



10598 - ACS Imaging of Fomalhaut: A Rosetta Stone for Debris Disks Sculpted by Planets

Cycle: 14, Proposal Category: GO
(Availability Mode: SUPPORTED)

INVESTIGATORS

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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	(6) HD216956	ACS/HRC	1	16-May-2006 21:02:48.0	yes
02	(6) HD216956	ACS/HRC	1	16-May-2006 21:02:54.0	yes
03	(6) HD216956	ACS/HRC	1	16-May-2006 21:02:58.0	yes
04	(5) HD172167-PSF	ACS/HRC	1	16-May-2006 21:03:03.0	yes
05	(6) HD216956	ACS/HRC	1	16-May-2006 21:03:07.0	yes
06	(6) HD216956	ACS/HRC	1	16-May-2006 21:03:09.0	yes
07	(6) HD216956	ACS/HRC	1	16-May-2006 21:03:11.0	yes

Proposal 10598 - 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>
08	(5) HD172167-PSF	ACS/HRC	1	16-May-2006 21:03:14.0	yes
09	(6) HD216956	ACS/HRC	1	16-May-2006 21:03:18.0	yes
10	(6) HD216956	ACS/HRC	1	16-May-2006 21:03:22.0	yes
11	(6) HD216956	ACS/HRC	1	16-May-2006 21:03:26.0	yes
12	(5) HD172167-PSF	ACS/HRC	1	16-May-2006 21:03:32.0	yes
13	(6) HD216956	ACS/HRC	1	16-May-2006 21:03:37.0	yes
14	(5) HD172167-PSF	ACS/HRC	1	16-May-2006 21:03:43.0	yes
15	(6) HD216956	ACS/HRC	1	16-May-2006 21:03:50.0	yes
16	(6) HD216956	ACS/HRC	1	16-May-2006 21:03:54.0	yes
17	(6) HD216956	ACS/HRC	1	16-May-2006 21:03:58.0	yes
18	(5) HD172167-PSF	ACS/HRC	1	16-May-2006 21:04:03.0	yes
19	(6) HD216956	ACS/HRC	1	16-May-2006 21:04:06.0	yes
20	(6) HD216956	ACS/HRC	1	16-May-2006 21:04:09.0	yes
21	(6) HD216956	ACS/HRC	1	16-May-2006 21:04:11.0	yes
22	(5) HD172167-PSF	ACS/HRC	1	16-May-2006 21:04:14.0	yes
23	(6) HD216956	ACS/HRC	1	16-May-2006 21:04:18.0	yes
24	(6) HD216956	ACS/HRC	1	16-May-2006 21:04:22.0	yes
25	(6) HD216956	ACS/HRC	1	16-May-2006 21:04:26.0	yes
26	(5) HD172167-PSF	ACS/HRC	1	16-May-2006 21:04:32.0	yes
27	(6) HD216956	ACS/HRC	1	16-May-2006 21:04:37.0	yes
28	(5) HD172167-PSF	ACS/HRC	1	16-May-2006 21:04:43.0	yes

28 Total Orbits Used

ABSTRACT

The Sun and roughly 15% of stars are surrounded by dust disks collisionally replenished by asteroids and comets. Disk structure can be directly tied to the dynamical influence of more massive bodies such as planets. For example, planetary perturbations offset the center of our zodiacal dust disk ~ 0.01 AU away from the Sun and also maintain a ~ 40 AU radius inner edge to our Kuiper Belt. Here we propose follow-up observation to the first optical detection of reflected light from dust grains surrounding the nearby star Fomalhaut using HST/ACS. We find a belt of material between 133 and 158 AU radius that has a center position offset ~ 15 AU from the stellar position, and with a sharp inner edge. A tenuous dust component interior to the belt is also detected in the southeast. Given Fomalhaut's proximity to the Sun (7.7 pc), these images represent the closest and highest angular resolution view of an extrasolar analog to our Kuiper Belt. The center of symmetry offset and the sharp inner edge of Fomalhaut's belt are evidence for planet-mass objects orbiting the star as predicted by dynamical theory and simulations. We propose comprehensive follow-up ACS imaging to fully exploit this discovery and map the disk around its entire circumference with higher signal-to-noise and at multiple wavelengths. HST/ACS is certainly the only facility capable of performing this relatively wide field optical study at high contrast ratios and diffraction-limited resolution. The Cycle 14 data will provide key measurements of belt width as a function of azimuth, the scattered light color of the belt versus the inner dust component, and the azimuthal structure of the belt. These data will be used to constrain dynamical models of resonances and shepherding that ultimately elucidate the dynamical properties of planet-mass objects in the system.

OBSERVING DESCRIPTION

This program should be scheduled July-August 2005 due to the absolute orient constraints dictated by our science program. If 3-gyro mode is available, this will significantly improve the scheduling flexibility during this optimum period.

The APT output shows that the program can be scheduled, but there were times when the Run All Tools produced different results. Please let us know if there are problems.

Parts of this program is the typical ACS coronagraphy with the 1.8 arcsecond spot (Visits 01-14).

Proposal 10598 - Overview

A new implementation that has not been tried before is to acquire the stars behind the 3.0 arcsecond spot and the 1.8 arcsecond spot during the same epoch of observation. Therefore the positions of both spots should be monitored.

Visits 15-28 are observations behind the 3.0 arcsecond spot.

Each visit is one orbit, and we want grouped orbits between Fomalhaut and Vega because they will be used to subtract each other's PSF, and the PSF must remain stable. Therefore we request GROUP WITHIN constraints, and also that calibration programs during occultation are suppressed such that the instrument configuration remains as stable as possible between the grouped visits.

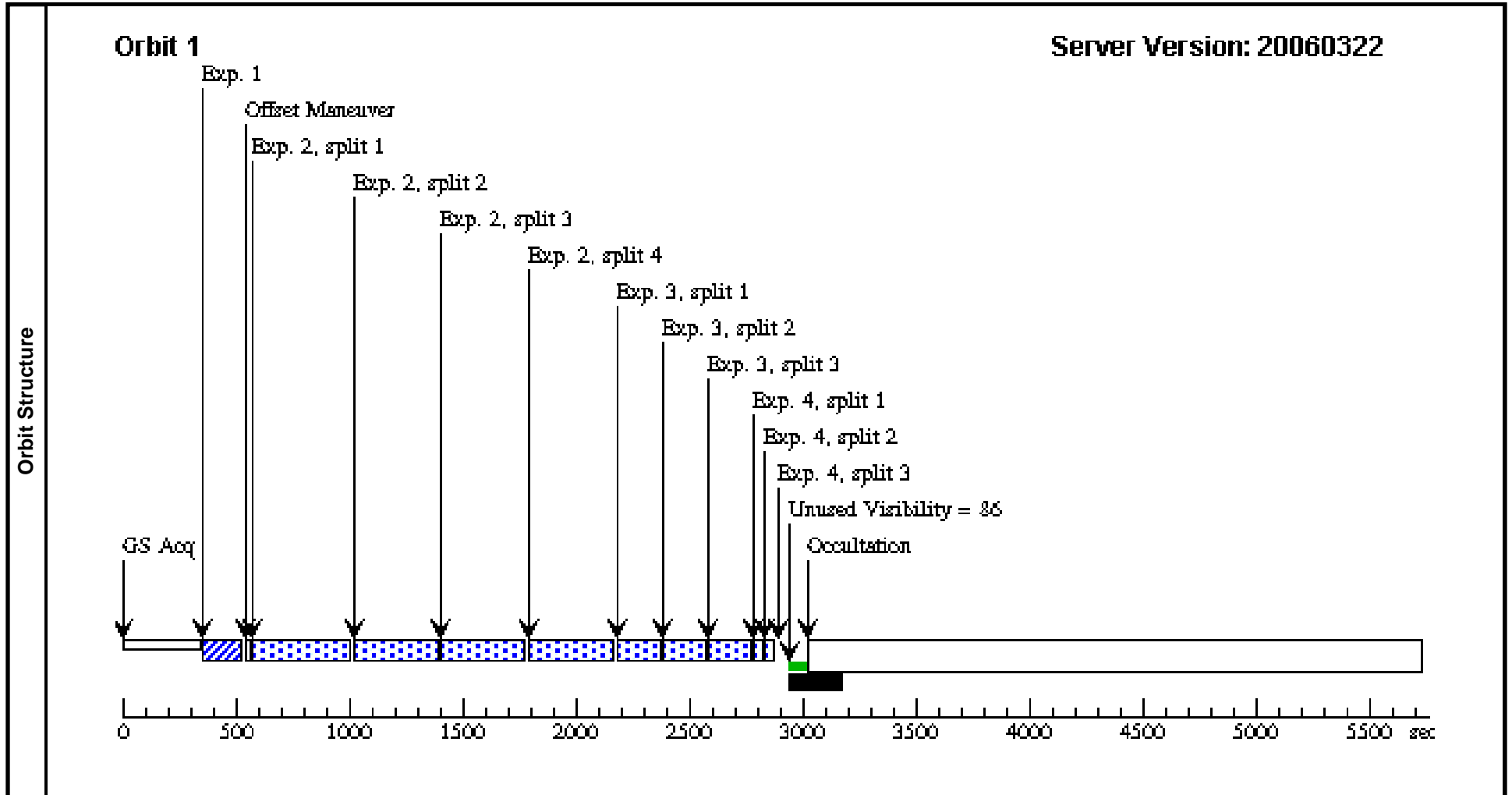
The science target barely fits within our field of view and therefore we request stringent absolute orients. If 3-gyro mode can be planned for July-August, then we would like to further modify our absolute orients. As submitted for the Phase II deadline, the absolute orients are as generous as possible to permit 2-gyro scheduling if July-August 2005 will be a 2-gyro period.

Also, we allowed for significant unused visibility to accomodate scheduling. If the final scheduling continues to show unused visibility greater than 60 seconds, we would like the opportunity to fill the orbit with more integration.

Proposal 10598 - Visit 01 - ACS Imaging of Fomalhaut: A Rosetta Stone for Debris Disks Sculpted by Planets

Wed May 17 01:04:46 GMT 2006

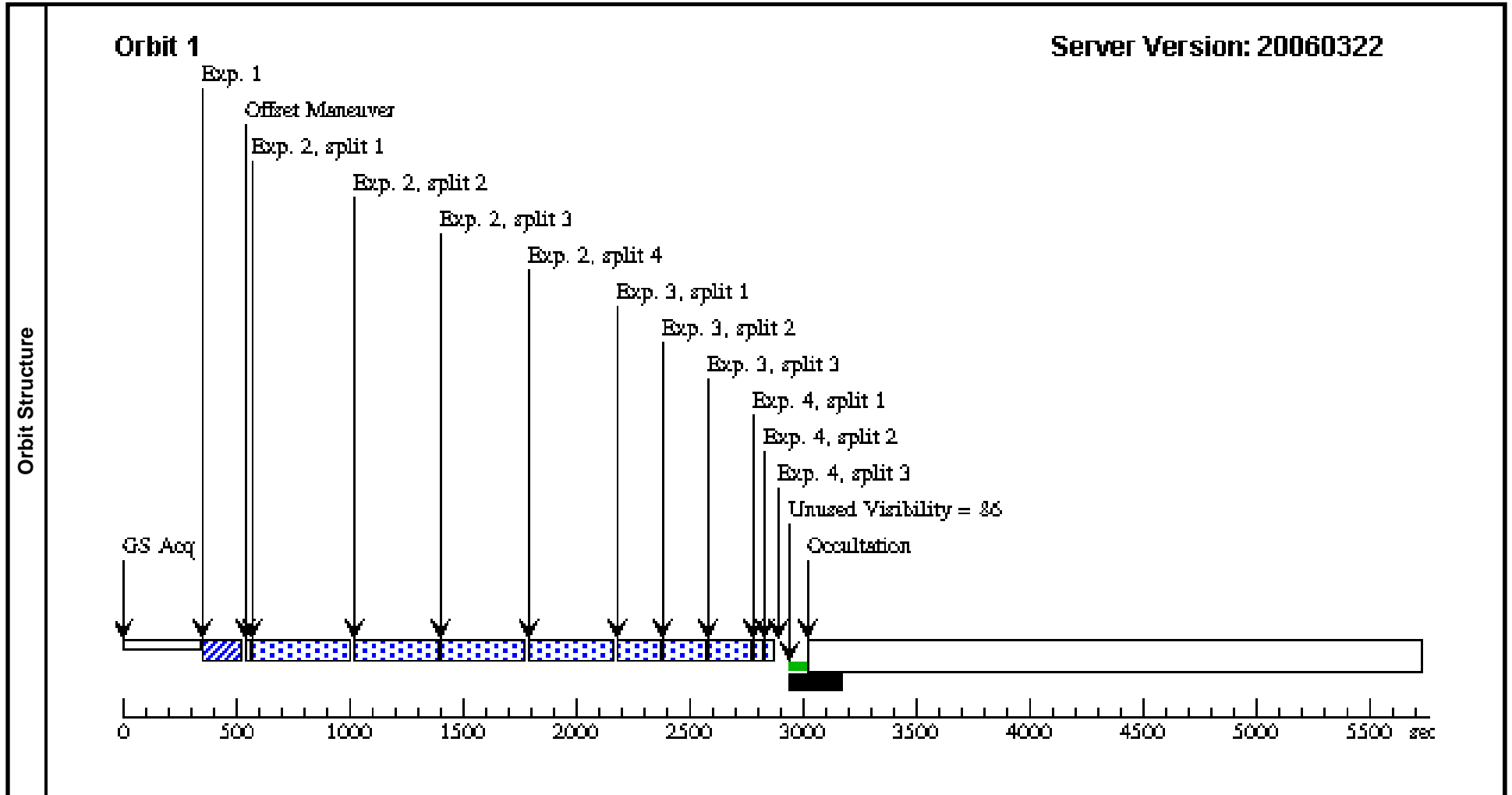
Visit	Proposal 10598, Visit 01 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 265.0D TO 265.5 D; GROUP 01,02,03 WITHIN 2.5 Orbits																																																												
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(6)</td> <td>HD216956</td> <td>RA: 22 57 39.0600 (344.4127500d)</td> <td>Proper Motion RA: 0.0255s/yr</td> <td>V=1.16</td> <td rowspan="4">Coordinate Source: PPM_STAR_CATALOGUE</td> </tr> <tr> <td></td> <td>Alt Name1: FOMALHAUT</td> <td>Dec: -29 37 20.10 (-29.62225d)</td> <td>Proper Motion Dec: -0.165"/yr</td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: HR8728</td> <td>Equinox: J2000</td> <td>Parallax: 0.13008"</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Epoch of Position: 2000.0</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This target specification has coordinates and proper motions only from the PPM catalog.;Fomalhaut will be used as a PSF subtraction star for Vega, and vice versa. Vega and Fomalhaut must be observed in consecutive orbits, with calibration programs suppressed during Earth occultation to make sure the HRC 1.8" occulting spot is kept in a fixed position.;Fomalhaut has high proper motion, over 10 HRC pixels per year.;Declination is -29.622236111</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(6)	HD216956	RA: 22 57 39.0600 (344.4127500d)	Proper Motion RA: 0.0255s/yr	V=1.16	Coordinate Source: PPM_STAR_CATALOGUE		Alt Name1: FOMALHAUT	Dec: -29 37 20.10 (-29.62225d)	Proper Motion Dec: -0.165"/yr			Alt Name2: HR8728	Equinox: J2000	Parallax: 0.13008"					Epoch of Position: 2000.0																																	
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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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3	Exposure 2	(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F814W	CR-SPLIT=3; GAIN=2	USE OFFSET 01		450.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]																																																				
4		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F814W	CR-SPLIT=3; GAIN=2	USE OFFSET 01		0.6 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]																																																				



Proposal 10598 - Visit 02 - ACS Imaging of Fomalhaut: A Rosetta Stone for Debris Disks Sculpted by Planets

