



17766 - Direct imaging of a catastrophic exosolar planetesimal collision in real time with HST/STIS

Cycle: 32, Proposal Category: GO
(Availability Mode: SUPPORTED)

INVESTIGATORS

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Dr. Paul George Kalas (PI) (Contact)	University of California - Berkeley
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Dr. Jason J. Wang (CoI)	Northwestern University
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Dr. Robert J De Rosa (CoI) (ESA Member)	European Southern Observatory - Chile

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	STIS/CCD	1	29-Aug-2025 11:00:16.0	yes
02	(1) NAME-FOMALHAUT	STIS/CCD	1	29-Aug-2025 11:00:17.0	yes
03	(1) NAME-FOMALHAUT	STIS/CCD	1	29-Aug-2025 11:00:18.0	yes
04	(1) NAME-FOMALHAUT	STIS/CCD	1	29-Aug-2025 11:00:19.0	yes
05	(1) NAME-FOMALHAUT	STIS/CCD	1	29-Aug-2025 11:00:20.0	yes
06	(1) NAME-FOMALHAUT	STIS/CCD	1	29-Aug-2025 11:00:22.0	yes
07	(1) NAME-FOMALHAUT	STIS/CCD	1	29-Aug-2025 11:00:23.0	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>
08	(1) NAME-FOMALHAUT	STIS/CCD	1	29-Aug-2025 11:00:24.0	yes
09	(1) NAME-FOMALHAUT	STIS/CCD	1	29-Aug-2025 11:00:25.0	yes
10	(1) NAME-FOMALHAUT	STIS/CCD	1	29-Aug-2025 11:00:26.0	yes
11	(1) NAME-FOMALHAUT	STIS/CCD	1	29-Aug-2025 11:00:28.0	yes
12	(1) NAME-FOMALHAUT	STIS/CCD	1	29-Aug-2025 11:00:29.0	yes
13	(1) NAME-FOMALHAUT	STIS/CCD	1	29-Aug-2025 11:00:30.0	yes
14	(1) NAME-FOMALHAUT	STIS/CCD	1	29-Aug-2025 11:00:31.0	yes
15	(1) NAME-FOMALHAUT	STIS/CCD	1	29-Aug-2025 11:00:32.0	yes
16	(1) NAME-FOMALHAUT	STIS/CCD	1	29-Aug-2025 11:00:34.0	yes
17	(1) NAME-FOMALHAUT	STIS/CCD	1	29-Aug-2025 11:00:35.0	yes
18	(1) NAME-FOMALHAUT	STIS/CCD	1	29-Aug-2025 11:00:36.0	yes

18 Total Orbits Used

ABSTRACT

A fundamental process in the formation and evolution of planetary systems involves constructive and destructive collisions. These are rarely observed in real time except in the solar system. Otherwise, collisional processes are invoked theoretically and numerically to explain observations. For exosolar planetary systems, dusty debris disks are the outcome of destructive collisional processes among planetesimals. In the Fomalhaut system, the HST-detected source known as Fomalhaut b has been interpreted as a direct imaging observation of a fresh dust cloud produced by a catastrophic planetesimal collision in 2004. Various studies examined its dimming over time, changes in morphology, and radial acceleration. Here we show observations of Fomalhaut made with HST/STIS in 2023 that reveal a new source similar in brightness to Fomalhaut b appearing along the inner edge of the dust belt at 133 au. If the catastrophic collision hypothesis is correct, Fomalhaut "b2" is predicted to expand in size due to radiation pressure and Keplerian shear, become fainter, and follow a trajectory that initially appears Keplerian and evolves to radial. We propose a multi-cycle HST/STIS campaign to measure changes in Fomalhaut b2's position, brightness, and morphology over three years, as well as to monitor for any new collisions. Because the phenomenon is extremely faint in the optical, HST is the only observatory capable of tracking the evolution of a catastrophic planetesimal collision in real time. The findings will provide exceptionally rare empirical data for distinguishing between different theories on the dynamics of Fomalhaut's planetary system and collisional processes in general.

OBSERVING DESCRIPTION

The primary goal is to detect the faint point source Fomalhaut b2 located at PA=311 degrees at 13" separation. The observations are similar to GO-17139.

Within each orbit (one visit = one orbit), we acquire Fomalhaut behind WEDGE2.5 for deep exposures (~25 seconds). Knowledge of previous Fomalhaut STIS data allows us to orient the telescope such that Fomalhaut b2 will land in an azimuthal region that is relatively clean from residual scattered light artifacts.

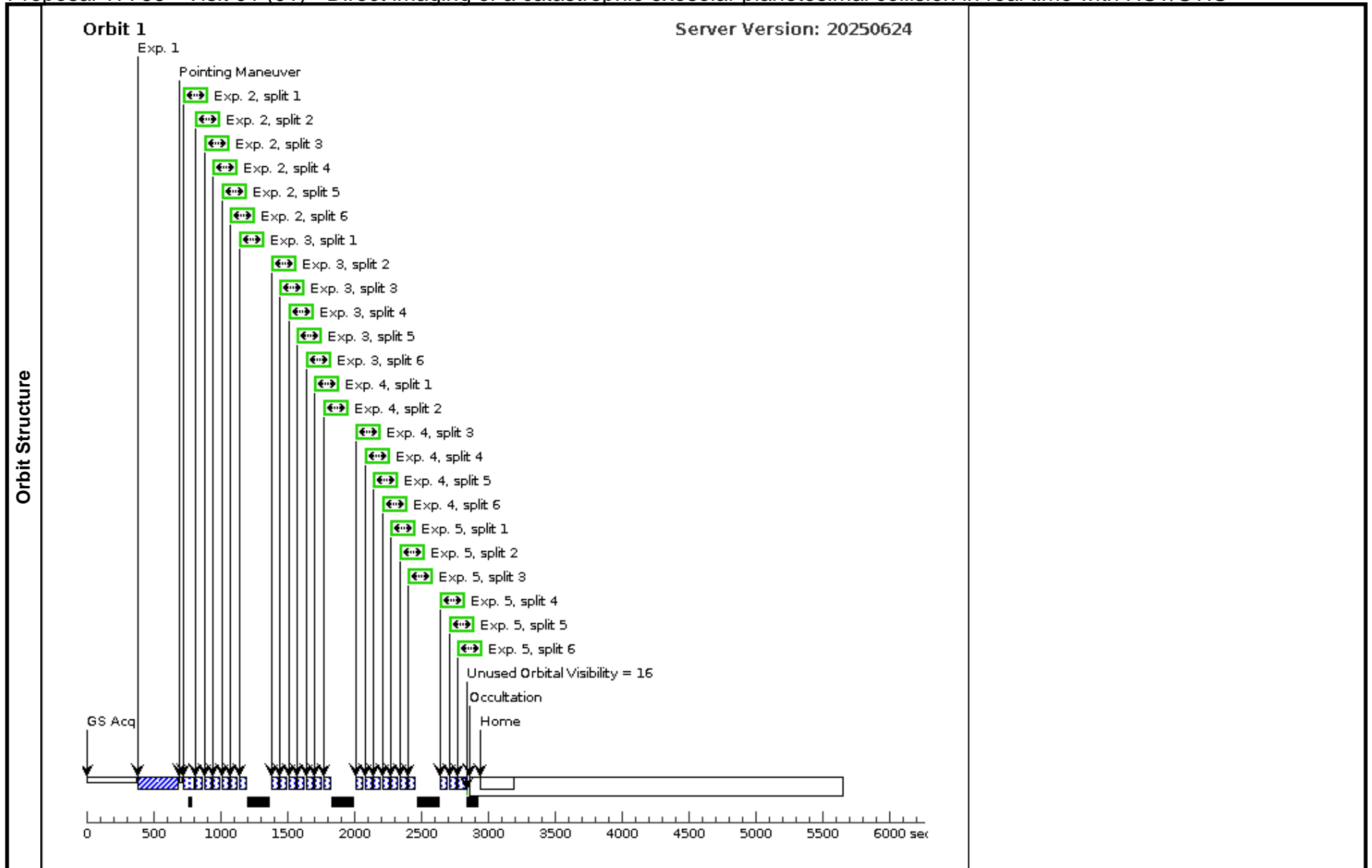
Each of 18 orbits is scheduled at a different ORIENT in order to enable data processing and PSF subtraction using angular differential imaging.

Effective PSF subtraction requires that the observations are executed contiguously without interruption. We achieve this by breaking up the 18 orbits (Visits) into three Sequences of six orbits (Visits) per Sequence. If this causes a scheduling problem, we can reduce the Sequences so that they include only five orbits or four orbits. However, all 18 orbits should be executed as close in time as possible. Sequences are used instead of GROUP WITHINs because we want adjacent orbits to have a large separation in angle.

Proposal 17766 - Visit 01 (01) - Direct imaging of a catastrophic exosolar planetesimal collision in real time with HST/STIS

