17459 - High-resolution imaging of Fomalhaut's newly discovered intermediate dust belt to precisely measure the planetary system geometry

Cycle: 31, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(2) -ALF-LYR	STIS/CCD	1	19-Feb-2026 10:00:49.0	yes
02	(1) -ALF-PSA	STIS/CCD	1	19-Feb-2026 10:00:51.0	yes
03	(1) -ALF-PSA	STIS/CCD	1	19-Feb-2026 10:00:53.0	yes
04	(1) -ALF-PSA	STIS/CCD	1	19-Feb-2026 10:00:55.0	yes
05	(3) -TET-PEG	STIS/CCD	1	19-Feb-2026 10:00:57.0	yes
06	(2) -ALF-LYR	STIS/CCD	1	19-Feb-2026 10:00:59.0	yes
07	(1) -ALF-PSA	STIS/CCD	1	19-Feb-2026 10:01:00.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
08	(1) -ALF-PSA	STIS/CCD	1	19-Feb-2026 10:01:03.0	yes
09	(1) -ALF-PSA	STIS/CCD	1	19-Feb-2026 10:01:04.0	yes
10	(3) -TET-PEG	STIS/CCD	1	19-Feb-2026 10:01:06.0	yes

10 Total Orbits Used

ABSTRACT

The dusty debris belts surrounding the nearby star Fomalhaut show indirect evidence for hidden planets gravitationally sculpting the system. Fomalhaut has been studied by every major observatory and interpreted through many theory papers, demonstrating wide interest by the astronomical community. The most recent breakthrough comes from JWST/MIRI images that reveal the existence of an intermediate dust belt at ~100 au not previously seen in any other data set. Here we show that the intermediate belt can be detected in dust-scattered light in archival STIS data. However, these observations used a subarray that limited the detection to roughly 90 degrees along the belt's minor axis. Here we propose new observations that increase both the field of view and integration time to map the entire intermediate belt in dust-scattered light. These data will exceed JWST/MIRI's angular resolution by a factor of seven and enable a precise measurement of the belt's geometric properties. The results will show to what extent the intermediate belt is misaligned with the inner asteroid belt analog and the outer belt. Its stellocentric offset will be measured to the same precision as the outer belt, and the radial gap between belts will give theorists more precise information on modeling the properties of hypothesized planets inferred to exist between the belts.

OBSERVING DESCRIPTION

The goal is to image Fomalhaut's intermediate dust belt, which is expected to be brightest along its eastern hemisphere (PA~0-180), which is the forward scattering direction. For PSF subtraction we have two PSF reference stars Vega and Theta Peg that will be observed at any ORIENT before and after three orbits of Fomalhaut observations. Each Fomalhaut observation has ORIENT constraints and ORIENT FROM commands in order to roll the telescope up to 30 degrees. The ORIENT constraints are chosen so that as much of the intermediate belt is imaged given that the STIS occulting wedge and diffraction spikes are blocking a large fraction of the field of view.

All observations will be made with the stars acquired behind WEDGEB2.0. Integration times are chosen so as not to saturate the pixels close to the edge of the wedge. In order to maximize the total integration time, we use a subarray of 700 pixels to reduce readout times. In order to perform PSF subtraction using the PSF reference stars, the first group of five VISITS (i.e. orbits) should be executed consecutively, without interruptions, so that the PSF variations from orbit to orbit are minimized. To achieve this we use a SEQUENCE constraint starting from Visit 01. The same procedure is

implemented for the second group of five VISITS (05-10) with the sequence command starting from Visit 05. The PSF reference stars also have an ORIENT FROM command so that Vega in Visit 01 is not imaged at exactly the same ORIENT in Visit 06, and likewise with theta Peg. If there are background stars in the field we would prefer to have them moved to different detector positions between each pair of orbits.

Visit

Proposal 17459, Vega (01), implementation Thu Feb 19 15:01:07 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: SCHED 100%; SEQ 01,02,03,04,05 WITHIN 4.8 Orbits

Diagnostics

(Vega (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	-ALF-LYR	RA: 18 36 56.3364 (279.2347350d)	Proper Motion RA: 200.94 mas/yr	V=0.03	Reference Frame: ICRS
	Alt Name1: VEGA	Dec: +38 47 1.28 (38.78369d)	Proper Motion Dec: 286.23 mas/yr		
		Equinox: J2000	Parallax: 0.130"		
			Epoch of Position: 2000		

