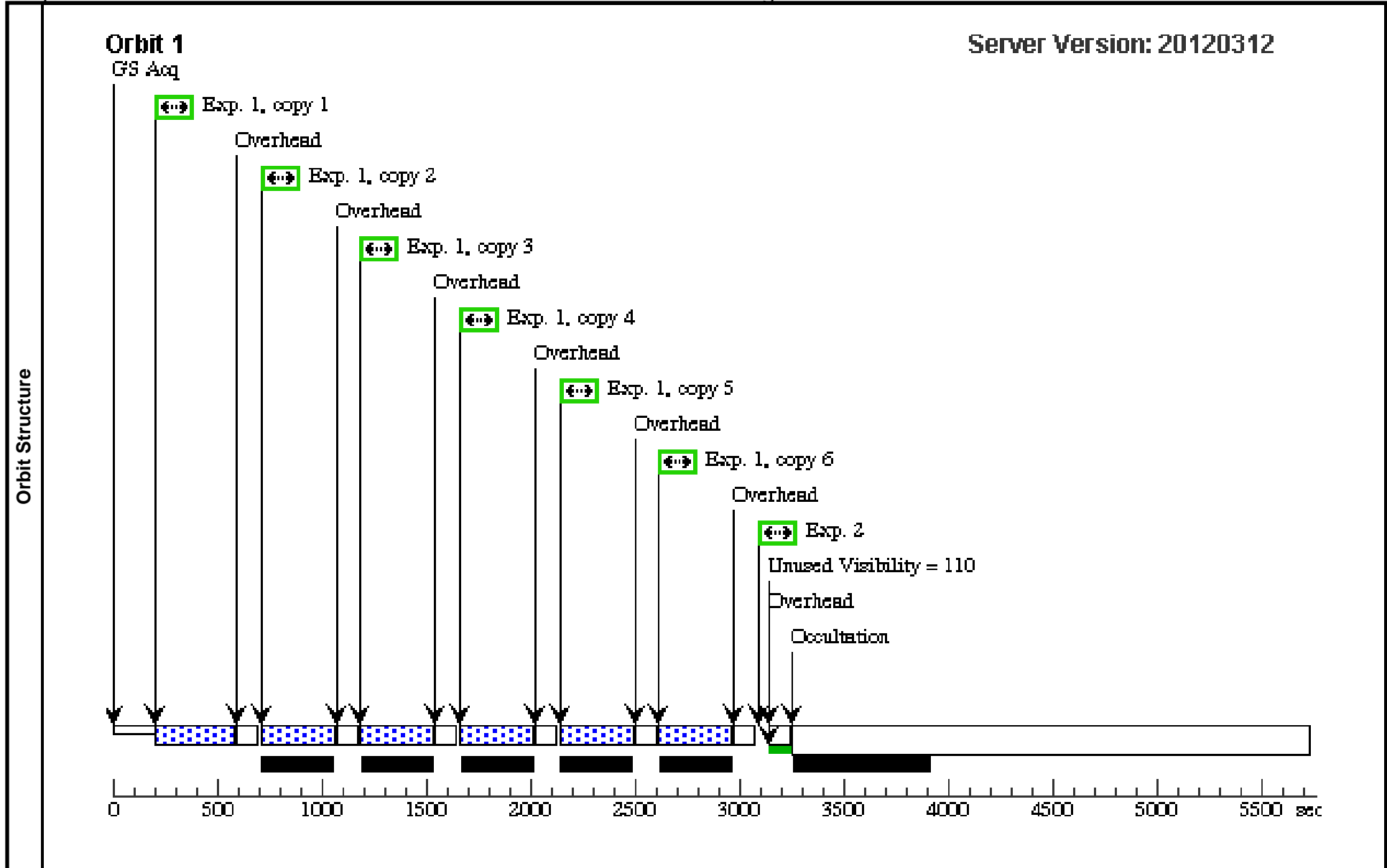
Visit	Proposal 12576, Visit 12, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: ORIENT 263.0D TO 263.0 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT-COPY	RA: 22 57 39.0465 (344.4126938d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000 Plate Id: 06EI	Proper Motion RA: 0.0255 sec of time/yr Proper Motion Dec: -0.165 arcsec/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Reference Frame: GSC1				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARI O SINGLE		2 Secs [==>]	[1]
	2		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	3		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	4		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]
	5		(1) NAME-FOMALHAUT-COPY	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=7; GAIN=4			210 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]



Proposal 12576 - Visit 51 - Orbit determination for Fomalhaut b and the origin of the debris belt halo