Wed May 17 01:04:46 GMT 2006

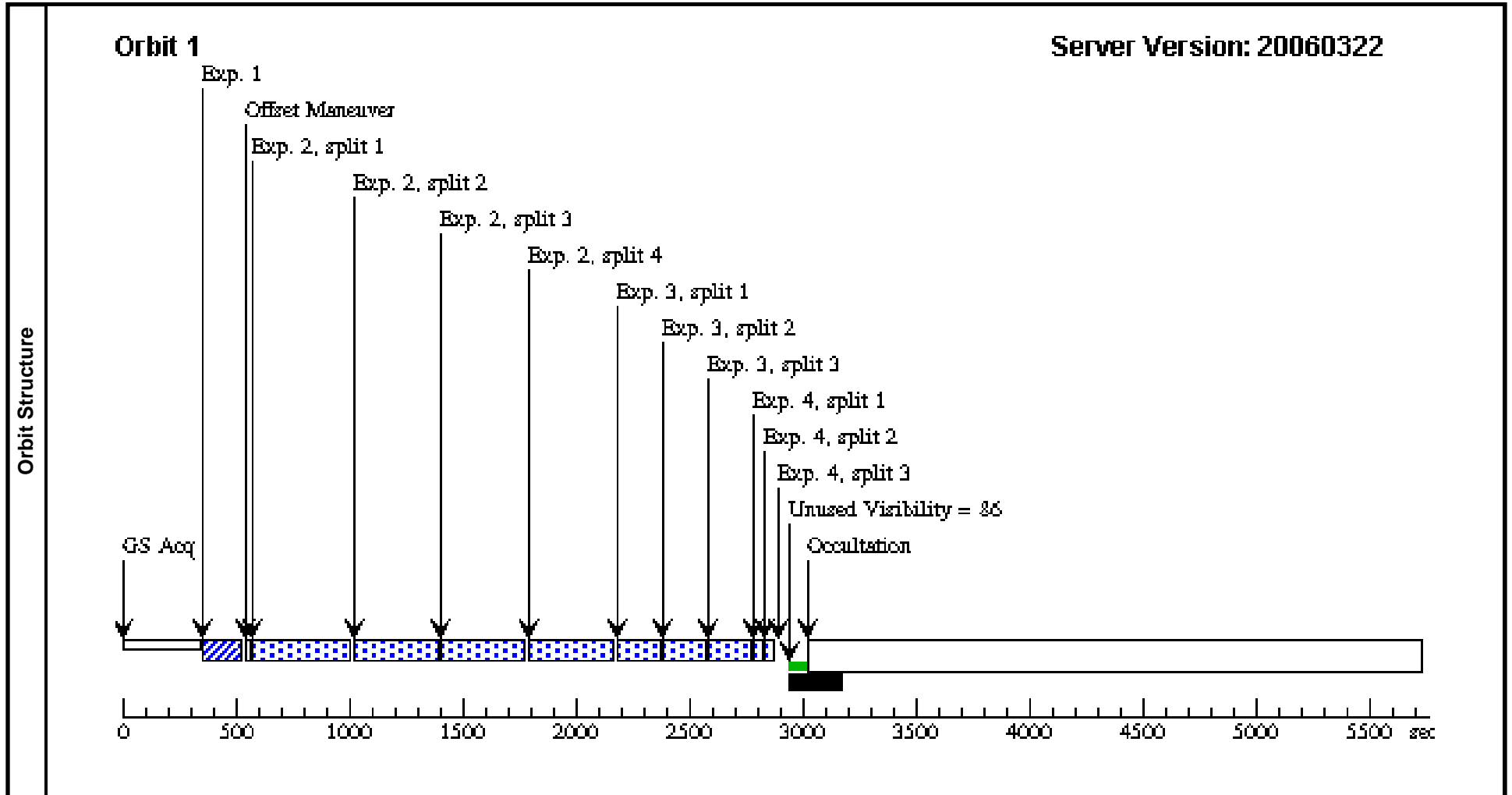
Visit	Proposal 10598, Visit 02 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 2.9D TO 3.1D FROM 01									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(6)	HD216956 Alt Name1: FOMALHAUT Alt Name2: HR8728	RA: 22 57 39.0600 (344.4127500d) Dec: -29 37 20.10 (-29.62225d) Equinox: J2000	Proper Motion RA: 0.0255s/yr Proper Motion Dec: -0.165"/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Coordinate Source: PPM_STAR_CATALOGUE			
	<i>Comments: This target specification has coordinates and proper motions only from the PPM catalog.;Fomalhaut will be used as a PSF subtraction star for Vega, and vice versa. Vega and Fomalhaut must be observed in consecutive orbits, with calibration programs suppressed during Earth occultation to make sure the HRC 1.8" occulting spot is kept in a fixed position.;Fomalhaut has high proper motion, over 10 HRC pixels per year.;Declination is -29.622236111</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Fom_1.8_F8 14W	(6) HD216956	ACS/HRC, ACQ, HRC-ACQ	F220W F606W				3.5 Secs [==>]	[1]
	<i>Comments: The F220W-F606W filter combination is recommended for the HRC-ACQ.</i>									
	2		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F814W	CR-SPLIT=4; GAIN=2	USE OFFSET 02		1360.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]
	3		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F814W	CR-SPLIT=3; GAIN=2	USE OFFSET 02		450.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]
4		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F814W	CR-SPLIT=3; GAIN=2	USE OFFSET 02		0.6 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]	



Proposal 10598 - Visit 03 - ACS Imaging of Fomalhaut: A Rosetta Stone for Debris Disks Sculpted by Planets

Wed May 17 01:04:48 GMT 2006

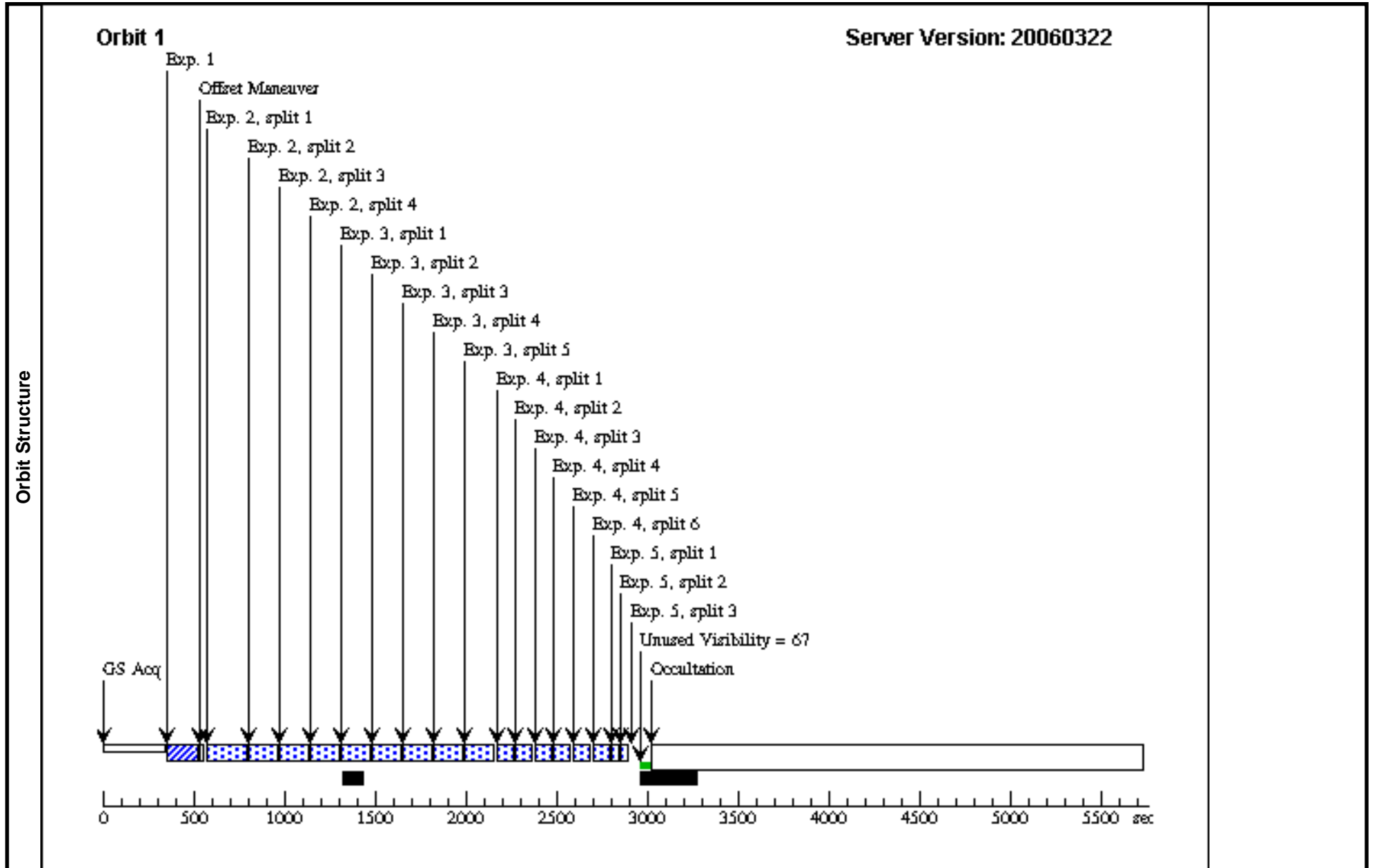
Visit	Proposal 10598, Visit 03 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 2.9D TO 3.1D FROM 02									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(6)	HD216956	RA: 22 57 39.0600 (344.4127500d)	Proper Motion RA: 0.0255s/yr	V=1.16	Coordinate Source: PPM_STAR_CATALOGUE			
		Alt Name1: FOMALHAUT	Dec: -29 37 20.10 (-29.62225d)	Proper Motion Dec: -0.165"/yr						
		Alt Name2: HR8728	Equinox: J2000	Parallax: 0.13008"						
				Epoch of Position: 2000.0						
	<i>Comments: This target specification has coordinates and proper motions only from the PPM catalog.;Fomalhaut will be used as a PSF subtraction star for Vega, and vice versa. Vega and Fomalhaut must be observed in consecutive orbits, with calibration programs suppressed during Earth occultation to make sure the HRC 1.8" occulting spot is kept in a fixed position.;Fomalhaut has high proper motion, over 10 HRC pixels per year.;Declination is -29.622236111</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Fom_1.8_F8 14W	(6) HD216956	ACS/HRC, ACQ, HRC-ACQ	F220W F606W				3.5 Secs [==>]	[1]
	<i>Comments: The F220W-F606W filter combination is recommended for the HRC-ACQ.</i>									
	2		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F814W	CR-SPLIT=4; GAIN=2	USE OFFSET 03		1360.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]
	3		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F814W	CR-SPLIT=3; GAIN=2	USE OFFSET 03		450.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]
4		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F814W	CR-SPLIT=3; GAIN=2	USE OFFSET 03		0.6 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]	



Proposal 10598 - Visit 04 - ACS Imaging of Fomalhaut: A Rosetta Stone for Debris Disks Sculpted by Planets

Wed May 17 01:04:49 GMT 2006

Visit	Proposal 10598, Visit 04 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; AFTER 03 BY 1 H TO 24 H																																																																															
	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>(5)</td> <td>HD172167-PSF</td> <td>RA: 18 36 56.3300 (279.2347083d)</td> <td>Proper Motion RA: 0.0173s/yr</td> <td>V=0.0</td> <td rowspan="3">Coordinate Source: PPM_STAR_CATALOGUE</td> </tr> <tr> <td></td> <td>Alt Name1: VEGA</td> <td>Dec: +38 47 1.17 (38.78366d)</td> <td>Proper Motion Dec: 0.286"/yr</td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: HR7001</td> <td>Equinox: J2000</td> <td>Parallax: 0.12893"</td> <td>Epoch of Position: 2000.0</td> </tr> </tbody> </table> <p><i>Comments: This target specification has coordinates and proper motions only from the PPM catalog.;Fomalhaut will be used as a PSF subtraction star for Vega, and vice versa. Vega and Fomalhaut must be observed in consecutive orbits, with calibration programs suppressed during Earth occultation to make sure the HRC 1.8" occulting spot is kept in a fixed position.;Vega has high proper motion, over 10 HRC pixels / yr. ;Vega's declination is +38.783691944</i></p>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(5)	HD172167-PSF	RA: 18 36 56.3300 (279.2347083d)	Proper Motion RA: 0.0173s/yr	V=0.0	Coordinate Source: PPM_STAR_CATALOGUE		Alt Name1: VEGA	Dec: +38 47 1.17 (38.78366d)	Proper Motion Dec: 0.286"/yr			Alt Name2: HR7001	Equinox: J2000	Parallax: 0.12893"	Epoch of Position: 2000.0																																																				
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Proposal 10598 - Visit 05 - ACS Imaging of Fomalhaut: A Rosetta Stone for Debris Disks Sculpted by Planets

Wed May 17 01:04:49 GMT 2006

Visit	Proposal 10598, Visit 05 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 265.0D TO 265.5 D; GROUP 05,06,07 WITHIN 2.5 Orbits										
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
(6)		HD216956 Alt Name1: FOMALHAUT Alt Name2: HR8728	RA: 22 57 39.0600 (344.4127500d) Dec: -29 37 20.10 (-29.62225d) Equinox: J2000	Proper Motion RA: 0.0255s/yr Proper Motion Dec: -0.165"/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Coordinate Source: PPM_STAR_CATALOGUE					
<i>Comments: This target specification has coordinates and proper motions only from the PPM catalog.;Fomalhaut will be used as a PSF subtraction star for Vega, and vice versa. Vega and Fomalhaut must be observed in consecutive orbits, with calibration programs suppressed during Earth occultation to make sure the HRC 1.8" occulting spot is kept in a fixed position.;Fomalhaut has high proper motion, over 10 HRC pixels per year.;Declination is -29.622236111</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	Fom_1.8_F4 35W	(6) HD216956	ACS/HRC, ACQ, HRC-ACQ	F220W F606W				3.5 Secs [==>]	[1]	
	<i>Comments: The F220W-F606W filter combination is recommended for the HRC-ACQ.</i>										
	2	Exposure 2	(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F435W	CR-SPLIT=3; GAIN=2	USE OFFSET 05		2175.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]	
3		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F435W	CR-SPLIT=NO; GAIN=2	USE OFFSET 05		0.6 Secs [==>]	[1]		
Orbit Structure	<p>Orbit 1 Server Version: 20060322</p> <p>The diagram shows a horizontal timeline from 0 to 5500 seconds. Key events are marked with vertical arrows: GS Acq at ~200s, Exp. 1 at ~400s, Offset Maneuver at ~500s, Exp. 2 split 1 at ~600s, Exp. 2 split 2 at ~1400s, Exp. 2 split 3 at ~2200s, Exp. 3 at ~3000s, and Occultation starting at ~3000s. A shaded region from ~400s to ~3000s indicates the observation period. Unused visibility is 23 seconds.</p>										

Visit	Proposal 10598, Visit 06 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 2.9D TO 3.1D FROM 05										
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
(6)		HD216956 Alt Name1: FOMALHAUT Alt Name2: HR8728	RA: 22 57 39.0600 (344.4127500d) Dec: -29 37 20.10 (-29.62225d) Equinox: J2000	Proper Motion RA: 0.0255s/yr Proper Motion Dec: -0.165"/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Coordinate Source: PPM_STAR_CATALOGUE					
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	<i>Comments: The F220W-F606W filter combination is recommended for the HRC-ACQ.</i>										
	2		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F435W	CR-SPLIT=3; GAIN=2	USE OFFSET 06		2175.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]	
3		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F435W	CR-SPLIT=NO; GAIN=2	USE OFFSET 06		0.6 Secs [==>]	[1]		
Orbit Structure	<p>Orbit 1 Server Version: 20060322</p>										
	<p>Timeline labels: GS Acq, Exp. 1, Offset Maneuver, Exp. 2, split 1, Exp. 2, split 2, Exp. 2, split 3, Exp. 3, Unused Visibility = 23, Occultation.</p>										

Proposal 10598 - Visit 07 - ACS Imaging of Fomalhaut: A Rosetta Stone for Debris Disks Sculpted by Planets