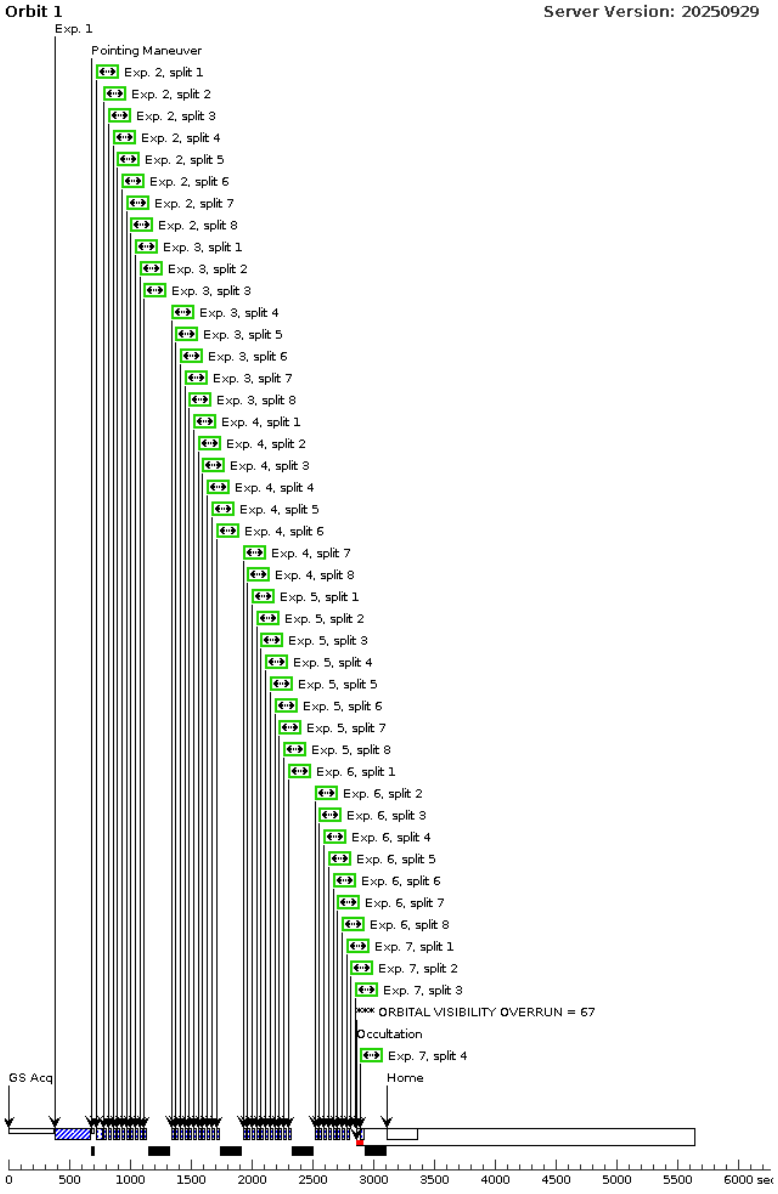
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[A0-A3 V-IV]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(2) -ALF-LYR	STIS/CCD, ACQ, F25ND5	MIRROR				0.7 Secs (0.7 Secs)	
								[==>]	***[1]***
2		(2) -ALF-LYR	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	GAIN=4; CR-SPLIT=8; SIZEAXIS2=700			3.2 Secs (3.2 Secs)	
								[==>(Split 1)] *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
3		(2) -ALF-LYR	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	GAIN=4; CR-SPLIT=8; SIZEAXIS2=700			3.2 Secs (3.2 Secs)	
								[==>(Split 1)] *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
4		(2) -ALF-LYR	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	GAIN=4; CR-SPLIT=8; SIZEAXIS2=700			3.2 Secs (3.2 Secs)	
								[==>(Split 1)] *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
5		(2) -ALF-LYR	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	GAIN=4; CR-SPLIT=8; SIZEAXIS2=700			3.2 Secs (3.2 Secs)	
								[==>(Split 1)] *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***

	6	(2) -ALF-LYR	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	GAIN=4; CR-SPLIT=8; SIZEAXIS2=700	3.2 Secs (3.2 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	 ***[1]***
	7	(2) -ALF-LYR	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	GAIN=4; CR-SPLIT=4; SIZEAXIS2=700	1.6 Secs (1.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	 ***[1]***

Orbit Structure



Visit

Proposal 17459, Fomalhaut (02), implementation Thu Feb 19 15:01:07 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: SCHED 100%

Diagnostics

(Fomalhaut (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	-ALF-PSA Alt Name1: FOMALHAUT	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 328.95 mas/yr Proper Motion Dec: -164.67000000375265 mas/yr Parallax: 0.130" Epoch of Position: 2000	V=1.16	Reference Frame: ICRS

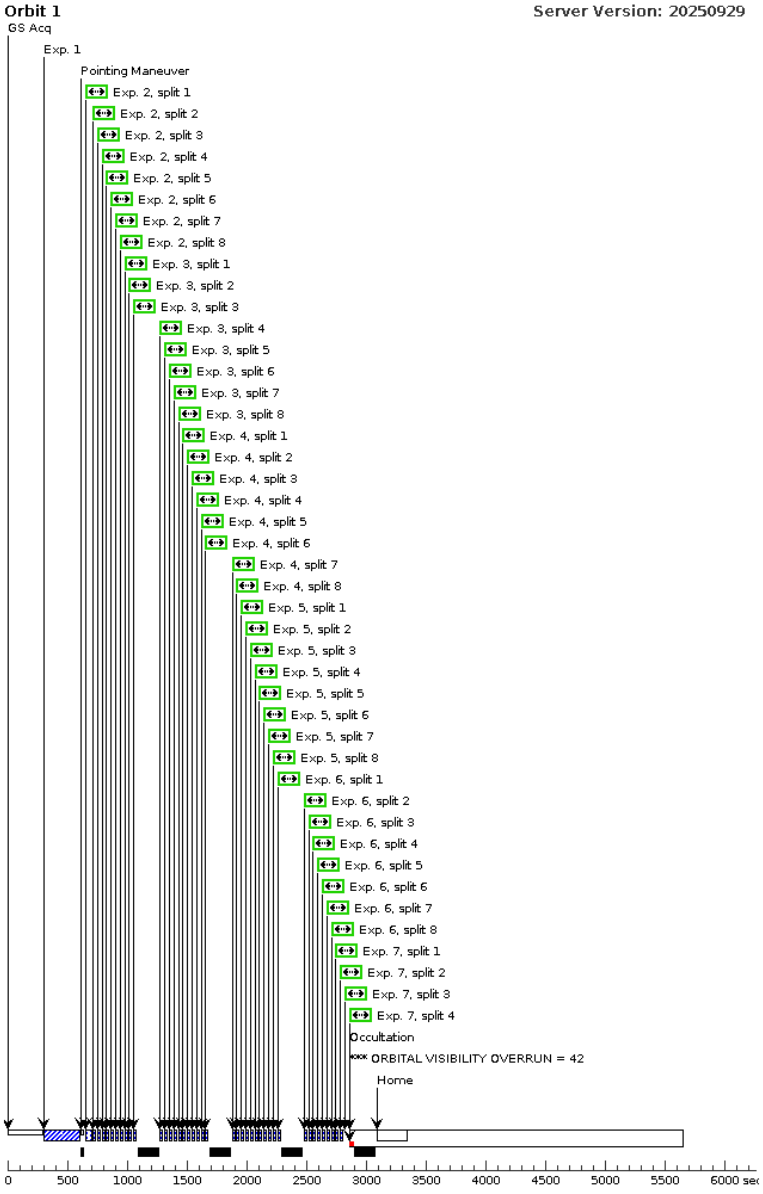
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[A4-A9 V-IV, DISK, EXTRA-SOLAR PLANETARY SYSTEM]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) -ALF-PSA	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARIO ONEB1O		2 Secs (2 Secs)	
								[==>]	***[1]***
2		(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4			9.6 Secs (9.6 Secs)	
								[==>(Split 1)]	***[1]***
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	
								[==>(Split 8)]	
3		(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4			9.6 Secs (9.6 Secs)	
								[==>(Split 1)]	***[1]***
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	
								[==>(Split 8)]	
4		(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4			9.6 Secs (9.6 Secs)	
								[==>(Split 1)]	***[1]***
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	
								[==>(Split 8)]	
5		(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4			9.6 Secs (9.6 Secs)	
								[==>(Split 1)]	***[1]***
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	
								[==>(Split 8)]	