Wed Mar 21 01:29:55 GMT 2012

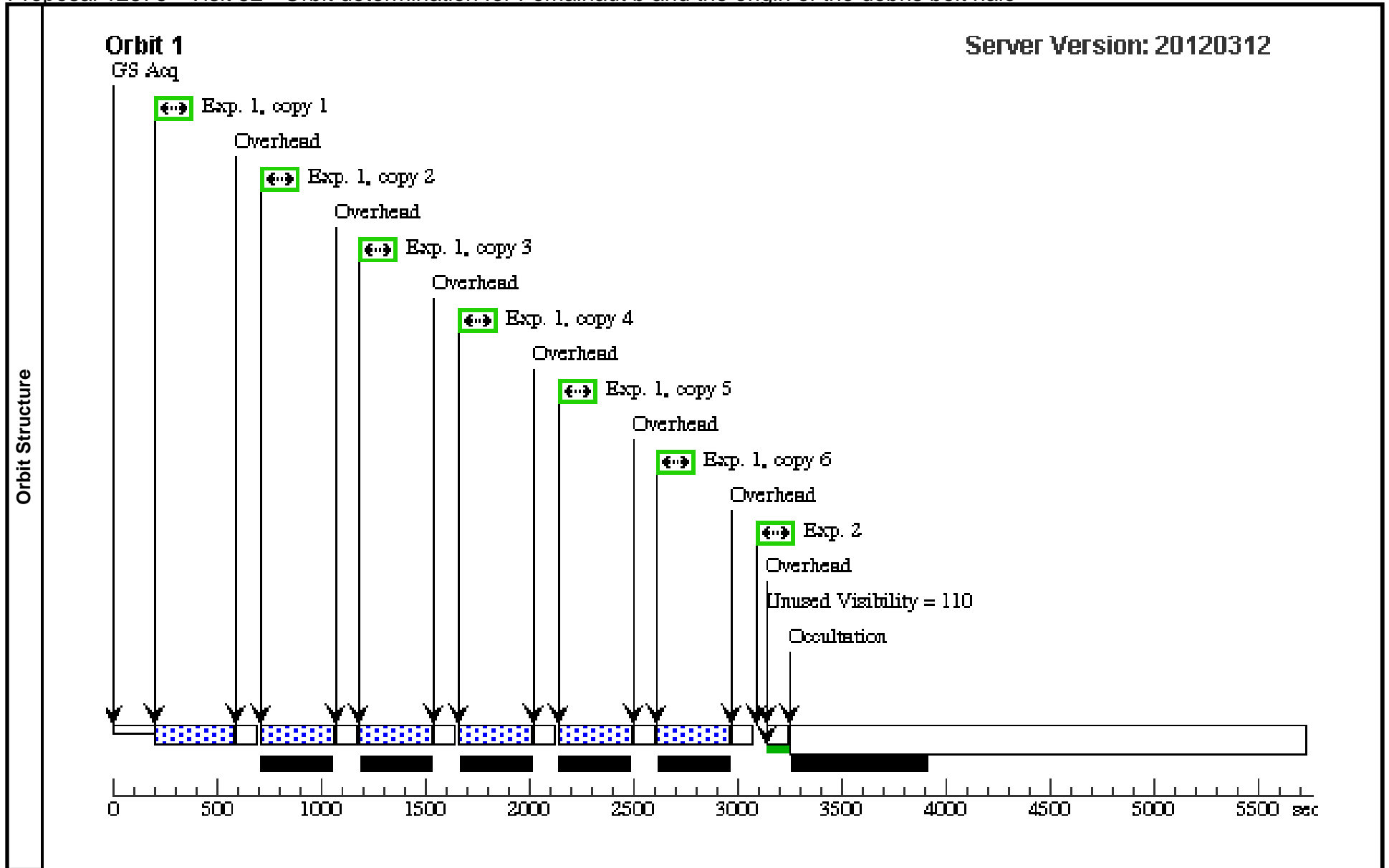
Visit	Proposal 12576, Visit 51, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 328.0D TO 328.1 D; GROUP 51,52,53,54,55 WITHIN 4.5 Orbits									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT-COPY	RA: 22 57 39.0465 (344.4126938d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000 Plate Id: 06EI	Proper Motion RA: 0.0255 sec of time/yr Proper Motion Dec: -0.165 arcsec/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Reference Frame: GSC1				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NAME-FOMALHAUT-COPY	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W		POS TARG null,0.83 ; GS ACQ SCENARI O SINGLE		348 Secs X 6 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)]	[1]
	2		(1) NAME-FOMALHAUT-COPY	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W		SAME POS AS 1		40 Secs [==>]	[1]



Proposal 12576 - Visit 52 - Orbit determination for Fomalhaut b and the origin of the debris belt halo