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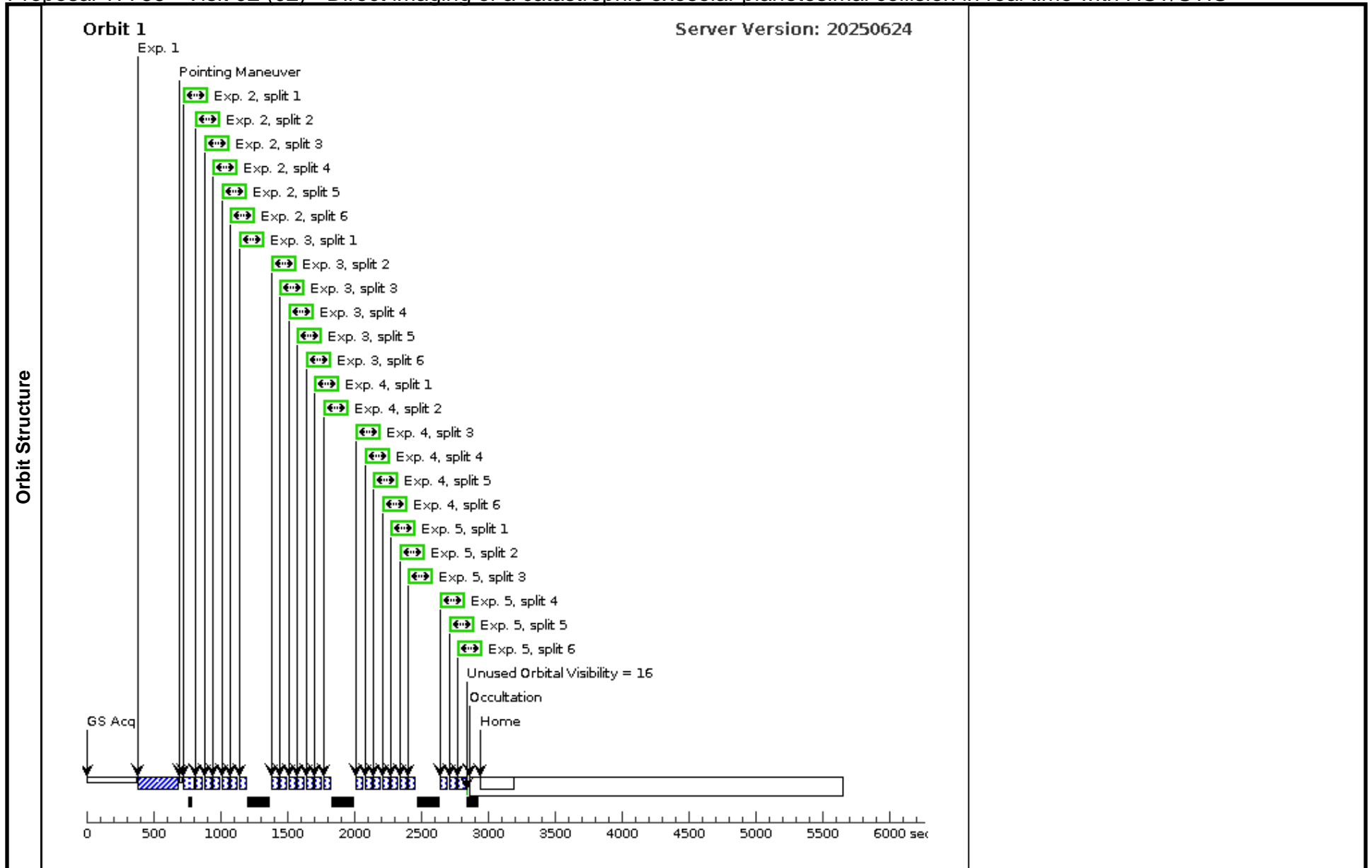
Visit	Proposal 17766, Visit 01 (01), implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; ORIENT 283.4D TO 283.4 D; SEQ 01.02.03.04.05.06 WITHIN 5.8 Orbits									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT Alt Name1: ALFA-PSA	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 0.32895 arcsec/yr Proper Motion Dec: -0.16467 arcsec/yr Parallax: 0.12981" Epoch of Position: 2000.0	V=1.16	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[A4-A9 V-IV, CIRCUMSTELLAR MATTER, DISK, EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ	(1) NAME-FOMALHAUT	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARI O BASE1O3		2 Secs (2 Secs) [==>]	[1]
	2		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
	3		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
	4		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
	5		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]



Proposal 17766 - Visit 02 (02) - Direct imaging of a catastrophic exosolar planetesimal collision in real time with HST/STIS

Fri Aug 29 15:00:37 GMT 2025

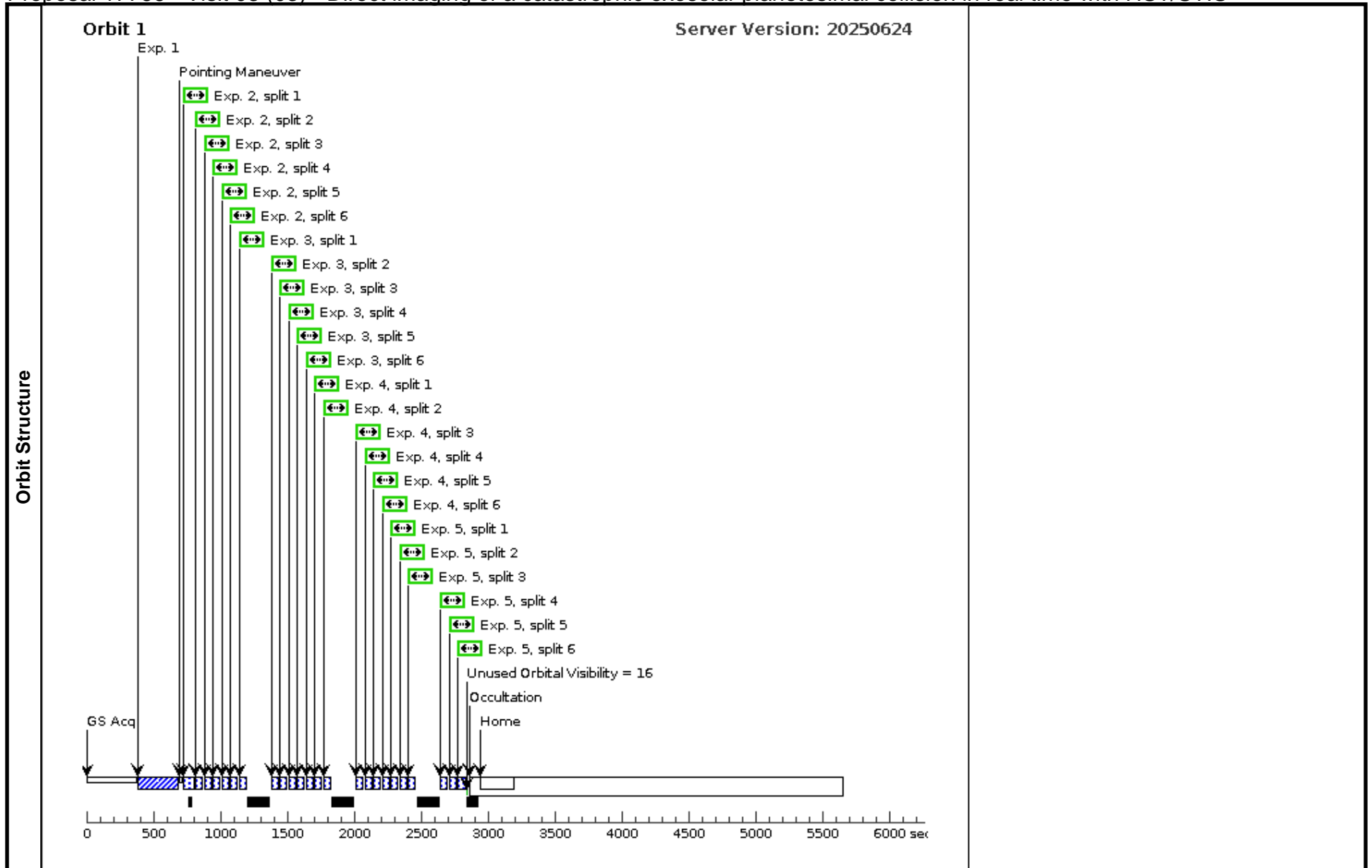
Visit	Proposal 17766, Visit 02 (02), implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; ORIENT 287.2D TO 287.2 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT Alt Name1: ALFA-PSA	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 0.32895 arcsec/yr Proper Motion Dec: -0.16467 arcsec/yr Parallax: 0.12981" Epoch of Position: 2000.0	V=1.16	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[A4-A9 V-IV, CIRCUMSTELLAR MATTER, DISK, EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ	(1) NAME-FOMALHAUT	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARI O BASE1O3		2 Secs (2 Secs) [==>]	[1]
	2		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
	3		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
	4		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
	5		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]



Proposal 17766 - Visit 03 (03) - Direct imaging of a catastrophic exosolar planetesimal collision in real time with HST/STIS

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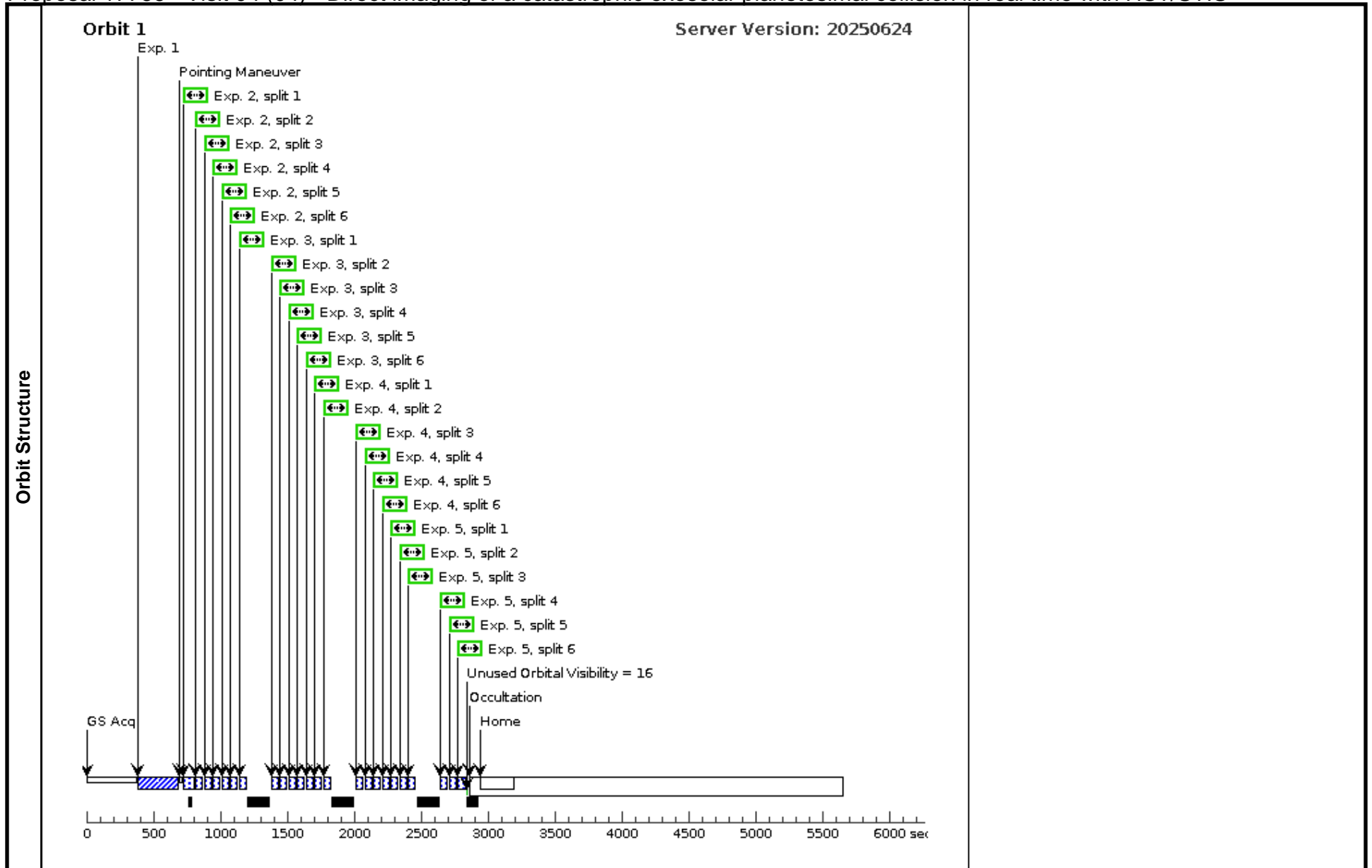
Visit	Proposal 17766, Visit 03 (03), implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; ORIENT 281.5D TO 281.5 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT Alt Name1: ALFA-PSA	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 0.32895 arcsec/yr Proper Motion Dec: -0.16467 arcsec/yr Parallax: 0.12981" Epoch of Position: 2000.0	V=1.16	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[A4-A9 V-IV, CIRCUMSTELLAR MATTER, DISK, EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ	(1) NAME-FOMALHAUT	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARI O BASE1O3		2 Secs (2 Secs) [==>]	[1]
	2		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
	3		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
	4		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
	5		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]