	6	(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4	9.6 Secs (9.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	 ***[1]***
	7	(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	CR-SPLIT=4; SIZEAXIS2=700; GAIN=4	4.8 Secs (4.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	 ***[1]***

Orbit Structure



Visit

Proposal 17459, Fomalhaut (03), implementation Thu Feb 19 15:01:07 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: SCHED 100%; ORIENT 12D TO 13D FROM 02

Diagnostics

(Fomalhaut (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	-ALF-PSA Alt Name1: FOMALHAUT	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 328.95 mas/yr Proper Motion Dec: -164.67000000375265 mas/yr Parallax: 0.130" Epoch of Position: 2000	V=1.16	Reference Frame: ICRS

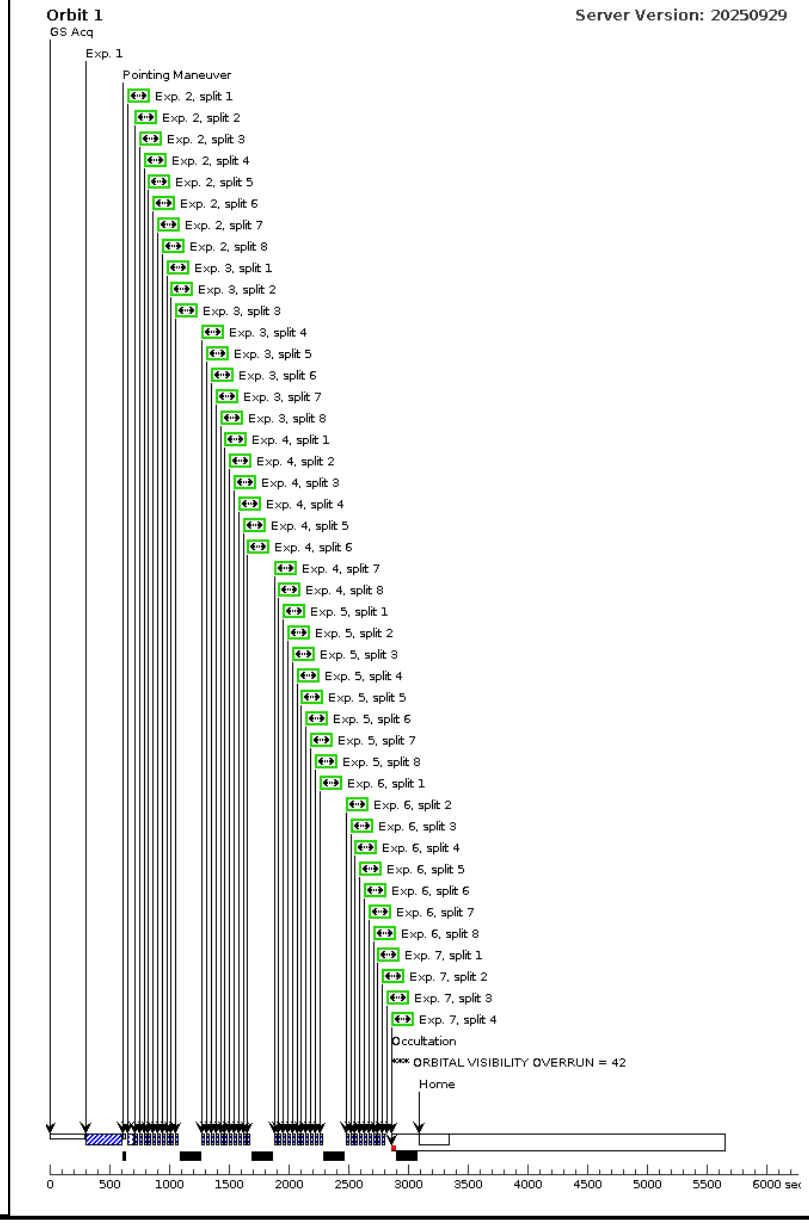
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[A4-A9 V-IV, DISK, EXTRA-SOLAR PLANETARY SYSTEM]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) -ALF-PSA	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARIO ONEB1O		2 Secs (2 Secs)	
								[==>]	***[1]***
2		(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4			9.6 Secs (9.6 Secs)	
								[==>(Split 1)]	***[1]***
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	
								[==>(Split 8)]	
3		(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4			9.6 Secs (9.6 Secs)	
								[==>(Split 1)]	***[1]***
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	
								[==>(Split 8)]	
4		(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4			9.6 Secs (9.6 Secs)	
								[==>(Split 1)]	***[1]***
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	
								[==>(Split 8)]	
5		(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4			9.6 Secs (9.6 Secs)	
								[==>(Split 1)]	***[1]***
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	
								[==>(Split 8)]	

	6	(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4	9.6 Secs (9.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	 ***[1]***
	7	(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	CR-SPLIT=4; SIZEAXIS2=700; GAIN=4	4.8 Secs (4.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	 ***[1]***

Orbit Structure



Visit

Proposal 17459, Fomalhaut (04), implementation Thu Feb 19 15:01:07 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD

Special Requirements: SCHED 50%; ORIENT 24D TO 26D FROM 02

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	-ALF-PSA Alt Name1: FOMALHAUT	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 328.95 mas/yr Proper Motion Dec: -164.67000000375265 mas/yr Parallax: 0.130" Epoch of Position: 2000	V=1.16	Reference Frame: ICRS