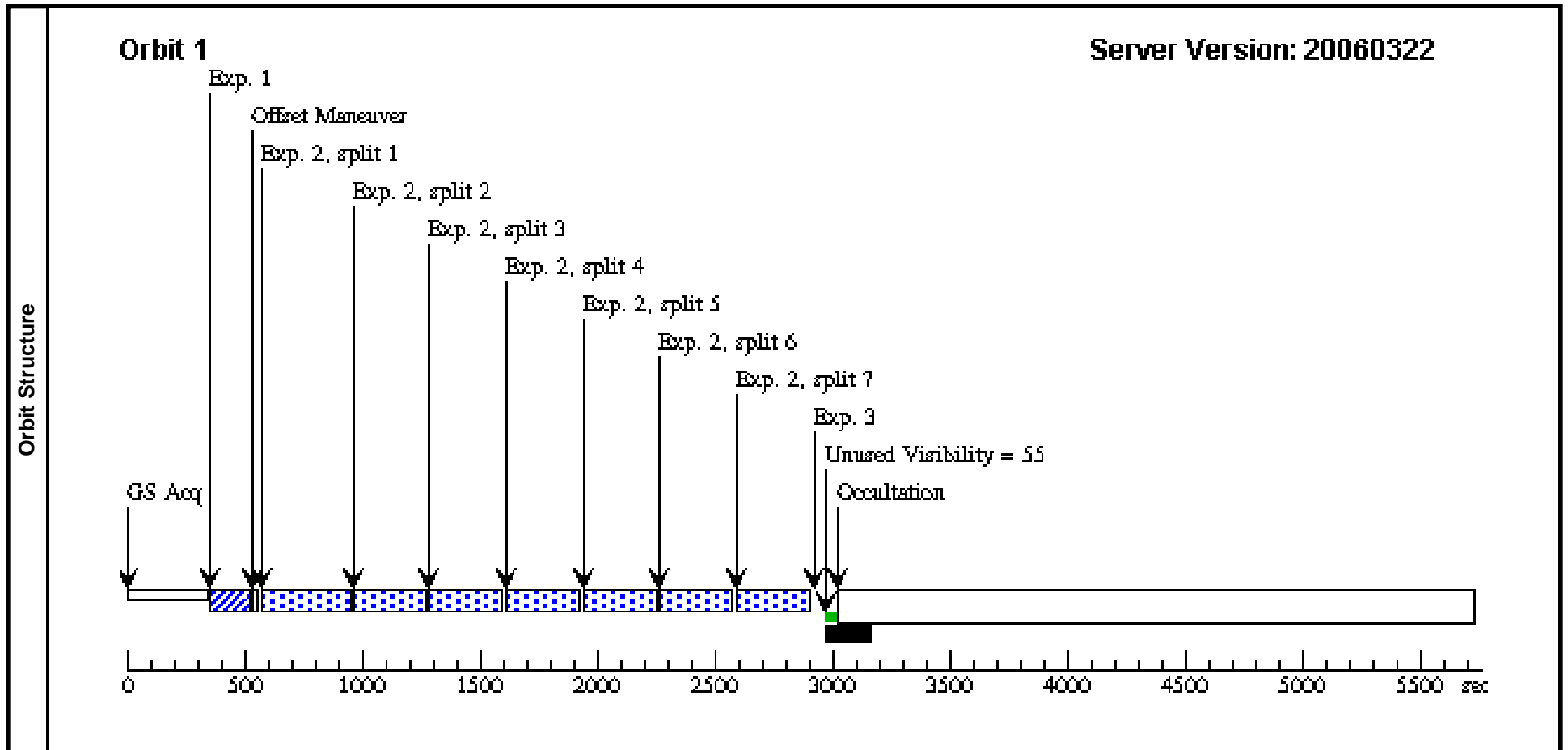
Wed May 17 01:04:50 GMT 2006

Visit	Proposal 10598, Visit 07 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 2.9D TO 3.1D FROM 06										
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
(6)		HD216956 Alt Name1: FOMALHAUT Alt Name2: HR8728	RA: 22 57 39.0600 (344.4127500d) Dec: -29 37 20.10 (-29.62225d) Equinox: J2000	Proper Motion RA: 0.0255s/yr Proper Motion Dec: -0.165"/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Coordinate Source: PPM_STAR_CATALOGUE					
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	<i>Comments: The F220W-F606W filter combination is recommended for the HRC-ACQ.</i>										
	2		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F435W	CR-SPLIT=3; GAIN=2	USE OFFSET 07		2175.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]	
3		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F435W	CR-SPLIT=NO; GAIN=2	USE OFFSET 07		0.6 Secs [==>]	[1]		
Orbit Structure	<p>Orbit 1 Server Version: 20060322</p> <p>Timeline labels: GS Acq, Exp. 1, Offset Maneuver, Exp. 2, split 1, Exp. 2, split 2, Exp. 2, split 3, Exp. 3, Unused Visibility = 23, Occultation.</p> <p>X-axis: 0, 500, 1000, 1500, 2000, 2500, 3000, 3500, 4000, 4500, 5000, 5500 sec</p>										

Proposal 10598 - Visit 08 - ACS Imaging of Fomalhaut: A Rosetta Stone for Debris Disks Sculpted by Planets

Wed May 17 01:04:50 GMT 2006

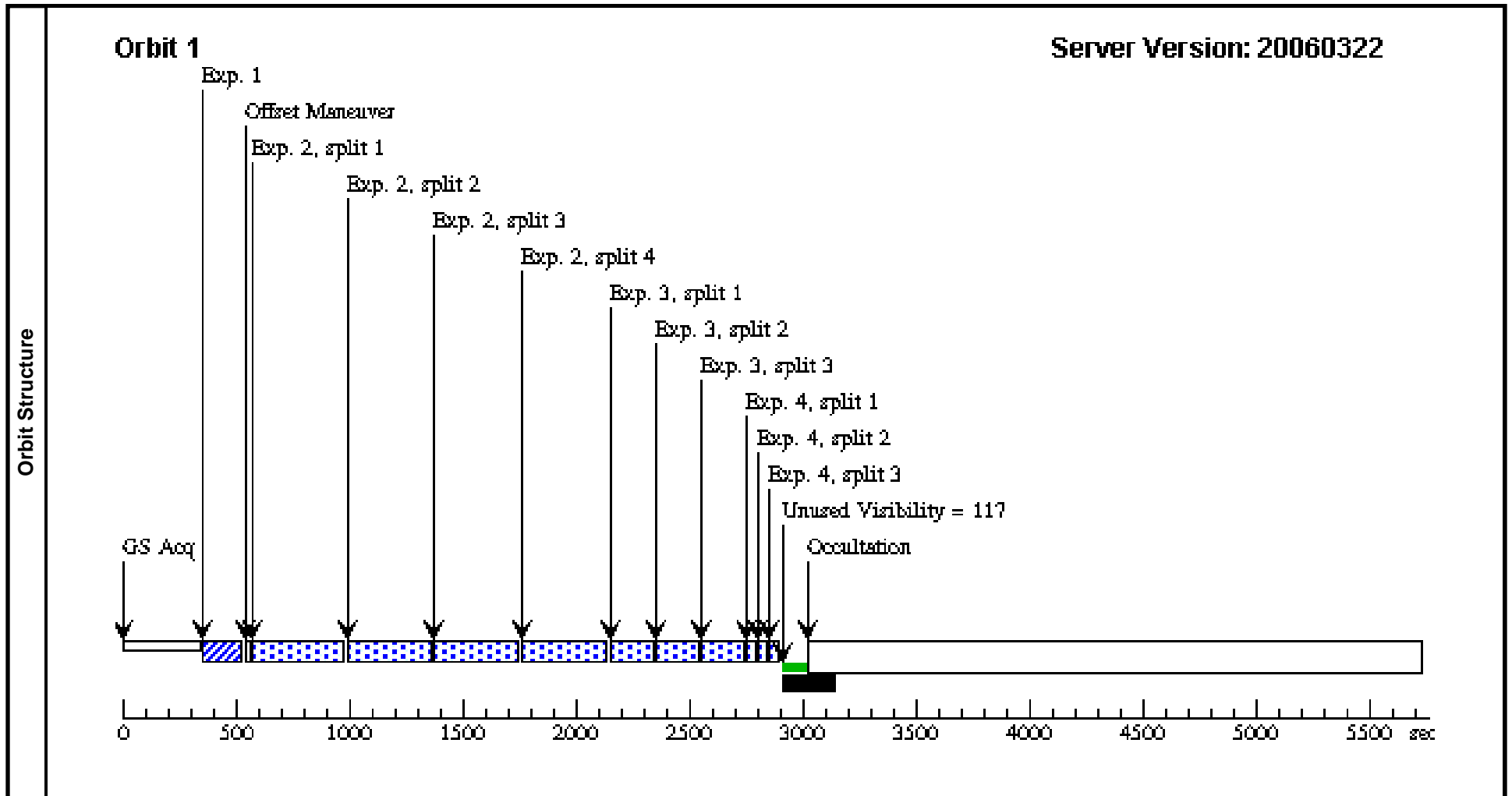
Visit		Proposal 10598, Visit 08 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; AFTER 07 BY 1 H TO 24 H																																																		
Fixed Targets		<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(5)</td> <td>HD172167-PSF</td> <td>RA: 18 36 56.3300 (279.2347083d)</td> <td>Proper Motion RA: 0.0173s/yr</td> <td>V=0.0</td> <td rowspan="3">Coordinate Source: PPM_STAR_CATALOGUE</td> </tr> <tr> <td></td> <td>Alt Name1: VEGA</td> <td>Dec: +38 47 1.17 (38.78366d)</td> <td>Proper Motion Dec: 0.286"/yr</td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: HR7001</td> <td>Equinox: J2000</td> <td>Parallax: 0.12893"</td> <td></td> </tr> <tr> <td colspan="6"> Epoch of Position: 2000.0 <i>Comments: This target specification has coordinates and proper motions only from the PPM catalog.;Fomalhaut will be used as a PSF subtraction star for Vega, and vice versa. Vega and Fomalhaut must be observed in consecutive orbits, with calibration programs suppressed during Earth occultation to make sure the HRC 1.8" occulting spot is kept in a fixed position.;Vega has high proper motion, over 10 HRC pixels / yr. ;Vega's declination is +38.783691944</i> </td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(5)	HD172167-PSF	RA: 18 36 56.3300 (279.2347083d)	Proper Motion RA: 0.0173s/yr	V=0.0	Coordinate Source: PPM_STAR_CATALOGUE		Alt Name1: VEGA	Dec: +38 47 1.17 (38.78366d)	Proper Motion Dec: 0.286"/yr			Alt Name2: HR7001	Equinox: J2000	Parallax: 0.12893"		Epoch of Position: 2000.0 <i>Comments: This target specification has coordinates and proper motions only from the PPM catalog.;Fomalhaut will be used as a PSF subtraction star for Vega, and vice versa. Vega and Fomalhaut must be observed in consecutive orbits, with calibration programs suppressed during Earth occultation to make sure the HRC 1.8" occulting spot is kept in a fixed position.;Vega has high proper motion, over 10 HRC pixels / yr. ;Vega's declination is +38.783691944</i>																											
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Proposal 10598 - Visit 09 - ACS Imaging of Fomalhaut: A Rosetta Stone for Debris Disks Sculpted by Planets

Wed May 17 01:04:50 GMT 2006

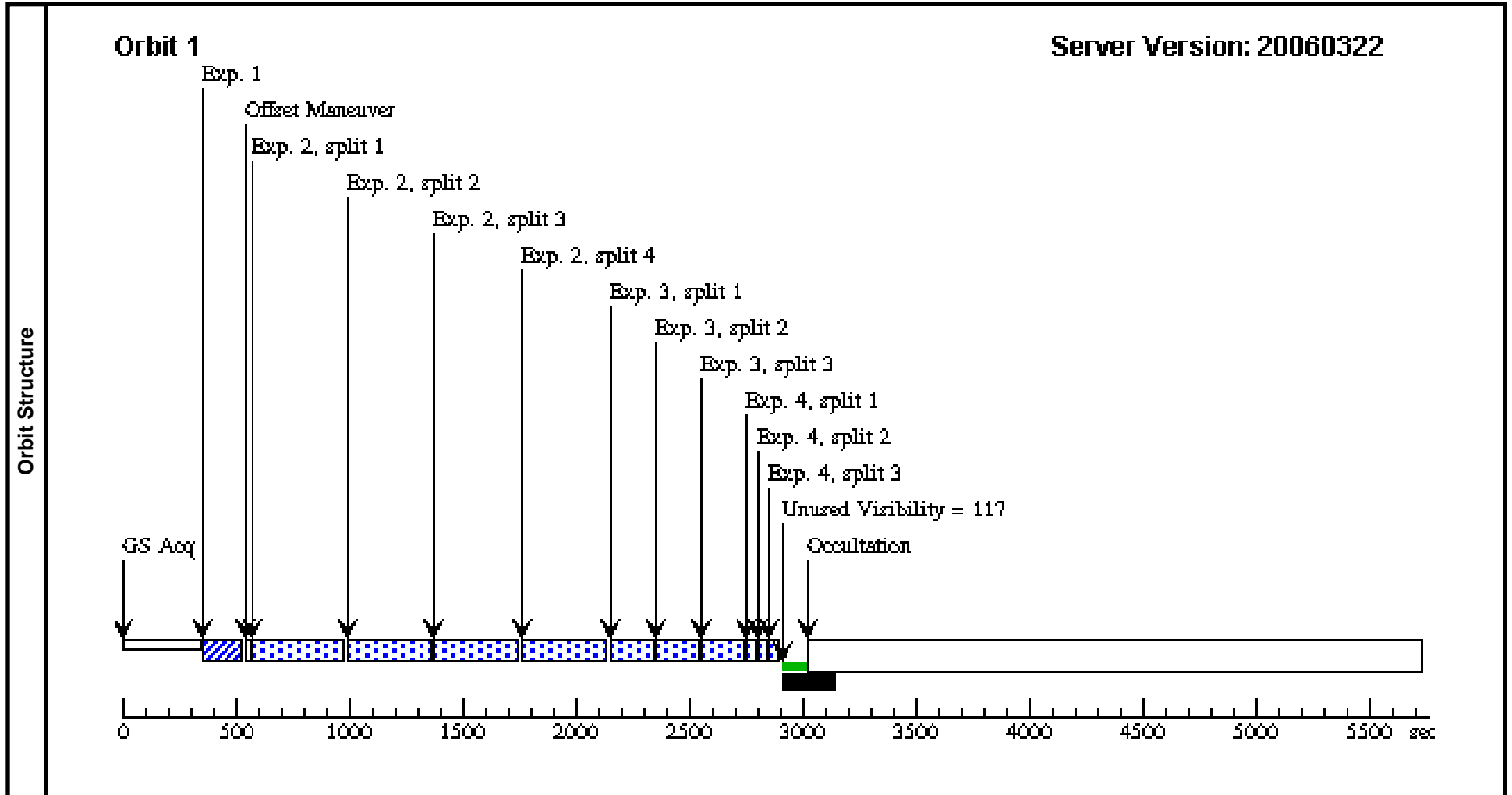
Visit		Proposal 10598, Visit 09 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 265.0D TO 265.5 D; GROUP 09,10,11 WITHIN 2.5 Orbits																																																												
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Exposures		<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>Fom_1.8_F6 06W</td> <td>(6) HD216956</td> <td>ACS/HRC, ACQ, HRC-ACQ</td> <td>F220W F606W</td> <td></td> <td></td> <td></td> <td>3.5 Secs [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"><i>Comments: The F220W-F606W filter combination is recommended for the HRC-ACQ.</i></td> </tr> <tr> <td>2</td> <td></td> <td>(6) HD216956</td> <td>ACS/HRC, ACCUM, HRC-CORON1.8</td> <td>F606W</td> <td>CR-SPLIT=4; GAIN=2</td> <td>USE OFFSET 09</td> <td></td> <td>1360.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>Exposure 2</td> <td>(6) HD216956</td> <td>ACS/HRC, ACCUM, HRC-CORON1.8</td> <td>F606W</td> <td>CR-SPLIT=3; GAIN=2</td> <td>USE OFFSET 09</td> <td></td> <td>450.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td></td> <td>(6) HD216956</td> <td>ACS/HRC, ACCUM, HRC-CORON1.8</td> <td>F606W</td> <td>CR-SPLIT=3; GAIN=2</td> <td>USE OFFSET 09</td> <td></td> <td>0.6 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]</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	Fom_1.8_F6 06W	(6) HD216956	ACS/HRC, ACQ, HRC-ACQ	F220W F606W				3.5 Secs [==>]	[1]	<i>Comments: The F220W-F606W filter combination is recommended for the HRC-ACQ.</i>										2		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=4; GAIN=2	USE OFFSET 09		1360.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]	3	Exposure 2	(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=3; GAIN=2	USE OFFSET 09		450.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]	4		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=3; GAIN=2	USE OFFSET 09		0.6 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit																																																					
1	Fom_1.8_F6 06W	(6) HD216956	ACS/HRC, ACQ, HRC-ACQ	F220W F606W				3.5 Secs [==>]	[1]																																																					
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2		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=4; GAIN=2	USE OFFSET 09		1360.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]																																																					
3	Exposure 2	(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=3; GAIN=2	USE OFFSET 09		450.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]																																																					
4		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=3; GAIN=2	USE OFFSET 09		0.6 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]																																																					



Proposal 10598 - Visit 10 - ACS Imaging of Fomalhaut: A Rosetta Stone for Debris Disks Sculpted by Planets