Proposal 17766 - Visit 04 (04) - Direct imaging of a catastrophic exosolar planetesimal collision in real time with HST/STIS

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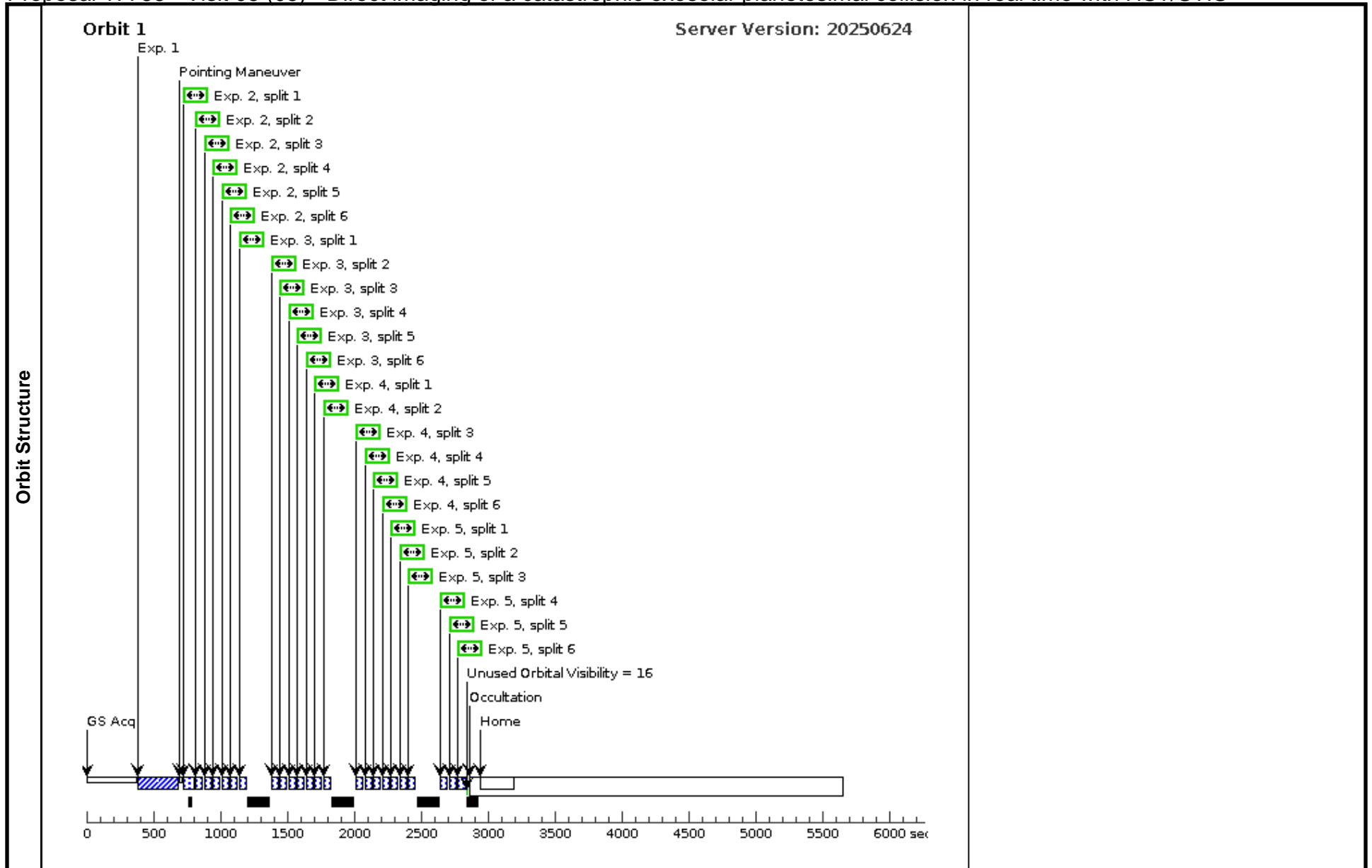
Visit	Proposal 17766, Visit 04 (04), implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; ORIENT 289.1D TO 289.1 D									
	Fixed Targets	# Name Target Coordinates Targ. Coord. Corrections Fluxes Miscellaneous (1) NAME-FOMALHAUT RA: 22 57 39.0463 (344.4126929d) Proper Motion RA: 0.32895 arcsec/yr V=1.16 Reference Frame: ICRS Alt Name1: ALFA-PSA Dec: -29 37 20.05 (-29.62224d) Proper Motion Dec: -0.16467 arcsec/yr Equinox: J2000 Parallax: 0.12981" Epoch of Position: 2000.0 Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[A4-A9 V-IV, CIRCUMSTELLAR MATTER, DISK, EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM]								
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ	(1) NAME-FOMAL HAUT	STIS/CCD, ACQ, F25ND5	MIRROR			GS ACQ SCENARI O BASE1O3	2 Secs (2 Secs)	
									[==>]	[1]
	2		(1) NAME-FOMAL HAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
	3		(1) NAME-FOMAL HAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	
4		(1) NAME-FOMAL HAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)		
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	
5		(1) NAME-FOMAL HAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)		
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	



Proposal 17766 - Visit 05 (05) - Direct imaging of a catastrophic exosolar planetesimal collision in real time with HST/STIS

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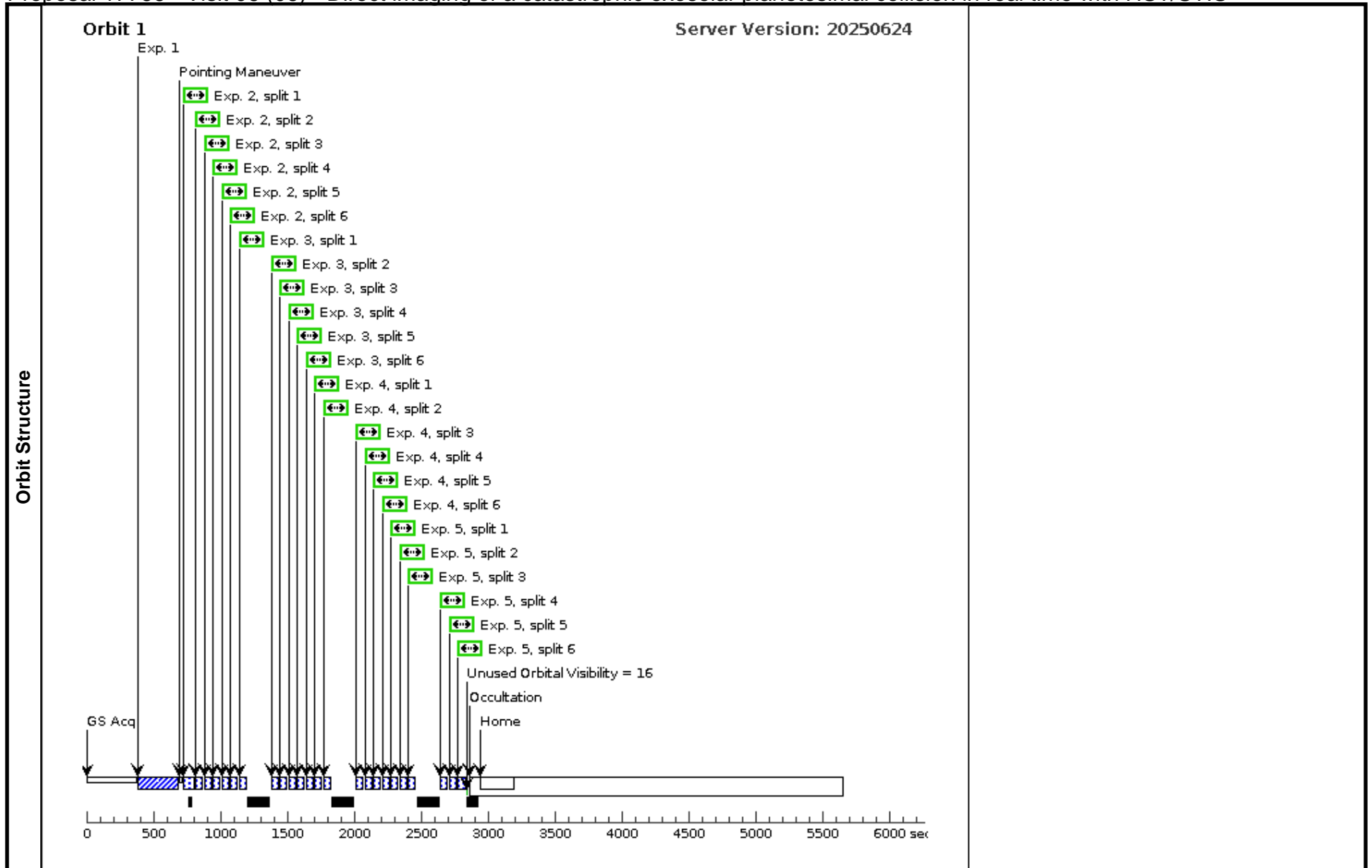
Visit	Proposal 17766, Visit 05 (05), implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; ORIENT 285.3D TO 285.3 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT Alt Name1: ALFA-PSA	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 0.32895 arcsec/yr Proper Motion Dec: -0.16467 arcsec/yr Parallax: 0.12981" Epoch of Position: 2000.0	V=1.16	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[A4-A9 V-IV, CIRCUMSTELLAR MATTER, DISK, EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ	(1) NAME-FOMALHAUT	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARI O BASE1O3		2 Secs (2 Secs) [==>]	[1]
	2		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
	3		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
	4		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
	5		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]



Proposal 17766 - Visit 06 (06) - Direct imaging of a catastrophic exosolar planetesimal collision in real time with HST/STIS