Wed Mar 21 01:29:56 GMT 2012

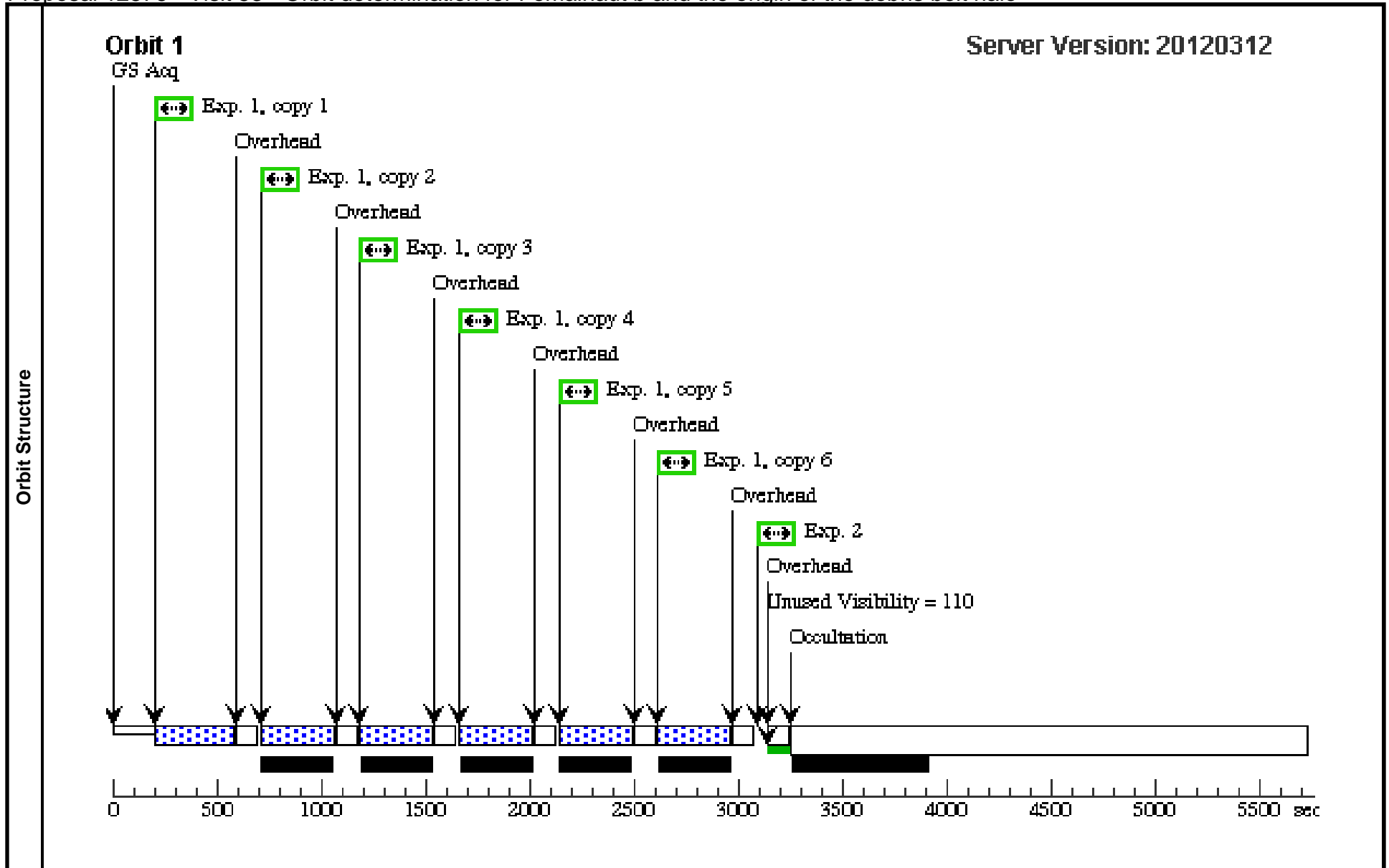
Visit	Proposal 12576, Visit 52, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 6.0D TO 6.1D FROM 51									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(1)	NAME-FOMALHAUT-COPY	RA: 22 57 39.0465 (344.4126938d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000 Plate Id: 06EI	Proper Motion RA: 0.0255 sec of time/yr Proper Motion Dec: -0.165 arcsec/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Reference Frame: GSC1			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NAME-FOMALHAUT-COPY	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W		POS TARG null,0.83 ; GS ACQ SCENARI O SINGLE		348 Secs X 6 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)]	[1]
	2		(1) NAME-FOMALHAUT-COPY	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W		SAME POS AS 1		40 Secs [==>]	[1]



Proposal 12576 - Visit 53 - Orbit determination for Fomalhaut b and the origin of the debris belt halo

Wed Mar 21 01:29:56 GMT 2012

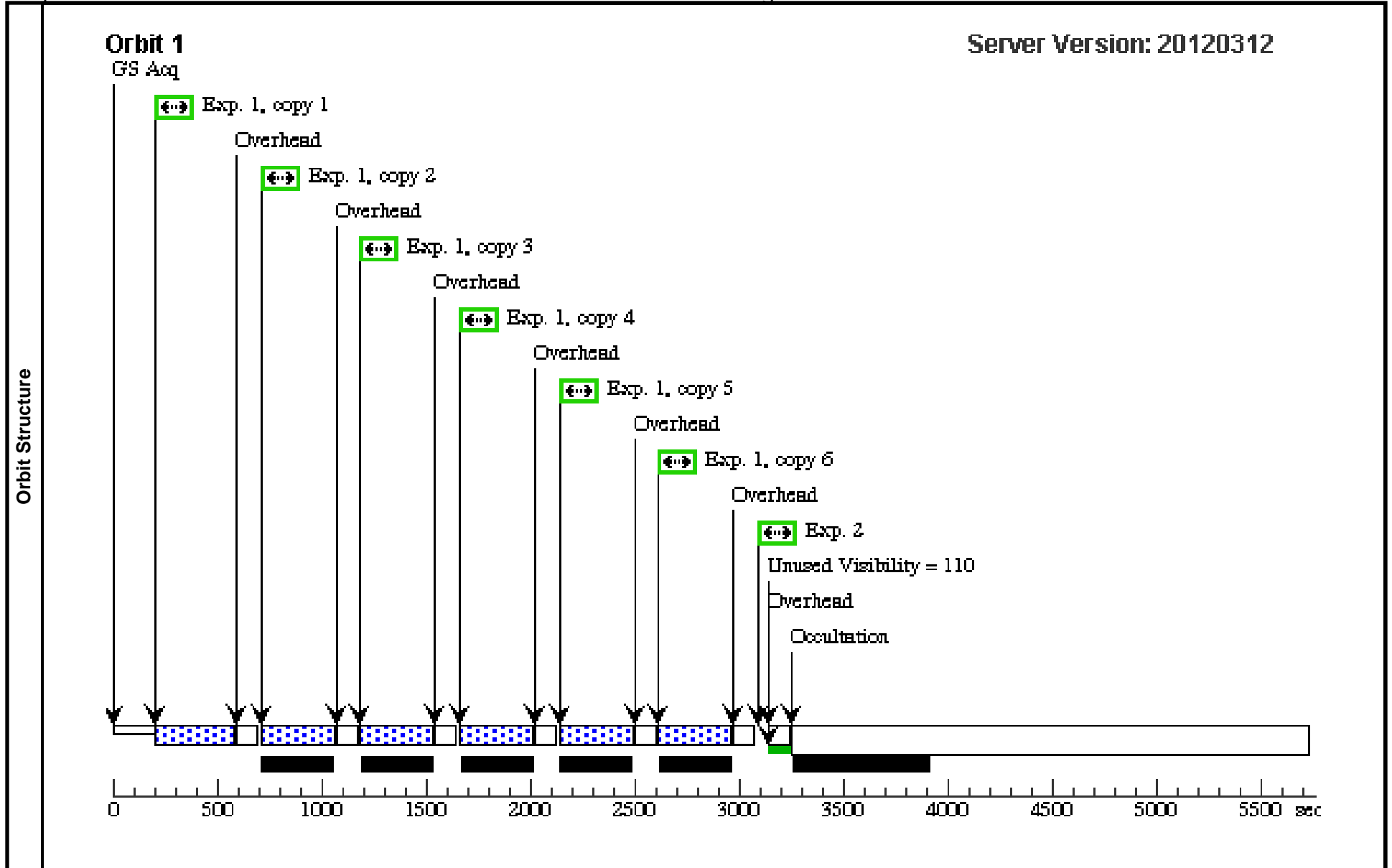
Visit	Proposal 12576, Visit 53, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 12.0D TO 12.1D FROM 51									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT-COPY	RA: 22 57 39.0465 (344.4126938d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000 Plate Id: 06EI	Proper Motion RA: 0.0255 sec of time/yr Proper Motion Dec: -0.165 arcsec/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Reference Frame: GSC1				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NAME-FOMALHAUT-COPY	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W		POS TARG null,0.83 ; GS ACQ SCENARI O SINGLE		348 Secs X 6 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)]	[1]
	2		(1) NAME-FOMALHAUT-COPY	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W		SAME POS AS 1		40 Secs [==>]	[1]