Wed May 17 01:04:51 GMT 2006

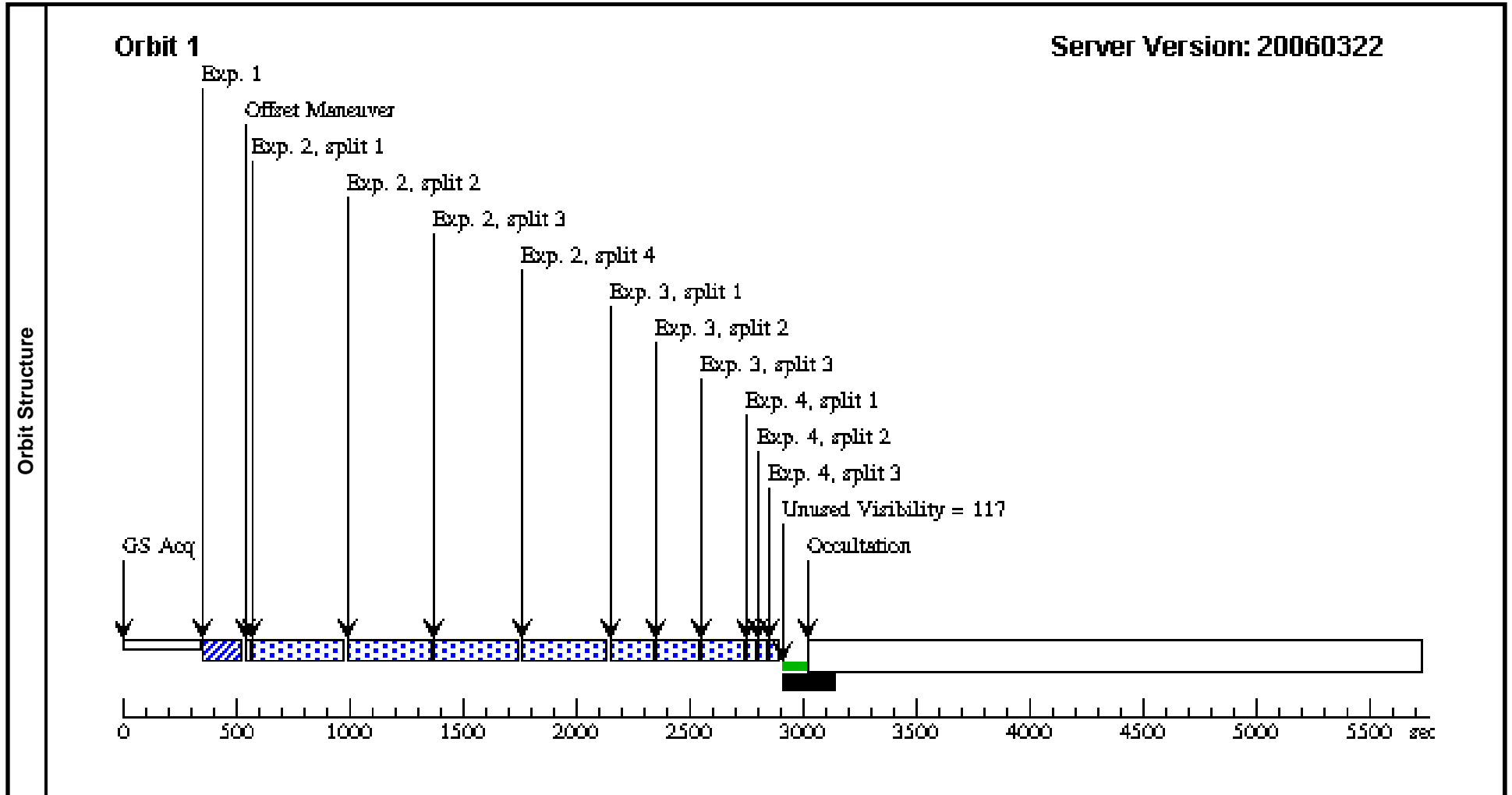
Visit	Proposal 10598, Visit 10 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 2.9D TO 3.1D FROM 09																																				
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(6)</td> <td>HD216956</td> <td>RA: 22 57 39.0600 (344.4127500d)</td> <td>Proper Motion RA: 0.0255s/yr</td> <td>V=1.16</td> <td rowspan="4">Coordinate Source: PPM_STAR_CATALOGUE</td> </tr> <tr> <td></td> <td>Alt Name1: FOMALHAUT</td> <td>Dec: -29 37 20.10 (-29.62225d)</td> <td>Proper Motion Dec: -0.165"/yr</td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: HR8728</td> <td>Equinox: J2000</td> <td>Parallax: 0.13008"</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Epoch of Position: 2000.0</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This target specification has coordinates and proper motions only from the PPM catalog.;Fomalhaut will be used as a PSF subtraction star for Vega, and vice versa. Vega and Fomalhaut must be observed in consecutive orbits, with calibration programs suppressed during Earth occultation to make sure the HRC 1.8" occulting spot is kept in a fixed position.;Fomalhaut has high proper motion, over 10 HRC pixels per year.;Declination is -29.622236111</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(6)	HD216956	RA: 22 57 39.0600 (344.4127500d)	Proper Motion RA: 0.0255s/yr	V=1.16	Coordinate Source: PPM_STAR_CATALOGUE		Alt Name1: FOMALHAUT	Dec: -29 37 20.10 (-29.62225d)	Proper Motion Dec: -0.165"/yr			Alt Name2: HR8728	Equinox: J2000	Parallax: 0.13008"					Epoch of Position: 2000.0
#		Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																															
(6)	HD216956	RA: 22 57 39.0600 (344.4127500d)	Proper Motion RA: 0.0255s/yr	V=1.16	Coordinate Source: PPM_STAR_CATALOGUE																																
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit																											
	1	Fom_1.8_F606W	(6) HD216956	ACS/HRC, ACQ, HRC-ACQ	F220W F606W				3.5 Secs [==>]	[1]																											
	<i>Comments: The F220W-F606W filter combination is recommended for the HRC-ACQ.</i>																																				
	2		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=4; GAIN=2	USE OFFSET 10		1360.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]																											
	3		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=3; GAIN=2	USE OFFSET 10		450.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]																											
4		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=3; GAIN=2	USE OFFSET 10		0.6 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]																												



Proposal 10598 - Visit 11 - ACS Imaging of Fomalhaut: A Rosetta Stone for Debris Disks Sculpted by Planets

Wed May 17 01:04:51 GMT 2006

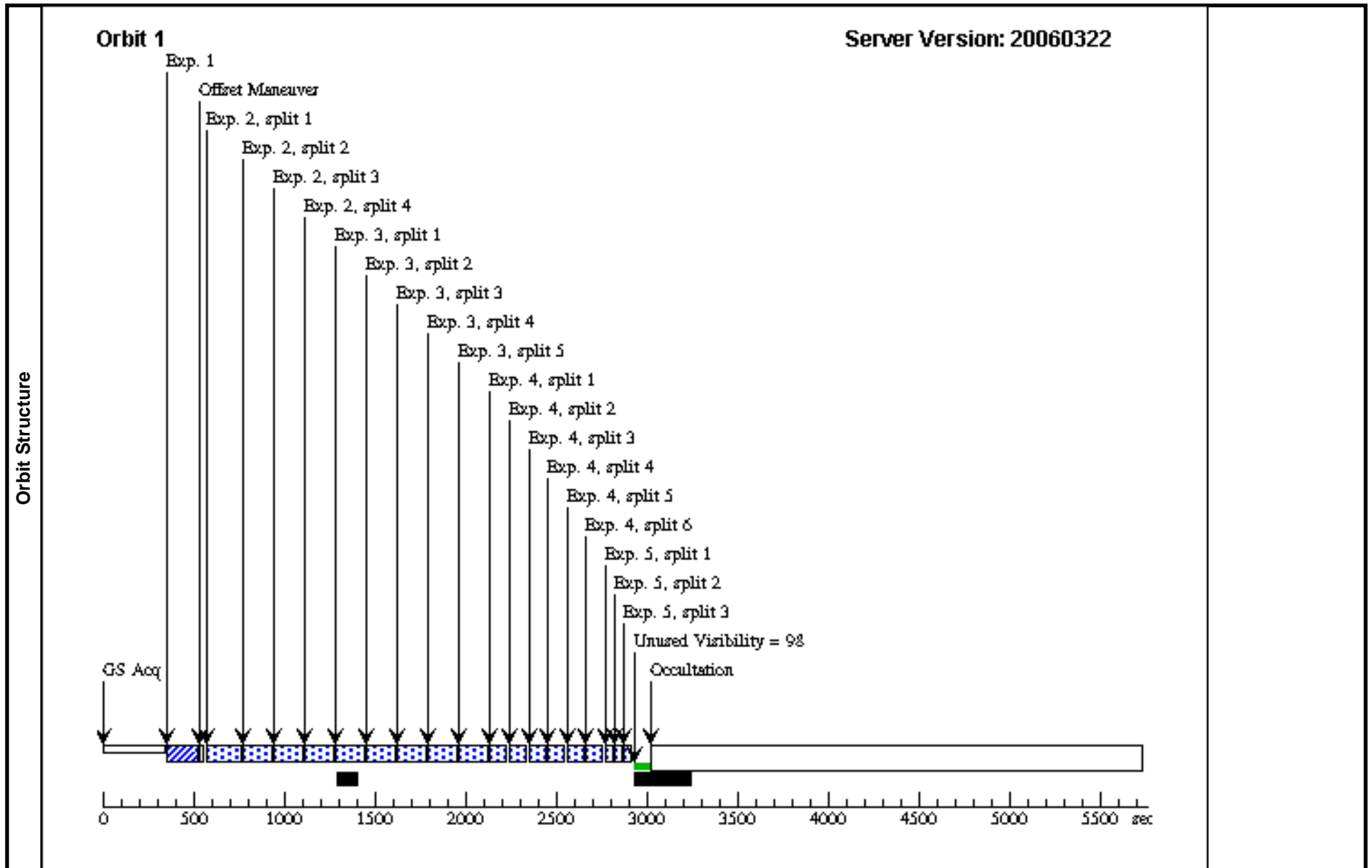
Visit	Proposal 10598, Visit 11 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 2.9D TO 3.1D FROM 10									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(6)	HD216956	RA: 22 57 39.0600 (344.4127500d)	Proper Motion RA: 0.0255s/yr	V=1.16	Coordinate Source: PPM_STAR_CATALOGUE			
		Alt Name1: FOMALHAUT	Dec: -29 37 20.10 (-29.62225d)	Proper Motion Dec: -0.165"/yr						
		Alt Name2: HR8728	Equinox: J2000	Parallax: 0.13008"						
				Epoch of Position: 2000.0						
	<i>Comments: This target specification has coordinates and proper motions only from the PPM catalog.;Fomalhaut will be used as a PSF subtraction star for Vega, and vice versa. Vega and Fomalhaut must be observed in consecutive orbits, with calibration programs suppressed during Earth occultation to make sure the HRC 1.8" occulting spot is kept in a fixed position.;Fomalhaut has high proper motion, over 10 HRC pixels per year.;Declination is -29.622236111</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Fom_1.8_F606W	(6) HD216956	ACS/HRC, ACQ, HRC-ACQ	F220W F606W				3.5 Secs [==>]	[1]
	<i>Comments: The F220W-F606W filter combination is recommended for the HRC-ACQ.</i>									
	2		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=4; GAIN=2	USE OFFSET 11		1360.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]
	3		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=3; GAIN=2	USE OFFSET 11		450.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]
4		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=3; GAIN=2	USE OFFSET 11		0.6 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]	



Proposal 10598 - Visit 12 - ACS Imaging of Fomalhaut: A Rosetta Stone for Debris Disks Sculpted by Planets

Wed May 17 01:04:51 GMT 2006

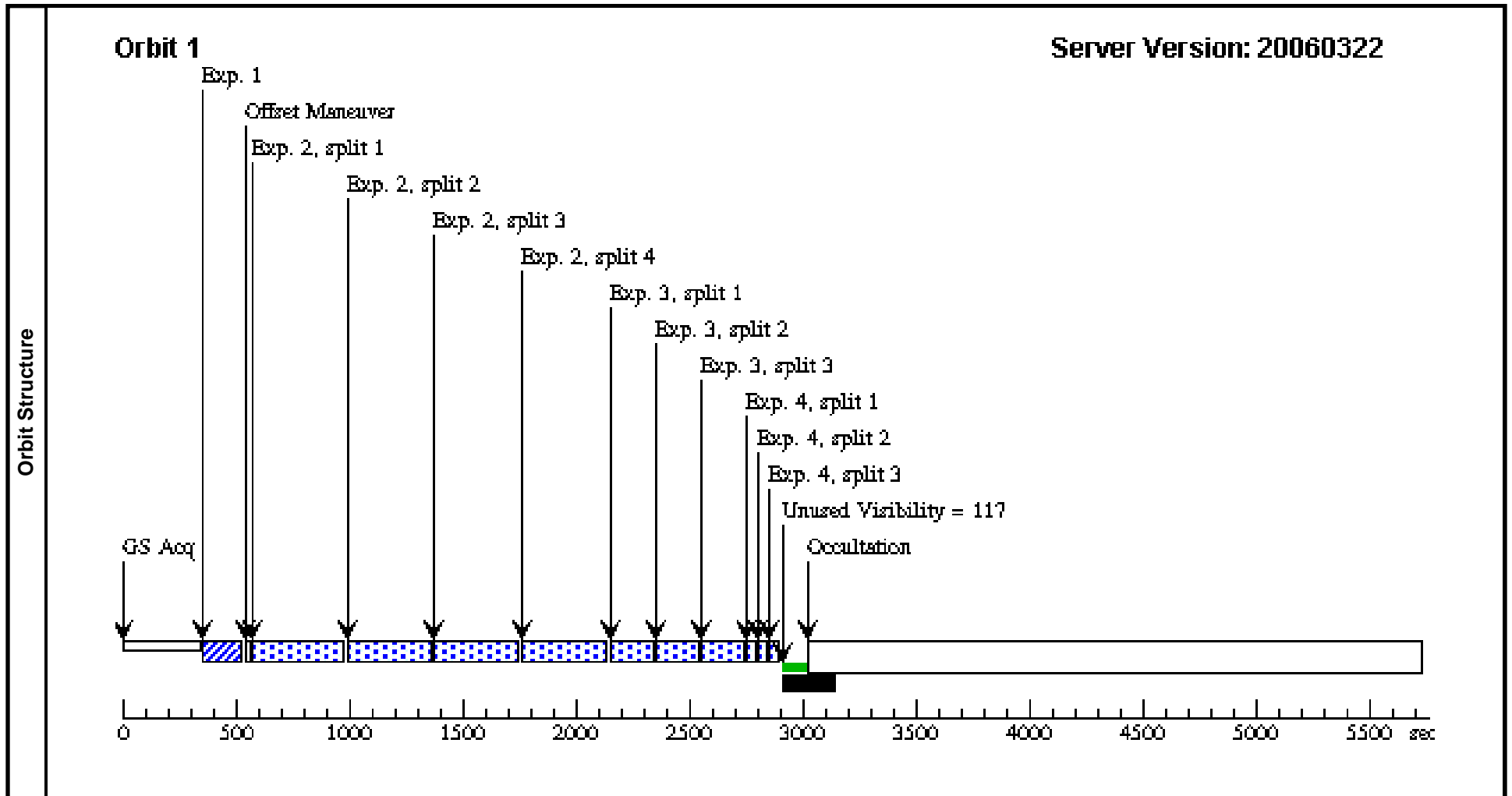
Visit	Proposal 10598, Visit 12 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; AFTER 11 BY 1 H TO 24 H									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(5)	HD172167-PSF Alt Name1: VEGA Alt Name2: HR7001	RA: 18 36 56.3300 (279.2347083d) Dec: +38 47 1.17 (38.78366d) Equinox: J2000	Proper Motion RA: 0.0173s/yr Proper Motion Dec: 0.286"/yr Parallax: 0.12893" Epoch of Position: 2000.0	V=0.0	Coordinate Source: PPM_STAR_CATALOGUE			
	<i>Comments: This target specification has coordinates and proper motions only from the PPM catalog.;Fomalhaut will be used as a PSF subtraction star for Vega, and vice versa. Vega and Fomalhaut must be observed in consecutive orbits, with calibration programs suppressed during Earth occultation to make sure the HRC 1.8" occulting spot is kept in a fixed position.;Vega has high proper motion, over 10 HRC pixels / yr. ;Vega's declination is +38.783691944</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Vega_1.8_F 606W	(5) HD172167-PSF	ACS/HRC, ACQ, HRC-ACQ	F220W F606W				2.0 Secs [==>]	[1]
	<i>Comments: The F220W-F606W filter combination is recommended for the HRC-ACQ.</i>									
	2		(5) HD172167-PSF	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=4; GAIN=2	USE OFFSET 12		480.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]
	3		(5) HD172167-PSF	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=5; GAIN=2	USE OFFSET 12		600.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)]	[1]
	4		(5) HD172167-PSF	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=6; GAIN=2	USE OFFSET 12		330.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
5		(5) HD172167-PSF	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=3; GAIN=2	USE OFFSET 12		0.3 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]	



Proposal 10598 - Visit 13 - ACS Imaging of Fomalhaut: A Rosetta Stone for Debris Disks Sculpted by Planets