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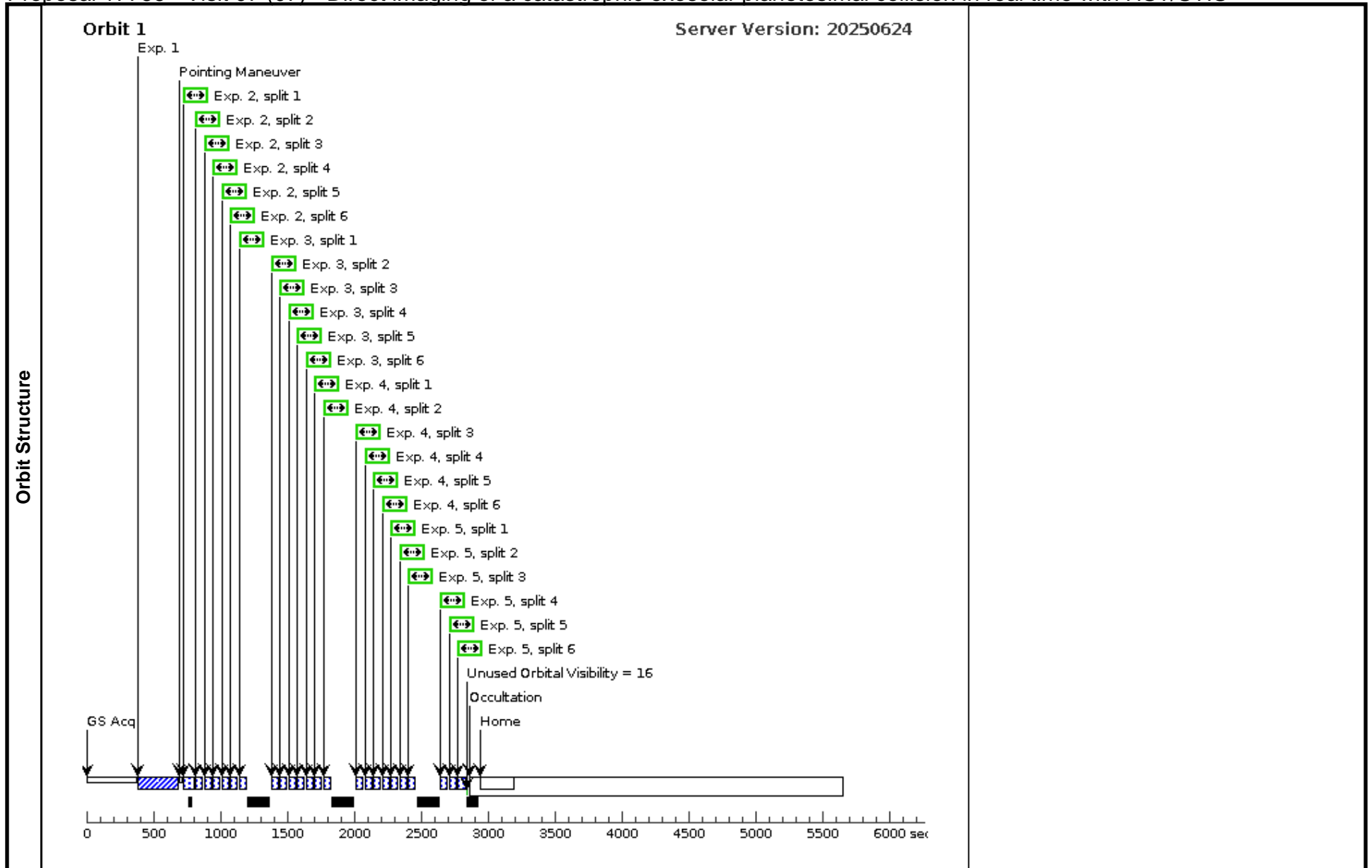
Visit	Proposal 17766, Visit 06 (06), implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; ORIENT 291.0D TO 291.0 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT Alt Name1: ALFA-PSA	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 0.32895 arcsec/yr Proper Motion Dec: -0.16467 arcsec/yr Parallax: 0.12981" Epoch of Position: 2000.0	V=1.16	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[A4-A9 V-IV, CIRCUMSTELLAR MATTER, DISK, EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ	(1) NAME-FOMALHAUT	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARI O BASE1O3		2 Secs (2 Secs)	
									[==>]	[1]
	2		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
	3		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	
	4		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	
	5		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	



Proposal 17766 - Visit 07 (07) - Direct imaging of a catastrophic exosolar planetesimal collision in real time with HST/STIS

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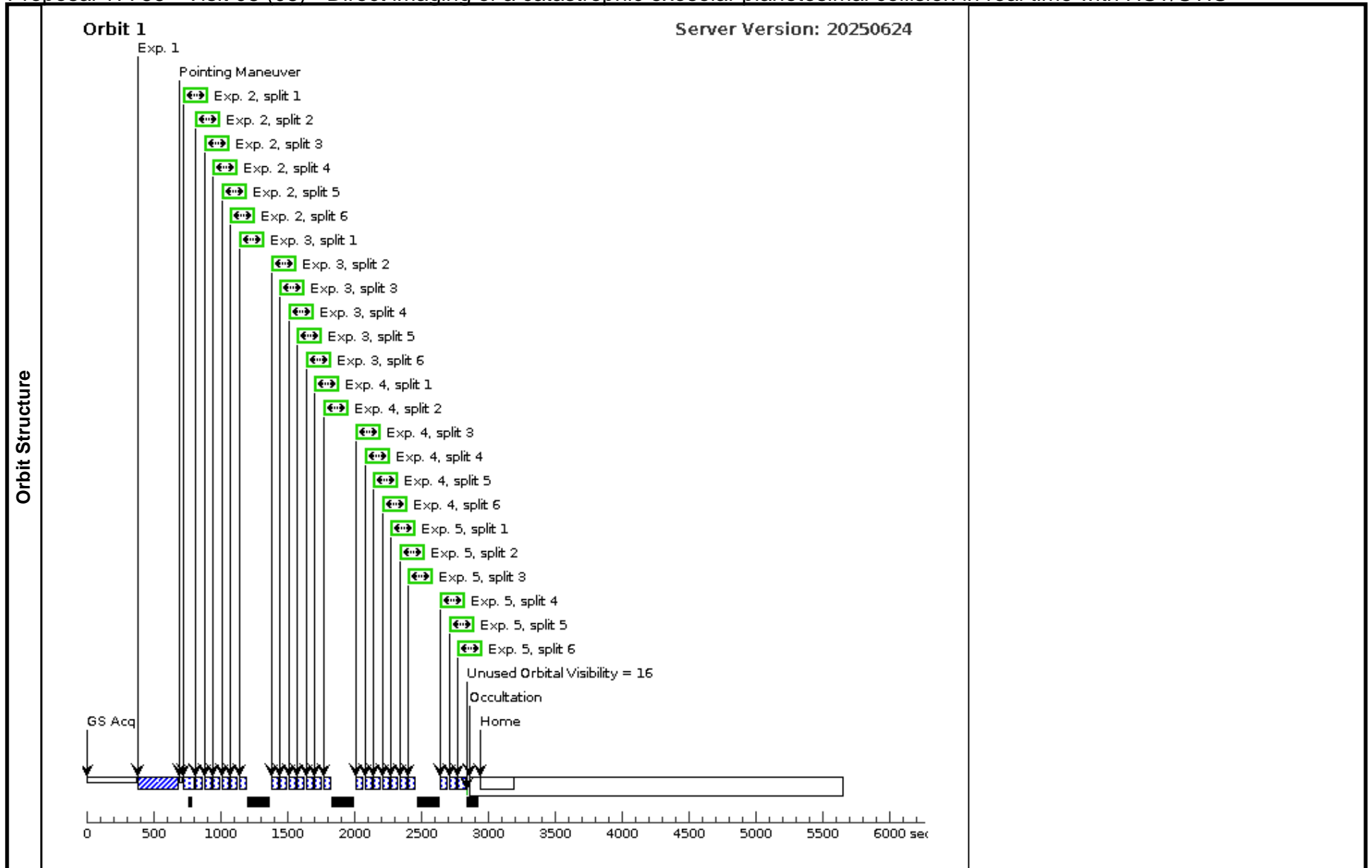
Visit	Proposal 17766, Visit 07 (07) Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; ORIENT 283.9D TO 283.9 D; SEQ 07,08,09,10,11,12 WITHIN 5.8 Orbits																							
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>NAME-FOMALHAUT Alt Name1: ALFA-PSA</td> <td>RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000</td> <td>Proper Motion RA: 0.32895 arcsec/yr Proper Motion Dec: -0.16467 arcsec/yr Parallax: 0.12981" Epoch of Position: 2000.0</td> <td>V=1.16</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"> <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[A4-A9 V-IV, CIRCUMSTELLAR MATTER, DISK, EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM] </td> </tr> </tbody> </table>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	NAME-FOMALHAUT Alt Name1: ALFA-PSA	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 0.32895 arcsec/yr Proper Motion Dec: -0.16467 arcsec/yr Parallax: 0.12981" Epoch of Position: 2000.0	V=1.16	Reference Frame: ICRS	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[A4-A9 V-IV, CIRCUMSTELLAR MATTER, DISK, EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM]				
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																			
(1)	NAME-FOMALHAUT Alt Name1: ALFA-PSA	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 0.32895 arcsec/yr Proper Motion Dec: -0.16467 arcsec/yr Parallax: 0.12981" Epoch of Position: 2000.0	V=1.16	Reference Frame: ICRS																			
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[A4-A9 V-IV, CIRCUMSTELLAR MATTER, DISK, EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM]																								
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit														
	1	ACQ	(1) NAME-FOMALHAUT	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARI O BASE1O3		2 Secs (2 Secs) [==>]	[1]														
	2		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]														
	3		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]														
	4		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]														
	5		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]														



Proposal 17766 - Visit 08 (08) - Direct imaging of a catastrophic exosolar planetesimal collision in real time with HST/STIS