Proposal 12576 - Visit 54 - Orbit determination for Fomalhaut b and the origin of the debris belt halo

Wed Mar 21 01:29:57 GMT 2012

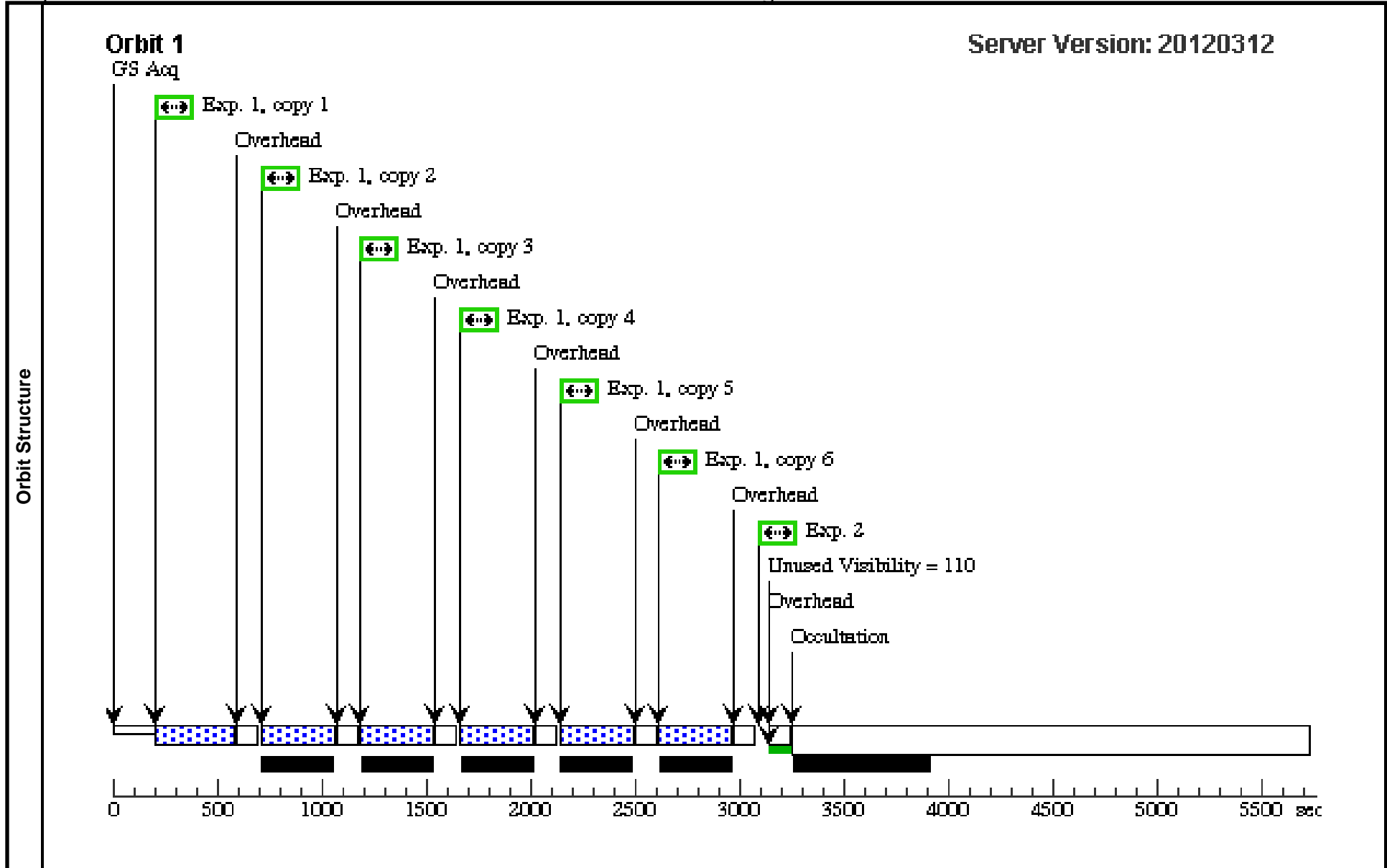
Visit	Proposal 12576, Visit 54, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 18.0D TO 18.1D FROM 51									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT-COPY	RA: 22 57 39.0465 (344.4126938d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000 Plate Id: 06EI	Proper Motion RA: 0.0255 sec of time/yr Proper Motion Dec: -0.165 arcsec/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Reference Frame: GSC1				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NAME-FOMALHAUT-COPY	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W		POS TARG null,0.83 ; GS ACQ SCENARI O SINGLE		348 Secs X 6 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)]	[1]
	2		(1) NAME-FOMALHAUT-COPY	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W		SAME POS AS 1		40 Secs [==>]	[1]



