17801 - Characterizing the Detected Atmospheric Escape of a Pair of Small Sub-Neptunes

Cycle: 32, Proposal Category: GO

(UV Initiative)

(Availability Mode: AVAILABLE)

INVESTIGATORS

Name	*Institution*
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Prof. Hilke E. Schlichting (CoI)	University of California - Los Angeles
Dr. James Graham Rogers (CoI) (ESA Member)	University of Cambridge
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Prof. Kevin France (CoI)	University of Colorado at Boulder
Dr. Johanna Teske (CoI)	Carnegie Institution of Washington
Madelyn Broome (CoI)	University of California - Santa Cruz
Dr. Christian Schneider (CoI) (ESA Member)	Christian-Albrechts Universitat zu Kiel
Dr. Girish M. Duvvuri (CoI)	Vanderbilt University
Dr. Steven Giacalone (CoI)	California Institute of Technology

Name	*Institution*
Dr. Natasha Batalha (CoI)	NASA Ames Research Center

VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(1) TOI-776 WAVE	STIS/CCD STIS/FUV-MAMA	5	20-Apr-2026 11:00:16.0	yes
02	(1) TOI-776 WAVE	STIS/CCD STIS/FUV-MAMA	5	20-Apr-2026 11:00:18.0	yes
03	(1) TOI-776 WAVE	STIS/CCD STIS/FUV-MAMA	2	20-Apr-2026 11:00:19.0	yes
04	(1) TOI-776 WAVE	STIS/CCD STIS/FUV-MAMA	5	20-Apr-2026 11:00:21.0	yes
05	(1) TOI-776 (2) GAIA-DR3-3460426945338850560	COS/FUV COS/NUV	1	20-Apr-2026 11:00:22.0	yes
06	(1) TOI-776 (2) GAIA-DR3-3460426945338850560	COS/FUV COS/NUV	1	20-Apr-2026 11:00:23.0	yes
07	(1) TOI-776 (2) GAIA-DR3-3460426945338850560	COS/FUV COS/NUV	1	20-Apr-2026 11:00:23.0	yes
08	(1) TOI-776 (2) GAIA-DR3-3460426945338850560	COS/FUV COS/NUV	1	20-Apr-2026 11:00:23.0	yes
09	(1) TOI-776 (2) GAIA-DR3-3460426945338850560	COS/FUV COS/NUV	1	20-Apr-2026 11:00:24.0	yes
10	(1) TOI-776 (2) GAIA-DR3-3460426945338850560	COS/FUV COS/NUV	1	20-Apr-2026 11:00:24.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
11	(1) TOI-776 (2) GAIA-DR3-3460426945338850560	COS/FUV COS/NUV	1	20-Apr-2026 11:00:25.0	yes
12	(1) TOI-776 (2) GAIA-DR3-3460426945338850560	COS/FUV COS/NUV	1	20-Apr-2026 11:00:25.0	yes
13	(1) TOI-776 (2) GAIA-DR3-3460426945338850560	COS/FUV COS/NUV	1	20-Apr-2026 11:00:26.0	yes
14	(1) TOI-776 (2) GAIA-DR3-3460426945338850560	COS/FUV COS/NUV	1	20-Apr-2026 11:00:26.0	yes
15	(1) TOI-776 (2) GAIA-DR3-3460426945338850560	COS/FUV COS/NUV	1	20-Apr-2026 11:00:26.0	yes
16	(1) TOI-776 (2) GAIA-DR3-3460426945338850560	COS/FUV COS/NUV	1	20-Apr-2026 11:00:27.0	yes
17	(1) TOI-776 (2) GAIA-DR3-3460426945338850560	COS/FUV COS/NUV	1	20-Apr-2026 11:00:27.0	yes
18	(1) TOI-776 (2) GAIA-DR3-3460426945338850560	COS/FUV COS/NUV	1	20-Apr-2026 11:00:28.0	yes

31 Total Orbits Used

ABSTRACT

HST recently discovered a neutral hydrogen outflow from a planet in the transitional space between the sub-Neptune and super-Earth populations, TOI-776 b. Its nearby sub-Neptune sibling, TOI-776 c, also exhibits hydrogen loss. These two planets represent a crucial link between the sub-Neptune and super-Earth populations, long theorized to be the result of an initially continuous population of planets that evolved into two branches, with one losing their primordial H/He atmospheres, shrinking to the size of their rocky cores. Within its remaining life, TOI-776 b has a roughly 15% chance of completing the transition into a super-Earth by losing most of its remaining H/He atmosphere, whereas TOI-776 c will stably reside in

the sub-Neptune population. The proposed program builds upon this recent discovery, moving from detection to a thorough characterization of the planetary outflows. These observations have two primary objectives: imposing an added constraint on outflow models by observing the Lyman-alpha transit egress and measuring the neutral O and singly-ionized C content. The results will provide insight into how small planets are shaped and how their atmospheres are chemically enriched by atmospheric escape.

OBSERVING DESCRIPTION

We will use a combination of STIS/G140M/1222 observations to measure the Lya transit from ingress through egress and COS/G130M/1222 observations to measure the transit depth in O I and C II. Although recent work has demonstrated the ability to recover Lya profiles from airglow contamination with COS/G130M, TOI-776 does not pass the bright object protection limits set forth in COS-ISR 2017-01 for flaring Lya conditions. Using the 1222 cenwave places Lyha in the detector gap, ensuring instrument safety.

To sample the egress of each Lya transit, we will use 5-orbit sequences of STIS observations. Passages through the South Atlantic Anomaly (SAA) limit STIS observations to 5 orbit sequences. A single sequence is sucient for the short predicted duration of TOI-776 b's transit. Two sequences must be staggered to sample TOI-776 c's extended egress. The initial sequence will sample pre-transit and ingress. The second will sample egress, with a 2-orbit baseline set 17-24 h (one SAA passage) ahead to compensate for time-variability in the baseline due to the star's 34.4 d rotation (Luque et al., 2020). We will use the 52x0.2" slit with STIS, which ensures systematics from slit breathing are below the >10% precision estimated from the existing observations. Based on the previous observations, we expect 1800-2150 s of science exposure in the first HST-orbit of each visit after target acquisition and other overheads, with the science exposures of subsequent orbits likely lasting 2500 s.

We will conduct COS/G130M observations in three sets of 2-orbit visits for each planet. Each 2-orbit visit will sample baseline and mid-transit within a single observing window outside of the SAA, enabling the greatest sensitivity to O and C+ in the outflow. We have verified that all visits are schedulable within phase constraints using the APT.

We will constrain the observations to occur with a month of when the star appears maximally redshifted relative to Earth to mimize noise at transit wavelengths. For G130M, we will also constrain that observations be taken during low airglow conditions (per special requirement stated in the proposal).

Visit

Proposal 17801, b lya (01), completed Mon Apr 20 15:00:28 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SCHED 100%; Period 8.246620 D AND ZERO-PHASE HJD2459288.8713

Diagnostics

(b lya (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(b lya (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(b lya (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(b lya (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(b lya (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	TOI-776	RA: 11 54 18.3921 (178.5766337d)	Proper Motion RA: 250.996 mas/yr	V=11.536	Reference Frame: ICRS
	Alt Name1: LP-961-53	Dec: -37 33 9.84 (-37.55273d)	Proper Motion Dec: -144.94699998977012 mas/yr		
		Equinox: J2000	Parallax: 0.0368291"		
			Epoch of Position: 2000		

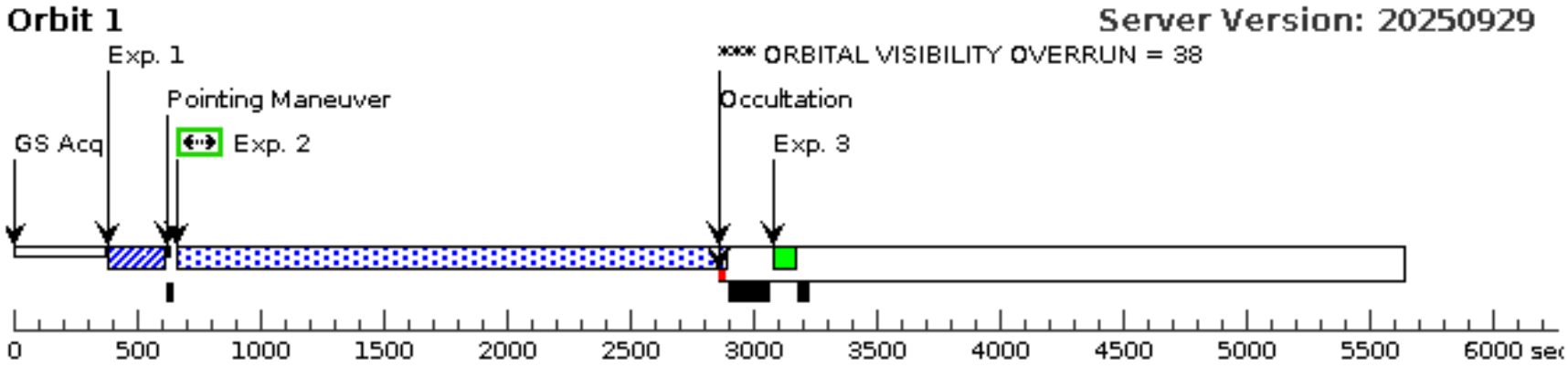
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

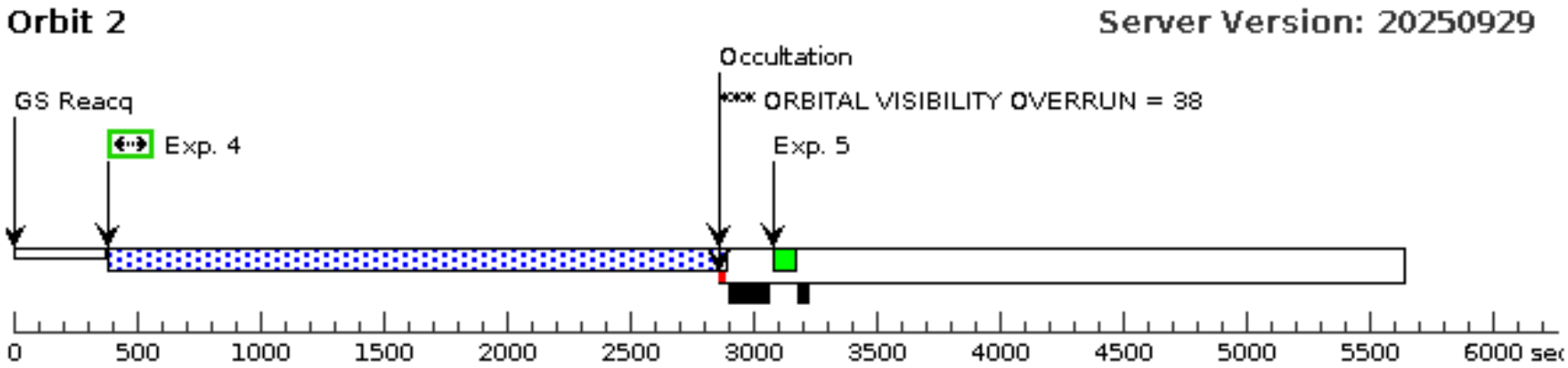
SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET, M V-IV]
Extended=NO

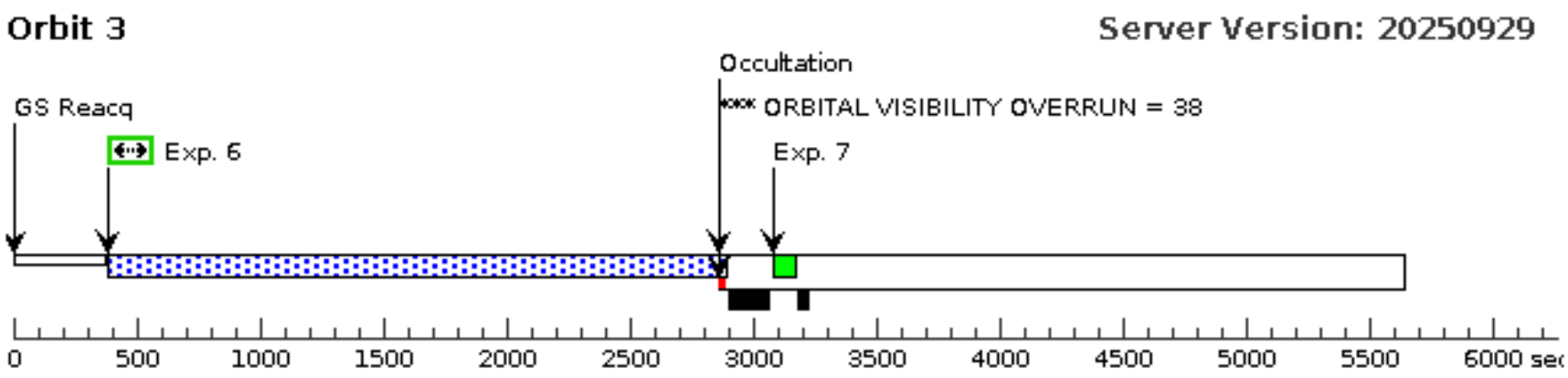
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1934542)	(1) TOI-776	STIS/CCD, ACQ, F28X50LP	MIRROR		PHASE 0.98105284 34679905 TO 0.9886 317060807943		0.1 Secs (0.1 Secs)	
								[==>]	***[1]***
Comments: BOP clearance run STIS.ta.1479509									
2	(1934539)	(1) TOI-776	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140M 1222 A	WAVECAL=NO; BUFFER-TIME=10 325			1500 Secs (2078 Secs)	
								[==>2078.0 Secs]	***[1]***
Comments: BOP ETC run 1934524									
3		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				40 Secs (40 Secs)	
								[==>]	***[1]***
4	(1934539)	(1) TOI-776	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140M 1222 A	WAVECAL=NO; BUFFER-TIME=10 325			1500 Secs (2496 Secs)	
								[==>2496.0 Secs]	***[2]***
Comments: BOP ETC run 1934524									
5		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				40 Secs (40 Secs)	
								[==>]	***[2]***
6	(1934539)	(1) TOI-776	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140M 1222 A	WAVECAL=NO; BUFFER-TIME=10 325			1500 Secs (2496 Secs)	
								[==>2496.0 Secs]	***[3]***
Comments: BOP ETC run 1934524									
7		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				40 Secs (40 Secs)	
								[==>]	***[3]***
8	(1934539)	(1) TOI-776	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140M 1222 A	WAVECAL=NO; BUFFER-TIME=10 325			1500 Secs (2496 Secs)	
								[==>2496.0 Secs]	***[4]***
Comments: BOP ETC run 1934524									
9		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				40 Secs (40 Secs)	
								[==>]	***[4]***
10	(1934539)	(1) TOI-776	STIS/FUV-MAMA, TIME-TAG, 52X0.2	G140M 1222 A	WAVECAL=NO; BUFFER-TIME=10 325			1500 Secs (2496 Secs)	
								[==>2496.0 Secs]	***[5]***
Comments: BOP ETC run 1934524									
11		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				40 Secs (40 Secs)	
								[==>]	***[5]***