Fri Aug 29 15:00:37 GMT 2025

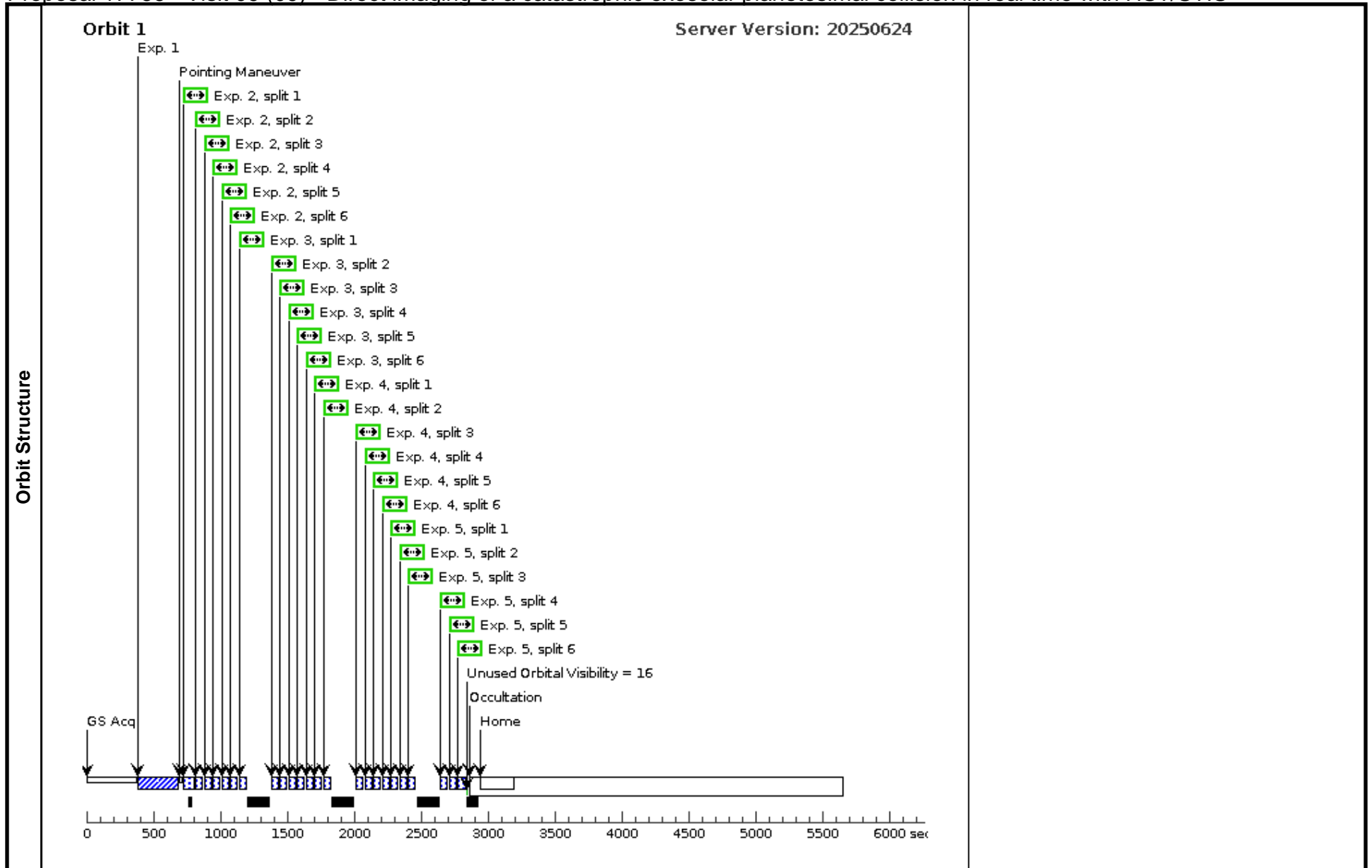
Visit	Proposal 17766, Visit 08 (08) Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; ORIENT 287.7D TO 287.7 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT Alt Name1: ALFA-PSA	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 0.32895 arcsec/yr Proper Motion Dec: -0.16467 arcsec/yr Parallax: 0.12981" Epoch of Position: 2000.0	V=1.16	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[A4-A9 V-IV, CIRCUMSTELLAR MATTER, DISK, EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ	(1) NAME-FOMALHAUT	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARI O BASE1O3		2 Secs (2 Secs)	
									[==>]	[1]
	2		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
	3		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	
	4		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	
	5		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	



Proposal 17766 - Visit 09 (09) - Direct imaging of a catastrophic exosolar planetesimal collision in real time with HST/STIS

Fri Aug 29 15:00:37 GMT 2025

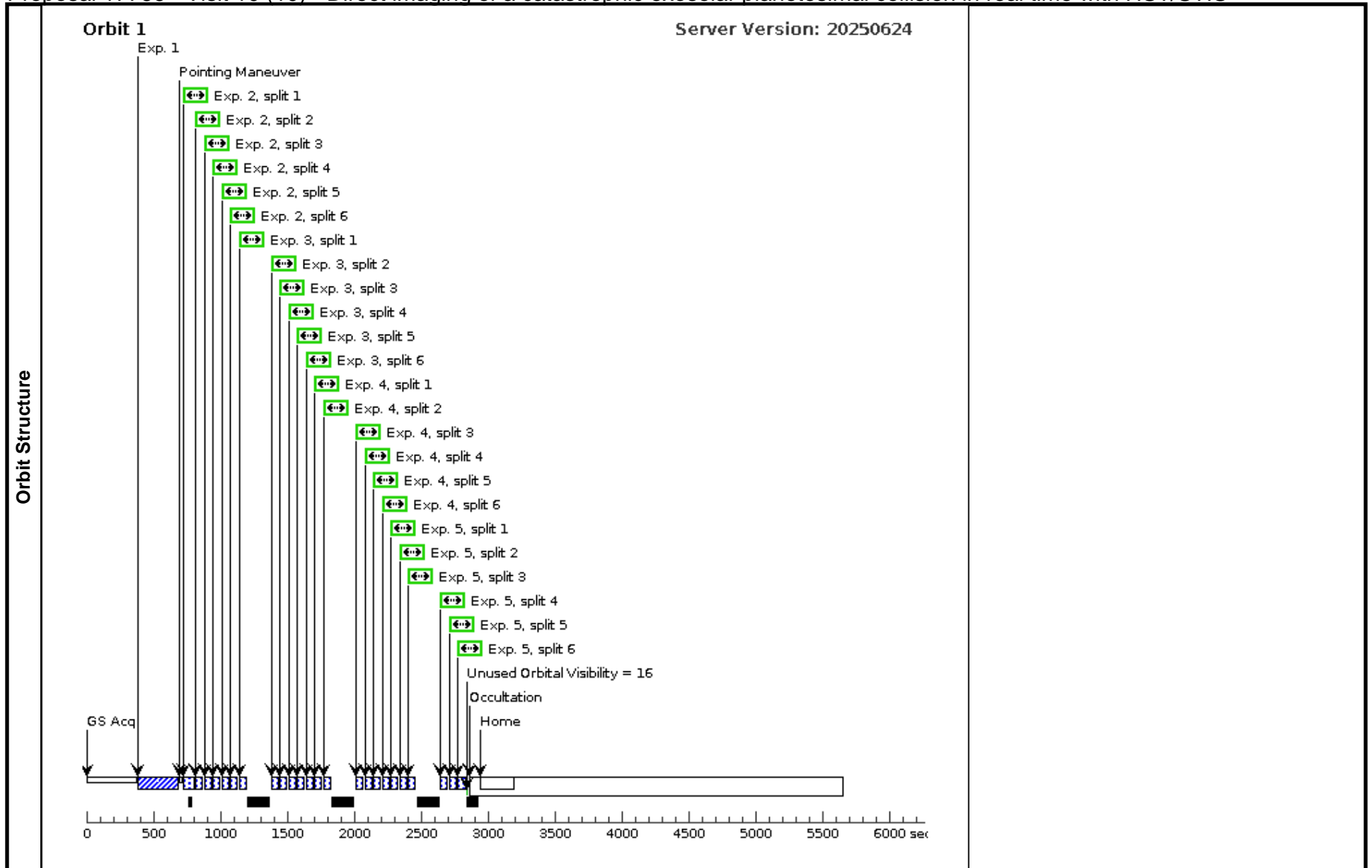
Visit	Proposal 17766, Visit 09 (09) Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; ORIENT 282.0D TO 282.0 D									
	Fixed Targets	# Name Target Coordinates Targ. Coord. Corrections Fluxes Miscellaneous (1) NAME-FOMALHAUT RA: 22 57 39.0463 (344.4126929d) Proper Motion RA: 0.32895 arcsec/yr V=1.16 Reference Frame: ICRS Alt Name1: ALFA-PSA Dec: -29 37 20.05 (-29.62224d) Proper Motion Dec: -0.16467 arcsec/yr Equinox: J2000 Parallax: 0.12981" Epoch of Position: 2000.0 Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[A4-A9 V-IV, CIRCUMSTELLAR MATTER, DISK, EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM]								
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ	(1) NAME-FOMAL HAUT	STIS/CCD, ACQ, F25ND5	MIRROR			GS ACQ SCENARI O BASE1O3	2 Secs (2 Secs) [==>]	[1]
	2		(1) NAME-FOMAL HAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
	3		(1) NAME-FOMAL HAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
	4		(1) NAME-FOMAL HAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
	5		(1) NAME-FOMAL HAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]



Proposal 17766 - Visit 10 (10) - Direct imaging of a catastrophic exosolar planetesimal collision in real time with HST/STIS

Fri Aug 29 15:00:37 GMT 2025

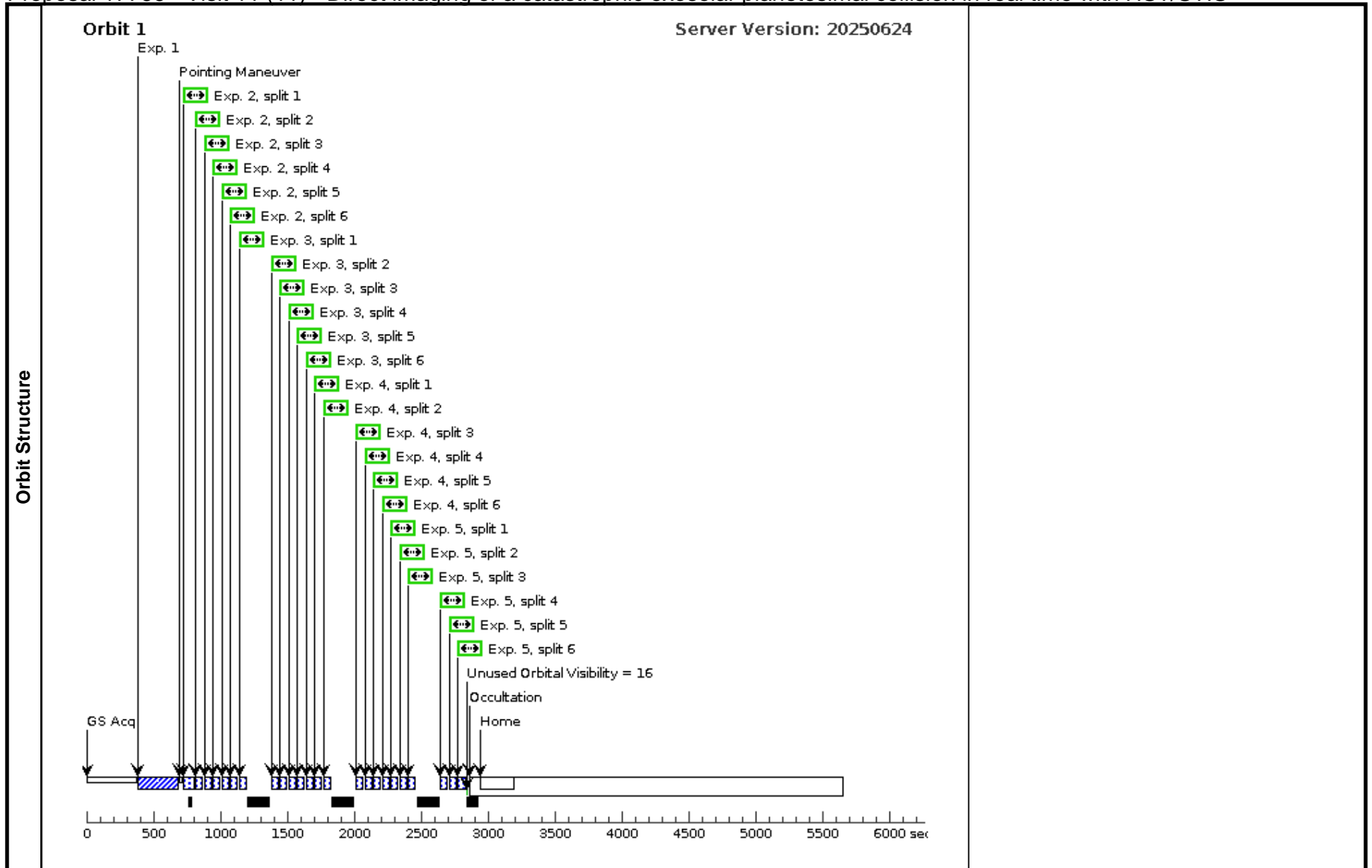
Visit	Proposal 17766, Visit 10 (10) Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; ORIENT 289.6D TO 289.6 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT Alt Name1: ALFA-PSA	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 0.32895 arcsec/yr Proper Motion Dec: -0.16467 arcsec/yr Parallax: 0.12981" Epoch of Position: 2000.0	V=1.16	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[A4-A9 V-IV, CIRCUMSTELLAR MATTER, DISK, EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ	(1) NAME-FOMALHAUT	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARI O BASE1O3		2 Secs (2 Secs)	
									[==>]	[1]
	2		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
	3		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	
	4		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	
	5		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	