Proposal 12576 - Visit 55 - Orbit determination for Fomalhaut b and the origin of the debris belt halo

Wed Mar 21 01:29:57 GMT 2012

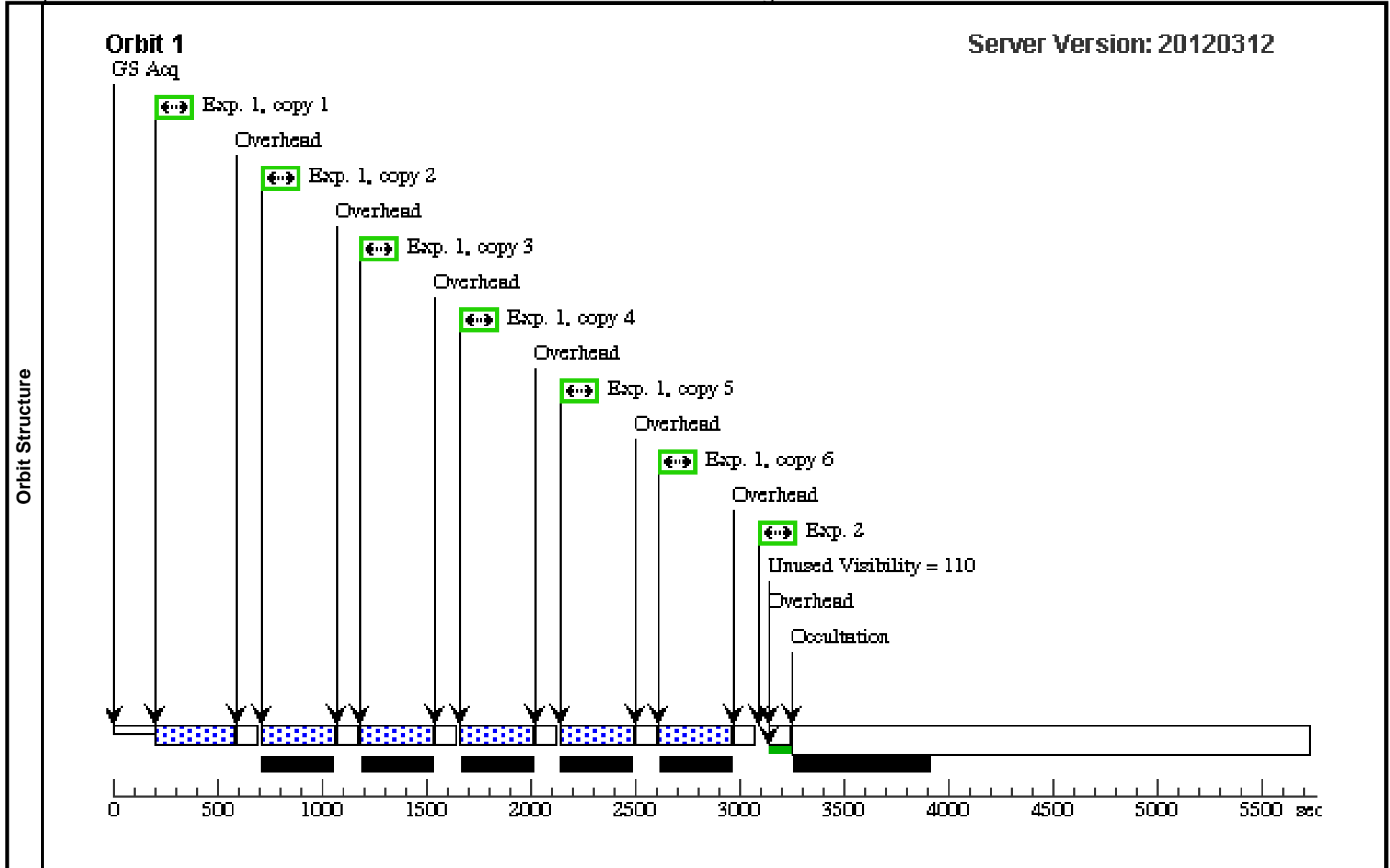
Visit		Proposal 12576, Visit 55, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 24.0D TO 24.1D FROM 51									
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NAME-FOMALHAUT-COPY	RA: 22 57 39.0465 (344.4126938d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000 Plate Id: 06EI	Proper Motion RA: 0.0255 sec of time/yr Proper Motion Dec: -0.165 arcsec/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Reference Frame: GSC1					
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>											
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) NAME-FOMALHAUT-COPY	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W		POS TARG null,0.83 ; GS ACQ SCENARI O SINGLE				348 Secs X 6 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)]	[1]
	2	(1) NAME-FOMALHAUT-COPY	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W		SAME POS AS 1				40 Secs [==>]	[1]