Orbit Structure






Orbit 3
Server Version: 20250929
Occultation
GS Reacq
*** ORBITAL VISIBILITY OVERRUN = 38
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Exp. 7
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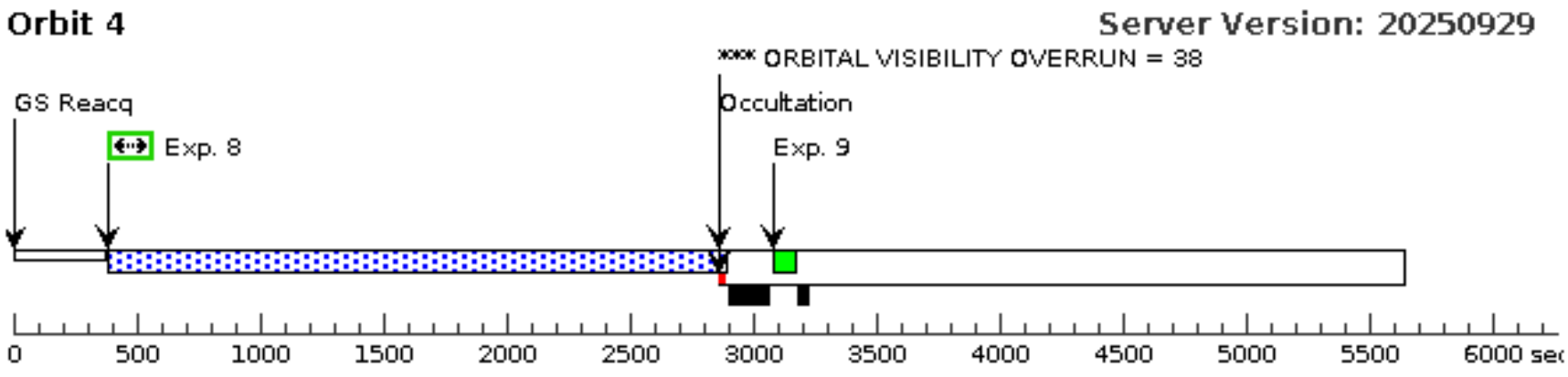
6000 sec


Orbit 4
Server Version: 20250929
*** ORBITAL VISIBILITY OVERRUN = 38
GS Reacq
Occultation
Exp. 8
Exp. 9
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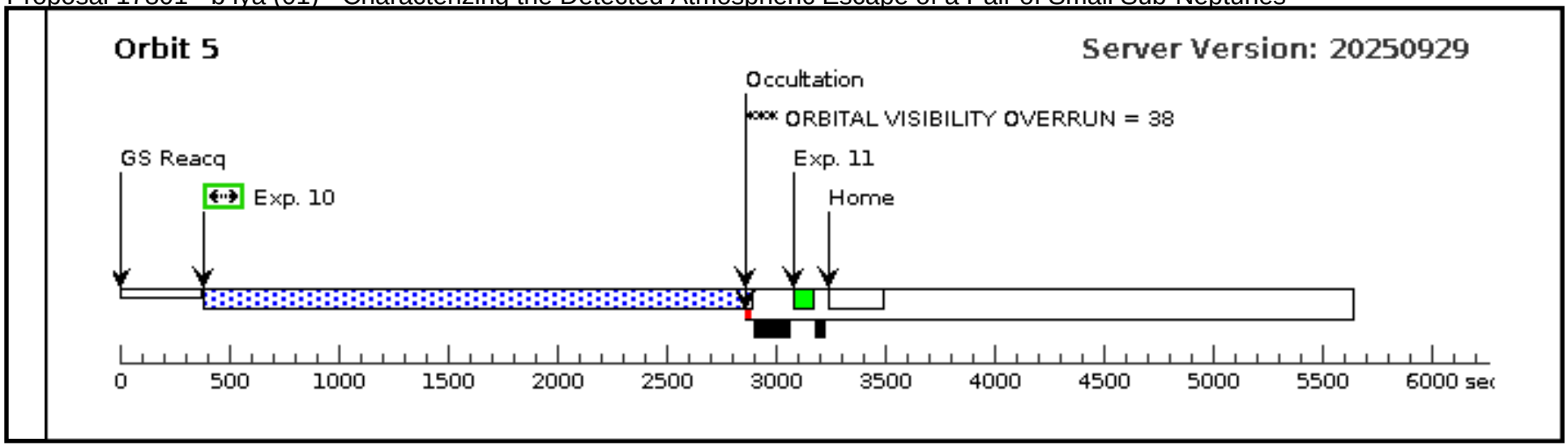
5500
6000 sec


Orbit 5
Server Version: 20250929
Occultation
**** ORBITAL VISIBILITY OVERRUN = 38
GS Reacq
Exp. 10
Exp. 11
Home
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500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17801, c lya 1 (02), implementation Mon Apr 20 15:00:28 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SCHED 100%; Period 15.66534000000 D AND ZERO-PHASE HJD2459026.89405000

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=true		(3), (9), (15)
(2)	Pattern Type=LINE Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=270 Angle Between Sides= Center Pattern=true		(6), (12)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	TOI-776 Alt Name1: LP-961-53	RA: 11 54 18.3921 (178.5766337d) Dec: -37 33 9.84 (-37.55273d) Equinox: J2000	Proper Motion RA: 250.996 mas/yr Proper Motion Dec: -144.94699998977012 mas/yr Parallax: 0.0368291" Epoch of Position: 2000	V=11.536	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

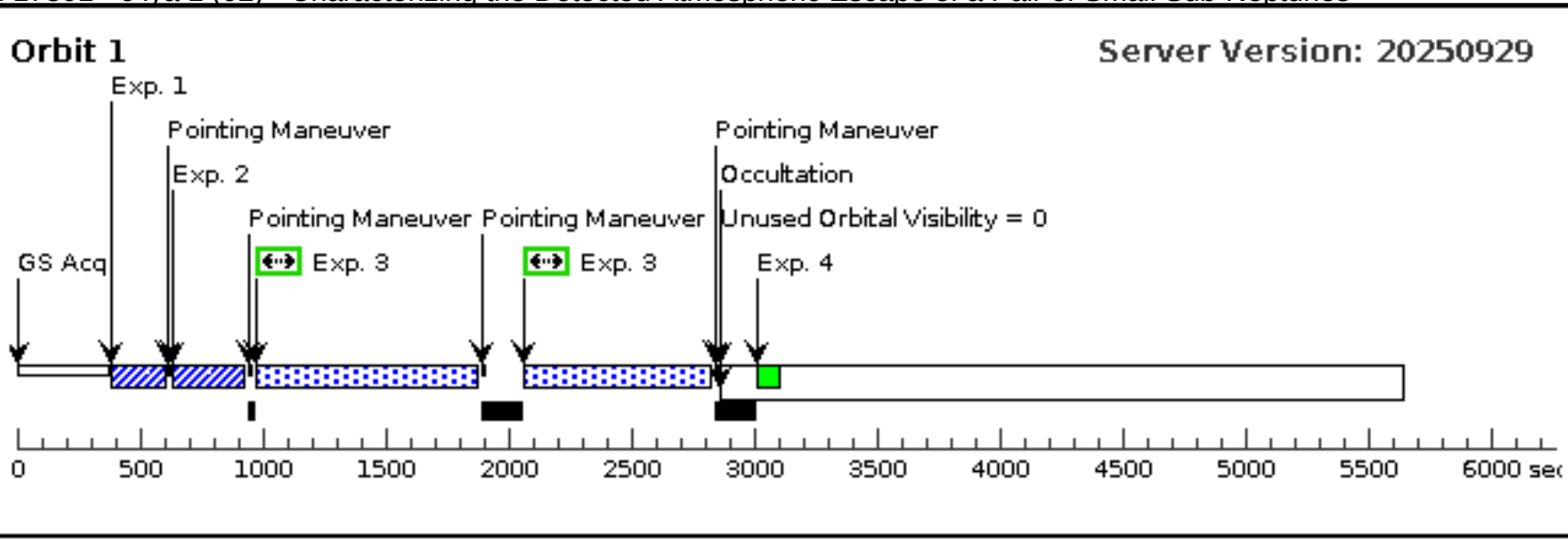
SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET, M V-IV]
Extended=NO

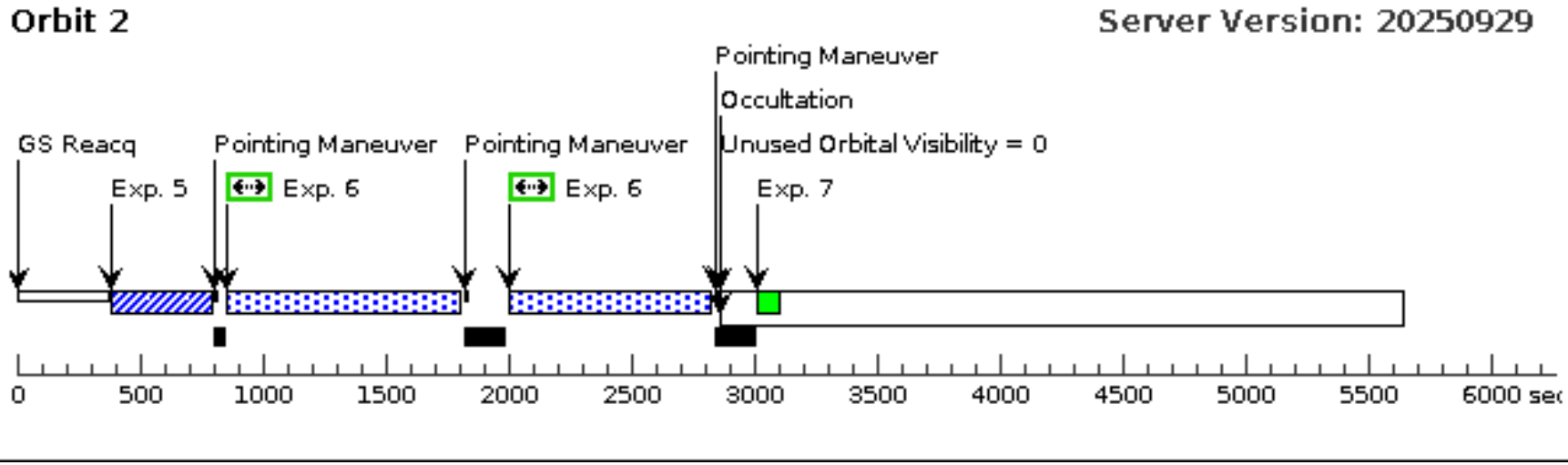
Exposures

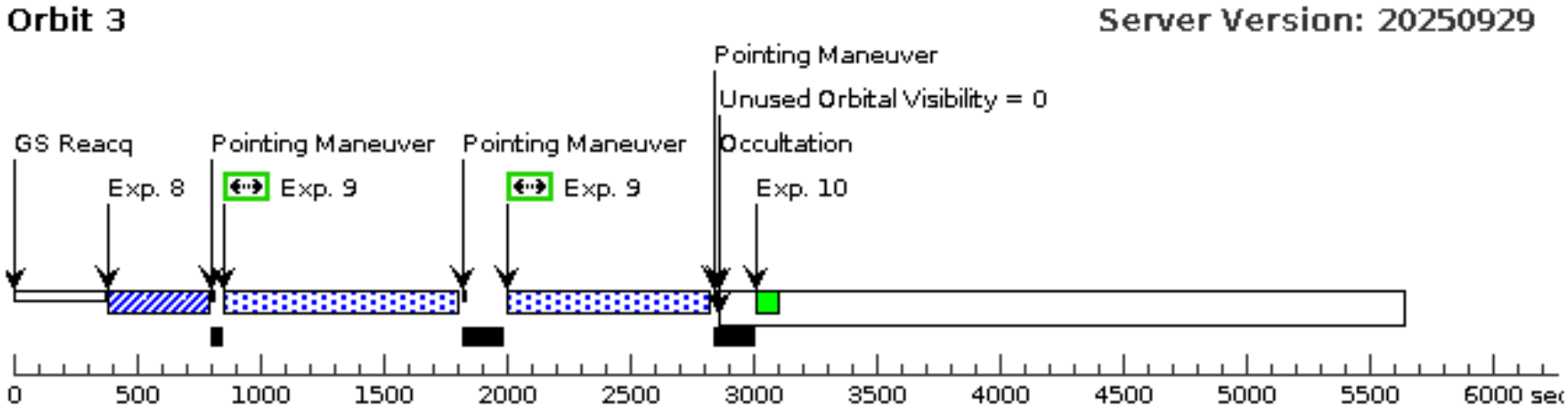
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1934542)	(1) TOI-776	STIS/CCD, ACQ, F28X50LP	MIRROR		PHASE 0.98736593 77041465 TO 0.9913 556415870476		0.1 Secs (0.1 Secs)	
								[==>]	***[1]***
	Comments: BOP clearance run STIS.ta.1479509								
2	(2330183)	(1) TOI-776	STIS/CCD, ACQ/PEAK, 52X0.05	MIRROR				0.2 Secs (0.2 Secs)	
								[==>]	***[1]***
	Comments: BOP clearance run STIS.ta.1479509								
3	(1934539)	(1) TOI-776	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	WAVECAL=NO; BUFFER-TIME=10 325		Pattern 1, Exps 3-3 i n c lya 1 (02) (1)	500 Secs (1482 Secs)	
								[==>741.0 Secs (Pattern 1)] *[==>741.0 Secs (Pattern 2)]*	***[1]***
	Comments: BOP ETC run 1934524								
4		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				40 Secs (40 Secs)	
								[==>]	***[1]***
5	(2330183)	(1) TOI-776	STIS/CCD, ACQ/PEAK, 52X0.05	MIRROR				0.2 Secs (0.2 Secs)	
								[==>]	***[2]***
	Comments: BOP clearance run STIS.ta.1479509								
6	(1934539)	(1) TOI-776	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	WAVECAL=NO; BUFFER-TIME=10 325		Pattern 2, Exps 6-6 i n c lya 1 (02) (2)	500 Secs (1612 Secs)	
								[==>806.0 Secs (Pattern 1)] *[==>806.0 Secs (Pattern 2)]*	***[2]***
	Comments: BOP ETC run 1934524								
7		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				40 Secs (40 Secs)	
								[==>]	***[2]***
8	(2330183)	(1) TOI-776	STIS/CCD, ACQ/PEAK, 52X0.05	MIRROR				0.2 Secs (0.2 Secs)	
								[==>]	***[3]***
	Comments: BOP clearance run STIS.ta.1479509								
9	(1934539)	(1) TOI-776	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	WAVECAL=NO; BUFFER-TIME=10 325		Pattern 1, Exps 9-9 i n c lya 1 (02) (1)	500 Secs (1612 Secs)	
								[==>806.0 Secs (Pattern 1)] *[==>806.0 Secs (Pattern 2)]*	***[3]***
	Comments: BOP ETC run 1934524								
10		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				40 Secs (40 Secs)	
								[==>]	***[3]***
11	(2330183)	(1) TOI-776	STIS/CCD, ACQ/PEAK, 52X0.05	MIRROR				0.2 Secs (0.2 Secs)	
								[==>]	***[4]***
	Comments: BOP clearance run STIS.ta.1479509								
12	(1934539)	(1) TOI-776	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	WAVECAL=NO; BUFFER-TIME=10 325		Pattern 2, Exps 12-1 2 in c lya 1 (02) (2)	500 Secs (1612 Secs)	
								[==>806.0 Secs (Pattern 1)] *[==>806.0 Secs (Pattern 2)]*	***[4]***
	Comments: BOP ETC run 1934524								
13		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				40 Secs (40 Secs)	
								[==>]	***[4]***
14	(2330183)	(1) TOI-776	STIS/CCD, ACQ/PEAK, 52X0.05	MIRROR				0.2 Secs (0.2 Secs)	
								[==>]	***[5]***
	Comments: BOP clearance run STIS.ta.1479509								

	15	(1934539)	(1) TOI-776	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	WAVECAL=NO; BUFFER-TIME=10325	Pattern 1, Exps 15-15 in c lya 1 (02) (1)	500 Secs (1640 Secs) *[==>820.0 Secs (Pattern 1)]* *[==>820.0 Secs (Pattern 2)]*	 ***[5]***
	Comments: BOP ETC run 1934524								
	16		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A			40 Secs (40 Secs) *[==>]*	 ***[5]***