Wed May 17 01:04:52 GMT 2006

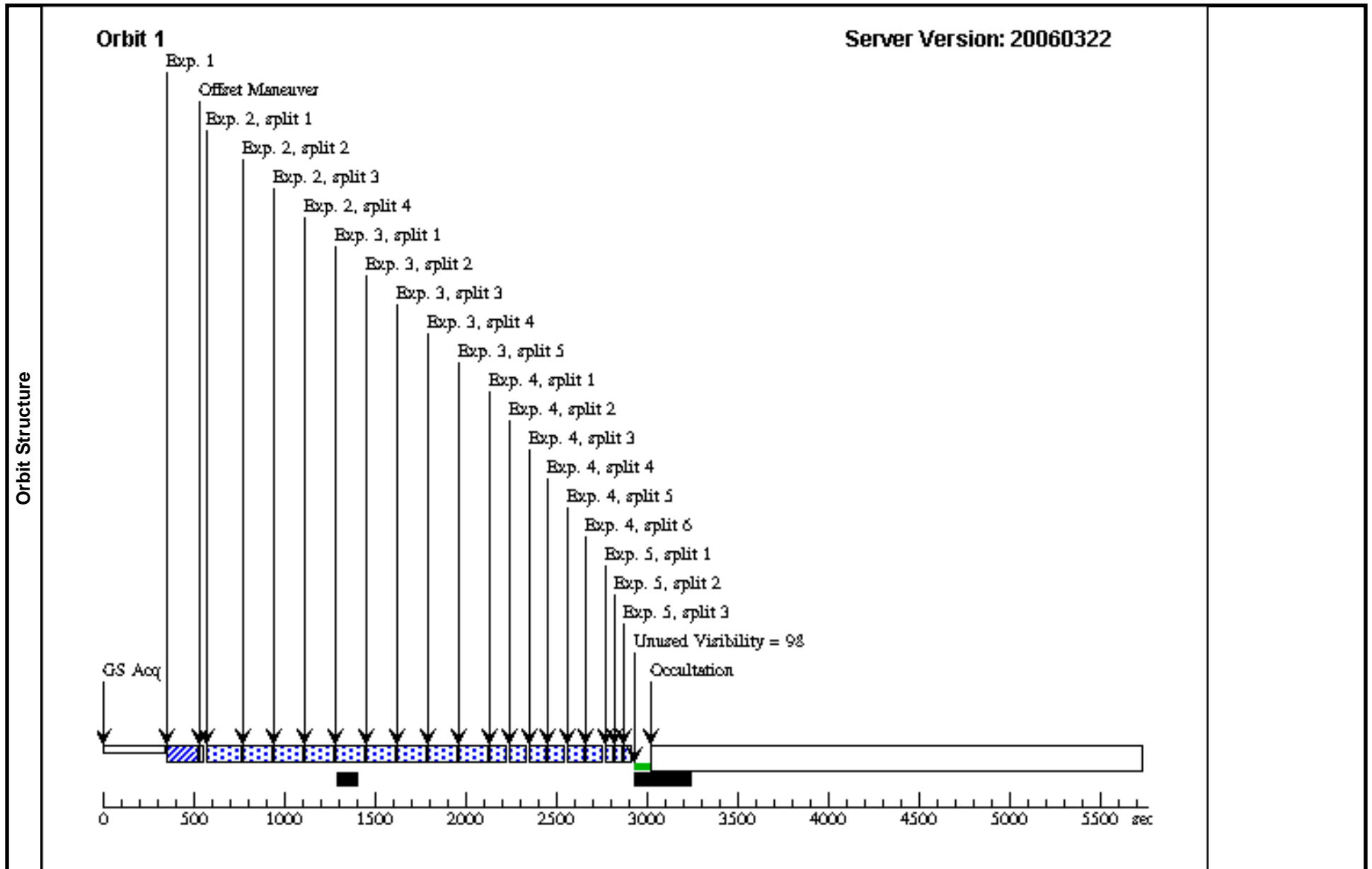
Visit	Proposal 10598, Visit 13 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 271.0D TO 271.5 D; GROUP 13,14 WITHIN 1.8 Orbits																																																																					
	Fixed Targets	<table border="1"> <thead> <tr> <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>(6)</td> <td>HD216956</td> <td>RA: 22 57 39.0600 (344.4127500d)</td> <td>Proper Motion RA: 0.0255s/yr</td> <td>V=1.16</td> <td rowspan="4">Coordinate Source: PPM_STAR_CATALOGUE</td> </tr> <tr> <td></td> <td>Alt Name1: FOMALHAUT</td> <td>Dec: -29 37 20.10 (-29.62225d)</td> <td>Proper Motion Dec: -0.165"/yr</td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: HR8728</td> <td>Equinox: J2000</td> <td>Parallax: 0.13008"</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Epoch of Position: 2000.0</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This target specification has coordinates and proper motions only from the PPM catalog.;Fomalhaut will be used as a PSF subtraction star for Vega, and vice versa. Vega and Fomalhaut must be observed in consecutive orbits, with calibration programs suppressed during Earth occultation to make sure the HRC 1.8" occulting spot is kept in a fixed position.;Fomalhaut has high proper motion, over 10 HRC pixels per year.;Declination is -29.622236111</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(6)	HD216956	RA: 22 57 39.0600 (344.4127500d)	Proper Motion RA: 0.0255s/yr	V=1.16	Coordinate Source: PPM_STAR_CATALOGUE		Alt Name1: FOMALHAUT	Dec: -29 37 20.10 (-29.62225d)	Proper Motion Dec: -0.165"/yr			Alt Name2: HR8728	Equinox: J2000	Parallax: 0.13008"					Epoch of Position: 2000.0																																	
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Exposures	<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>Fom_1.8_F6 06W</td> <td>(6) HD216956</td> <td>ACS/HRC, ACQ, HRC-ACQ</td> <td>F220W F606W</td> <td></td> <td></td> <td></td> <td>3.5 Secs [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"><i>Comments: The F220W-F606W filter combination is recommended for the HRC-ACQ.</i></td> </tr> <tr> <td>2</td> <td></td> <td>(6) HD216956</td> <td>ACS/HRC, ACCUM, HRC-CORON1.8</td> <td>F606W</td> <td>CR-SPLIT=4; GAIN=2</td> <td>USE OFFSET 13</td> <td></td> <td>1360.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td></td> <td>(6) HD216956</td> <td>ACS/HRC, ACCUM, HRC-CORON1.8</td> <td>F606W</td> <td>CR-SPLIT=3; GAIN=2</td> <td>USE OFFSET 13</td> <td></td> <td>450.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td></td> <td>(6) HD216956</td> <td>ACS/HRC, ACCUM, HRC-CORON1.8</td> <td>F606W</td> <td>CR-SPLIT=3; GAIN=2</td> <td>USE OFFSET 13</td> <td></td> <td>0.6 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]</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	Fom_1.8_F6 06W	(6) HD216956	ACS/HRC, ACQ, HRC-ACQ	F220W F606W				3.5 Secs [==>]	[1]	<i>Comments: The F220W-F606W filter combination is recommended for the HRC-ACQ.</i>										2		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=4; GAIN=2	USE OFFSET 13		1360.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]	3		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=3; GAIN=2	USE OFFSET 13		450.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]	4		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=3; GAIN=2	USE OFFSET 13		0.6 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit																																																													
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<i>Comments: The F220W-F606W filter combination is recommended for the HRC-ACQ.</i>																																																																						
2		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=4; GAIN=2	USE OFFSET 13		1360.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]																																																													
3		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=3; GAIN=2	USE OFFSET 13		450.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]																																																													
4		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=3; GAIN=2	USE OFFSET 13		0.6 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]																																																													



Proposal 10598 - Visit 14 - ACS Imaging of Fomalhaut: A Rosetta Stone for Debris Disks Sculpted by Planets

Wed May 17 01:04:52 GMT 2006

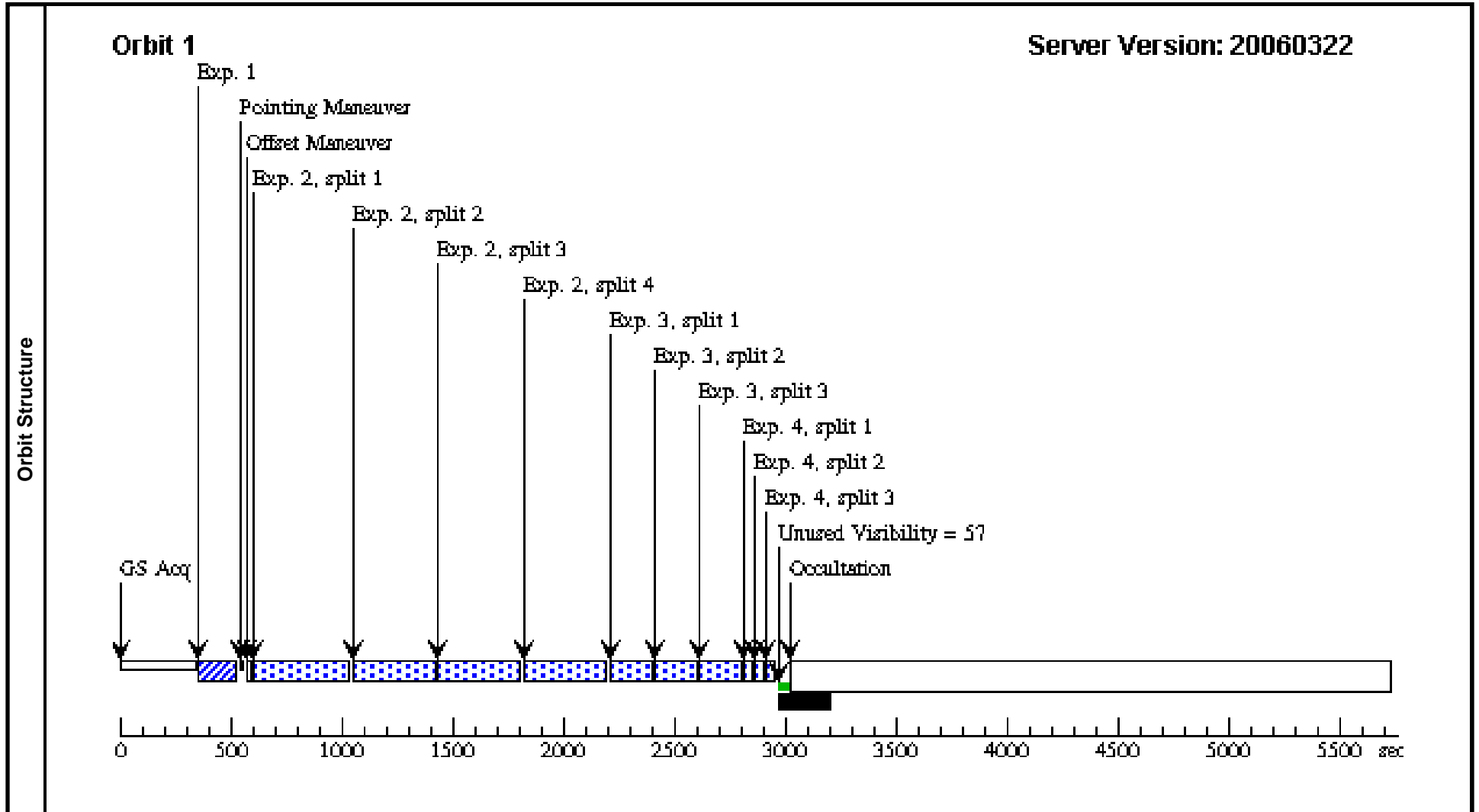
Visit	Proposal 10598, Visit 14 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(5)	HD172167-PSF Alt Name1: VEGA Alt Name2: HR7001	RA: 18 36 56.3300 (279.2347083d) Dec: +38 47 1.17 (38.78366d) Equinox: J2000	Proper Motion RA: 0.0173s/yr Proper Motion Dec: 0.286"/yr Parallax: 0.12893" Epoch of Position: 2000.0	V=0.0	Coordinate Source: PPM_STAR_CATALOGUE			
	<i>Comments: This target specification has coordinates and proper motions only from the PPM catalog.;Fomalhaut will be used as a PSF subtraction star for Vega, and vice versa. Vega and Fomalhaut must be observed in consecutive orbits, with calibration programs suppressed during Earth occultation to make sure the HRC 1.8" occulting spot is kept in a fixed position.;Vega has high proper motion, over 10 HRC pixels / yr. ;Vega's declination is +38.783691944</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Vega_1.8_F 606W	(5) HD172167-PSF	ACS/HRC, ACQ, HRC-ACQ	F220W F606W				2.0 Secs [==>]	[1]
	<i>Comments: The F220W-F606W filter combination is recommended for the HRC-ACQ.</i>									
	2		(5) HD172167-PSF	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=4; GAIN=2	USE OFFSET 14		480.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]
	3		(5) HD172167-PSF	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=5; GAIN=2	USE OFFSET 14		600.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)]	[1]
	4		(5) HD172167-PSF	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=6; GAIN=2	USE OFFSET 14		330.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
5		(5) HD172167-PSF	ACS/HRC, ACCUM, HRC-CORON1.8	F606W	CR-SPLIT=3; GAIN=2	USE OFFSET 14		0.3 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]	



Proposal 10598 - Visit 15 - ACS Imaging of Fomalhaut: A Rosetta Stone for Debris Disks Sculpted by Planets

Wed May 17 01:04:53 GMT 2006

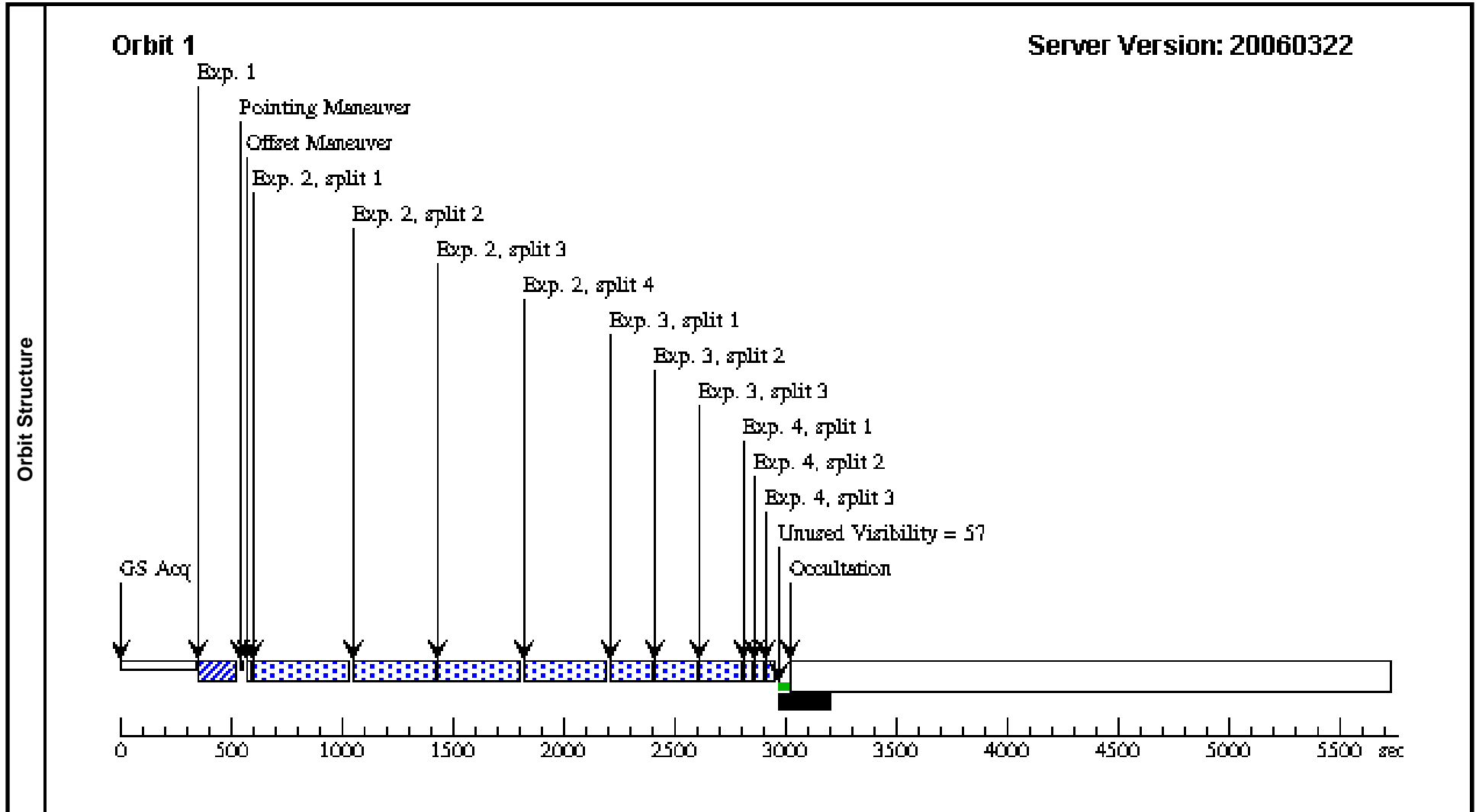
Visit	Proposal 10598, Visit 15 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 265.0D TO 265.5 D; GROUP 15,16,17 WITHIN 2.5 Orbits																																																												
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(6)</td> <td>HD216956</td> <td>RA: 22 57 39.0600 (344.4127500d)</td> <td>Proper Motion RA: 0.0255s/yr</td> <td>V=1.16</td> <td rowspan="4">Coordinate Source: PPM_STAR_CATALOGUE</td> </tr> <tr> <td></td> <td>Alt Name1: FOMALHAUT</td> <td>Dec: -29 37 20.10 (-29.62225d)</td> <td>Proper Motion Dec: -0.165"/yr</td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: HR8728</td> <td>Equinox: J2000</td> <td>Parallax: 0.13008"</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Epoch of Position: 2000.0</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This target specification has coordinates and proper motions only from the PPM catalog.;Fomalhaut will be used as a PSF subtraction star for Vega, and vice versa. Vega and Fomalhaut must be observed in consecutive orbits, with calibration programs suppressed during Earth occultation to make sure the HRC 1.8" occulting spot is kept in a fixed position.;Fomalhaut has high proper motion, over 10 HRC pixels per year.;Declination is -29.622236111</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(6)	HD216956	RA: 22 57 39.0600 (344.4127500d)	Proper Motion RA: 0.0255s/yr	V=1.16	Coordinate Source: PPM_STAR_CATALOGUE		Alt Name1: FOMALHAUT	Dec: -29 37 20.10 (-29.62225d)	Proper Motion Dec: -0.165"/yr			Alt Name2: HR8728	Equinox: J2000	Parallax: 0.13008"					Epoch of Position: 2000.0																																	
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Proposal 10598 - Visit 16 - ACS Imaging of Fomalhaut: A Rosetta Stone for Debris Disks Sculpted by Planets