Proposal 17766 - Visit 11 (11) - Direct imaging of a catastrophic exosolar planetesimal collision in real time with HST/STIS

Fri Aug 29 15:00:37 GMT 2025

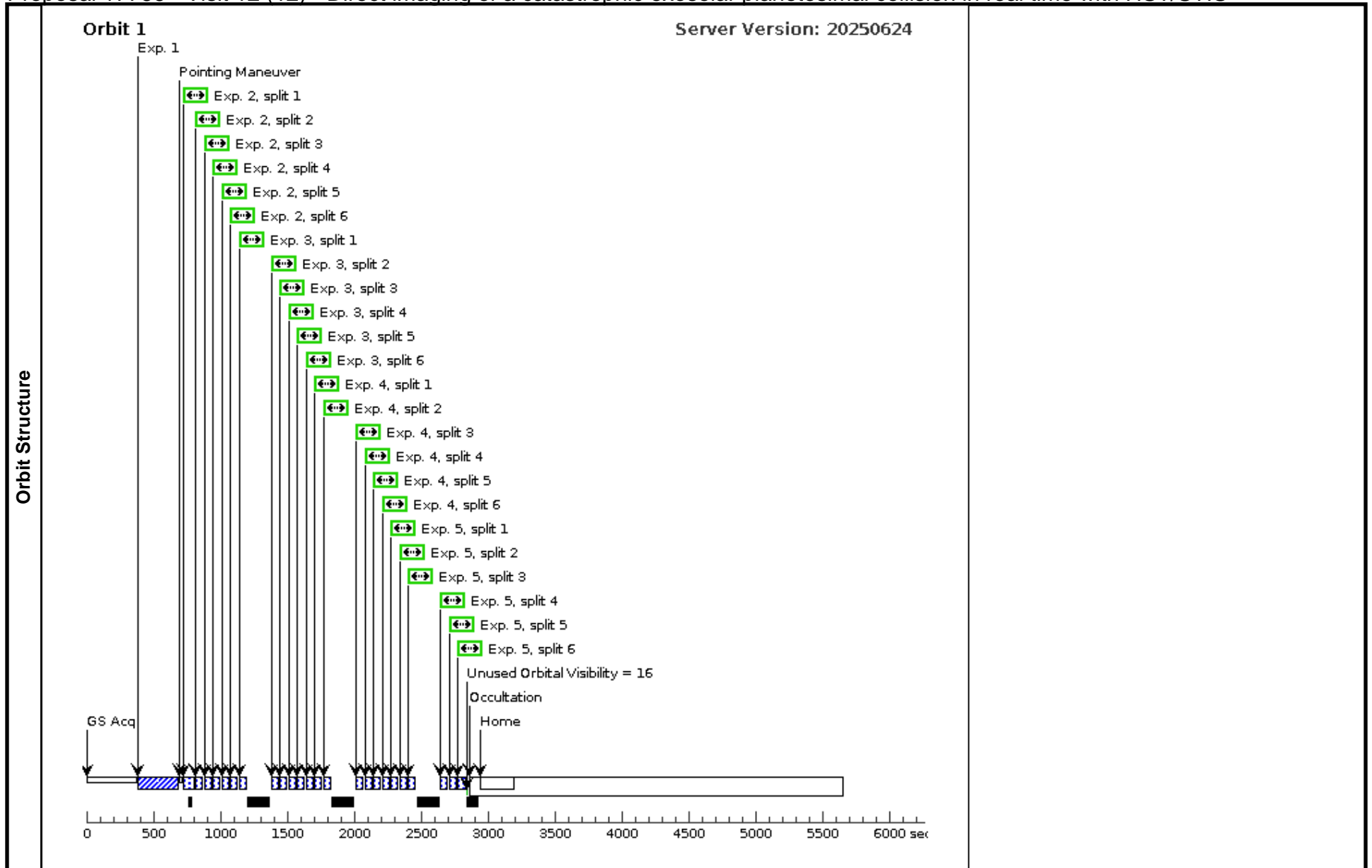
Visit	Proposal 17766, Visit 11 (11)									
	Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; ORIENT 285.8D TO 285.8 D									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NAME-FOMALHAUT Alt Name1: ALFA-PSA	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 0.32895 arcsec/yr Proper Motion Dec: -0.16467 arcsec/yr Parallax: 0.12981" Epoch of Position: 2000.0	V=1.16	Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[A4-A9 V-IV, CIRCUMSTELLAR MATTER, DISK, EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ	(1) NAME-FOMALHAUT	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARI O BASE1O3		2 Secs (2 Secs)	
									[==>]	[1]
	2		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
	3		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	
4		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)		
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	
5		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)		
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	



Proposal 17766 - Visit 12 (12) - Direct imaging of a catastrophic exosolar planetesimal collision in real time with HST/STIS

Fri Aug 29 15:00:38 GMT 2025

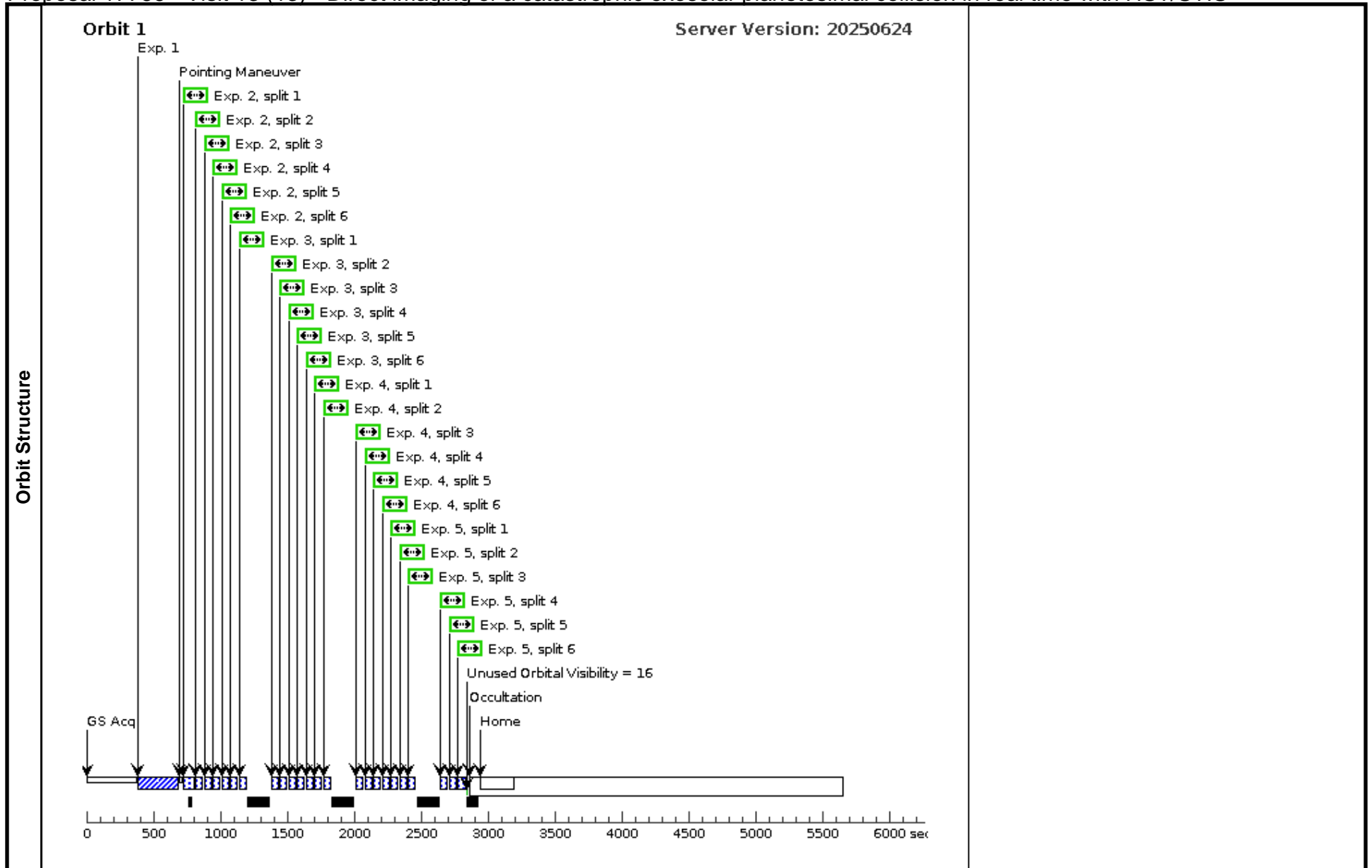
Visit	Proposal 17766, Visit 12 (12) Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; ORIENT 291.5D TO 291.5 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT Alt Name1: ALFA-PSA	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 0.32895 arcsec/yr Proper Motion Dec: -0.16467 arcsec/yr Parallax: 0.12981" Epoch of Position: 2000.0	V=1.16	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[A4-A9 V-IV, CIRCUMSTELLAR MATTER, DISK, EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ	(1) NAME-FOMALHAUT	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARI O BASE1O3		2 Secs (2 Secs)	
									[==>]	[1]
	2		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
	3		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	
	4		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	
	5		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	