Orbit Structure






Orbit 3
Server Version: 20250929
Pointing Maneuver
Unused Orbital Visibility = 0
GS Reacq
Pointing Maneuver
Pointing Maneuver
Occultation
Exp. 8
Exp. 9
Exp. 9
Exp. 10
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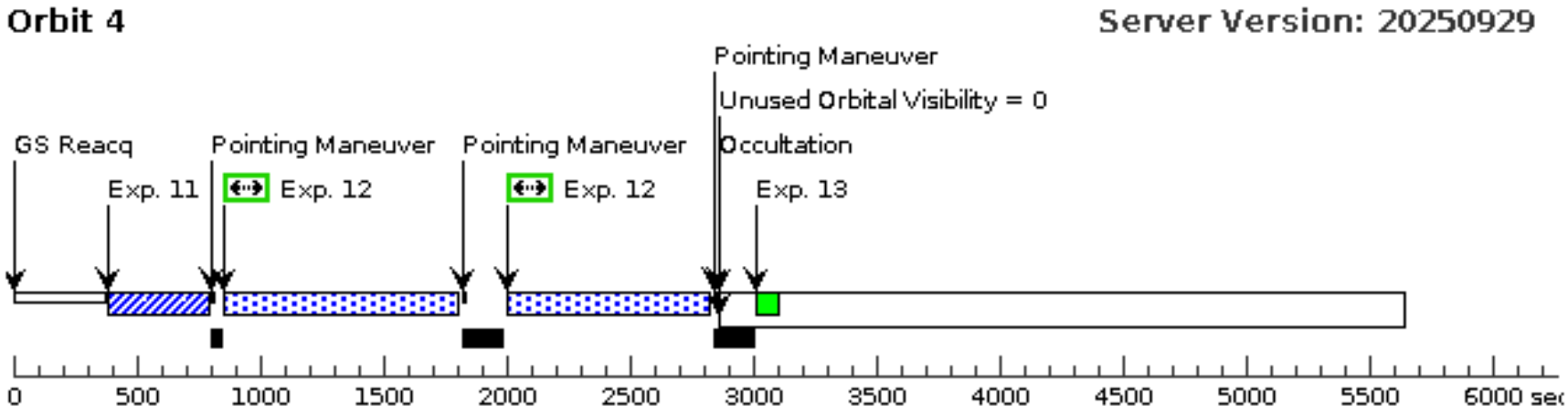
6000 sec


Orbit 4
Server Version: 20250929
Pointing Maneuver
Unused Orbital Visibility = 0
GS Reacq
Pointing Maneuver
Pointing Maneuver
Occultation
Exp. 11
Exp. 12
Exp. 12
Exp. 13
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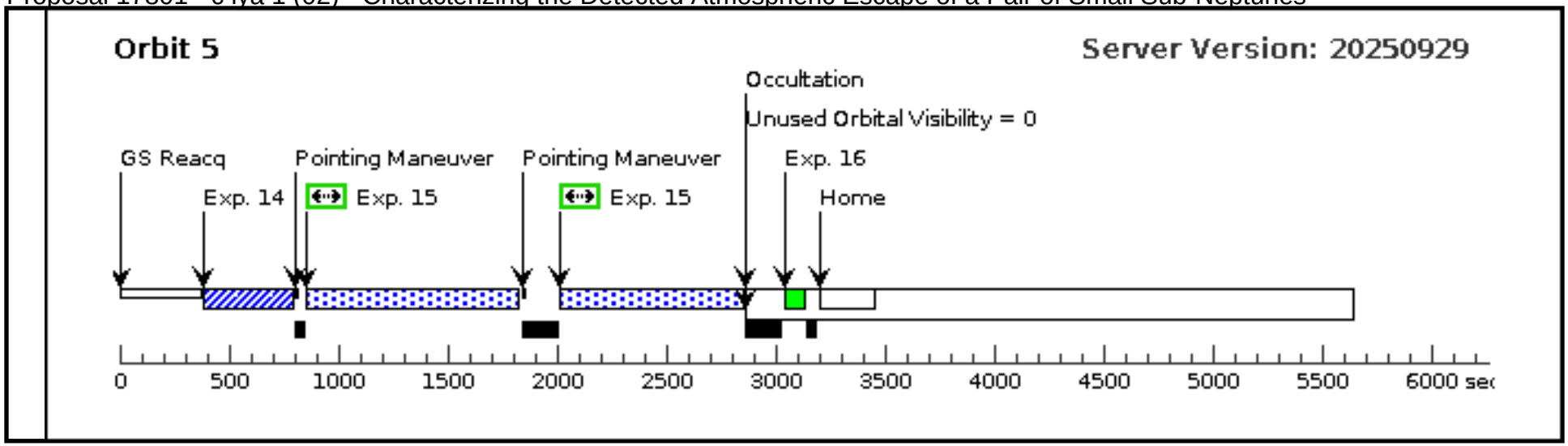
6000 sec


Orbit 5
Server Version: 20250929
Occultation
Unused Orbital Visibility = 0
GS Reacq
Pointing Maneuver
Pointing Maneuver
Exp. 16
Exp. 14
Exp. 15
Exp. 15
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17801, c lya 2 pre (03), implementation Mon Apr 20 15:00:28 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SCHED 100%; AFTER 02 BY 30 D TO 700 D

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=true		(3)
(2)	Pattern Type=LINE Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=270 Angle Between Sides= Center Pattern=true		(6)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	TOI-776 Alt Name1: LP-961-53	RA: 11 54 18.3921 (178.5766337d) Dec: -37 33 9.84 (-37.55273d) Equinox: J2000	Proper Motion RA: 250.996 mas/yr Proper Motion Dec: -144.94699998977012 mas/yr Parallax: 0.0368291" Epoch of Position: 2000	V=11.536	Reference Frame: ICRS

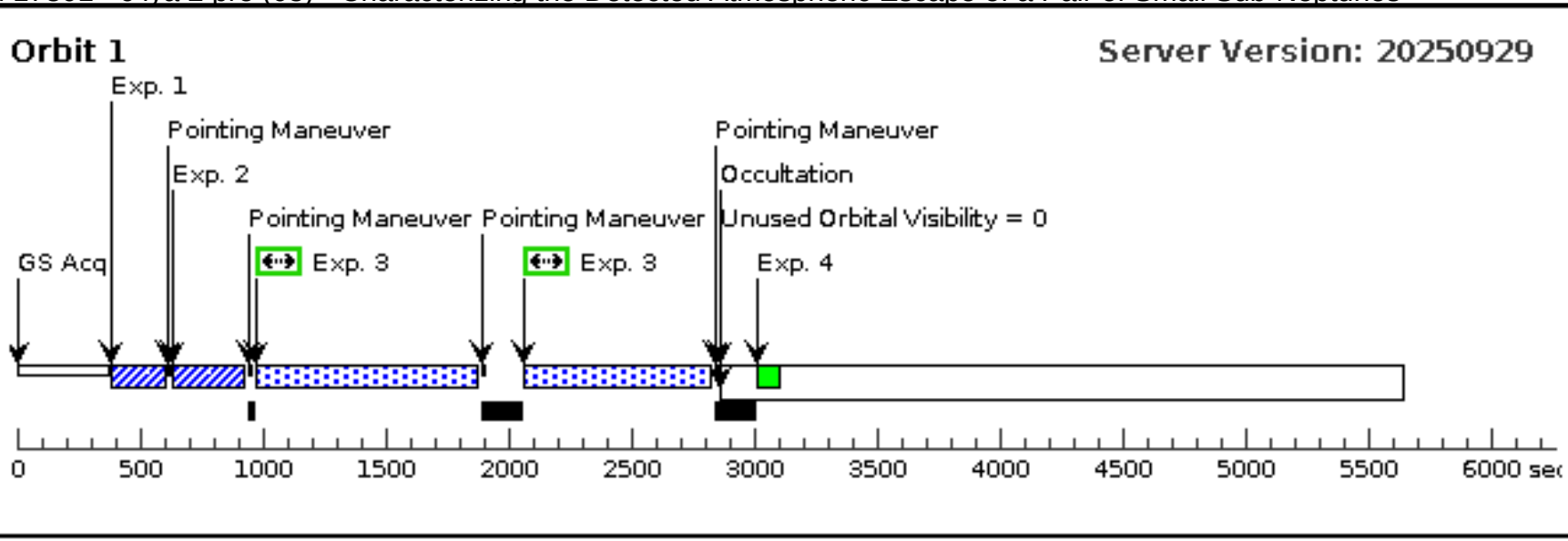
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

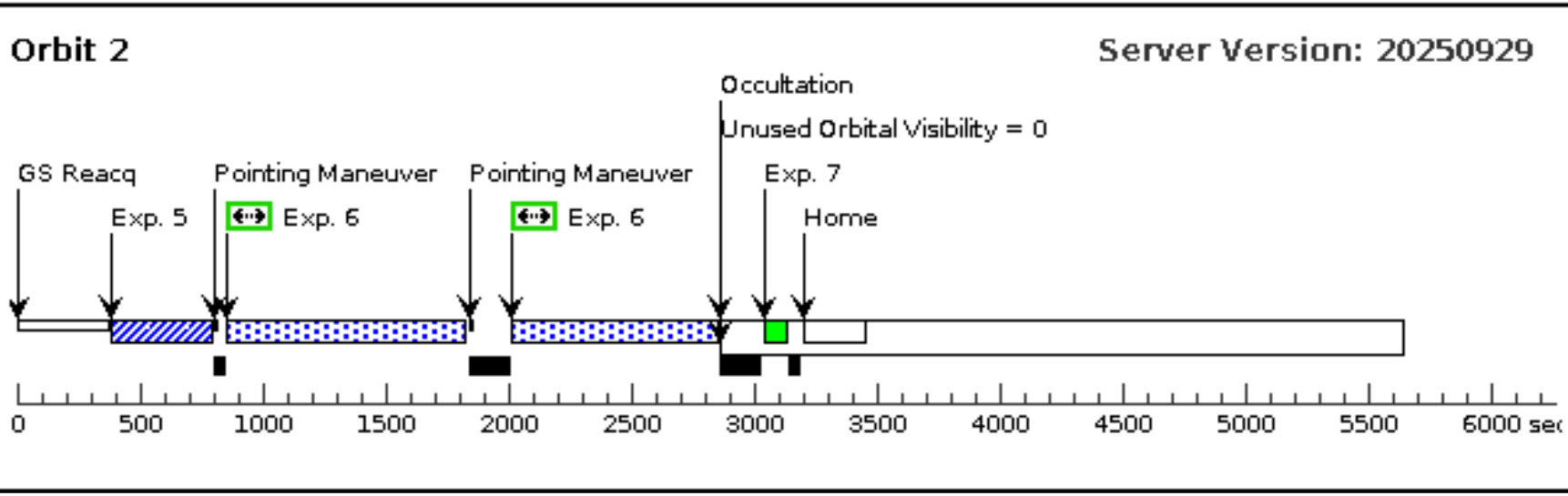
SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET, M V-IV]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1934542)	(1) TOI-776	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	***[1]***
Comments: BOP clearance run STIS.ta.1479509									
2	(2330183)	(1) TOI-776	STIS/CCD, ACQ/PEAK, 52X0.05	MIRROR				0.2 Secs (0.2 Secs) *[==>]*	***[1]***
Comments: BOP clearance run STIS.ta.1479509									
3	(1934539)	(1) TOI-776	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	WAVECAL=NO; BUFFER-TIME=10 325		Pattern 1, Exps 3-3 i n c lya 2 pre (03) (1)	500 Secs (1482 Secs) *[==>741.0 Secs (Pattern 1)]* *[==>741.0 Secs (Pattern 2)]*	***[1]***
Comments: BOP ETC run 1934524									
4		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				40 Secs (40 Secs) *[==>]*	***[1]***
5	(2330183)	(1) TOI-776	STIS/CCD, ACQ/PEAK, 52X0.05	MIRROR				0.2 Secs (0.2 Secs) *[==>]*	***[2]***
Comments: BOP clearance run STIS.ta.1479509									
6	(1934539)	(1) TOI-776	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	WAVECAL=NO; BUFFER-TIME=10 325		Pattern 2, Exps 6-6 i n c lya 2 pre (03) (2)	500 Secs (1640 Secs) *[==>820.0 Secs (Pattern 1)]* *[==>820.0 Secs (Pattern 2)]*	***[2]***
Comments: BOP ETC run 1934524									
7		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				40 Secs (40 Secs) *[==>]*	***[2]***

Orbit Structure





Visit

Proposal 17801, c lya 2 (04), implementation Mon Apr 20 15:00:28 GMT 2026

Diagnostic Status: No Diagnostics

Scientific Instruments: STIS/CCD, STIS/FUV-MAMA

Special Requirements: SCHED 100%; AFTER_03 BY 0.5 D TO 1.5 D; Period 15.66534000000 D AND ZERO-PHASE HJD2459026.89405000

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=STIS-ALONG-SLIT Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=true		(3), (9), (15)
(2)	Pattern Type=LINE Purpose=BACKGROUND Number Of Points=2 Point Spacing=0.58 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=270 Angle Between Sides= Center Pattern=true		(6), (12)

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	TOI-776 Alt Name1: LP-961-53	RA: 11 54 18.3921 (178.5766337d) Dec: -37 33 9.84 (-37.55273d) Equinox: J2000	Proper Motion RA: 250.996 mas/yr Proper Motion Dec: -144.94699998977012 mas/yr Parallax: 0.0368291" Epoch of Position: 2000	V=11.536	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

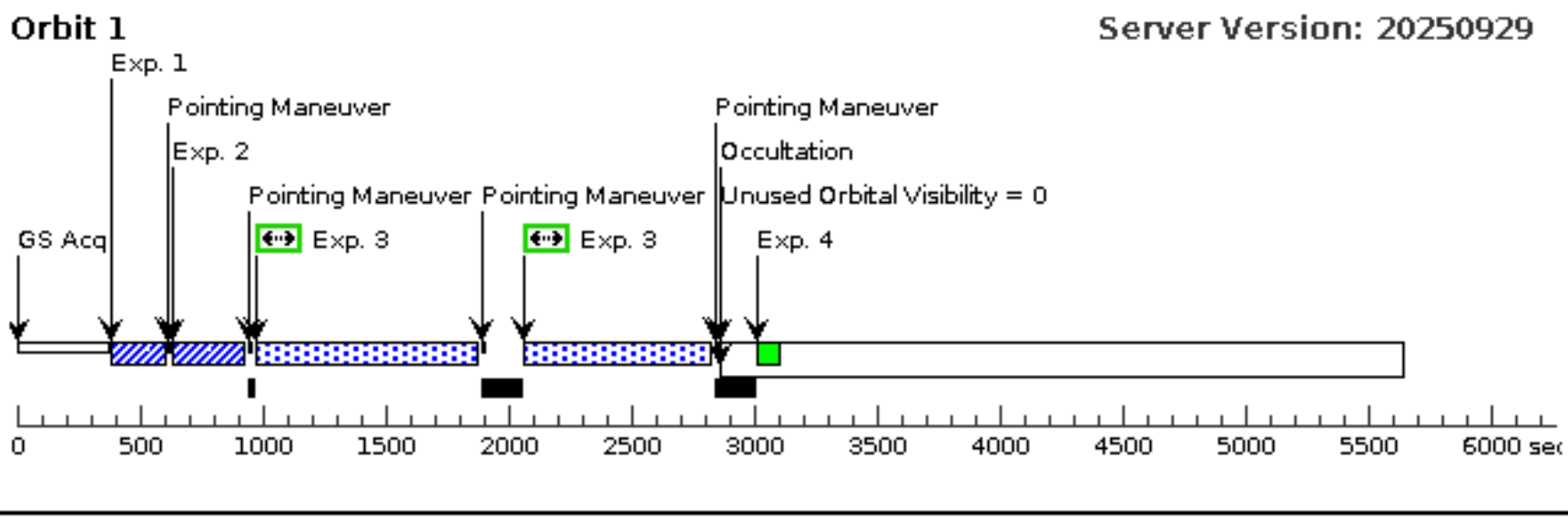
SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET, M V-IV]
Extended=NO