Proposal 12576 - Visit 56 - Orbit determination for Fomalhaut b and the origin of the debris belt halo

Wed Mar 21 01:29:58 GMT 2012

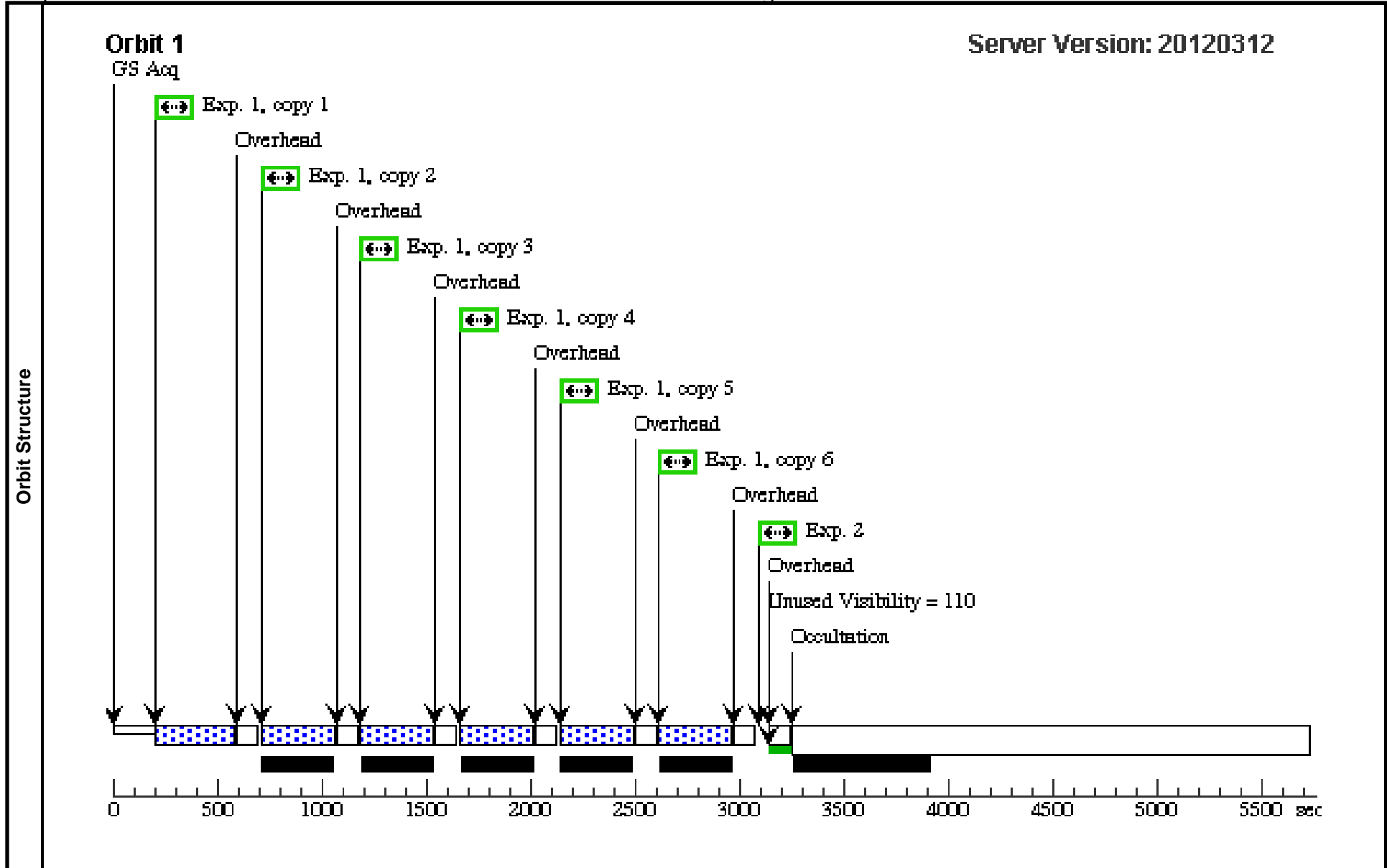
Visit	Proposal 12576, Visit 56, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 328.0D TO 328.1 D; GROUP 56,57,58,59,60 WITHIN 4.5 Orbits									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT-COPY	RA: 22 57 39.0465 (344.4126938d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000 Plate Id: 06EI	Proper Motion RA: 0.0255 sec of time/yr Proper Motion Dec: -0.165 arcsec/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Reference Frame: GSC1				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NAME-FOMALHAUT-COPY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG null,0.83 ; GS ACQ SCENARI O SINGLE		348 Secs X 6 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)]	[1]
	2		(1) NAME-FOMALHAUT-COPY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		SAME POS AS 1		40 Secs [==>]	[1]



Proposal 12576 - Visit 57 - Orbit determination for Fomalhaut b and the origin of the debris belt halo