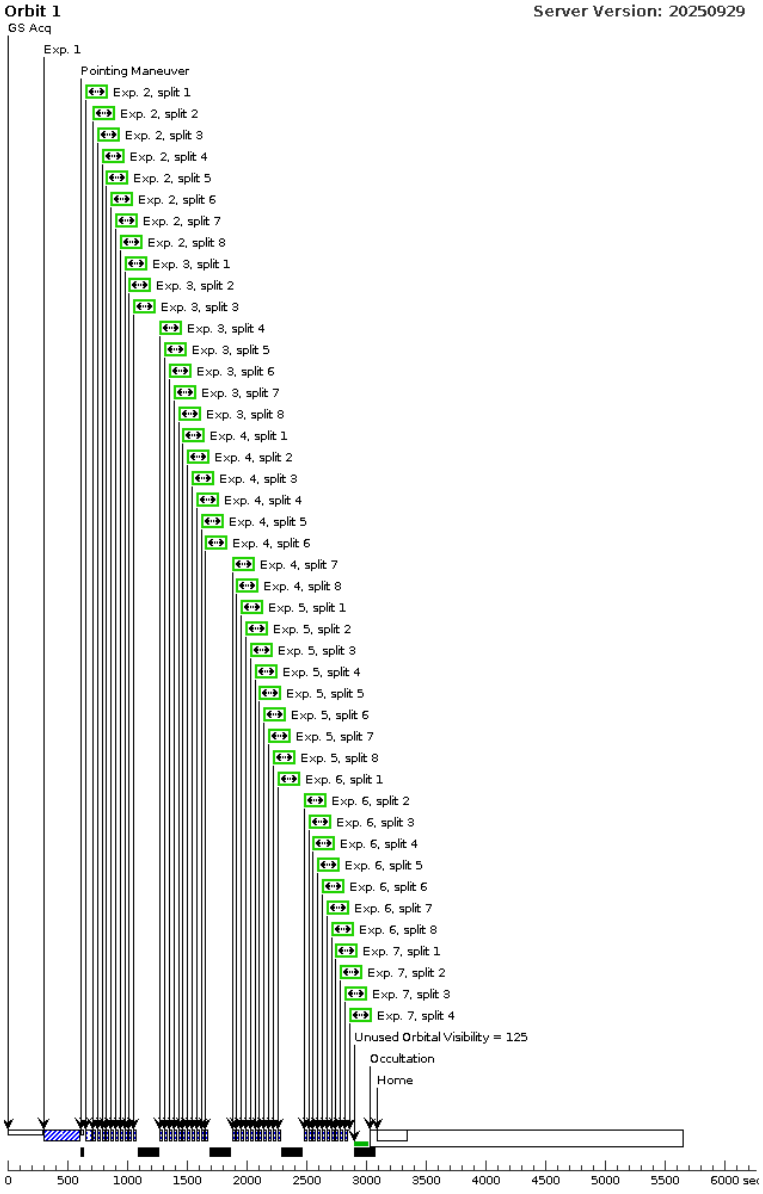
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[A4-A9 V-IV, DISK, EXTRA-SOLAR PLANETARY SYSTEM]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) -ALF-PSA	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARIO ONEB1O		2 Secs (2 Secs)	
								[==>]	***[1]***
2		(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4			9.6 Secs (9.6 Secs)	
								[==>(Split 1)]	***[1]***
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	
								[==>(Split 8)]	
3		(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4			9.6 Secs (9.6 Secs)	
								[==>(Split 1)]	***[1]***
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	
								[==>(Split 8)]	
4		(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4			9.6 Secs (9.6 Secs)	
								[==>(Split 1)]	***[1]***
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	
								[==>(Split 8)]	
5		(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4			9.6 Secs (9.6 Secs)	
								[==>(Split 1)]	***[1]***
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	
								[==>(Split 8)]	

	6	(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4	9.6 Secs (9.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	 ***[1]***
	7	(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	CR-SPLIT=4; SIZEAXIS2=700; GAIN=4	4.8 Secs (4.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	 ***[1]***

Orbit Structure



Visit

Proposal 17459, Theta Peg (05), implementation Thu Feb 19 15:01:07 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD

Special Requirements: SCHED 70%

Fixed Targets

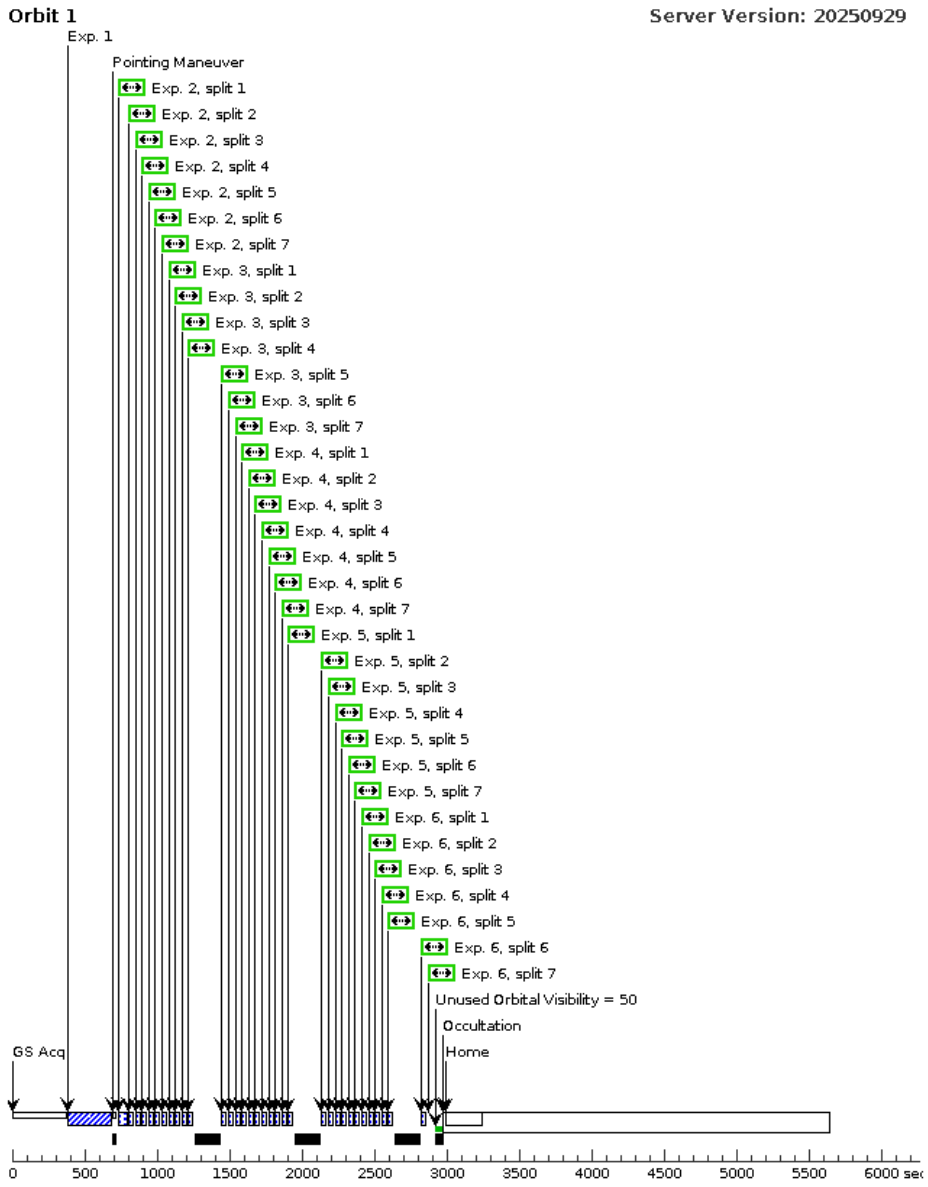
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	-TET-PEG	RA: 22 10 11.9886 (332.5499525d)	Proper Motion RA: 265.699 mas/yr	V=3.55	Reference Frame: ICRS
		Dec: +06 11 52.52 (6.19792d)	Proper Motion Dec: 10.407 mas/yr		
		Equinox: J2000	Parallax: 0.037"		
			Epoch of Position: 2000		