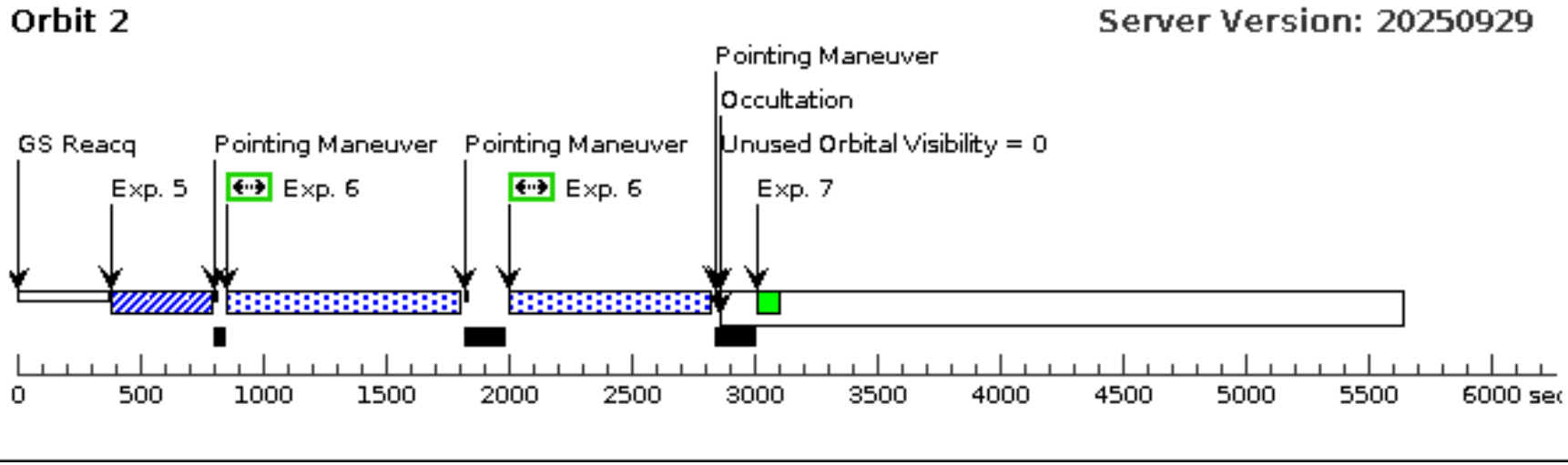
Exposures

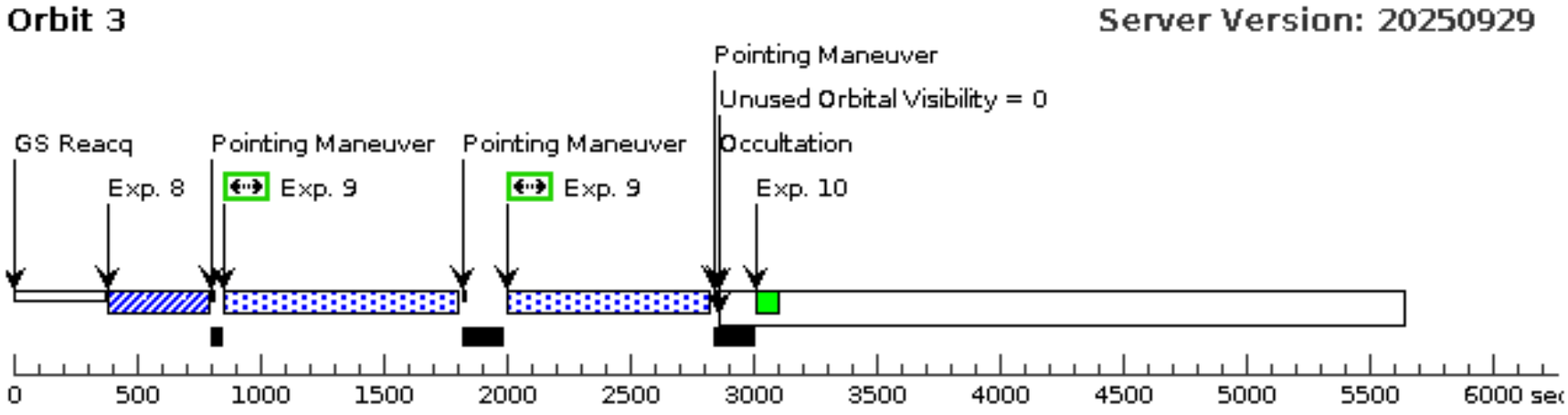
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1934542)	(1) TOI-776	STIS/CCD, ACQ, F28X50LP	MIRROR		PHASE 0.00199485 19414505527 TO 0.0 05984555824351659		0.1 Secs (0.1 Secs) *[==>]*	***[1]***
Comments: BOP clearance run STIS.ta.1479509									
2	(2330183)	(1) TOI-776	STIS/CCD, ACQ/PEAK, 52X0.05	MIRROR				0.2 Secs (0.2 Secs) *[==>]*	***[1]***
Comments: BOP clearance run STIS.ta.1479509									
3	(1934539)	(1) TOI-776	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	WAVECAL=NO; BUFFER-TIME=10 325		Pattern 1, Exps 3-3 i n c lya 2 (04) (1)	500 Secs (1482 Secs) *[==>741.0 Secs (Pattern 1)]* *[==>741.0 Secs (Pattern 2)]*	***[1]***
Comments: BOP ETC run 1934524									
4		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				40 Secs (40 Secs) *[==>]*	***[1]***
5	(2330183)	(1) TOI-776	STIS/CCD, ACQ/PEAK, 52X0.05	MIRROR				0.2 Secs (0.2 Secs) *[==>]*	***[2]***
Comments: BOP clearance run STIS.ta.1479509									
6	(1934539)	(1) TOI-776	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	WAVECAL=NO; BUFFER-TIME=10 325		Pattern 2, Exps 6-6 i n c lya 2 (04) (2)	500 Secs (1612 Secs) *[==>806.0 Secs (Pattern 1)]* *[==>806.0 Secs (Pattern 2)]*	***[2]***
Comments: BOP ETC run 1934524									
7		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				40 Secs (40 Secs) *[==>]*	***[2]***
8	(2330183)	(1) TOI-776	STIS/CCD, ACQ/PEAK, 52X0.05	MIRROR				0.2 Secs (0.2 Secs) *[==>]*	***[3]***
Comments: BOP clearance run STIS.ta.1479509									
9	(1934539)	(1) TOI-776	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	WAVECAL=NO; BUFFER-TIME=10 325		Pattern 1, Exps 9-9 i n c lya 2 (04) (1)	500 Secs (1612 Secs) *[==>806.0 Secs (Pattern 1)]* *[==>806.0 Secs (Pattern 2)]*	***[3]***
Comments: BOP ETC run 1934524									
10		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				40 Secs (40 Secs) *[==>]*	***[3]***
11	(2330183)	(1) TOI-776	STIS/CCD, ACQ/PEAK, 52X0.05	MIRROR				0.2 Secs (0.2 Secs) *[==>]*	***[4]***
Comments: BOP clearance run STIS.ta.1479509									
12	(1934539)	(1) TOI-776	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	WAVECAL=NO; BUFFER-TIME=10 325		Pattern 2, Exps 12-1 2 in c lya 2 (04) (2)	500 Secs (1612 Secs) *[==>806.0 Secs (Pattern 1)]* *[==>806.0 Secs (Pattern 2)]*	***[4]***
Comments: BOP ETC run 1934524									
13		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A				40 Secs (40 Secs) *[==>]*	***[4]***
14	(2330183)	(1) TOI-776	STIS/CCD, ACQ/PEAK, 52X0.05	MIRROR				0.2 Secs (0.2 Secs) *[==>]*	***[5]***
Comments: BOP clearance run STIS.ta.1479509									

	15	(1934539)	(1) TOI-776	STIS/FUV-MAMA, TIME-TAG, 52X0.2D1	G140M 1222 A	WAVECAL=NO; BUFFER-TIME=10325	Pattern 1, Exps 15-15 in c lya 2 (04) (1)	500 Secs (1640 Secs) *[==>820.0 Secs (Pattern 1)]* *[==>820.0 Secs (Pattern 2)]*	 ***[5]***
	Comments: BOP ETC run 1934524								
	16		WAVE	STIS/FUV-MAMA, ACCUM, 52X0.2	G140M 1222 A			40 Secs (40 Secs) *[==>]*	 ***[5]***

Orbit Structure






Orbit 3
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Pointing Maneuver
Unused Orbital Visibility = 0
GS Reacq
Pointing Maneuver
Pointing Maneuver
Occultation
Exp. 8
Exp. 9
Exp. 9
Exp. 10
0
500
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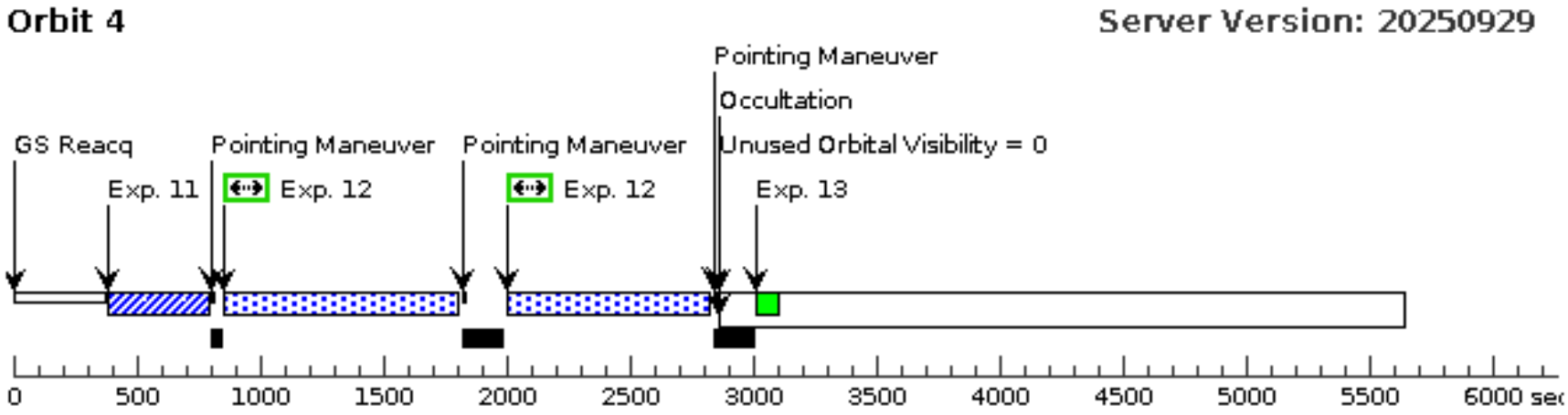
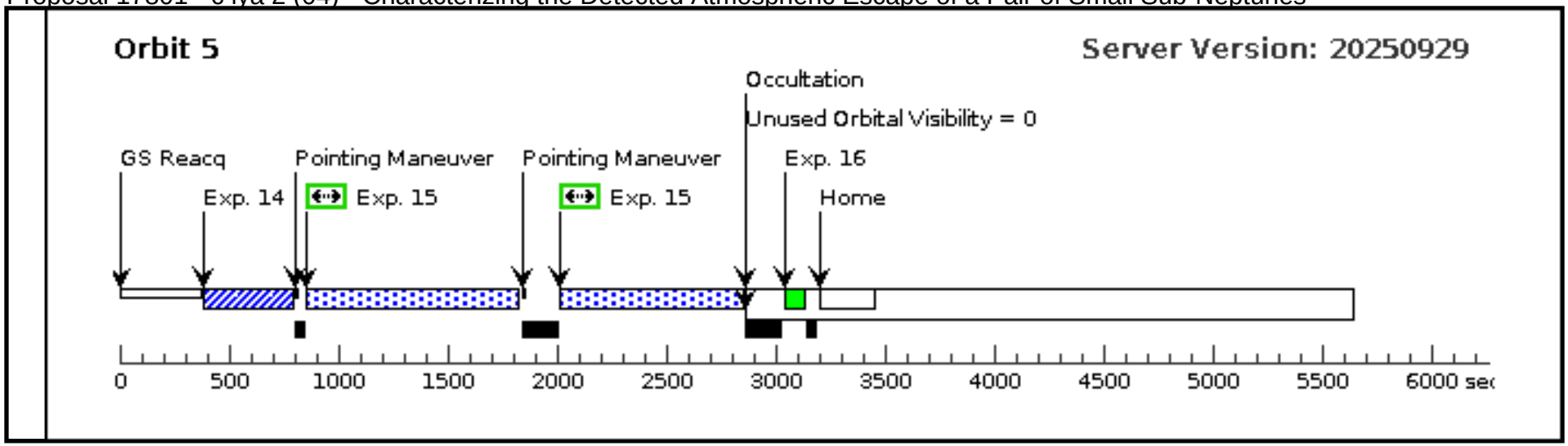
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 4
Server Version: 20250929
Pointing Maneuver
Occultation
GS Reacq
Pointing Maneuver
Pointing Maneuver
Unused Orbital Visibility = 0
Exp. 11
Exp. 12
Exp. 12
Exp. 13
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec


Orbit 5
Server Version: 20250929
Occultation
Unused Orbital Visibility = 0
GS Reacq
Pointing Maneuver
Pointing Maneuver
Exp. 16
Exp. 14
Exp. 15
Exp. 15
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000 sec

Visit

Proposal 17801, b O 1 pre (05), completed

Mon Apr 20 15:00:28 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(b O 1 pre (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Exposure 2 (b O 1 pre (05))) Informational (Form): 1222 is not a valid selection.

(Exposure 2 (b O 1 pre (05))) Informational (Form): G130M is not a valid selection.

(Exposure 2 (b O 1 pre (05))) Informational (Form): Illegal selection: PSA.