Wed Mar 21 01:29:59 GMT 2012

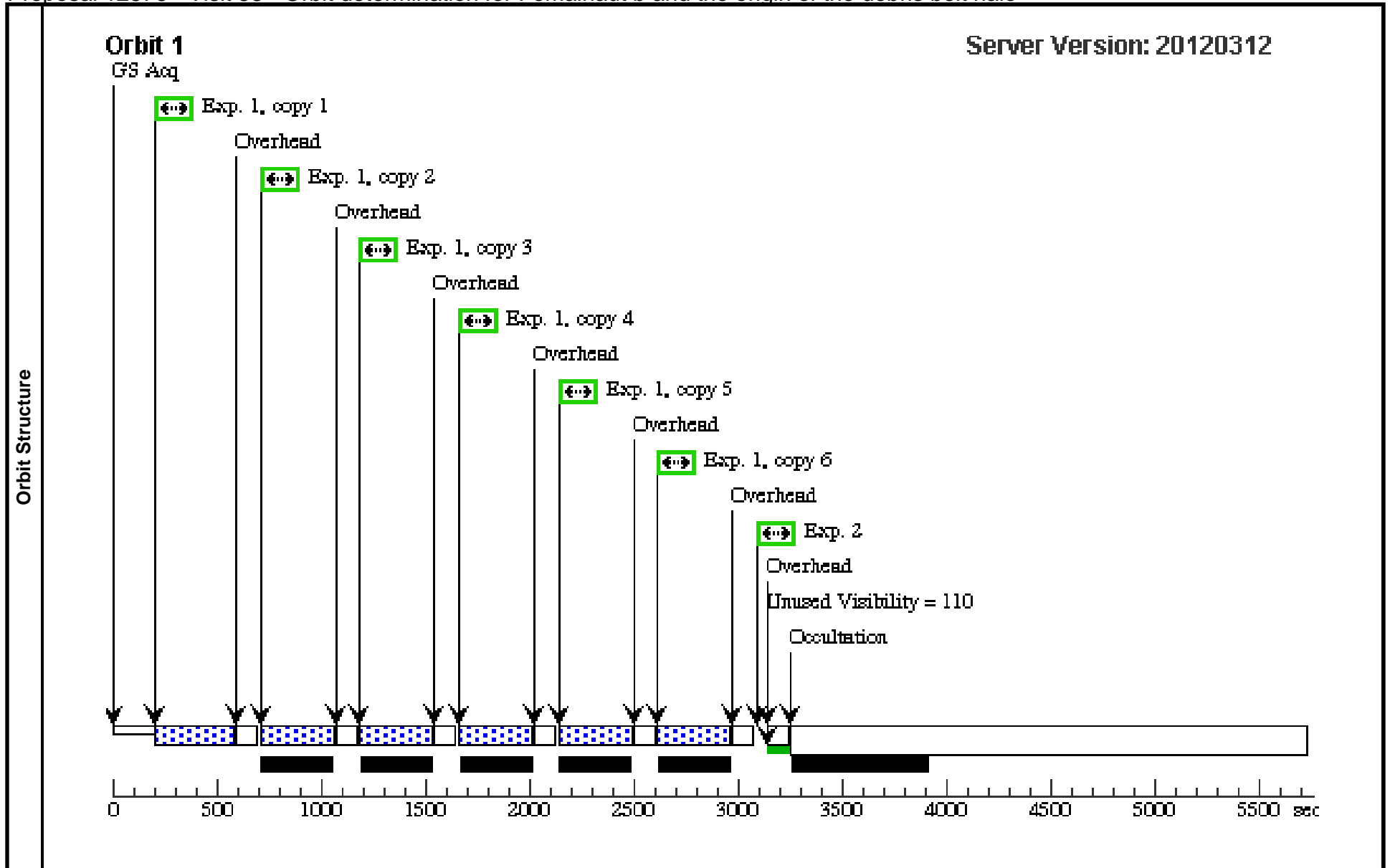
Visit	Proposal 12576, Visit 57, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 6.0D TO 6.1D FROM 56									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT-COPY	RA: 22 57 39.0465 (344.4126938d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000 Plate Id: 06EI	Proper Motion RA: 0.0255 sec of time/yr Proper Motion Dec: -0.165 arcsec/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Reference Frame: GSC1				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NAME-FOMALHAUT-COPY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG null,0.83 ; GS ACQ SCENARI O SINGLE		348 Secs X 6 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)]	[1]
	2		(1) NAME-FOMALHAUT-COPY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		SAME POS AS 1		40 Secs [==>]	[1]



Proposal 12576 - Visit 58 - Orbit determination for Fomalhaut b and the origin of the debris belt halo