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[A0-A3 V-IV]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(3) -TET-PEG	STIS/CCD, ACQ, F25ND5	MIRROR				3 Secs (3 Secs)	
								[==>]	***[1]***
2		(3) -TET-PEG	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	CR-SPLIT=7; SIZEAXIS2=700; GAIN=4			70 Secs (70 Secs)	
								[==>(Split 1)]	
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	***[1]***
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	
3		(3) -TET-PEG	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	CR-SPLIT=7; SIZEAXIS2=700; GAIN=4			70 Secs (70 Secs)	
								[==>(Split 1)]	
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	***[1]***
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	
4		(3) -TET-PEG	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	CR-SPLIT=7; SIZEAXIS2=700; GAIN=4			70 Secs (70 Secs)	
								[==>(Split 1)]	
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	***[1]***
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	
5		(3) -TET-PEG	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	CR-SPLIT=7; SIZEAXIS2=700; GAIN=4			70 Secs (70 Secs)	
								[==>(Split 1)]	
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	***[1]***
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	
6		(3) -TET-PEG	STIS/CCD, ACCUM, WEDGEA2.0	MIRROR	CR-SPLIT=7; SIZEAXIS2=700; GAIN=4			70 Secs (70 Secs)	
								[==>(Split 1)]	
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	***[1]***
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	

Orbit Structure



Visit		
	Proposal 17459, Vega (06), implementation	Thu Feb 19 15:01:07 GMT 2026
	Diagnostic Status: Warning	
	Scientific Instruments: STIS/CCD	
	Special Requirements: SCHED 70%; ORIENT 2D TO 20D FROM 01; SEQ 06,07,08,09,10 WITHIN 4.8 Orbits	

Diagnostics

(Vega (06)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
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(Vega (06)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(Vega (06)) Informational (Form): The Visit Planner and Spike may produce different schedulability results.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	-ALF-LYR	RA: 18 36 56.3364 (279.2347350d)	Proper Motion RA: 200.94 mas/yr	V=0.03	Reference Frame: ICRS
	Alt Name1: VEGA	Dec: +38 47 1.28 (38.78369d)	Proper Motion Dec: 286.23 mas/yr		
		Equinox: J2000	Parallax: 0.130"		
			Epoch of Position: 2000		

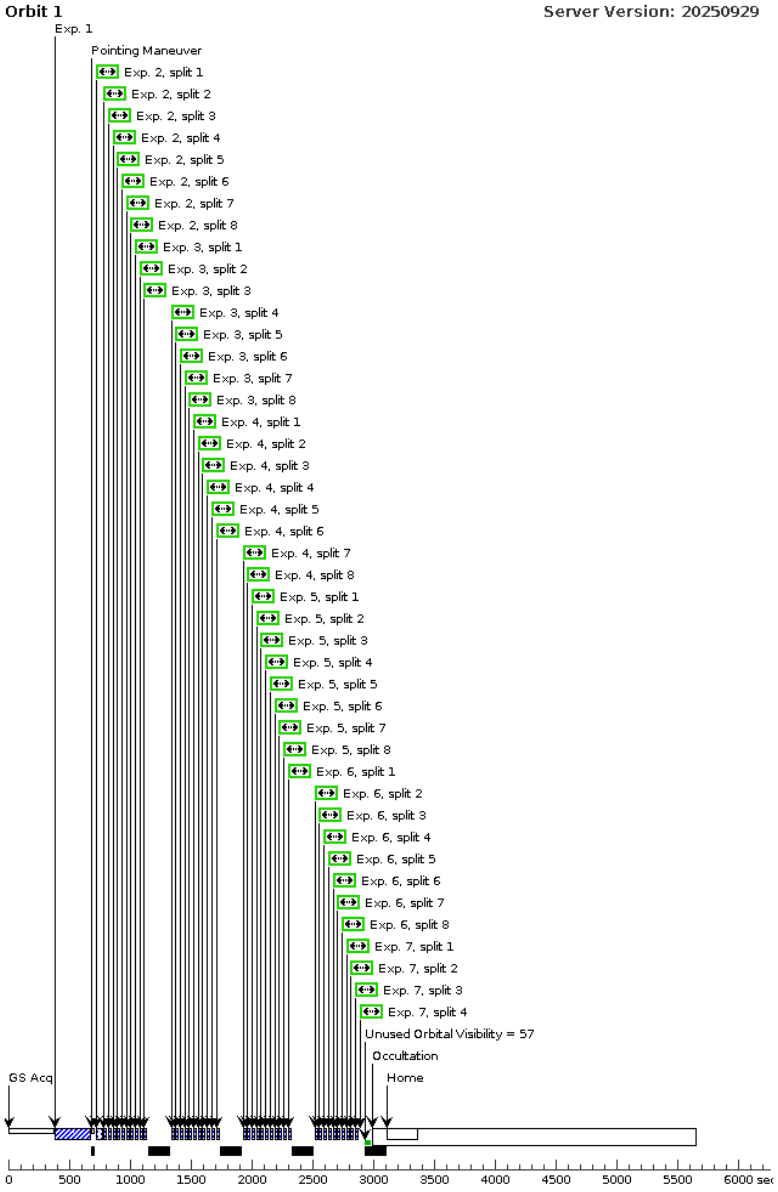
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[A0-A3 V-IV]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(2) -ALF-LYR	STIS/CCD, ACQ, F25ND5	MIRROR				0.7 Secs (0.7 Secs)	
								[==>]	***[1]***
2		(2) -ALF-LYR	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	GAIN=4; CR-SPLIT=8; SIZEAXIS2=700			3.2 Secs (3.2 Secs)	
								[==>(Split 1)] *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
3		(2) -ALF-LYR	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	GAIN=4; CR-SPLIT=8; SIZEAXIS2=700			3.2 Secs (3.2 Secs)	
								[==>(Split 1)] *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
4		(2) -ALF-LYR	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	GAIN=4; CR-SPLIT=8; SIZEAXIS2=700			3.2 Secs (3.2 Secs)	
								[==>(Split 1)] *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***
5		(2) -ALF-LYR	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	GAIN=4; CR-SPLIT=8; SIZEAXIS2=700			3.2 Secs (3.2 Secs)	
								[==>(Split 1)] *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	***[1]***