Wed May 17 01:04:53 GMT 2006

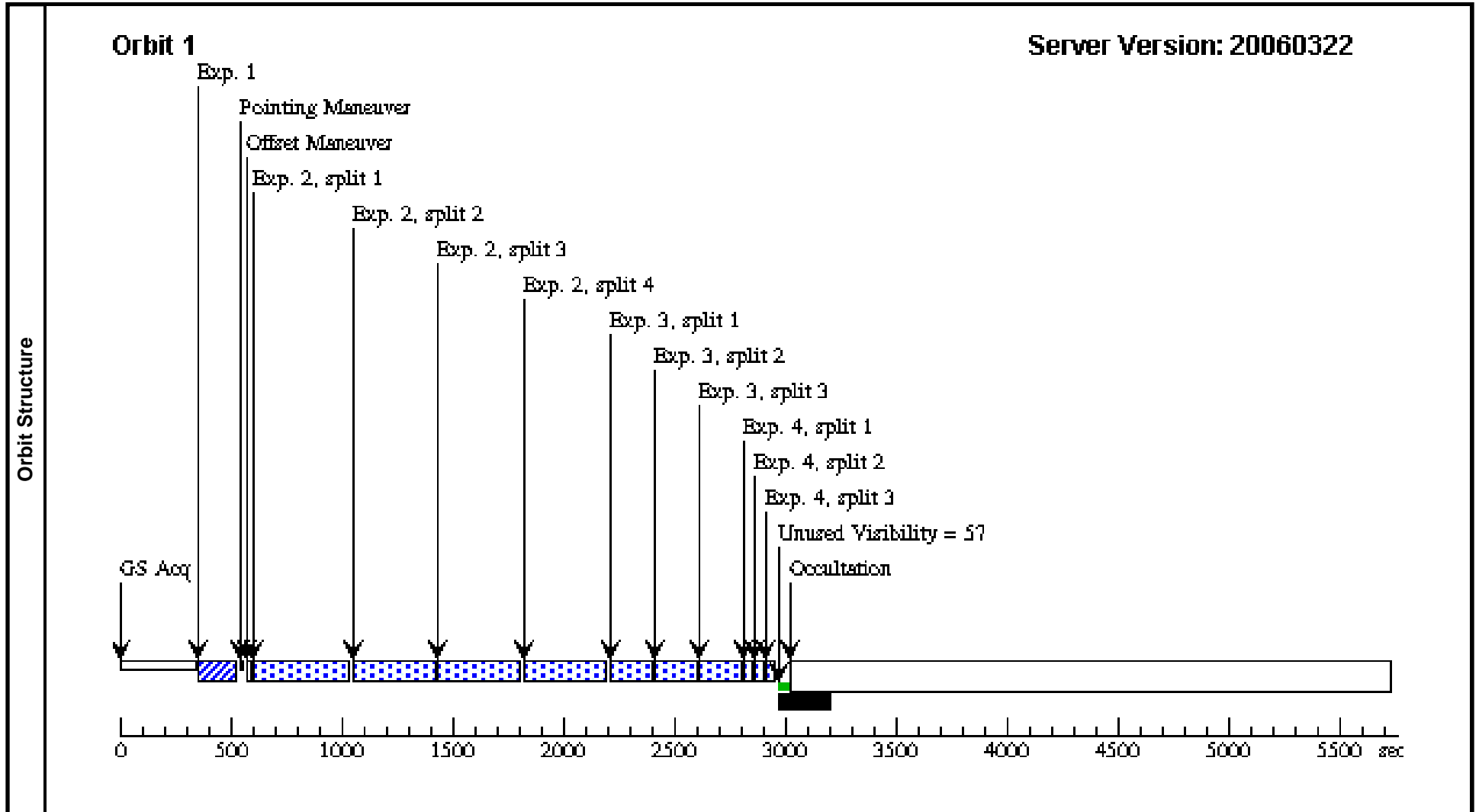
Visit		Proposal 10598, Visit 16 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 2.9D TO 3.1D FROM 15																																																												
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Proposal 10598 - Visit 17 - ACS Imaging of Fomalhaut: A Rosetta Stone for Debris Disks Sculpted by Planets

Wed May 17 01:04:53 GMT 2006

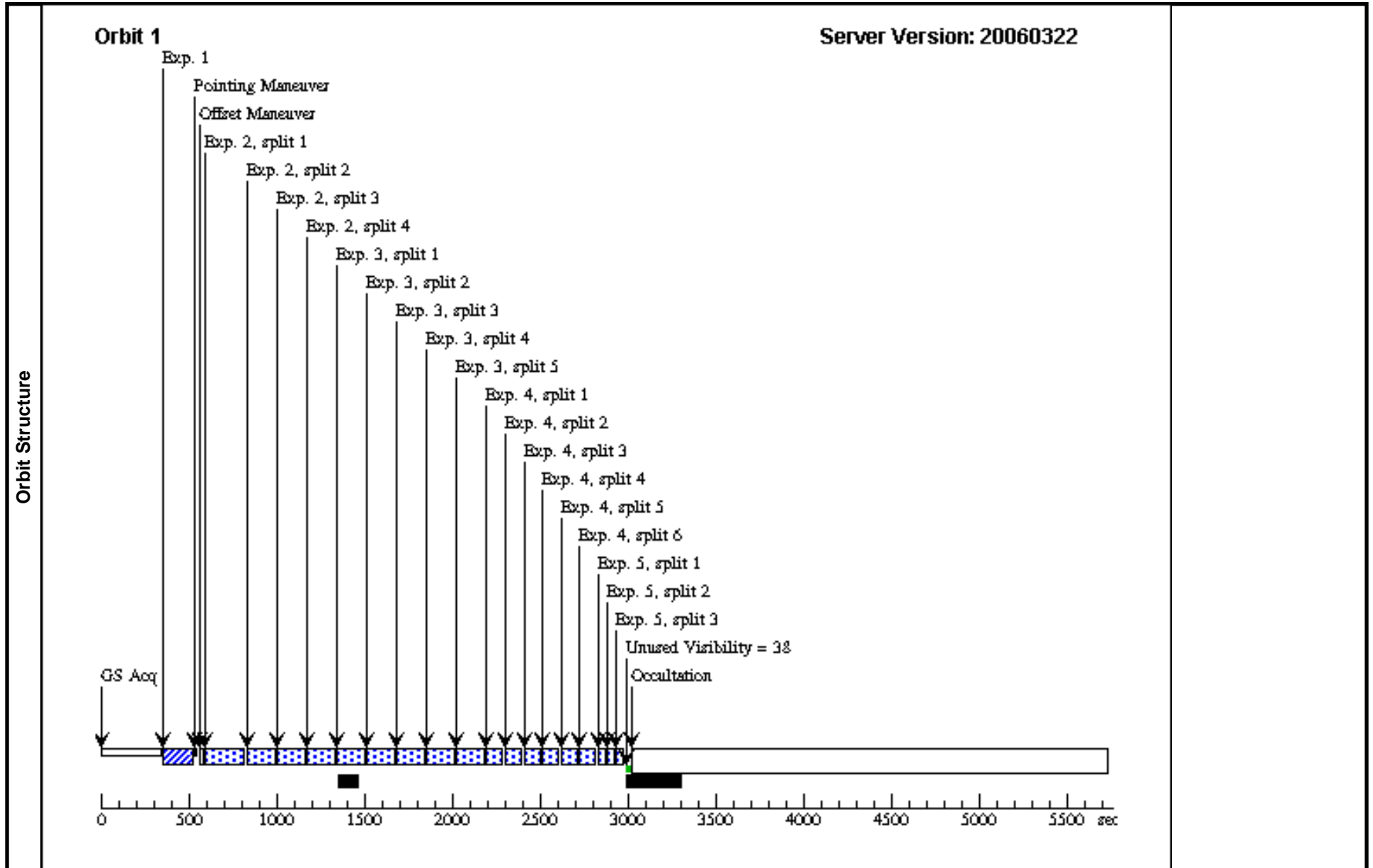
Visit		Proposal 10598, Visit 17 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 2.9D TO 3.1D FROM 16																																																												
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Proposal 10598 - Visit 18 - ACS Imaging of Fomalhaut: A Rosetta Stone for Debris Disks Sculpted by Planets

Wed May 17 01:04:54 GMT 2006

Visit	Proposal 10598, Visit 18										
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; AFTER 17 BY 1 H TO 24 H										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(5)	HD172167-PSF Alt Name1: VEGA Alt Name2: HR7001	RA: 18 36 56.3300 (279.2347083d) Dec: +38 47 1.17 (38.78366d) Equinox: J2000	Proper Motion RA: 0.0173s/yr Proper Motion Dec: 0.286"/yr Parallax: 0.12893" Epoch of Position: 2000.0	V=0.0	Coordinate Source: PPM_STAR_CATALOGUE					
<i>Comments: This target specification has coordinates and proper motions only from the PPM catalog.;Fomalhaut will be used as a PSF subtraction star for Vega, and vice versa. Vega and Fomalhaut must be observed in consecutive orbits, with calibration programs suppressed during Earth occultation to make sure the HRC 1.8" occulting spot is kept in a fixed position.;Vega has high proper motion, over 10 HRC pixels / yr. ;Vega's declination is +38.783691944</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	Vega_3.0_F 814W	(5) HD172167-PSF	ACS/HRC, ACQ, HRC-ACQ	F220W F606W				2.0 Secs [==>]	[1]	
	<i>Comments: The F220W-F606W filter combination is recommended for the HRC-ACQ.</i>										
	2		(5) HD172167-PSF	ACS/HRC, ACCUM, HRC-CORON3.0	F814W		CR-SPLIT=4; GAIN=2	USE OFFSET 18		480.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]
	3		(5) HD172167-PSF	ACS/HRC, ACCUM, HRC-CORON3.0	F814W		CR-SPLIT=5; GAIN=2	USE OFFSET 18		600.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)]	[1]
	4		(5) HD172167-PSF	ACS/HRC, ACCUM, HRC-CORON3.0	F814W		CR-SPLIT=6; GAIN=2	USE OFFSET 18		330.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
5		(5) HD172167-PSF	ACS/HRC, ACCUM, HRC-CORON3.0	F814W		CR-SPLIT=3; GAIN=2	USE OFFSET 18		0.3 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]	



Visit	Proposal 10598, Visit 19 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 265.0D TO 265.5 D; GROUP 19,20,21 WITHIN 2.5 Orbits										
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
(6)		HD216956 Alt Name1: FOMALHAUT Alt Name2: HR8728	RA: 22 57 39.0600 (344.4127500d) Dec: -29 37 20.10 (-29.62225d) Equinox: J2000	Proper Motion RA: 0.0255s/yr Proper Motion Dec: -0.165"/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Coordinate Source: PPM_STAR_CATALOGUE					
<i>Comments: This target specification has coordinates and proper motions only from the PPM catalog.;Fomalhaut will be used as a PSF subtraction star for Vega, and vice versa. Vega and Fomalhaut must be observed in consecutive orbits, with calibration programs suppressed during Earth occultation to make sure the HRC 1.8" occulting spot is kept in a fixed position.;Fomalhaut has high proper motion, over 10 HRC pixels per year.;Declination is -29.622236111</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	Fom_3.0_F4 35W	(6) HD216956	ACS/HRC, ACQ, HRC-ACQ	F220W F606W				3.5 Secs [==>]	[1]	
	<i>Comments: The F220W-F606W filter combination is recommended for the HRC-ACQ.</i>										
	2	Exposure 2	(6) HD216956	ACS/HRC, ACCUM, HRC-CORON3.0	F435W	CR-SPLIT=3; GAIN=2	USE OFFSET 19		2145.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]	
3		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON3.0	F435W	CR-SPLIT=NO; GAIN=2	USE OFFSET 19		0.6 Secs [==>]	[1]		
Orbit Structure	<div style="display: flex; justify-content: space-between;"> <div> <p>Orbit 1</p> </div> <div> <p>Server Version: 20060322</p> </div> </div>										
	<p>Timeline labels: GS Acq, Exp. 1, Pointing Maneuver, Offset Maneuver, Exp. 2, split 1, Exp. 2, split 2, Exp. 2, split 3, Exp. 3, Occultation, Unused Visibility = 24.</p>										

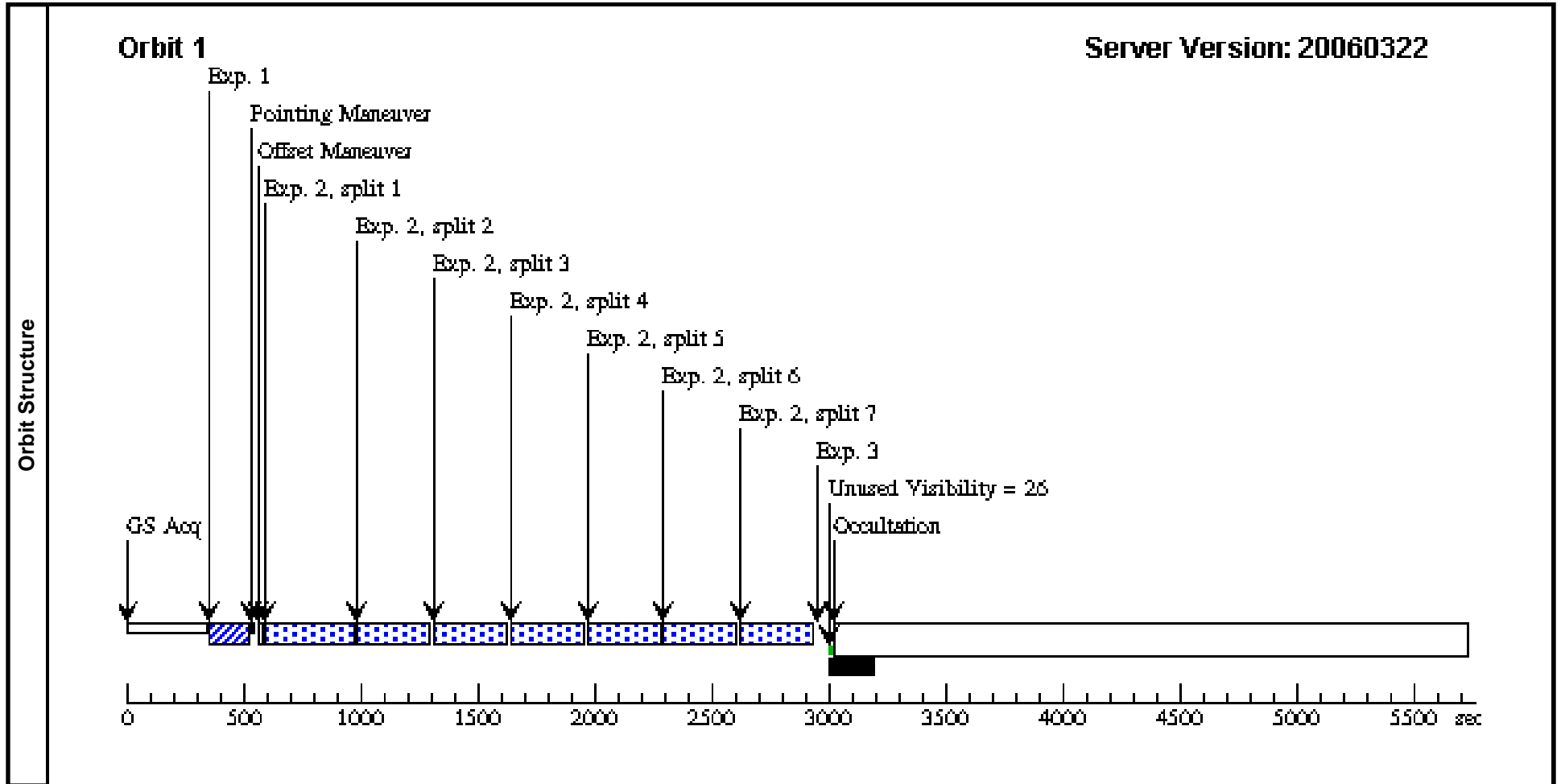
Visit	Proposal 10598, Visit 20 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 2.9D TO 3.1D FROM 19										
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
(6)		HD216956 Alt Name1: FOMALHAUT Alt Name2: HR8728	RA: 22 57 39.0600 (344.4127500d) Dec: -29 37 20.10 (-29.62225d) Equinox: J2000	Proper Motion RA: 0.0255s/yr Proper Motion Dec: -0.165"/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Coordinate Source: PPM_STAR_CATALOGUE					
<i>Comments: This target specification has coordinates and proper motions only from the PPM catalog.;Fomalhaut will be used as a PSF subtraction star for Vega, and vice versa. Vega and Fomalhaut must be observed in consecutive orbits, with calibration programs suppressed during Earth occultation to make sure the HRC 1.8" occulting spot is kept in a fixed position.;Fomalhaut has high proper motion, over 10 HRC pixels per year.;Declination is -29.622236111</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	Fom_3.0_F4 35W	(6) HD216956	ACS/HRC, ACQ, HRC-ACQ	F220W F606W				3.5 Secs [==>]	[1]	
	<i>Comments: The F220W-F606W filter combination is recommended for the HRC-ACQ.</i>										
	2		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON3.0	F435W	CR-SPLIT=3; GAIN=2	USE OFFSET 20		2145.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]	
3		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON3.0	F435W	CR-SPLIT=NO; GAIN=2	USE OFFSET 20		0.6 Secs [==>]	[1]		
Orbit Structure	<div style="display: flex; justify-content: space-between;"> <div> <p>Orbit 1</p> </div> <div> <p>Server Version: 20060322</p> </div> </div>										
	<p>Timeline labels: GS Acq, Exp. 1, Pointing Maneuver, Offset Maneuver, Exp. 2, split 1, Exp. 2, split 2, Exp. 2, split 3, Exp. 3, Occultation, Unused Visibility = 24.</p>										