(Exposure 2 (b O 1 pre (05))) Informational (Form): LP4 is not a valid selection

(Exposure 2 (b O 1 pre (05))) Informational (Form): LP4 is not a valid selection

(Exposure 2 (b O 1 pre (05))) Informational (Form): This attribute cannot have this value due to other choices: Aperture=PSA.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 pre (05))) Informational (Form): This attribute cannot have this value due to other choices: Config=COS/FUV.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 pre (05))) Informational (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LIFETIME-POS=LP4.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 pre (05))) Informational (Form): This attribute cannot have this value due to other choices: Spectral_Element=G130M.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 pre (05))) Informational (Form): This attribute cannot have this value due to other choices: Wavelength=1222.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	TOI-776 Alt Name1: LP-961-53	RA: 11 54 18.3921 (178.5766337d) Dec: -37 33 9.84 (-37.55273d) Equinox: J2000	Proper Motion RA: 250.996 mas/yr Proper Motion Dec: -144.94699998977012 mas/yr Parallax: 0.0368291" Epoch of Position: 2000	V=11.536	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET, M V-IV]
Extended=NO

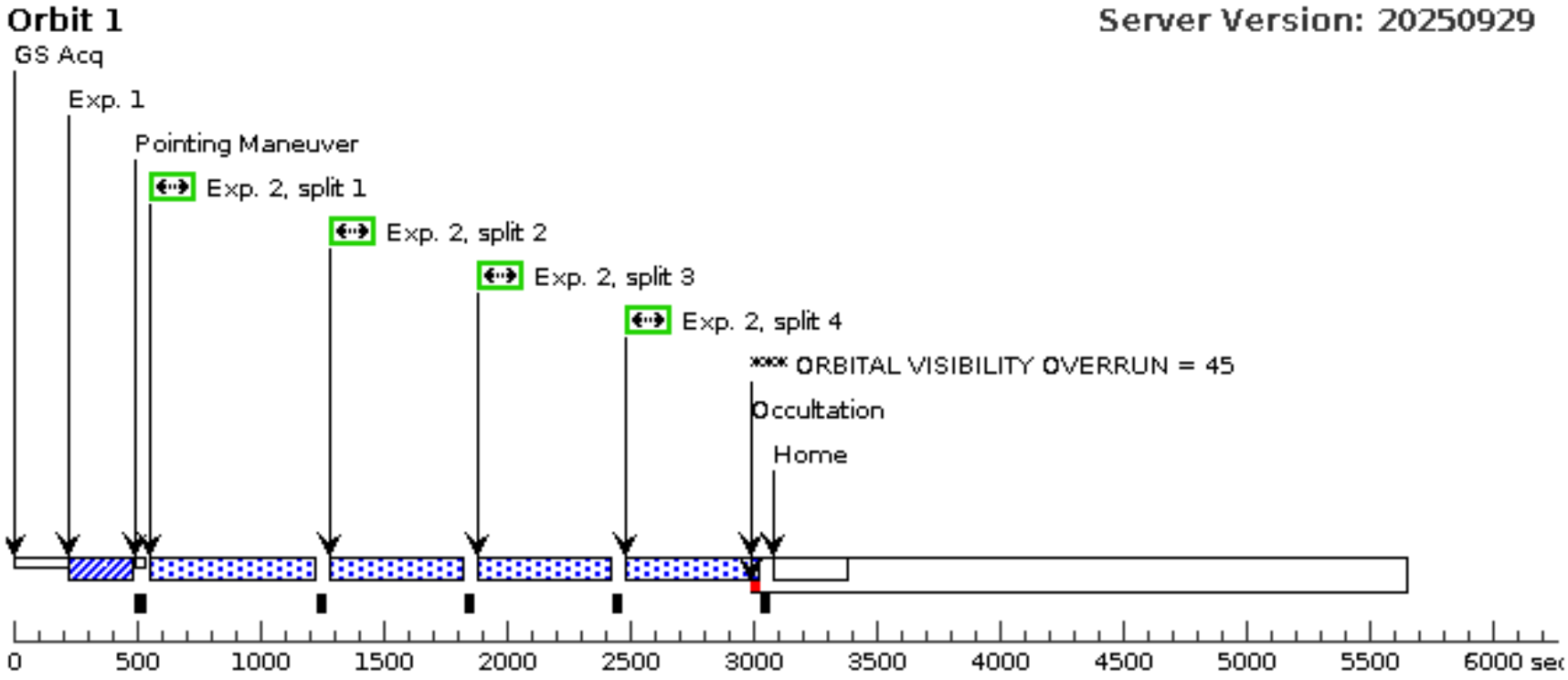
(2)	GAIA-DR3-3460426945338850560	RA: 11 54 23.3607 (178.5973363d) Dec: -37 33 20.01 (-37.55556d) Equinox: J2000	Proper Motion RA: 2.454294233292158 mas/yr Proper Motion Dec: -3.3038046699915924 mas/yr Parallax: 0.0006832228944926934" Epoch of Position: 2016.0	V=14.573477191733819	Reference Frame: ICRS

Comments: V mag estimated from G mag via https://gea.esac.esa.int/archive/documentation/GEDR3/Data_processing/chap_cu5pho/cu5pho_sec_photSystem/cu5pho_ssec_photRelations.html
Category=STAR
Description=[G V-IV]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1939179)	(2) GAIA-DR3-3460426945338850560	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				21 Secs (21 Secs) *[==>]*	*[1]*
Comments: flare BOP run 1934551									
2	(1934539)	(1) TOI-776	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=4294; FP-POS=ALL; LIFETIME-POS=LP4			10 Secs (1944 Secs) *[==>486.0 Secs (Split 1)]* *[==>486.0 Secs (Split 2)]* *[==>486.0 Secs (Split 3)]* *[==>486.0 Secs (Split 4)]*	*[1]*
Comments: BOP ETC run 1934553									

Orbit Structure



Visit

Proposal 17801, b O 1 in (06), completed Mon Apr 20 15:00:28 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: AFTER_05 BY 3_Orbits TO 5_Orbits; Period 8.246620 D AND ZERO-PHASE HJD2459288.8713

Diagnostics

(b O 1 in (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Exposure 2 (b O 1 in (06))) Informational (Form): 1222 is not a valid selection.

(Exposure 2 (b O 1 in (06))) Informational (Form): G130M is not a valid selection.

(Exposure 2 (b O 1 in (06))) Informational (Form): Illegal selection: PSA.

(Exposure 2 (b O 1 in (06))) Informational (Form): LP4 is not a valid selection

(Exposure 2 (b O 1 in (06))) Informational (Form): LP4 is not a valid selection

(Exposure 2 (b O 1 in (06))) Informational (Form): This attribute cannot have this value due to other choices: Aperture=PSA.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 in (06))) Informational (Form): This attribute cannot have this value due to other choices: Config=COS/FUV.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 in (06))) Informational (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LIFETIME-POS=LP4.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 in (06))) Informational (Form): This attribute cannot have this value due to other choices: Spectral_Element=G130M.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 in (06))) Informational (Form): This attribute cannot have this value due to other choices: Wavelength=1222.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	TOI-776 Alt Name1: LP-961-53	RA: 11 54 18.3921 (178.5766337d) Dec: -37 33 9.84 (-37.55273d) Equinox: J2000	Proper Motion RA: 250.996 mas/yr Proper Motion Dec: -144.94699998977012 mas/yr Parallax: 0.0368291" Epoch of Position: 2000	V=11.536	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET, M V-IV]
Extended=NO

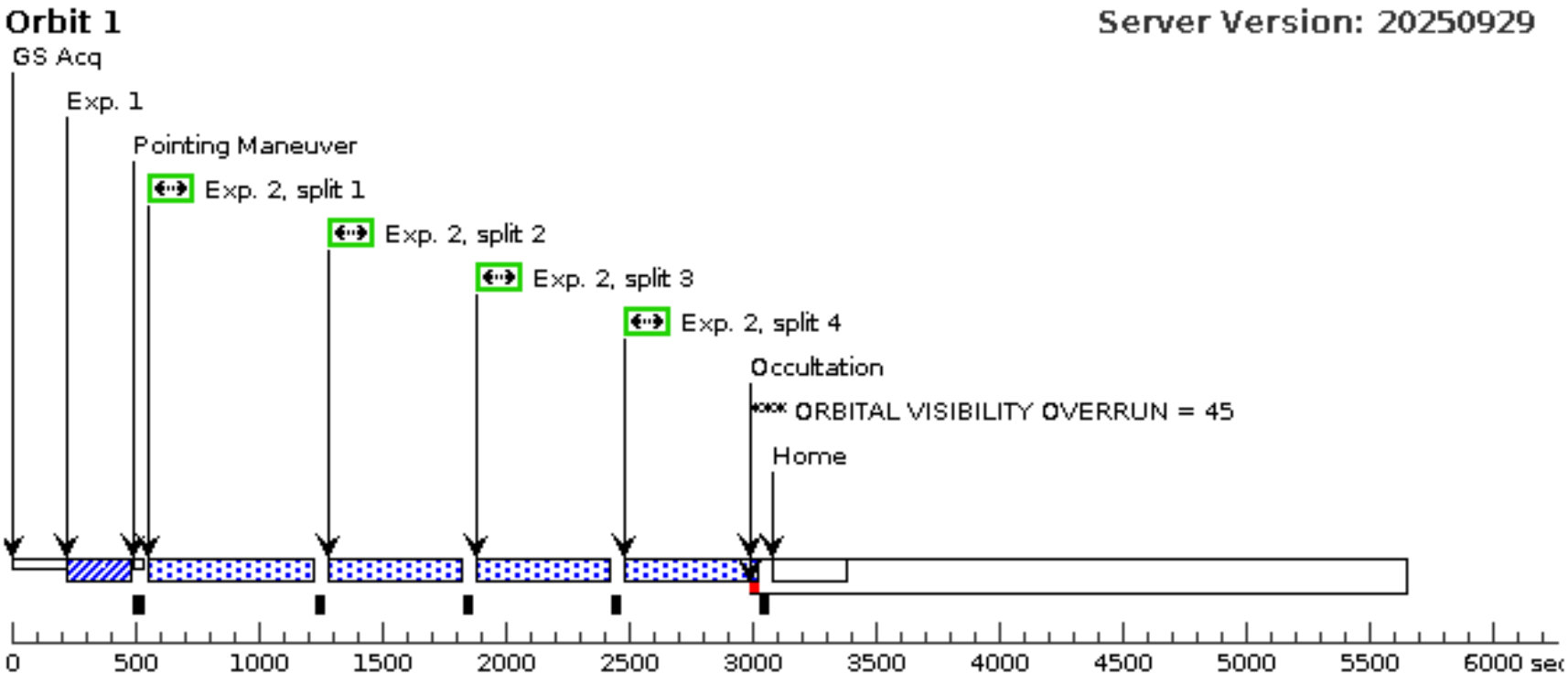
(2)	GAIA-DR3-3460426945338850560	RA: 11 54 23.3607 (178.5973363d) Dec: -37 33 20.01 (-37.55556d) Equinox: J2000	Proper Motion RA: 2.454294233292158 mas/yr Proper Motion Dec: -3.3038046699915924 mas/yr Parallax: 0.0006832228944926934" Epoch of Position: 2016.0	V=14.573477191733819	Reference Frame: ICRS

Comments: V mag estimated from G mag via https://gea.esac.esa.int/archive/documentation/GEDR3/Data_processing/chap_cu5pho/cu5pho_sec_photSystem/cu5pho_ssec_photRelations.html
Category=STAR
Description=[G V-IV]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1934550)	(2) GAIA-DR3-3460426945338850560	COS/NUV, ACQ/IMAGE, PSA	MIRRORA		PHASE 0.99621056 86935981 TO 0.0037894313064018954		21 Secs (21 Secs) *[==>]*	*[1]*
	Comments: flare BOP run 1934551								
2	(1934539)	(1) TOI-776	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=4294; FP-POS=ALL; LIFETIME-POS=LP4			100 Secs (1944 Secs) *[==>486.0 Secs (Split 1)]* *[==>486.0 Secs (Split 2)]* *[==>486.0 Secs (Split 3)]* *[==>486.0 Secs (Split 4)]*	*[1]*
	Comments: BOP ETC run 1934553								

Orbit Structure



Visit

Proposal 17801, b O 1 pre (07), failed

Mon Apr 20 15:00:29 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(b O 1 pre (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Exposure 2 (b O 1 pre (07))) Informational (Form): 1222 is not a valid selection.

(Exposure 2 (b O 1 pre (07))) Informational (Form): G130M is not a valid selection.

(Exposure 2 (b O 1 pre (07))) Informational (Form): Illegal selection: PSA.

(Exposure 2 (b O 1 pre (07))) Informational (Form): LP4 is not a valid selection

(Exposure 2 (b O 1 pre (07))) Informational (Form): LP4 is not a valid selection

(Exposure 2 (b O 1 pre (07))) Informational (Form): This attribute cannot have this value due to other choices: Aperture=PSA.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 pre (07))) Informational (Form): This attribute cannot have this value due to other choices: Config=COS/FUV.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 pre (07))) Informational (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LIFETIME-POS=LP4.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 pre (07))) Informational (Form): This attribute cannot have this value due to other choices: Spectral_Element=G130M.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 pre (07))) Informational (Form): This attribute cannot have this value due to other choices: Wavelength=1222.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	TOI-776 Alt Name1: LP-961-53	RA: 11 54 18.3921 (178.5766337d) Dec: -37 33 9.84 (-37.55273d) Equinox: J2000	Proper Motion RA: 250.996 mas/yr Proper Motion Dec: -144.94699998977012 mas/yr Parallax: 0.0368291" Epoch of Position: 2000	V=11.536	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET, M V-IV]
Extended=NO

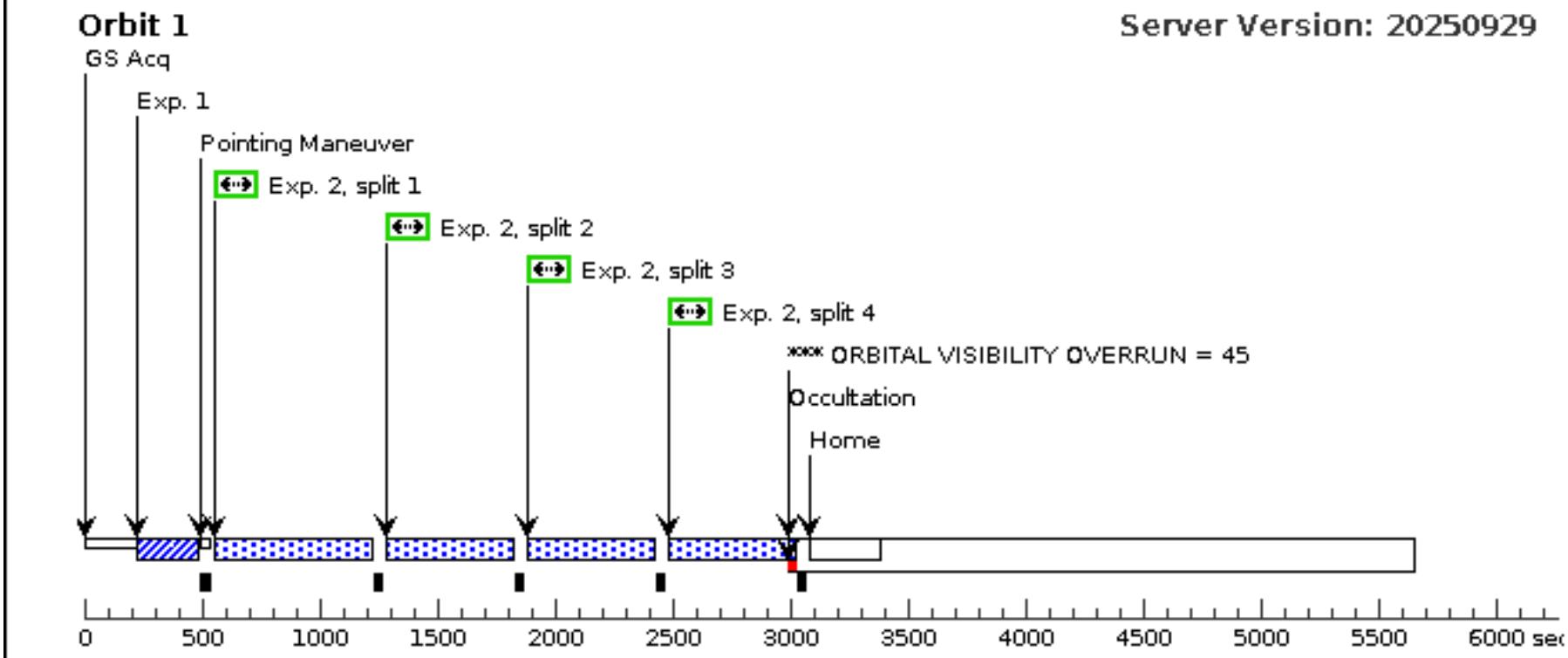
(2)	GAIA-DR3-3460426945338850560	RA: 11 54 23.3607 (178.5973363d) Dec: -37 33 20.01 (-37.55556d) Equinox: J2000	Proper Motion RA: 2.454294233292158 mas/yr Proper Motion Dec: -3.3038046699915924 mas/yr Parallax: 0.0006832228944926934" Epoch of Position: 2016.0	V=14.573477191733819	Reference Frame: ICRS

Comments: V mag estimated from G mag via https://gea.esac.esa.int/archive/documentation/GEDR3/Data_processing/chap_cu5pho/cu5pho_sec_photSystem/cu5pho_ssec_photRelations.html
Category=STAR
Description=[G V-IV]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1934550)	(2) GAIA-DR3-3460426945338850560	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				21 Secs (21 Secs) *[==>]*	*[1]*
Comments: flare BOP run 1934551									
2	(1934539)	(1) TOI-776	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=4294; FP-POS=ALL; LIFETIME-POS=LP4			100 Secs (1944 Secs) *[==>486.0 Secs (Split 1)]* *[==>486.0 Secs (Split 2)]* *[==>486.0 Secs (Split 3)]* *[==>486.0 Secs (Split 4)]*	*[1]*
Comments: BOP ETC run 1934553									

Orbit Structure



Visit

Proposal 17801, b O 1 in (08), failed Mon Apr 20 15:00:29 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: AFTER_07 BY 3_Orbits TO 5_Orbits; Period 8.246620 D AND ZERO-PHASE HJD2459288.8713

Diagnostics

(b O 1 in (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Exposure 2 (b O 1 in (08))) Informational (Form): 1222 is not a valid selection.