	6	(2) -ALF-LYR	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	GAIN=4; CR-SPLIT=8; SIZEAXIS2=700	3.2 Secs (3.2 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	 ***[1]***
	7	(2) -ALF-LYR	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	GAIN=4; CR-SPLIT=4; SIZEAXIS2=700	1.6 Secs (1.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	 ***[1]***

Orbit Structure



Visit		
	Proposal 17459, Fomalhaut (07), implementation	Thu Feb 19 15:01:07 GMT 2026
	Diagnostic Status: Warning	
	Scientific Instruments: STIS/CCD	
	Special Requirements: SCHED 100%; ORIENT 1D TO 2D FROM 02	

Diagnostics

(Fomalhaut (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(Fomalhaut (07)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(Fomalhaut (07)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
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(Fomalhaut (07)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	-ALF-PSA Alt Name1: FOMALHAUT	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 328.95 mas/yr Proper Motion Dec: -164.67000000375265 mas/yr Parallax: 0.130" Epoch of Position: 2000	V=1.16	Reference Frame: ICRS

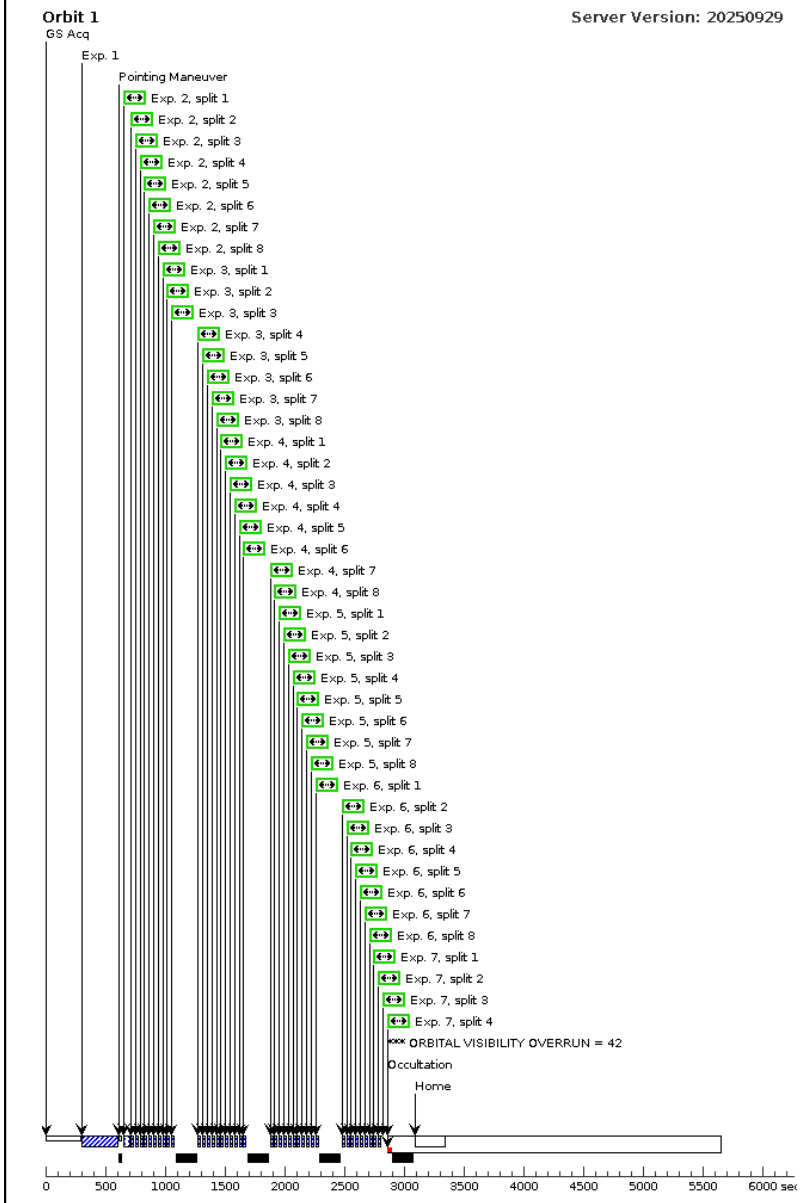
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[A4-A9 V-IV, DISK, EXTRA-SOLAR PLANETARY SYSTEM]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) -ALF-PSA	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARIO ONEB1O		2 Secs (2 Secs)	
								[==>]	***[1]***
2		(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4			9.6 Secs (9.6 Secs)	
								[==>(Split 1)]	***[1]***
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	
								[==>(Split 8)]	
3		(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4			9.6 Secs (9.6 Secs)	
								[==>(Split 1)]	***[1]***
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	
								[==>(Split 8)]	
4		(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4			9.6 Secs (9.6 Secs)	
								[==>(Split 1)]	***[1]***
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	
								[==>(Split 8)]	
5		(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4			9.6 Secs (9.6 Secs)	
								[==>(Split 1)]	***[1]***
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	
								[==>(Split 8)]	