Visit	Proposal 10598, Visit 21 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 2.9D TO 3.1D FROM 20										
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
(6)		HD216956 Alt Name1: FOMALHAUT Alt Name2: HR8728	RA: 22 57 39.0600 (344.4127500d) Dec: -29 37 20.10 (-29.62225d) Equinox: J2000	Proper Motion RA: 0.0255s/yr Proper Motion Dec: -0.165"/yr Parallax: 0.13008" Epoch of Position: 2000.0	V=1.16	Coordinate Source: PPM_STAR_CATALOGUE					
<i>Comments: This target specification has coordinates and proper motions only from the PPM catalog.;Fomalhaut will be used as a PSF subtraction star for Vega, and vice versa. Vega and Fomalhaut must be observed in consecutive orbits, with calibration programs suppressed during Earth occultation to make sure the HRC 1.8" occulting spot is kept in a fixed position.;Fomalhaut has high proper motion, over 10 HRC pixels per year.;Declination is -29.622236111</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	Fom_3.0_F4 35W	(6) HD216956	ACS/HRC, ACQ, HRC-ACQ	F220W F606W				3.5 Secs [==>]	[1]	
	<i>Comments: The F220W-F606W filter combination is recommended for the HRC-ACQ.</i>										
	2		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON3.0	F435W	CR-SPLIT=3; GAIN=2	USE OFFSET 21		2145.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]	
3		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON3.0	F435W	CR-SPLIT=NO; GAIN=2	USE OFFSET 21		0.6 Secs [==>]	[1]		
Orbit Structure	<div style="display: flex; justify-content: space-between;"> <div> <p>Orbit 1</p> </div> <div> <p>Server Version: 20060322</p> </div> </div>										
	<p>Timeline labels: GS Acq, Exp. 1, Pointing Maneuver, Offset Maneuver, Exp. 2, split 1, Exp. 2, split 2, Exp. 2, split 3, Exp. 3, Occultation, Unused Visibility = 24.</p>										

Proposal 10598 - Visit 22 - ACS Imaging of Fomalhaut: A Rosetta Stone for Debris Disks Sculpted by Planets

Wed May 17 01:04:55 GMT 2006

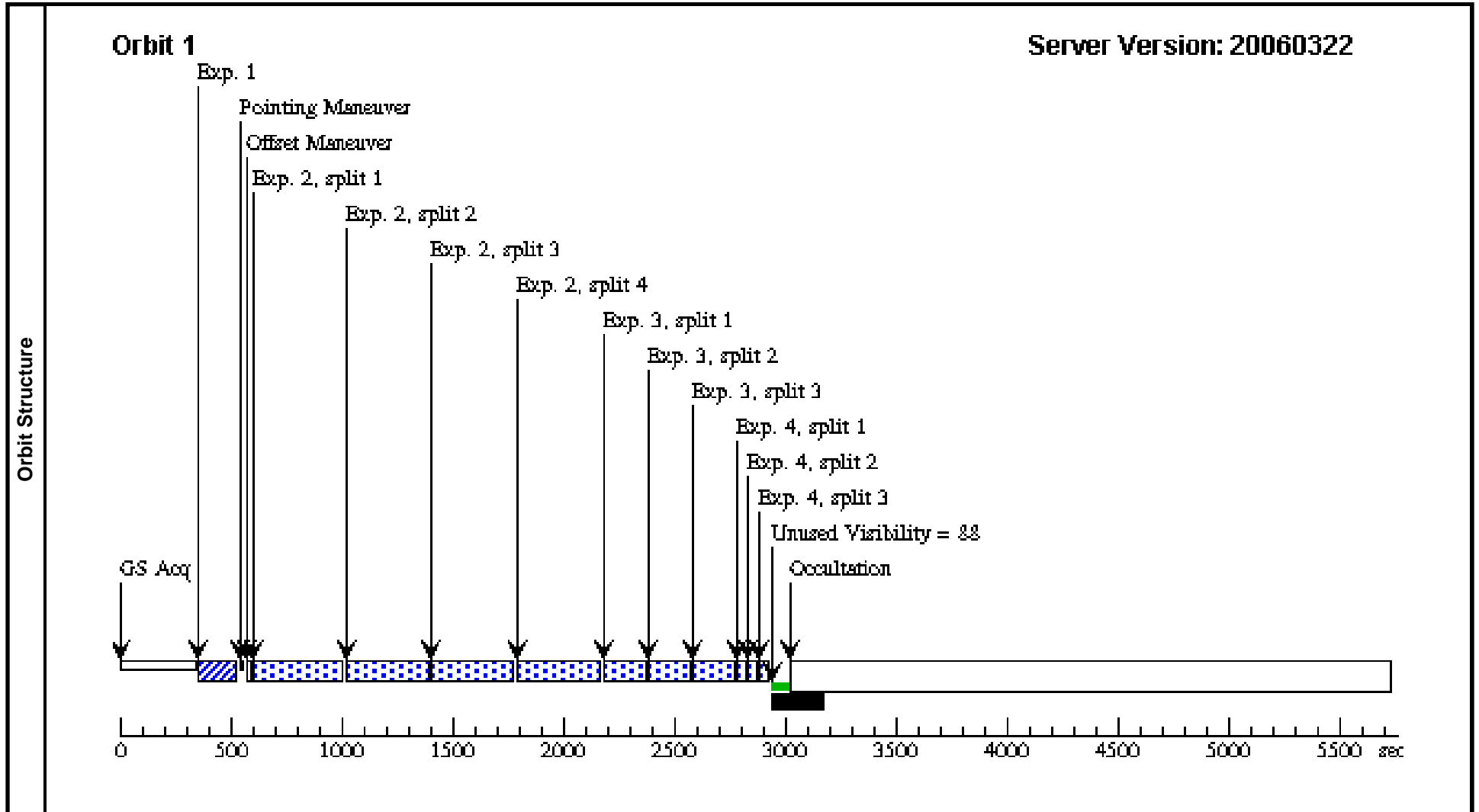
Visit		Proposal 10598, Visit 22 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; AFTER 21 BY 1 H TO 24 H																																																		
Fixed Targets		<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(5)</td> <td>HD172167-PSF</td> <td>RA: 18 36 56.3300 (279.2347083d)</td> <td>Proper Motion RA: 0.0173s/yr</td> <td>V=0.0</td> <td rowspan="3">Coordinate Source: PPM_STAR_CATALOGUE</td> </tr> <tr> <td></td> <td>Alt Name1: VEGA</td> <td>Dec: +38 47 1.17 (38.78366d)</td> <td>Proper Motion Dec: 0.286"/yr</td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: HR7001</td> <td>Equinox: J2000</td> <td>Parallax: 0.12893"</td> <td>Epoch of Position: 2000.0</td> </tr> </tbody> </table> <p><i>Comments: This target specification has coordinates and proper motions only from the PPM catalog.;Fomalhaut will be used as a PSF subtraction star for Vega, and vice versa. Vega and Fomalhaut must be observed in consecutive orbits, with calibration programs suppressed during Earth occultation to make sure the HRC 1.8" occulting spot is kept in a fixed position.;Vega has high proper motion, over 10 HRC pixels / yr. ;Vega's declination is +38.783691944</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(5)	HD172167-PSF	RA: 18 36 56.3300 (279.2347083d)	Proper Motion RA: 0.0173s/yr	V=0.0	Coordinate Source: PPM_STAR_CATALOGUE		Alt Name1: VEGA	Dec: +38 47 1.17 (38.78366d)	Proper Motion Dec: 0.286"/yr			Alt Name2: HR7001	Equinox: J2000	Parallax: 0.12893"	Epoch of Position: 2000.0																												
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Exposures		<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>Vega_3.0_F 435W</td> <td>(5) HD172167-PSF</td> <td>ACS/HRC, ACQ, HRC-ACQ</td> <td>F220W F606W</td> <td></td> <td></td> <td></td> <td>2.0 Secs [==>]</td> <td>[1]</td> </tr> <tr> <td colspan="10"><i>Comments: The F220W-F606W filter combination is recommended for the HRC-ACQ.</i></td> </tr> <tr> <td>2</td> <td></td> <td>(5) HD172167-PSF</td> <td>ACS/HRC, ACCUM, HRC-CORON3.0</td> <td>F435W</td> <td>CR-SPLIT=7; GAIN=2</td> <td>USE OFFSET 22</td> <td></td> <td>1960.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td></td> <td>(5) HD172167-PSF</td> <td>ACS/HRC, ACCUM, HRC-CORON3.0</td> <td>F435W</td> <td>CR-SPLIT=NO; GAIN=2</td> <td>USE OFFSET 22</td> <td></td> <td>0.3 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	Vega_3.0_F 435W	(5) HD172167-PSF	ACS/HRC, ACQ, HRC-ACQ	F220W F606W				2.0 Secs [==>]	[1]	<i>Comments: The F220W-F606W filter combination is recommended for the HRC-ACQ.</i>										2		(5) HD172167-PSF	ACS/HRC, ACCUM, HRC-CORON3.0	F435W	CR-SPLIT=7; GAIN=2	USE OFFSET 22		1960.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]	3		(5) HD172167-PSF	ACS/HRC, ACCUM, HRC-CORON3.0	F435W	CR-SPLIT=NO; GAIN=2	USE OFFSET 22		0.3 Secs [==>]	[1]
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit																																											
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<i>Comments: The F220W-F606W filter combination is recommended for the HRC-ACQ.</i>																																																				
2		(5) HD172167-PSF	ACS/HRC, ACCUM, HRC-CORON3.0	F435W	CR-SPLIT=7; GAIN=2	USE OFFSET 22		1960.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)] [==>(Split 7)]	[1]																																											
3		(5) HD172167-PSF	ACS/HRC, ACCUM, HRC-CORON3.0	F435W	CR-SPLIT=NO; GAIN=2	USE OFFSET 22		0.3 Secs [==>]	[1]																																											



Proposal 10598 - Visit 23 - ACS Imaging of Fomalhaut: A Rosetta Stone for Debris Disks Sculpted by Planets

Wed May 17 01:04:55 GMT 2006

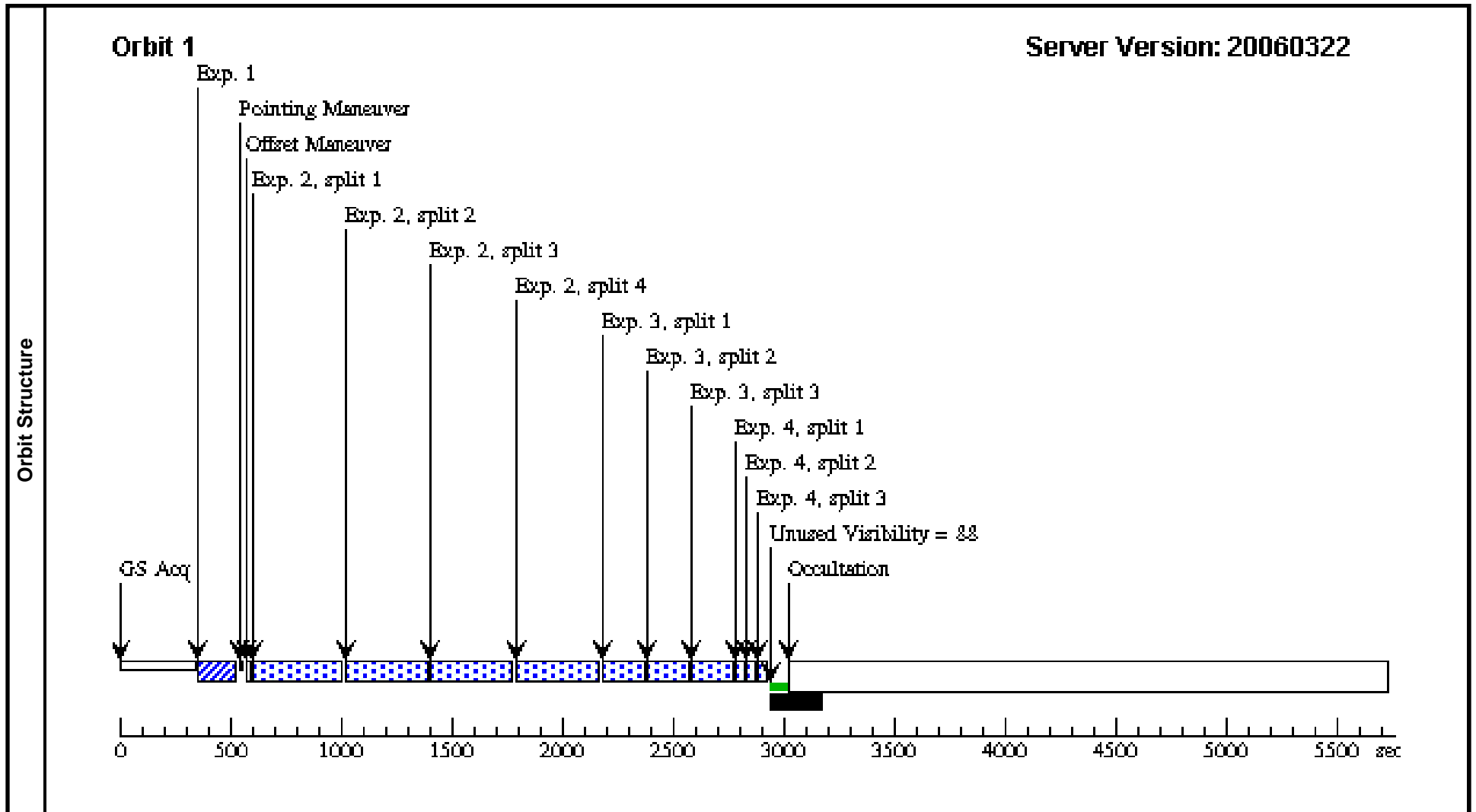
Visit	Proposal 10598, Visit 23 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 265.0D TO 265.5 D; GROUP 23,24,25 WITHIN 2.5 Orbits									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(6)	HD216956	RA: 22 57 39.0600 (344.4127500d)	Proper Motion RA: 0.0255s/yr	V=1.16	Coordinate Source: PPM_STAR_CATALOGUE			
		Alt Name1: FOMALHAUT	Dec: -29 37 20.10 (-29.62225d)	Proper Motion Dec: -0.165"/yr						
		Alt Name2: HR8728	Equinox: J2000	Parallax: 0.13008"						
				Epoch of Position: 2000.0						
	<i>Comments: This target specification has coordinates and proper motions only from the PPM catalog.;Fomalhaut will be used as a PSF subtraction star for Vega, and vice versa. Vega and Fomalhaut must be observed in consecutive orbits, with calibration programs suppressed during Earth occultation to make sure the HRC 1.8" occulting spot is kept in a fixed position.;Fomalhaut has high proper motion, over 10 HRC pixels per year.;Declination is -29.622236111</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Fom_3.0_F6 06W	(6) HD216956	ACS/HRC, ACQ, HRC-ACQ	F220W F606W				3.5 Secs [==>]	[1]
	<i>Comments: The F220W-F606W filter combination is recommended for the HRC-ACQ.</i>									
	2		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON3.0	F606W	CR-SPLIT=4; GAIN=2	USE OFFSET 23		1360.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]
	3	Exposure 2	(6) HD216956	ACS/HRC, ACCUM, HRC-CORON3.0	F606W	CR-SPLIT=3; GAIN=2	USE OFFSET 23		450.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]
4		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON3.0	F606W	CR-SPLIT=3; GAIN=2	USE OFFSET 23		0.6 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]	