(Exposure 2 (b O 1 in (08))) Informational (Form): G130M is not a valid selection.

(Exposure 2 (b O 1 in (08))) Informational (Form): Illegal selection: PSA.

(Exposure 2 (b O 1 in (08))) Informational (Form): LP4 is not a valid selection

(Exposure 2 (b O 1 in (08))) Informational (Form): LP4 is not a valid selection

(Exposure 2 (b O 1 in (08))) Informational (Form): This attribute cannot have this value due to other choices: Aperture=PSA.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 in (08))) Informational (Form): This attribute cannot have this value due to other choices: Config=COS/FUV.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 in (08))) Informational (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LIFETIME-POS=LP4.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 in (08))) Informational (Form): This attribute cannot have this value due to other choices: Spectral_Element=G130M.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 in (08))) Informational (Form): This attribute cannot have this value due to other choices: Wavelength=1222.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	TOI-776 Alt Name1: LP-961-53	RA: 11 54 18.3921 (178.5766337d) Dec: -37 33 9.84 (-37.55273d) Equinox: J2000	Proper Motion RA: 250.996 mas/yr Proper Motion Dec: -144.94699998977012 mas/yr Parallax: 0.0368291" Epoch of Position: 2000	V=11.536	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET, M V-IV]
Extended=NO

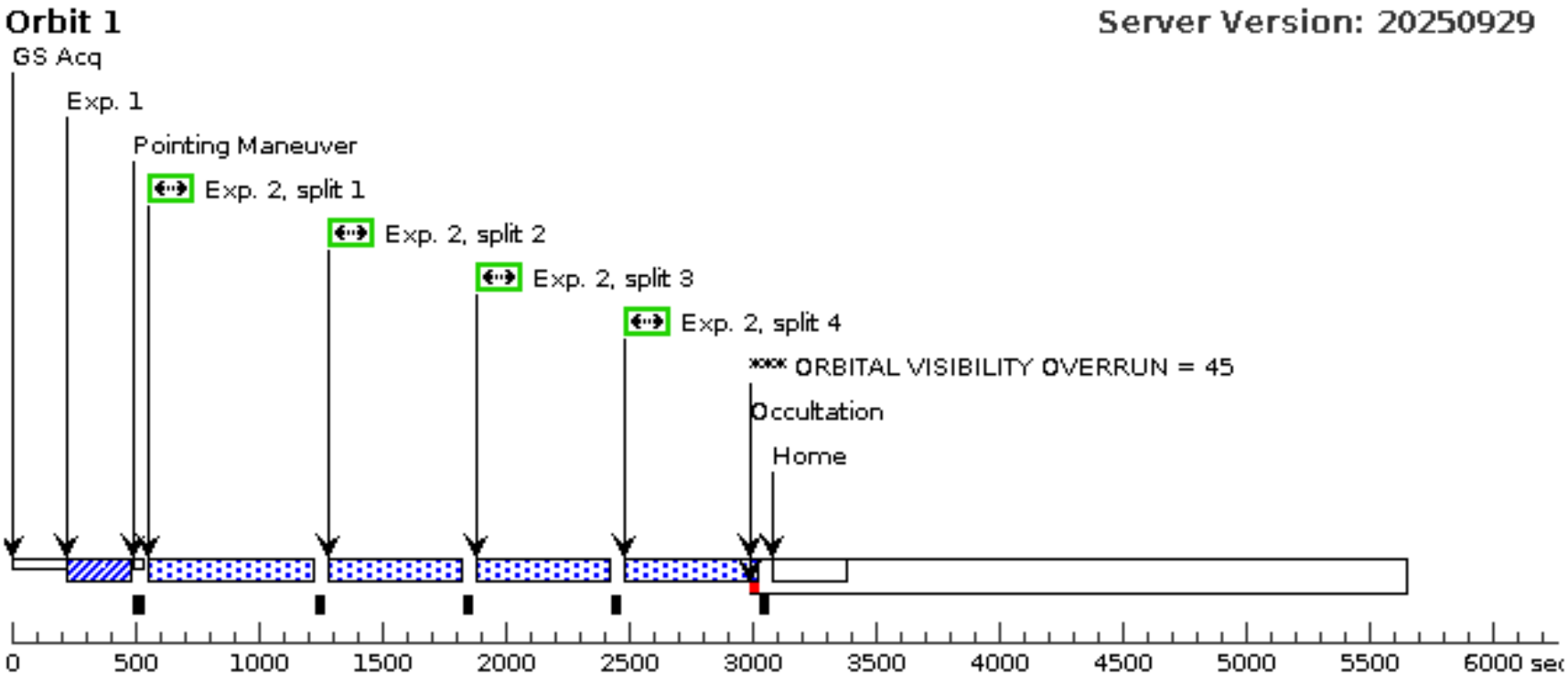
(2)	GAIA-DR3-3460426945338850560	RA: 11 54 23.3607 (178.5973363d) Dec: -37 33 20.01 (-37.55556d) Equinox: J2000	Proper Motion RA: 2.454294233292158 mas/yr Proper Motion Dec: -3.3038046699915924 mas/yr Parallax: 0.0006832228944926934" Epoch of Position: 2016.0	V=14.573477191733819	Reference Frame: ICRS

Comments: V mag estimated from G mag via https://gea.esac.esa.int/archive/documentation/GEDR3/Data_processing/chap_cu5pho/cu5pho_sec_photSystem/cu5pho_ssec_photRelations.html
Category=STAR
Description=[G V-IV]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1934550)	(2) GAIA-DR3-3460 426945338850560	COS/NUV, ACQ/IMAGE, PSA	MIRRORA		PHASE 0.99621056 86935981 TO 0.0037 894313064018954		21 Secs (21 Secs) *[==>]*	*[1]*
Comments: flare BOP run 1934551									
2	(1934539)	(1) TOI-776	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=4294; FP-POS=ALL; LIFETIME-POS=LP4			100 Secs (1944 Secs) *[==>486.0 Secs (Split 1)]* *[==>486.0 Secs (Split 2)]* *[==>486.0 Secs (Split 3)]* *[==>486.0 Secs (Split 4)]*	*[1]*
Comments: BOP ETC run 1934553									

Orbit Structure



Visit

Proposal 17801, b O 1 pre (09), completed

Mon Apr 20 15:00:29 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(b O 1 pre (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Exposure 2 (b O 1 pre (09))) Informational (Form): 1222 is not a valid selection.

(Exposure 2 (b O 1 pre (09))) Informational (Form): G130M is not a valid selection.

(Exposure 2 (b O 1 pre (09))) Informational (Form): Illegal selection: PSA.

(Exposure 2 (b O 1 pre (09))) Informational (Form): LP4 is not a valid selection

(Exposure 2 (b O 1 pre (09))) Informational (Form): LP4 is not a valid selection

(Exposure 2 (b O 1 pre (09))) Informational (Form): This attribute cannot have this value due to other choices: Aperture=PSA.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 pre (09))) Informational (Form): This attribute cannot have this value due to other choices: Config=COS/FUV.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 pre (09))) Informational (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LIFETIME-POS=LP4.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 pre (09))) Informational (Form): This attribute cannot have this value due to other choices: Spectral_Element=G130M.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 pre (09))) Informational (Form): This attribute cannot have this value due to other choices: Wavelength=1222.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	TOI-776 Alt Name1: LP-961-53	RA: 11 54 18.3921 (178.5766337d) Dec: -37 33 9.84 (-37.55273d) Equinox: J2000	Proper Motion RA: 250.996 mas/yr Proper Motion Dec: -144.94699998977012 mas/yr Parallax: 0.0368291" Epoch of Position: 2000	V=11.536	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET, M V-IV]
Extended=NO

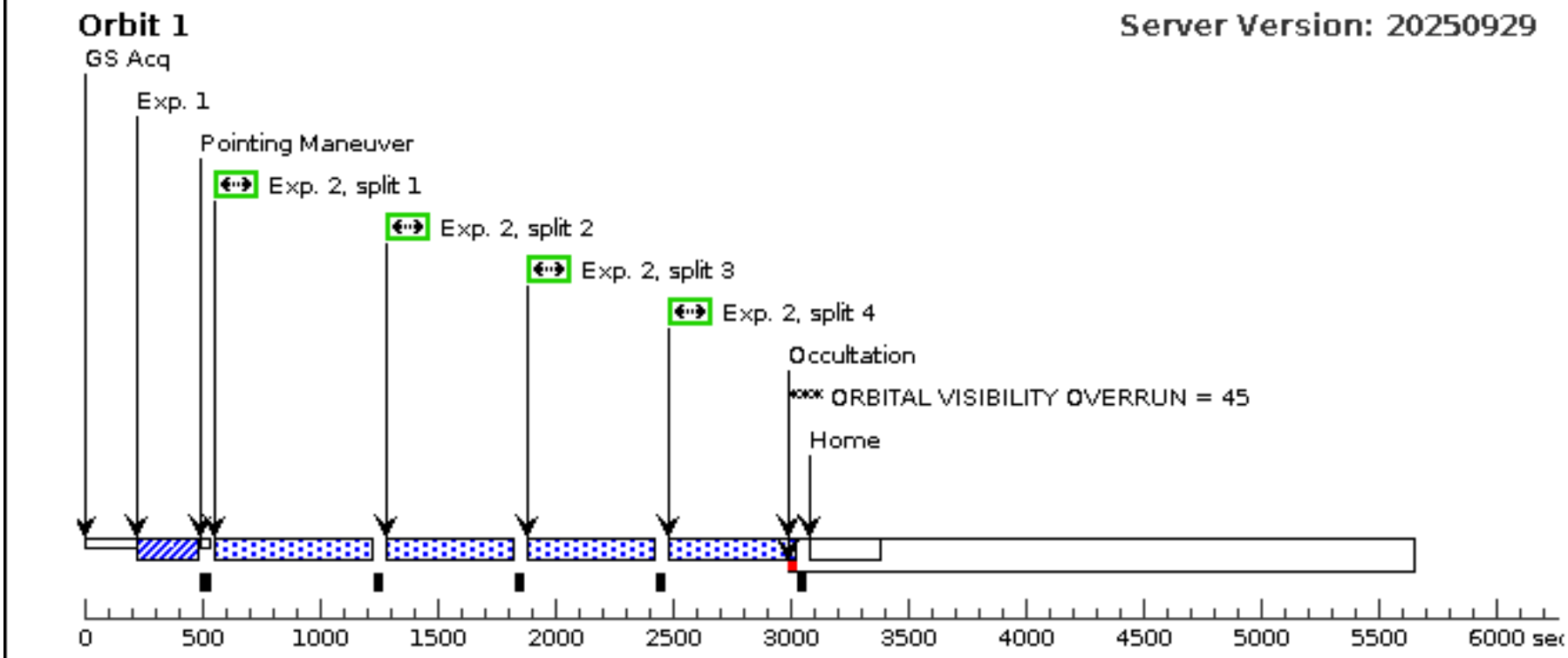
(2)	GAIA-DR3-3460426945338850560	RA: 11 54 23.3607 (178.5973363d) Dec: -37 33 20.01 (-37.55556d) Equinox: J2000	Proper Motion RA: 2.454294233292158 mas/yr Proper Motion Dec: -3.3038046699915924 mas/yr Parallax: 0.0006832228944926934" Epoch of Position: 2016.0	V=14.573477191733819	Reference Frame: ICRS

Comments: V mag estimated from G mag via https://gea.esac.esa.int/archive/documentation/GEDR3/Data_processing/chap_cu5pho/cu5pho_sec_photSystem/cu5pho_ssec_photRelations.html
Category=STAR
Description=[G V-IV]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1934550)	(2) GAIA-DR3-3460426945338850560	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				21 Secs (21 Secs) *[==>]*	*[1]*
Comments: flare BOP run 1934551									
2	(1934539)	(1) TOI-776	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=4294; FP-POS=ALL; LIFETIME-POS=LP4			100 Secs (1944 Secs) *[==>486.0 Secs (Split 1)]* *[==>486.0 Secs (Split 2)]* *[==>486.0 Secs (Split 3)]* *[==>486.0 Secs (Split 4)]*	*[1]*
Comments: BOP ETC run 1934553									

Orbit Structure



Visit

Proposal 17801, b O 1 in (10), completed Mon Apr 20 15:00:29 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: AFTER_09 BY 3_Orbits TO 5_Orbits; Period 8.246620 D AND ZERO-PHASE HJD2459288.8713

Diagnostics

(b O 1 in (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Exposure 2 (b O 1 in (10))) Informational (Form): 1222 is not a valid selection.

(Exposure 2 (b O 1 in (10))) Informational (Form): G130M is not a valid selection.

(Exposure 2 (b O 1 in (10))) Informational (Form): Illegal selection: PSA.