	6	(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4	9.6 Secs (9.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	 ***[1]***
	7	(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	CR-SPLIT=4; SIZEAXIS2=700; GAIN=4	4.8 Secs (4.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	 ***[1]***

Orbit Structure



Visit		
	Proposal 17459, Fomalhaut (08), implementation	Thu Feb 19 15:01:07 GMT 2026
	Diagnostic Status: Warning	
	Scientific Instruments: STIS/CCD	
	Special Requirements: SCHED 100%; ORIENT 1D TO 2D FROM 03	

Diagnostics

(Fomalhaut (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(Fomalhaut (08)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
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Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	-ALF-PSA Alt Name1: FOMALHAUT	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 328.95 mas/yr Proper Motion Dec: -164.67000000375265 mas/yr Parallax: 0.130" Epoch of Position: 2000	V=1.16	Reference Frame: ICRS

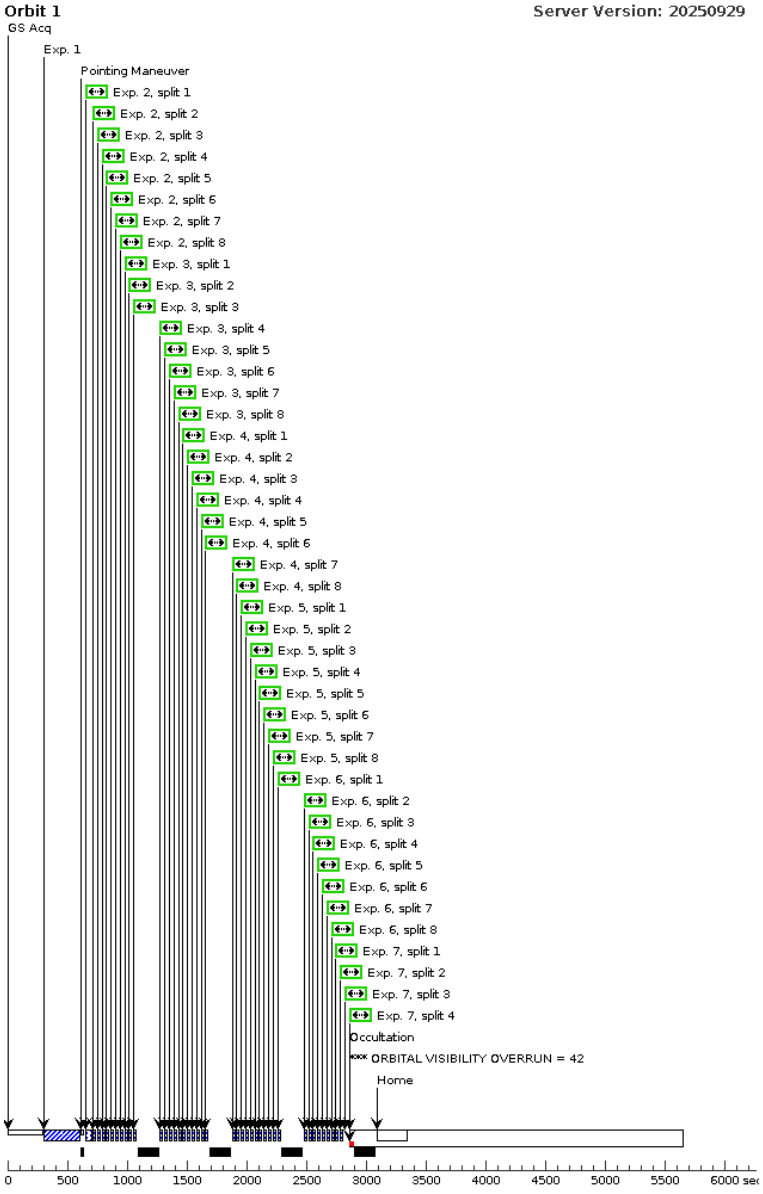
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[A4-A9 V-IV, DISK, EXTRA-SOLAR PLANETARY SYSTEM]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) -ALF-PSA	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARIO ONEB1O		2 Secs (2 Secs)	
								[==>]	***[1]***
2		(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4			9.6 Secs (9.6 Secs)	
								[==>(Split 1)]	***[1]***
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	
								[==>(Split 8)]	
3		(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4			9.6 Secs (9.6 Secs)	
								[==>(Split 1)]	***[1]***
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	
								[==>(Split 8)]	
4		(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4			9.6 Secs (9.6 Secs)	
								[==>(Split 1)]	***[1]***
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	
								[==>(Split 8)]	
5		(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4			9.6 Secs (9.6 Secs)	
								[==>(Split 1)]	***[1]***
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	
								[==>(Split 8)]	

	6	(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4	9.6 Secs (9.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	 ***[1]***
	7	(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	CR-SPLIT=4; SIZEAXIS2=700; GAIN=4	4.8 Secs (4.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	 ***[1]***

Orbit Structure



Visit	**Proposal 17459, Fomalhaut (09), implementation** Thu Feb 19 15:01:07 GMT 2026
	Diagnostic Status: Warning
	Scientific Instruments: STIS/CCD
	Special Requirements: SCHED 100%; ORIENT 1D TO 2D FROM 04

Diagnostics

(Fomalhaut (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(Fomalhaut (09)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
(Fomalhaut (09)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
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Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	-ALF-PSA Alt Name1: FOMALHAUT	RA: 22 57 39.0463 (344.4126929d) Dec: -29 37 20.05 (-29.62224d) Equinox: J2000	Proper Motion RA: 328.95 mas/yr Proper Motion Dec: -164.67000000375265 mas/yr Parallax: 0.130" Epoch of Position: 2000	V=1.16	Reference Frame: ICRS