Wed Mar 21 01:29:59 GMT 2012

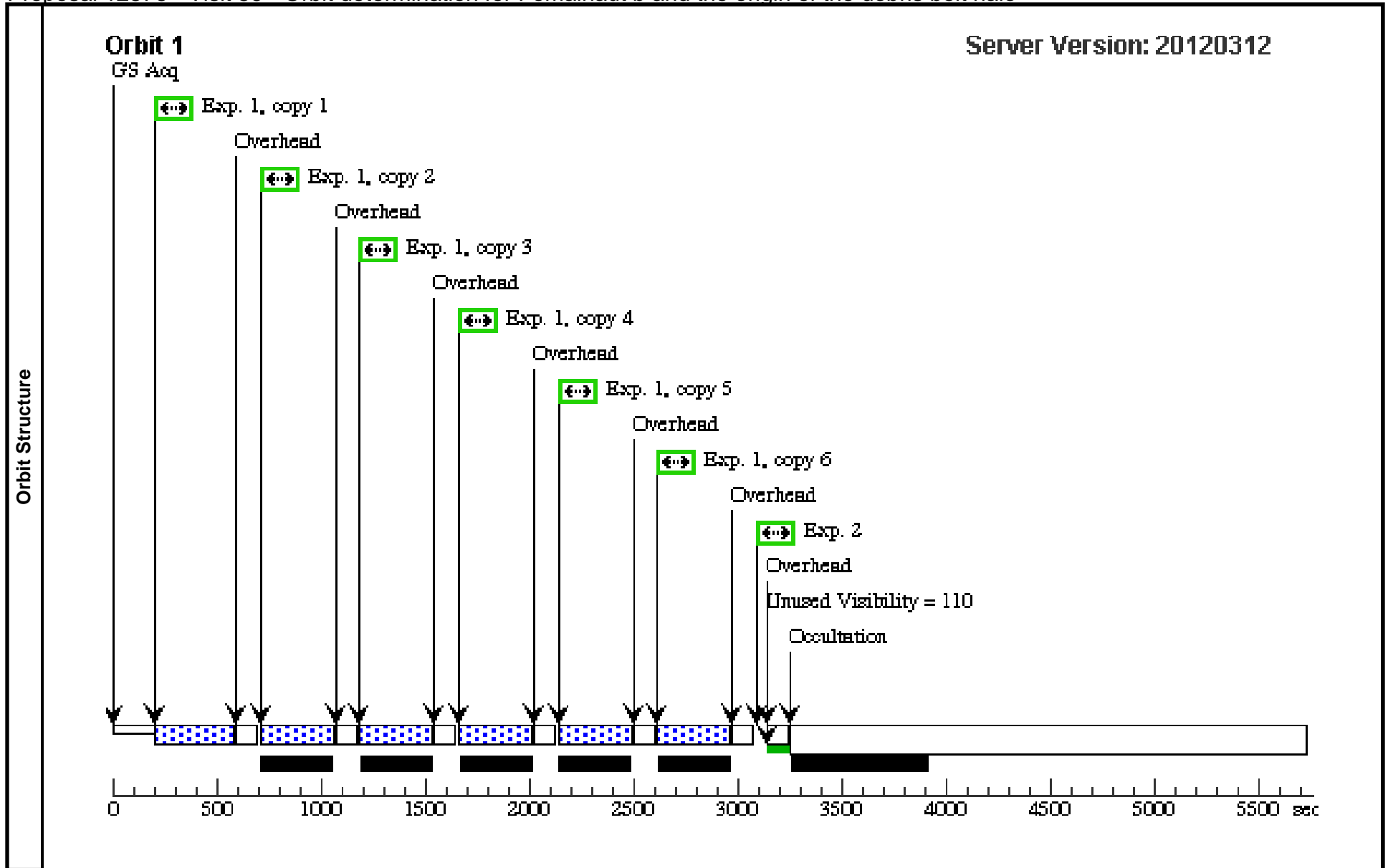
Visit	Proposal 12576, Visit 58, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 12.0D TO 12.1D FROM 56									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT-COPY	RA: 22 57 39.0465 (344.4126938d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000 Plate Id: 06EI	Proper Motion RA: 0.0255 sec of time/yr Proper Motion Dec: -0.165 arcsec/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Reference Frame: GSC1				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NAME-FOMALHAUT-COPY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG null,0.83 ; GS ACQ SCENARI O SINGLE		348 Secs X 6 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)]	[1]
	2		(1) NAME-FOMALHAUT-COPY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		SAME POS AS 1		40 Secs [==>]	[1]



Proposal 12576 - Visit 59 - Orbit determination for Fomalhaut b and the origin of the debris belt halo

Wed Mar 21 01:30:00 GMT 2012

Visit	Proposal 12576, Visit 59, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 18.0D TO 18.1D FROM 56									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NAME-FOMALHAUT-COPY	RA: 22 57 39.0465 (344.4126938d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000 Plate Id: 06EI	Proper Motion RA: 0.0255 sec of time/yr Proper Motion Dec: -0.165 arcsec/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Reference Frame: GSC1				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NAME-FOMALHAUT-COPY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG null,0.83 ; GS ACQ SCENARI O SINGLE		348 Secs X 6 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)]	[1]
	2		(1) NAME-FOMALHAUT-COPY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		SAME POS AS 1		40 Secs [==>]	[1]



Proposal 12576 - Visit 60 - Orbit determination for Fomalhaut b and the origin of the debris belt halo

Wed Mar 21 01:30:00 GMT 2012

Visit	Proposal 12576, Visit 60, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 24.0D TO 24.1D FROM 56									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT-COPY	RA: 22 57 39.0465 (344.4126938d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000 Plate Id: 06EI	Proper Motion RA: 0.0255 sec of time/yr Proper Motion Dec: -0.165 arcsec/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Reference Frame: GSC1				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NAME-FOMALHAUT-COPY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG null,0.83 ; GS ACQ SCENARI O SINGLE		348 Secs X 6 [==>(Copy 1)] [==>(Copy 2)] [==>(Copy 3)] [==>(Copy 4)] [==>(Copy 5)] [==>(Copy 6)]	[1]
	2		(1) NAME-FOMALHAUT-COPY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		SAME POS AS 1		40 Secs [==>]	[1]