(Exposure 2 (b O 1 in (10))) Informational (Form): LP4 is not a valid selection

(Exposure 2 (b O 1 in (10))) Informational (Form): LP4 is not a valid selection

(Exposure 2 (b O 1 in (10))) Informational (Form): This attribute cannot have this value due to other choices: Aperture=PSA.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 in (10))) Informational (Form): This attribute cannot have this value due to other choices: Config=COS/FUV.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 in (10))) Informational (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LIFETIME-POS=LP4.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 in (10))) Informational (Form): This attribute cannot have this value due to other choices: Spectral_Element=G130M.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 in (10))) Informational (Form): This attribute cannot have this value due to other choices: Wavelength=1222.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	TOI-776 Alt Name1: LP-961-53	RA: 11 54 18.3921 (178.5766337d) Dec: -37 33 9.84 (-37.55273d) Equinox: J2000	Proper Motion RA: 250.996 mas/yr Proper Motion Dec: -144.94699998977012 mas/yr Parallax: 0.0368291" Epoch of Position: 2000	V=11.536	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET, M V-IV]
Extended=NO

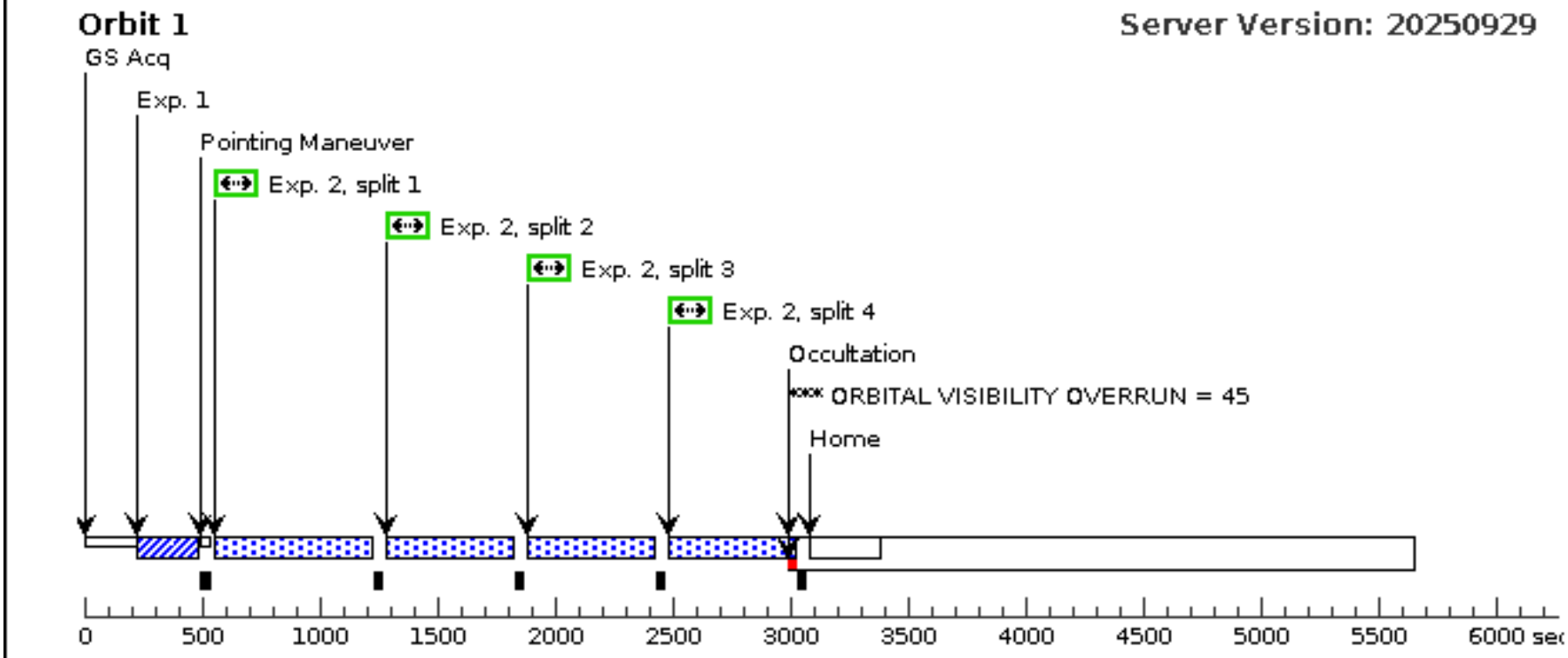
(2)	GAIA-DR3-3460426945338850560	RA: 11 54 23.3607 (178.5973363d) Dec: -37 33 20.01 (-37.55556d) Equinox: J2000	Proper Motion RA: 2.454294233292158 mas/yr Proper Motion Dec: -3.3038046699915924 mas/yr Parallax: 0.0006832228944926934" Epoch of Position: 2016.0	V=14.573477191733819	Reference Frame: ICRS

Comments: V mag estimated from G mag via https://gea.esac.esa.int/archive/documentation/GEDR3/Data_processing/chap_cu5pho/cu5pho_sec_photSystem/cu5pho_ssec_photRelations.html
Category=STAR
Description=[G V-IV]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1934550)	(2) GAIA-DR3-3460426945338850560	COS/NUV, ACQ/IMAGE, PSA	MIRRORA		PHASE 0.99621056 86935981 TO 0.0037894313064018954		21 Secs (21 Secs) *[==>]*	*[1]*
Comments: flare BOP run 1934551									
2	(1934539)	(1) TOI-776	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=4294; FP-POS=ALL; LIFETIME-POS=LP4			100 Secs (1944 Secs) *[==>486.0 Secs (Split 1)]* *[==>486.0 Secs (Split 2)]* *[==>486.0 Secs (Split 3)]* *[==>486.0 Secs (Split 4)]*	*[1]*
Comments: BOP ETC run 1934553									

Orbit Structure



Visit

Proposal 17801, c O 1 pre (11), implementation Mon Apr 20 15:00:29 GMT 2026

Diagnostic Status: Error

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Exposure 2 (c O 1 pre (11))) Error (Form): 1222 is not a valid selection.

(Exposure 2 (c O 1 pre (11))) Error (Form): G130M is not a valid selection.

(Exposure 2 (c O 1 pre (11))) Error (Form): Illegal selection: PSA.

(Exposure 2 (c O 1 pre (11))) Error (Form): LP4 is not a valid selection

(Exposure 2 (c O 1 pre (11))) Error (Form): LP4 is not a valid selection

(Exposure 2 (c O 1 pre (11))) Error (Form): This attribute cannot have this value due to other choices: Aperture=PSA.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (c O 1 pre (11))) Error (Form): This attribute cannot have this value due to other choices: Config=COS/FUV.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (c O 1 pre (11))) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LIFETIME-POS=LP4.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (c O 1 pre (11))) Error (Form): This attribute cannot have this value due to other choices: Spectral_Element=G130M.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (c O 1 pre (11))) Error (Form): This attribute cannot have this value due to other choices: Wavelength=1222.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	TOI-776 Alt Name1: LP-961-53	RA: 11 54 18.3921 (178.5766337d) Dec: -37 33 9.84 (-37.55273d) Equinox: J2000	Proper Motion RA: 250.996 mas/yr Proper Motion Dec: -144.94699998977012 mas/yr Parallax: 0.0368291" Epoch of Position: 2000	V=11.536	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET, M V-IV]
Extended=NO

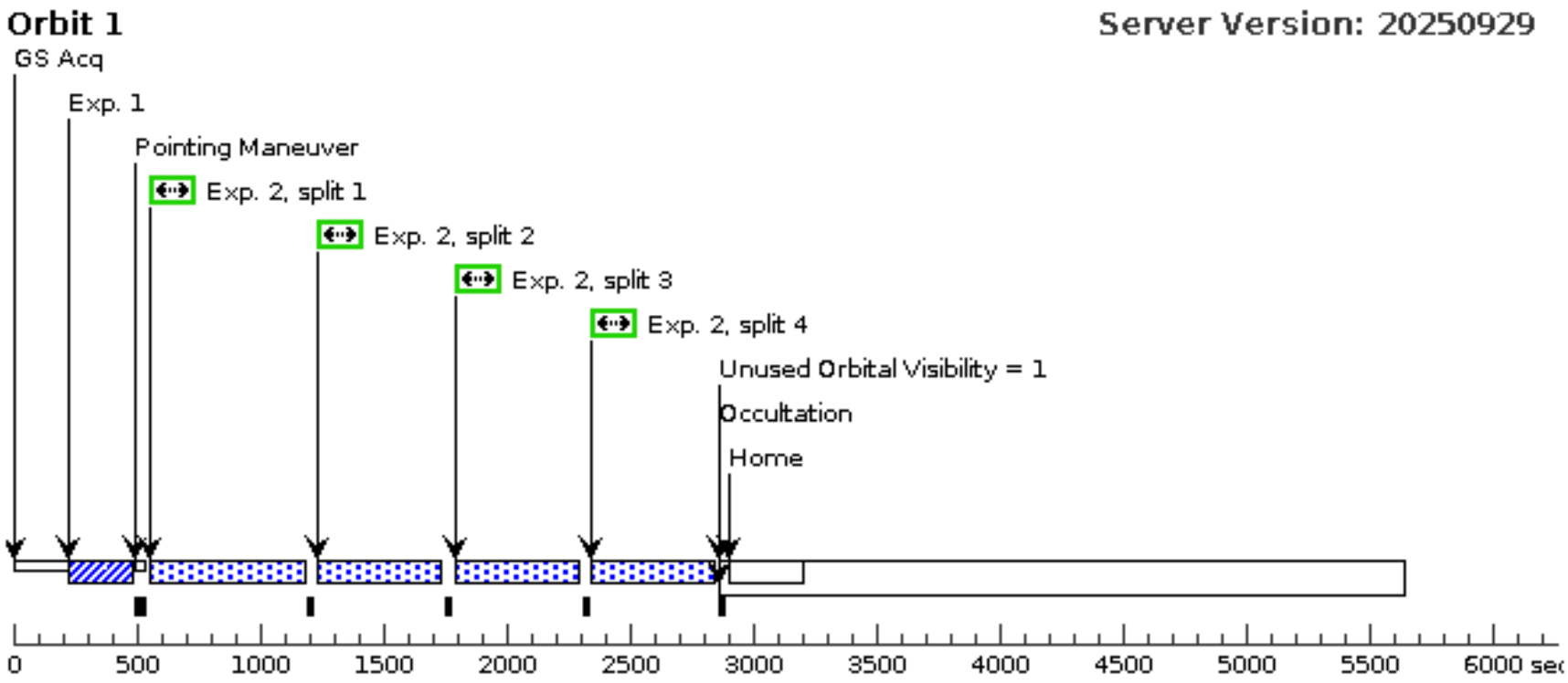
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	GAIA-DR3-3460426945338850560	RA: 11 54 23.3607 (178.5973363d) Dec: -37 33 20.01 (-37.55556d) Equinox: J2000	Proper Motion RA: 2.454294233292158 mas/yr Proper Motion Dec: -3.3038046699915924 mas/yr Parallax: 0.0006832228944926934" Epoch of Position: 2016.0	V=14.573477191733819	Reference Frame: ICRS

Comments: V mag estimated from G mag via https://gea.esac.esa.int/archive/documentation/GEDR3/Data_processing/chap_cu5pho/cu5pho_sec_photSystem/cu5pho_ssec_photRelations.html
Category=STAR
Description=[G V-IV]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1934550)	(2) GAIA-DR3-3460426945338850560	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				21 Secs (21 Secs) *[==>]*	 ***[1]***
Comments: flare BOP run 1934551									
2	(1934539)	(1) TOI-776	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=4294; FP-POS=ALL; LIFETIME-POS=LP4			100 Secs (1804 Secs) *[==>451.0 Secs (Split 1)]* *[==>451.0 Secs (Split 2)]* *[==>451.0 Secs (Split 3)]* *[==>451.0 Secs (Split 4)]*	 ***[1]***
Comments: BOP ETC run 1934553									

Orbit Structure



Visit

Proposal 17801, c O 1 in (12), implementation Mon Apr 20 15:00:29 GMT 2026

Diagnostic Status: Error

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%; AFTER 11 BY 3.8 Orbits TO 5.2 Orbits; Period 15.66534000000 D AND ZERO-PHASE HJD2459026.89405000

Diagnostics

(Exposure 2 (c O 1 in (12))) Error (Form): 1222 is not a valid selection.

(Exposure 2 (c O 1 in (12))) Error (Form): G130M is not a valid selection.

(Exposure 2 (c O 1 in (12))) Error (Form): Illegal selection: PSA.

(Exposure 2 (c O 1 in (12))) Error (Form): LP4 is not a valid selection

(Exposure 2 (c O 1 in (12))) Error (Form): LP4 is not a valid selection

(Exposure 2 (c O 1 in (12))) Error (Form): This attribute cannot have this value due to other choices: Aperture=PSA.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (c O 1 in (12))) Error (Form): This attribute cannot have this value due to other choices: Config=COS/FUV.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (c O 1 in (12))) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LIFETIME-POS=LP4.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (c O 1 in (12))) Error (Form): This attribute cannot have this value due to other choices: Spectral_Element=G130M.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (c O 1 in (12))) Error (Form): This attribute cannot have this value due to other choices: Wavelength=1222.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	TOI-776 Alt Name1: LP-961-53	RA: 11 54 18.3921 (178.5766337d) Dec: -37 33 9.84 (-37.55273d) Equinox: J2000	Proper Motion RA: 250.996 mas/yr Proper Motion Dec: -144.94699998977012 mas/yr Parallax: 0.0368291" Epoch of Position: 2000	V=11.536	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET, M V-IV]
Extended=NO

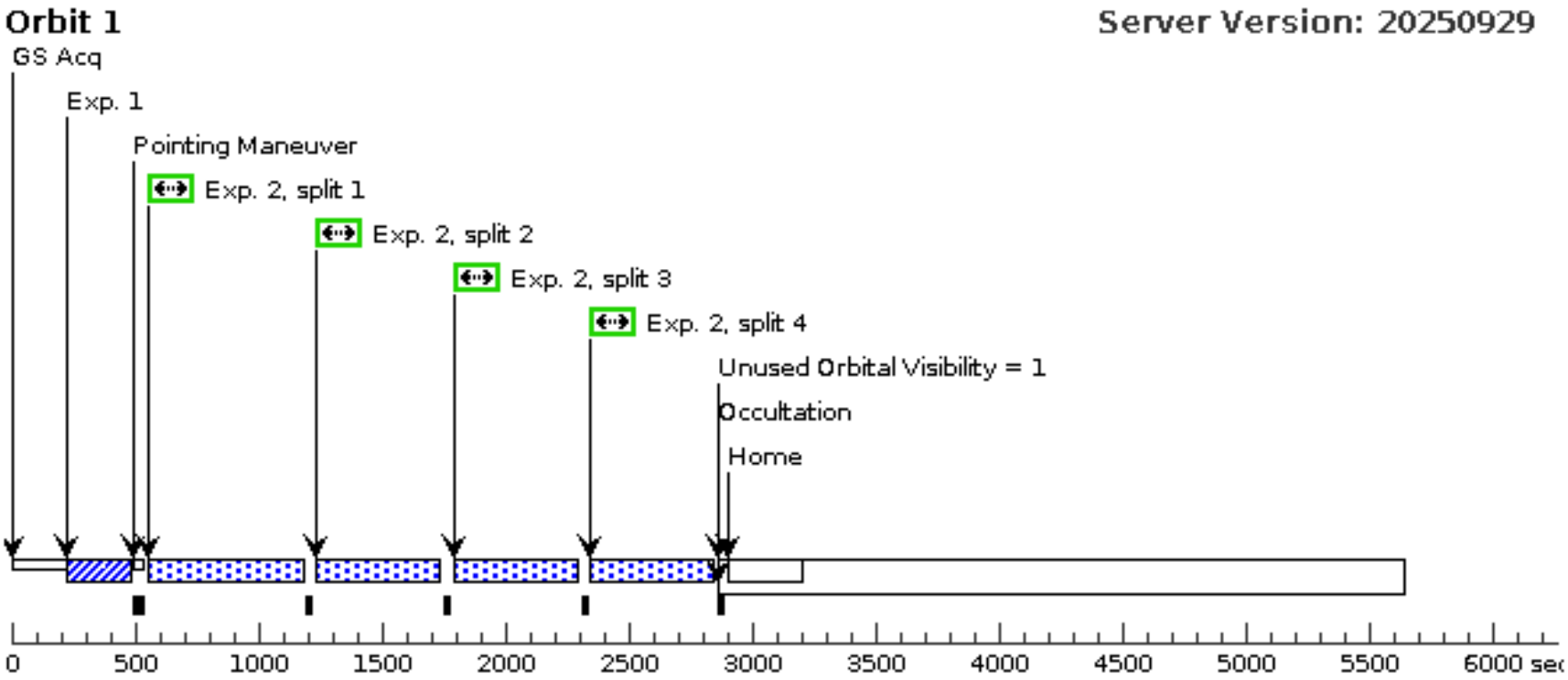
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	GAIA-DR3-3460426945338850560	RA: 11 54 23.3607 (178.5973363d) Dec: -37 33 20.01 (-37.55556d) Equinox: J2000	Proper Motion RA: 2.454294233292158 mas/yr Proper Motion Dec: -3.3038046699915924 mas/yr Parallax: 0.0006832228944926934" Epoch of Position: 2016.0	V=14.573477191733819	Reference Frame: ICRS

Comments: V mag estimated from G mag via https://gea.esac.esa.int/archive/documentation/GEDR3/Data_processing/chap_cu5pho/cu5pho_sec_photSystem/cu5pho_ssec_photRelations.html
Category=STAR
Description=[G V-IV]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1934550)	(2) GAIA-DR3-3460 426945338850560	COS/NUV, ACQ/IMAGE, PSA	MIRRORA		PHASE 0.99800514 80585495 TO 0.0019 948519414505527		21 Secs (21 Secs) *[==>]*	*[1]*
Comments: flare BOP run 1934551									
2	(1934539)	(1) TOI-776	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=4294; FP-POS=ALL; LIFETIME-POS=LP4			100 Secs (1804 Secs) *[==>451.0 Secs (Split 1)]* *[==>451.0 Secs (Split 2)]* *[==>451.0 Secs (Split 3)]* *[==>451.0 Secs (Split 4)]*	*[1]*
Comments: BOP ETC run 1934553									

Orbit Structure



Visit

Proposal 17801, c O 1 pre (13), implementation Mon Apr 20 15:00:29 GMT 2026

Diagnostic Status: Error

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Exposure 2 (c O 1 pre (13))) Error (Form): 1222 is not a valid selection.