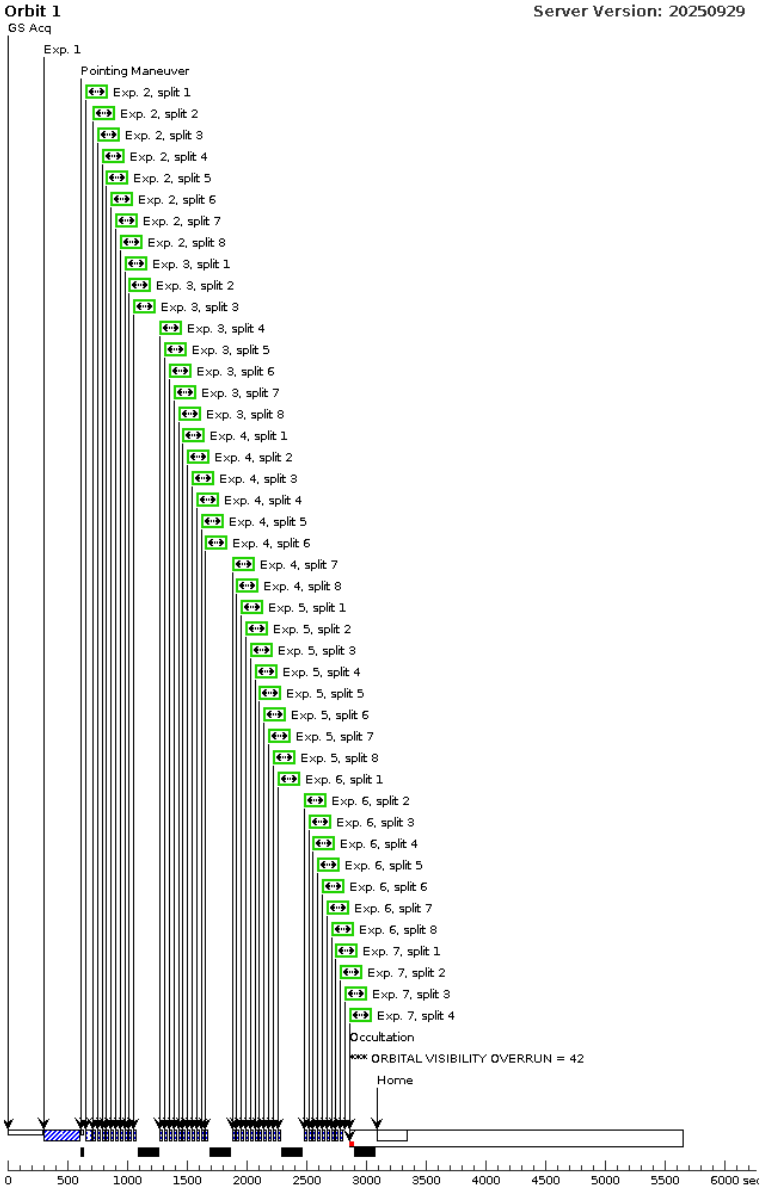
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[A4-A9 V-IV, DISK, EXTRA-SOLAR PLANETARY SYSTEM]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) -ALF-PSA	STIS/CCD, ACQ, F25ND5	MIRROR		GS ACQ SCENARIO ONEB1O		2 Secs (2 Secs) *[==>]*	 ***[1]***
2		(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4			9.6 Secs (9.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	 ***[1]***
3		(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4			9.6 Secs (9.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	 ***[1]***
4		(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4			9.6 Secs (9.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	 ***[1]***
5		(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4			9.6 Secs (9.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	 ***[1]***

	6	(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	CR-SPLIT=8; SIZEAXIS2=700; GAIN=4	9.6 Secs (9.6 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]* *[==>(Split 5)]* *[==>(Split 6)]* *[==>(Split 7)]* *[==>(Split 8)]*	 ***[1]***
	7	(1) -ALF-PSA	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	CR-SPLIT=4; SIZEAXIS2=700; GAIN=4	4.8 Secs (4.8 Secs) *[==>(Split 1)]* *[==>(Split 2)]* *[==>(Split 3)]* *[==>(Split 4)]*	 ***[1]***

Orbit Structure



Visit

Proposal 17459, Theta Peg (10), implementation Thu Feb 19 15:01:07 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: SCHED 100%; ORIENT 2D TO 10D FROM 05

Diagnostics

(Theta Peg (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
(Theta Peg (10)) Warning (Orbit Planner): SUBARRAY OFF OF DETECTOR
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Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	-TET-PEG	RA: 22 10 11.9886 (332.5499525d)	Proper Motion RA: 265.699 mas/yr	V=3.55	Reference Frame: ICRS
		Dec: +06 11 52.52 (6.19792d)	Proper Motion Dec: 10.407 mas/yr		
		Equinox: J2000	Parallax: 0.037"		
			Epoch of Position: 2000		

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[A0-A3 V-IV]

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(3) -TET-PEG	STIS/CCD, ACQ, F25ND5	MIRROR				3 Secs (3 Secs)	
								[==>]	***[1]***
2		(3) -TET-PEG	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	CR-SPLIT=7; SIZEAXIS2=700; GAIN=4			70 Secs (70 Secs)	
								[==>(Split 1)]	
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	***[1]***
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	
3		(3) -TET-PEG	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	CR-SPLIT=7; SIZEAXIS2=700; GAIN=4			70 Secs (70 Secs)	
								[==>(Split 1)]	
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	***[1]***
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	
4		(3) -TET-PEG	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	CR-SPLIT=7; SIZEAXIS2=700; GAIN=4			70 Secs (70 Secs)	
								[==>(Split 1)]	
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	***[1]***
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	
5		(3) -TET-PEG	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	CR-SPLIT=7; SIZEAXIS2=700; GAIN=4			70 Secs (70 Secs)	
								[==>(Split 1)]	
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	***[1]***
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	
6		(3) -TET-PEG	STIS/CCD, ACCUM, WEDGEB2.0	MIRROR	CR-SPLIT=7; SIZEAXIS2=700; GAIN=4			70 Secs (70 Secs)	
								[==>(Split 1)]	
								[==>(Split 2)]	
								[==>(Split 3)]	
								[==>(Split 4)]	***[1]***
								[==>(Split 5)]	
								[==>(Split 6)]	
								[==>(Split 7)]	

Orbit Structure