Proposal 10598 - Visit 24 - ACS Imaging of Fomalhaut: A Rosetta Stone for Debris Disks Sculpted by Planets

Wed May 17 01:04:55 GMT 2006

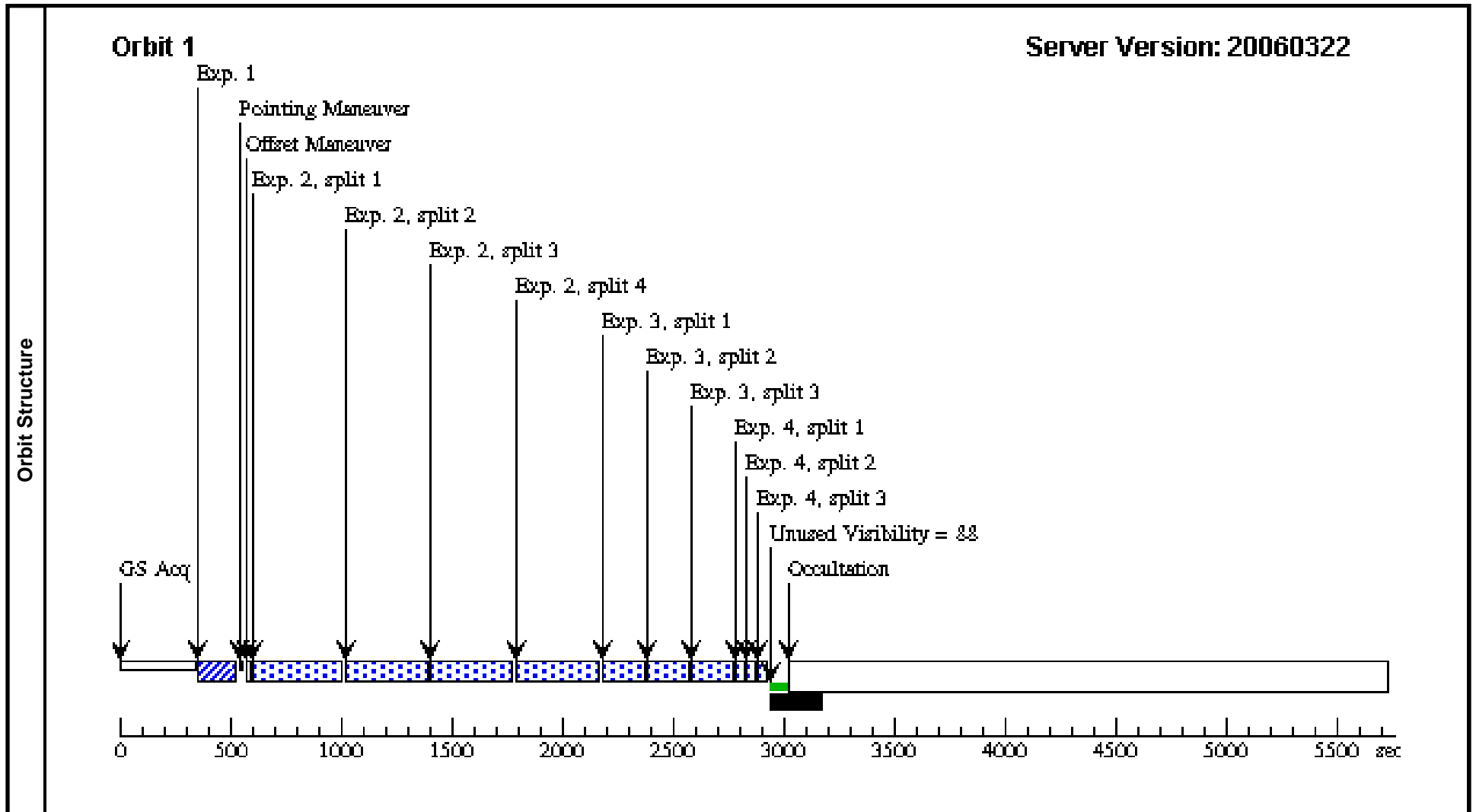
Visit	Proposal 10598, Visit 24 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 2.9D TO 3.1D FROM 23																																				
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(6)</td> <td>HD216956</td> <td>RA: 22 57 39.0600 (344.4127500d)</td> <td>Proper Motion RA: 0.0255s/yr</td> <td>V=1.16</td> <td rowspan="4">Coordinate Source: PPM_STAR_CATALOGUE</td> </tr> <tr> <td></td> <td>Alt Name1: FOMALHAUT</td> <td>Dec: -29 37 20.10 (-29.62225d)</td> <td>Proper Motion Dec: -0.165"/yr</td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: HR8728</td> <td>Equinox: J2000</td> <td>Parallax: 0.13008"</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Epoch of Position: 2000.0</td> <td></td> </tr> </tbody> </table> <p><i>Comments: This target specification has coordinates and proper motions only from the PPM catalog.;Fomalhaut will be used as a PSF subtraction star for Vega, and vice versa. Vega and Fomalhaut must be observed in consecutive orbits, with calibration programs suppressed during Earth occultation to make sure the HRC 1.8" occulting spot is kept in a fixed position.;Fomalhaut has high proper motion, over 10 HRC pixels per year.;Declination is -29.622236111</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(6)	HD216956	RA: 22 57 39.0600 (344.4127500d)	Proper Motion RA: 0.0255s/yr	V=1.16	Coordinate Source: PPM_STAR_CATALOGUE		Alt Name1: FOMALHAUT	Dec: -29 37 20.10 (-29.62225d)	Proper Motion Dec: -0.165"/yr			Alt Name2: HR8728	Equinox: J2000	Parallax: 0.13008"					Epoch of Position: 2000.0
#		Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																															
(6)	HD216956	RA: 22 57 39.0600 (344.4127500d)	Proper Motion RA: 0.0255s/yr	V=1.16	Coordinate Source: PPM_STAR_CATALOGUE																																
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit																											
	1	Fom_3.0_F6 06W	(6) HD216956	ACS/HRC, ACQ, HRC-ACQ	F220W F606W				3.5 Secs [==>]	[1]																											
	<i>Comments: The F220W-F606W filter combination is recommended for the HRC-ACQ.</i>																																				
	2		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON3.0	F606W	CR-SPLIT=4; GAIN=2	USE OFFSET 24		1360.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]																											
	3		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON3.0	F606W	CR-SPLIT=3; GAIN=2	USE OFFSET 24		450.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]																											
4		(6) HD216956	ACS/HRC, ACCUM, HRC-CORON3.0	F606W	CR-SPLIT=3; GAIN=2	USE OFFSET 24		0.6 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]																												



Proposal 10598 - Visit 25 - ACS Imaging of Fomalhaut: A Rosetta Stone for Debris Disks Sculpted by Planets

Wed May 17 01:04:57 GMT 2006

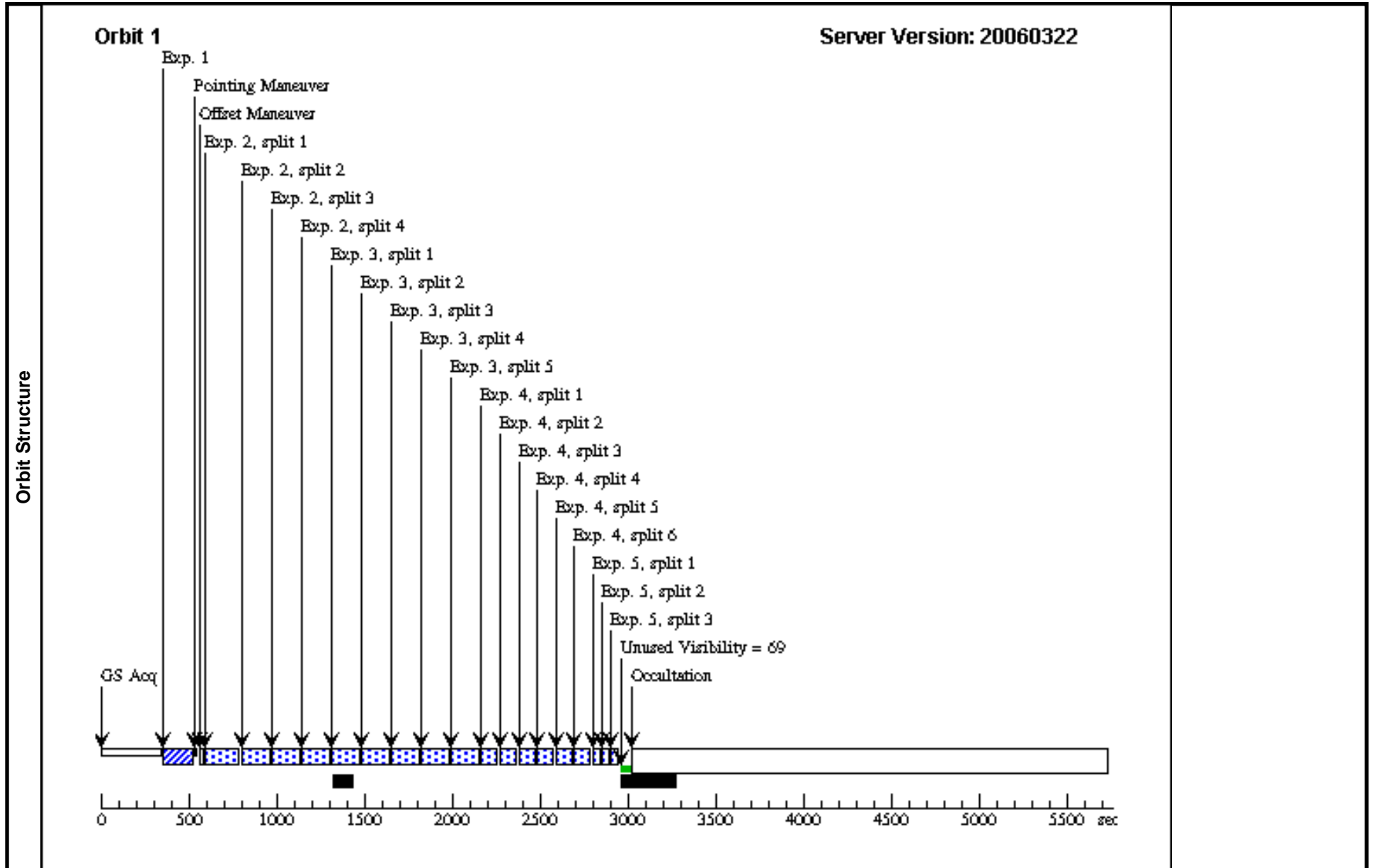
Visit		Proposal 10598, Visit 25 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 2.9D TO 3.1D FROM 24																																																												
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Proposal 10598 - Visit 26 - ACS Imaging of Fomalhaut: A Rosetta Stone for Debris Disks Sculpted by Planets

Wed May 17 01:04:57 GMT 2006

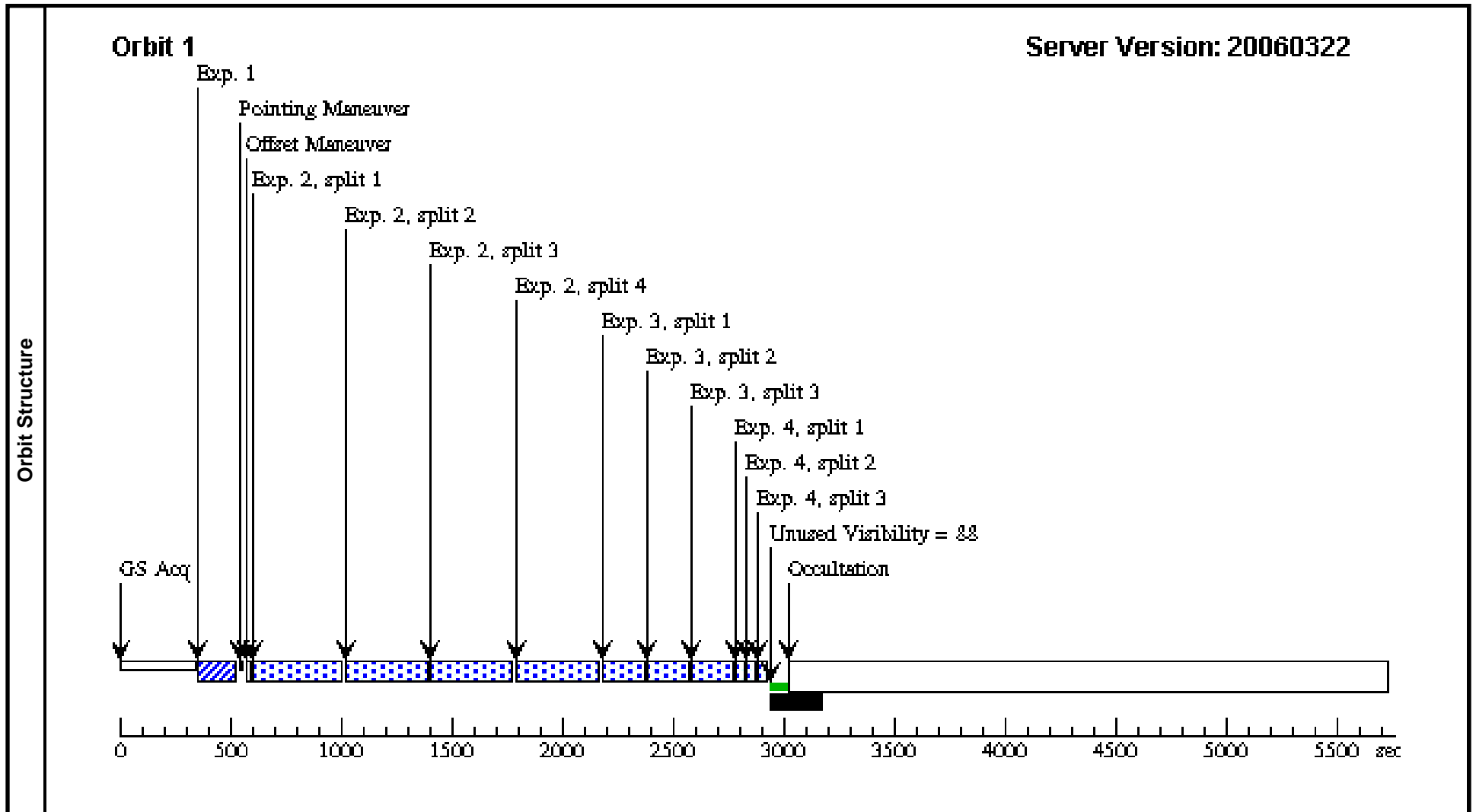
Visit	Proposal 10598, Visit 26 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; AFTER 25 BY 1 H TO 24 H																																																																						
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Proposal 10598 - Visit 27 - ACS Imaging of Fomalhaut: A Rosetta Stone for Debris Disks Sculpted by Planets

Wed May 17 01:04:58 GMT 2006

Visit	Proposal 10598, Visit 27 Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%; ORIENT 271.0D TO 271.5 D; GROUP 27,28 WITHIN 1.8 Orbits																																																																					
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Proposal 10598 - Visit 28 - ACS Imaging of Fomalhaut: A Rosetta Stone for Debris Disks Sculpted by Planets

Wed May 17 01:04:58 GMT 2006

Visit	Proposal 10598, Visit 28									
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/HRC Special Requirements: SCHED 100%									
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<i>Comments: This target specification has coordinates and proper motions only from the PPM catalog.;Fomalhaut will be used as a PSF subtraction star for Vega, and vice versa. Vega and Fomalhaut must be observed in consecutive orbits, with calibration programs suppressed during Earth occultation to make sure the HRC 1.8" occulting spot is kept in a fixed position.;Vega has high proper motion, over 10 HRC pixels / yr. ;Vega's declination is +38.783691944</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Vega_3.0_F 606W	(5) HD172167-PSF	ACS/HRC, ACQ, HRC-ACQ	F220W F606W				2.0 Secs [==>]	[1]
	<i>Comments: The F220W-F606W filter combination is recommended for the HRC-ACQ.</i>									
	2		(5) HD172167-PSF	ACS/HRC, ACCUM, HRC-CORON3.0	F606W		CR-SPLIT=4; GAIN=2	USE OFFSET 28	480.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]
	3		(5) HD172167-PSF	ACS/HRC, ACCUM, HRC-CORON3.0	F606W		CR-SPLIT=5; GAIN=2	USE OFFSET 28	600.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)]	[1]
	4		(5) HD172167-PSF	ACS/HRC, ACCUM, HRC-CORON3.0	F606W		CR-SPLIT=6; GAIN=2	USE OFFSET 28	330.0 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
5		(5) HD172167-PSF	ACS/HRC, ACCUM, HRC-CORON3.0	F606W		CR-SPLIT=3; GAIN=2	USE OFFSET 28	0.3 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)]	[1]	