Proposal 17766 - Visit 13 (13) - Direct imaging of a catastrophic exosolar planetesimal collision in real time with HST/STIS

Fri Aug 29 15:00:38 GMT 2025

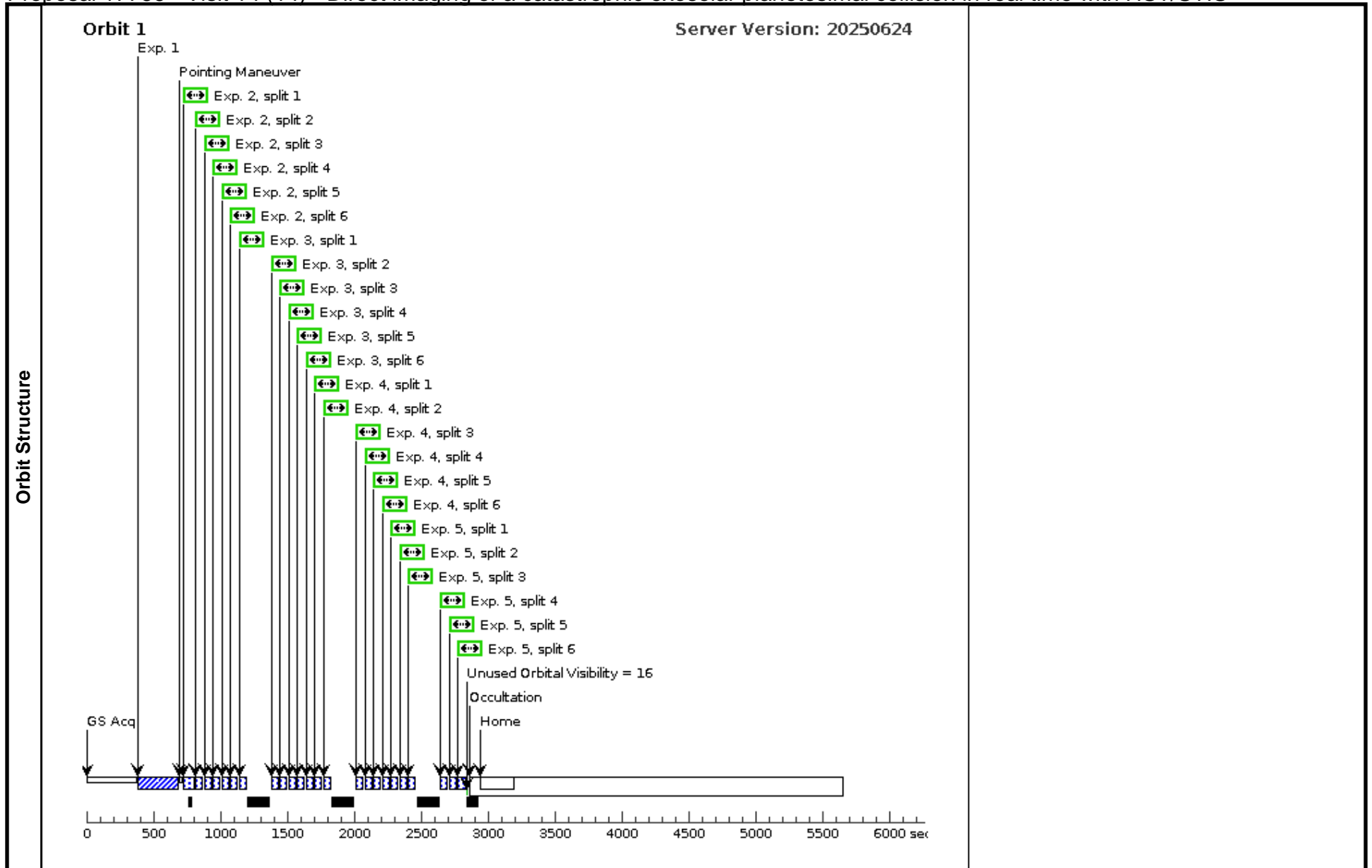
Visit	Proposal 17766, Visit 13 (13) Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; ORIENT 284.4D TO 284.4 D; SEQ 13,14,15,16,17,18 WITHIN 5.8 Orbits									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT Alt Name1: ALFA-PSA	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 0.32895 arcsec/yr Proper Motion Dec: -0.16467 arcsec/yr Parallax: 0.12981" Epoch of Position: 2000.0	V=1.16	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[A4-A9 V-IV, CIRCUMSTELLAR MATTER, DISK, EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ	(1) NAME-FOMALHAUT	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARI O BASE1O3		2 Secs (2 Secs)	
									[==>]	[1]
	2		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
	3		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	
	4		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	
	5		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	



Proposal 17766 - Visit 14 (14) - Direct imaging of a catastrophic exosolar planetesimal collision in real time with HST/STIS

Fri Aug 29 15:00:38 GMT 2025

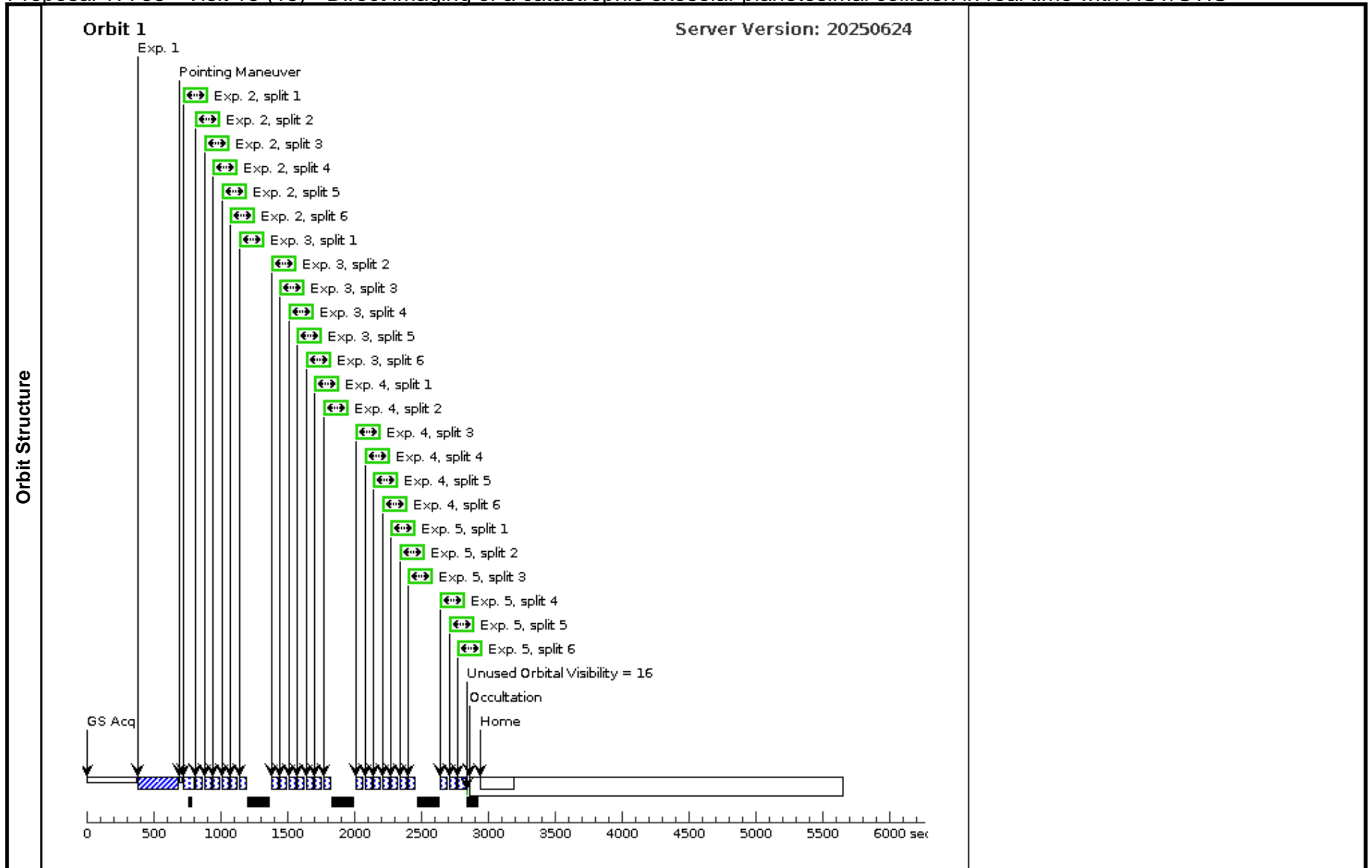
Visit	Proposal 17766, Visit 14 (14) Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; ORIENT 288.2D TO 288.2 D																						
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>NAME-FOMALHAUT Alt Name1: ALFA-PSA</td> <td>RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000</td> <td>Proper Motion RA: 0.32895 arcsec/yr Proper Motion Dec: -0.16467 arcsec/yr Parallax: 0.12981" Epoch of Position: 2000.0</td> <td>V=1.16</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"> <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[A4-A9 V-IV, CIRCUMSTELLAR MATTER, DISK, EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM] </td> </tr> </tbody> </table>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	NAME-FOMALHAUT Alt Name1: ALFA-PSA	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 0.32895 arcsec/yr Proper Motion Dec: -0.16467 arcsec/yr Parallax: 0.12981" Epoch of Position: 2000.0	V=1.16	Reference Frame: ICRS	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[A4-A9 V-IV, CIRCUMSTELLAR MATTER, DISK, EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM]				
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																		
(1)	NAME-FOMALHAUT Alt Name1: ALFA-PSA	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 0.32895 arcsec/yr Proper Motion Dec: -0.16467 arcsec/yr Parallax: 0.12981" Epoch of Position: 2000.0	V=1.16	Reference Frame: ICRS																		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[A4-A9 V-IV, CIRCUMSTELLAR MATTER, DISK, EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM]																							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit													
	1	ACQ	(1) NAME-FOMAL HAUT	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARI O BASE1O3		2 Secs (2 Secs) [==>]	[1]													
	2		(1) NAME-FOMAL HAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]													
	3		(1) NAME-FOMAL HAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]													
	4		(1) NAME-FOMAL HAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]													
	5		(1) NAME-FOMAL HAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]													



Proposal 17766 - Visit 15 (15) - Direct imaging of a catastrophic exosolar planetesimal collision in real time with HST/STIS

Fri Aug 29 15:00:38 GMT 2025

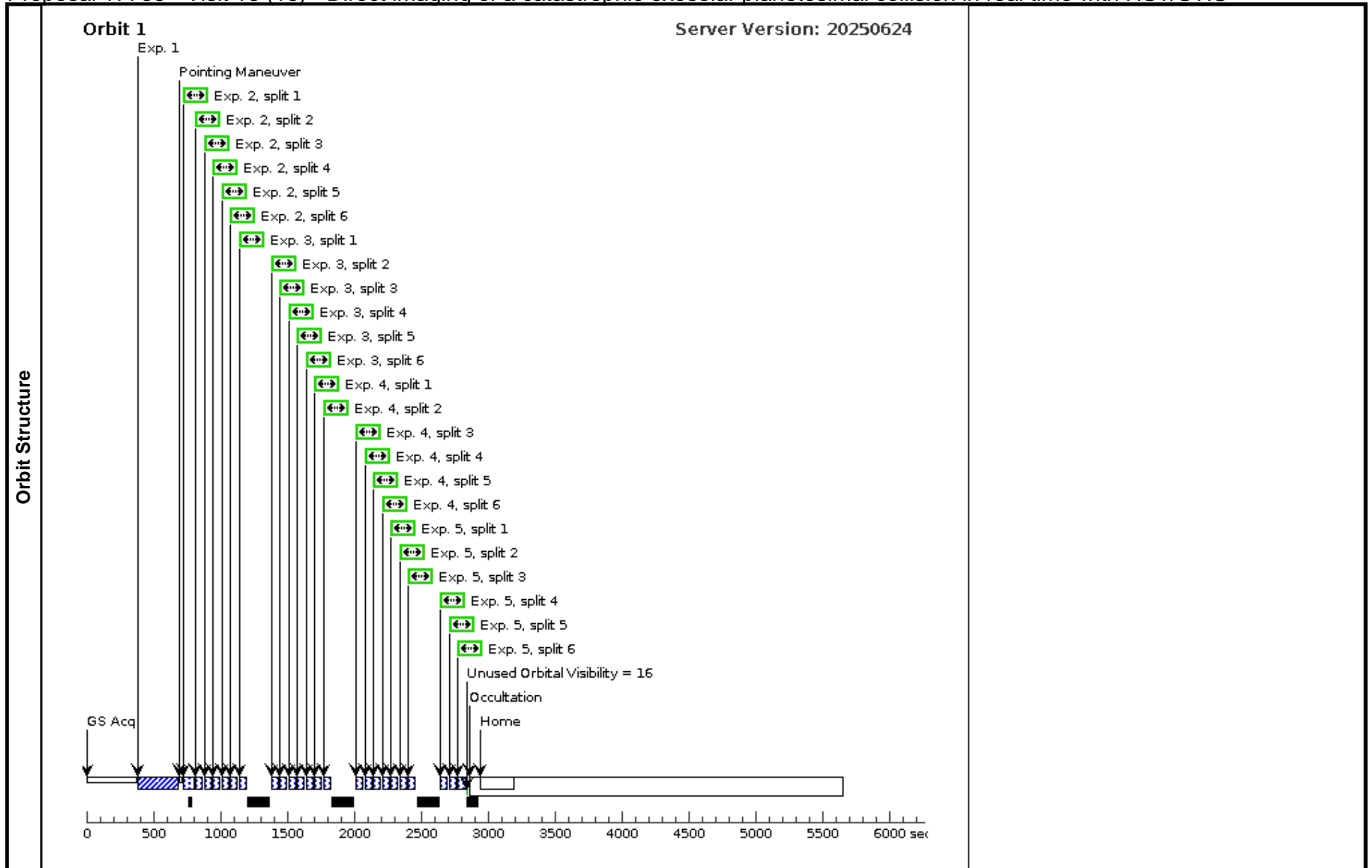
Visit	Proposal 17766, Visit 15 (15) Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; ORIENT 282.5D TO 282.5 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT Alt Name1: ALFA-PSA	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 0.32895 arcsec/yr Proper Motion Dec: -0.16467 arcsec/yr Parallax: 0.12981" Epoch of Position: 2000.0	V=1.16	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[A4-A9 V-IV, CIRCUMSTELLAR MATTER, DISK, EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ	(1) NAME-FOMALHAUT	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARI O BASE1O3		2 Secs (2 Secs)	
									[==>]	[1]
	2		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
	3		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	
	4		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	
	5		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	



Proposal 17766 - Visit 16 (16) - Direct imaging of a catastrophic exosolar planetesimal collision in real time with HST/STIS

Fri Aug 29 15:00:38 GMT 2025

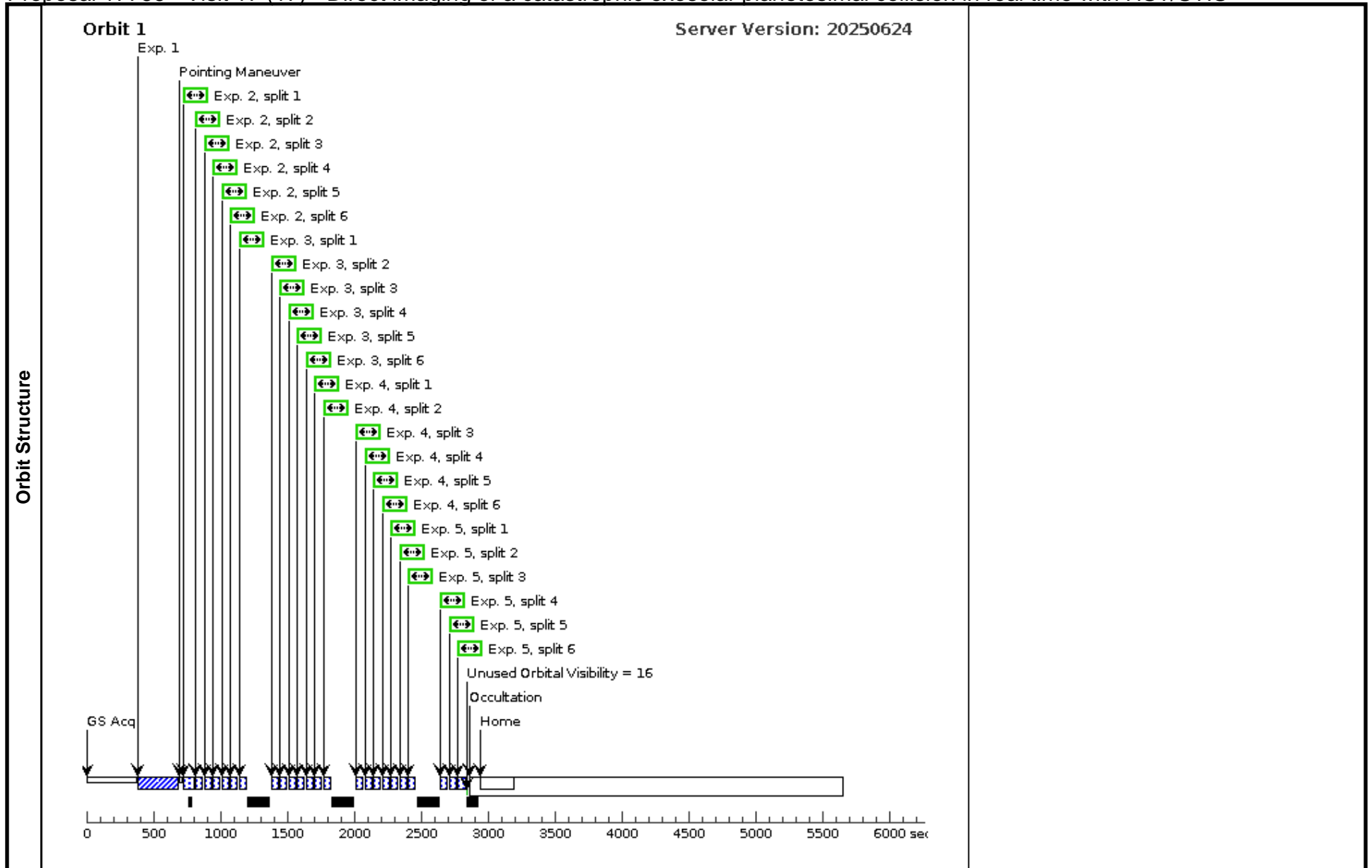
Visit	Proposal 17766, Visit 16 (16) Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; ORIENT 290.1D TO 290.1 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT Alt Name1: ALFA-PSA	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 0.32895 arcsec/yr Proper Motion Dec: -0.16467 arcsec/yr Parallax: 0.12981" Epoch of Position: 2000.0	V=1.16	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[A4-A9 V-IV, CIRCUMSTELLAR MATTER, DISK, EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ	(1) NAME-FOMALHAUT	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARI O BASE1O3		2 Secs (2 Secs)	
									[==>]	[1]
	2		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
	3		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	
	4		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	
	5		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	



Proposal 17766 - Visit 17 (17) - Direct imaging of a catastrophic exosolar planetesimal collision in real time with HST/STIS

Fri Aug 29 15:00:38 GMT 2025

Visit	Proposal 17766, Visit 17 (17) Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; ORIENT 286.3D TO 286.3 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT Alt Name1: ALFA-PSA	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 0.32895 arcsec/yr Proper Motion Dec: -0.16467 arcsec/yr Parallax: 0.12981" Epoch of Position: 2000.0	V=1.16	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[A4-A9 V-IV, CIRCUMSTELLAR MATTER, DISK, EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ	(1) NAME-FOMAL HAUT	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARI O BASE1O3		2 Secs (2 Secs) [==>]	[1]
	2		(1) NAME-FOMAL HAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
	3		(1) NAME-FOMAL HAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
	4		(1) NAME-FOMAL HAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
	5		(1) NAME-FOMAL HAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]



Proposal 17766 - Visit 18 (18) - Direct imaging of a catastrophic exosolar planetesimal collision in real time with HST/STIS

Fri Aug 29 15:00:38 GMT 2025

Visit	Proposal 17766, Visit 18 (18) Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SCHED 100%; ORIENT 292.0D TO 292.0 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NAME-FOMALHAUT Alt Name1: ALFA-PSA	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 0.32895 arcsec/yr Proper Motion Dec: -0.16467 arcsec/yr Parallax: 0.12981" Epoch of Position: 2000.0	V=1.16	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[A4-A9 V-IV, CIRCUMSTELLAR MATTER, DISK, EXTRA-SOLAR PLANET, EXTRA-SOLAR PLANETARY SYSTEM]									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ	(1) NAME-FOMALHAUT	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARI O BASE1O3		2 Secs (2 Secs)	
									[==>]	[1]
	2		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]
	3		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	
	4		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	
	5		(1) NAME-FOMALHAUT	STIS/CCD, ACCUM, WEDGE2.5	MIRROR	CR-SPLIT=6; GAIN=4			126 Secs (126 Secs)	
								[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)] [==>(Split 5)] [==>(Split 6)]	[1]	