(Exposure 2 (c O 1 pre (13))) Error (Form): G130M is not a valid selection.

(Exposure 2 (c O 1 pre (13))) Error (Form): Illegal selection: PSA.

(Exposure 2 (c O 1 pre (13))) Error (Form): LP4 is not a valid selection

(Exposure 2 (c O 1 pre (13))) Error (Form): LP4 is not a valid selection

(Exposure 2 (c O 1 pre (13))) Error (Form): This attribute cannot have this value due to other choices: Aperture=PSA.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (c O 1 pre (13))) Error (Form): This attribute cannot have this value due to other choices: Config=COS/FUV.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (c O 1 pre (13))) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LIFETIME-POS=LP4.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (c O 1 pre (13))) Error (Form): This attribute cannot have this value due to other choices: Spectral_Element=G130M.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (c O 1 pre (13))) Error (Form): This attribute cannot have this value due to other choices: Wavelength=1222.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	TOI-776 Alt Name1: LP-961-53	RA: 11 54 18.3921 (178.5766337d) Dec: -37 33 9.84 (-37.55273d) Equinox: J2000	Proper Motion RA: 250.996 mas/yr Proper Motion Dec: -144.94699998977012 mas/yr Parallax: 0.0368291" Epoch of Position: 2000	V=11.536	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET, M V-IV]
Extended=NO

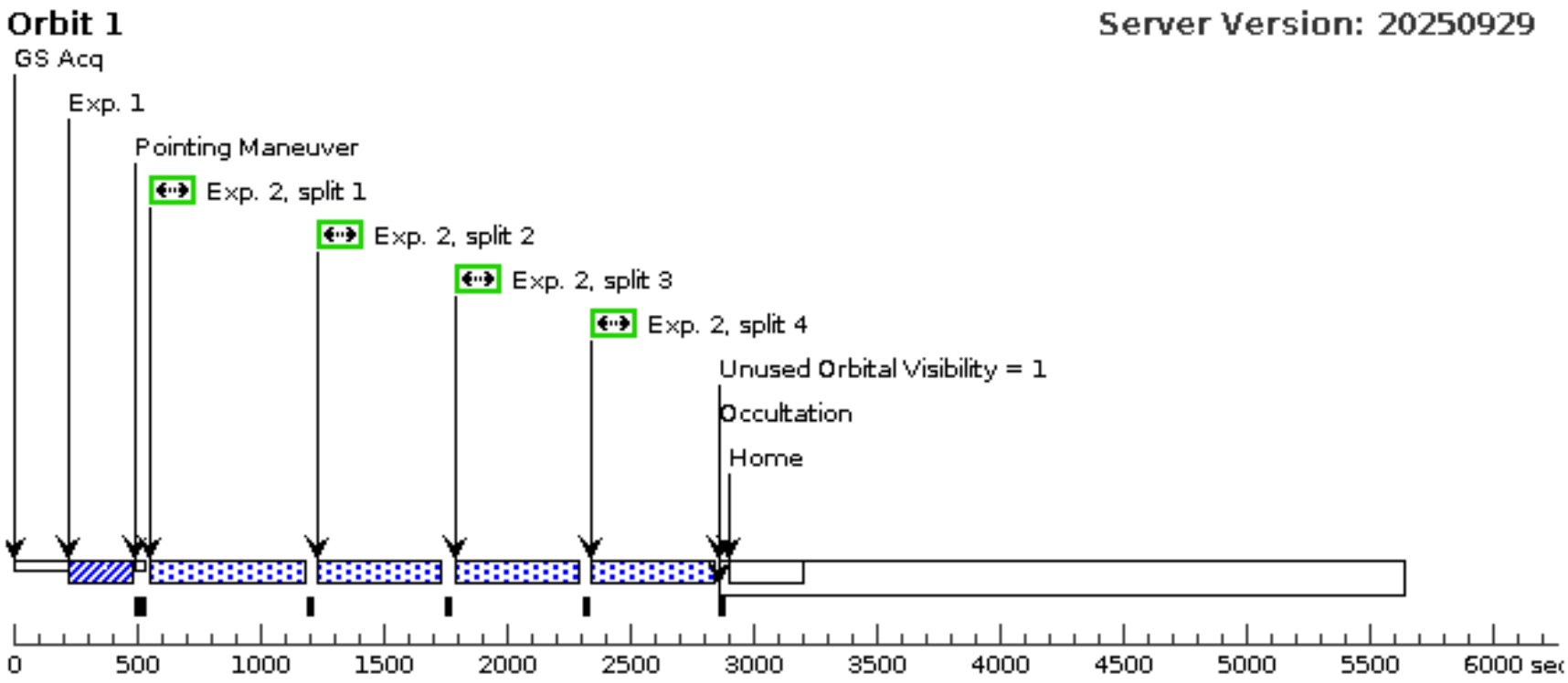
(2)	GAIA-DR3-3460426945338850560	RA: 11 54 23.3607 (178.5973363d) Dec: -37 33 20.01 (-37.55556d) Equinox: J2000	Proper Motion RA: 2.454294233292158 mas/yr Proper Motion Dec: -3.3038046699915924 mas/yr Parallax: 0.0006832228944926934" Epoch of Position: 2016.0	V=14.573477191733819	Reference Frame: ICRS

Comments: V mag estimated from G mag via https://gea.esac.esa.int/archive/documentation/GEDR3/Data_processing/chap_cu5pho/cu5pho_sec_photSystem/cu5pho_ssec_photRelations.html
Category=STAR
Description=[G V-IV]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1934550)	(2) GAIA-DR3-3460426945338850560	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				21 Secs (21 Secs) *[==>]*	 ***[1]***
Comments: flare BOP run 1934551									
2	(1934539)	(1) TOI-776	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=4294; FP-POS=ALL; LIFETIME-POS=LP4			100 Secs (1804 Secs) *[==>451.0 Secs (Split 1)]* *[==>451.0 Secs (Split 2)]* *[==>451.0 Secs (Split 3)]* *[==>451.0 Secs (Split 4)]*	 ***[1]***
Comments: BOP ETC run 1934553									

Orbit Structure



Visit

Proposal 17801, c O 1 in (14), implementation Mon Apr 20 15:00:29 GMT 2026

Diagnostic Status: Error

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%; AFTER 13 BY 3.8 Orbits TO 5.2 Orbits; Period 15.665323 D AND ZERO-PHASE HJD2459026.89405000

Diagnostics

(Exposure 2 (c O 1 in (14))) Error (Form): 1222 is not a valid selection.

(Exposure 2 (c O 1 in (14))) Error (Form): G130M is not a valid selection.

(Exposure 2 (c O 1 in (14))) Error (Form): Illegal selection: PSA.

(Exposure 2 (c O 1 in (14))) Error (Form): LP4 is not a valid selection

(Exposure 2 (c O 1 in (14))) Error (Form): LP4 is not a valid selection

(Exposure 2 (c O 1 in (14))) Error (Form): This attribute cannot have this value due to other choices: Aperture=PSA.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (c O 1 in (14))) Error (Form): This attribute cannot have this value due to other choices: Config=COS/FUV.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (c O 1 in (14))) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LIFETIME-POS=LP4.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (c O 1 in (14))) Error (Form): This attribute cannot have this value due to other choices: Spectral_Element=G130M.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (c O 1 in (14))) Error (Form): This attribute cannot have this value due to other choices: Wavelength=1222.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	TOI-776 Alt Name1: LP-961-53	RA: 11 54 18.3921 (178.5766337d) Dec: -37 33 9.84 (-37.55273d) Equinox: J2000	Proper Motion RA: 250.996 mas/yr Proper Motion Dec: -144.94699998977012 mas/yr Parallax: 0.0368291" Epoch of Position: 2000	V=11.536	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET, M V-IV]
Extended=NO

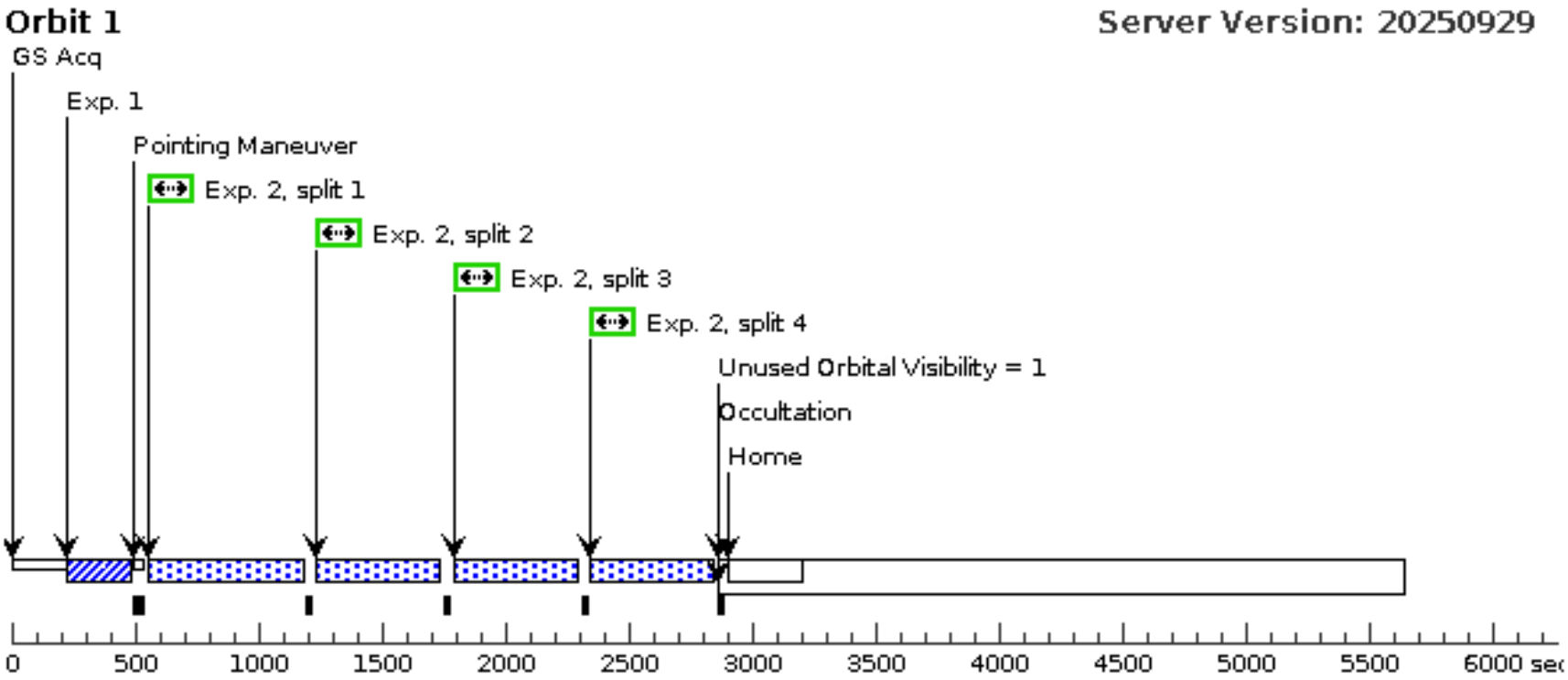
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	GAIA-DR3-3460426945338850560	RA: 11 54 23.3607 (178.5973363d) Dec: -37 33 20.01 (-37.55556d) Equinox: J2000	Proper Motion RA: 2.454294233292158 mas/yr Proper Motion Dec: -3.3038046699915924 mas/yr Parallax: 0.0006832228944926934" Epoch of Position: 2016.0	V=14.573477191733819	Reference Frame: ICRS

Comments: V mag estimated from G mag via https://gea.esac.esa.int/archive/documentation/GEDR3/Data_processing/chap_cu5pho/cu5pho_sec_photSystem/cu5pho_ssec_photRelations.html
Category=STAR
Description=[G V-IV]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1934550)	(2) GAIA-DR3-3460 426945338850560	COS/NUV, ACQ/IMAGE, PSA	MIRRORA		PHASE 0.99800514 80585495 TO 0.0019 948519414505527		21 Secs (21 Secs) *[==>]*	 ***[1]***
Comments: flare BOP run 1934551									
2	(1934539)	(1) TOI-776	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=4294; FP-POS=ALL; LIFETIME-POS=LP4			100 Secs (1804 Secs) *[==>451.0 Secs (Split 1)]* *[==>451.0 Secs (Split 2)]* *[==>451.0 Secs (Split 3)]* *[==>451.0 Secs (Split 4)]*	 ***[1]***
Comments: BOP ETC run 1934553									

Orbit Structure



Visit

Proposal 17801, c O 1 pre (15), implementation Mon Apr 20 15:00:29 GMT 2026

Diagnostic Status: Error

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Exposure 2 (c O 1 pre (15))) Error (Form): 1222 is not a valid selection.

(Exposure 2 (c O 1 pre (15))) Error (Form): G130M is not a valid selection.

(Exposure 2 (c O 1 pre (15))) Error (Form): Illegal selection: PSA.

(Exposure 2 (c O 1 pre (15))) Error (Form): LP4 is not a valid selection

(Exposure 2 (c O 1 pre (15))) Error (Form): LP4 is not a valid selection

(Exposure 2 (c O 1 pre (15))) Error (Form): This attribute cannot have this value due to other choices: Aperture=PSA.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (c O 1 pre (15))) Error (Form): This attribute cannot have this value due to other choices: Config=COS/FUV.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (c O 1 pre (15))) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LIFETIME-POS=LP4.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (c O 1 pre (15))) Error (Form): This attribute cannot have this value due to other choices: Spectral_Element=G130M.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (c O 1 pre (15))) Error (Form): This attribute cannot have this value due to other choices: Wavelength=1222.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	TOI-776 Alt Name1: LP-961-53	RA: 11 54 18.3921 (178.5766337d) Dec: -37 33 9.84 (-37.55273d) Equinox: J2000	Proper Motion RA: 250.996 mas/yr Proper Motion Dec: -144.94699998977012 mas/yr Parallax: 0.0368291" Epoch of Position: 2000	V=11.536	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET, M V-IV]
Extended=NO

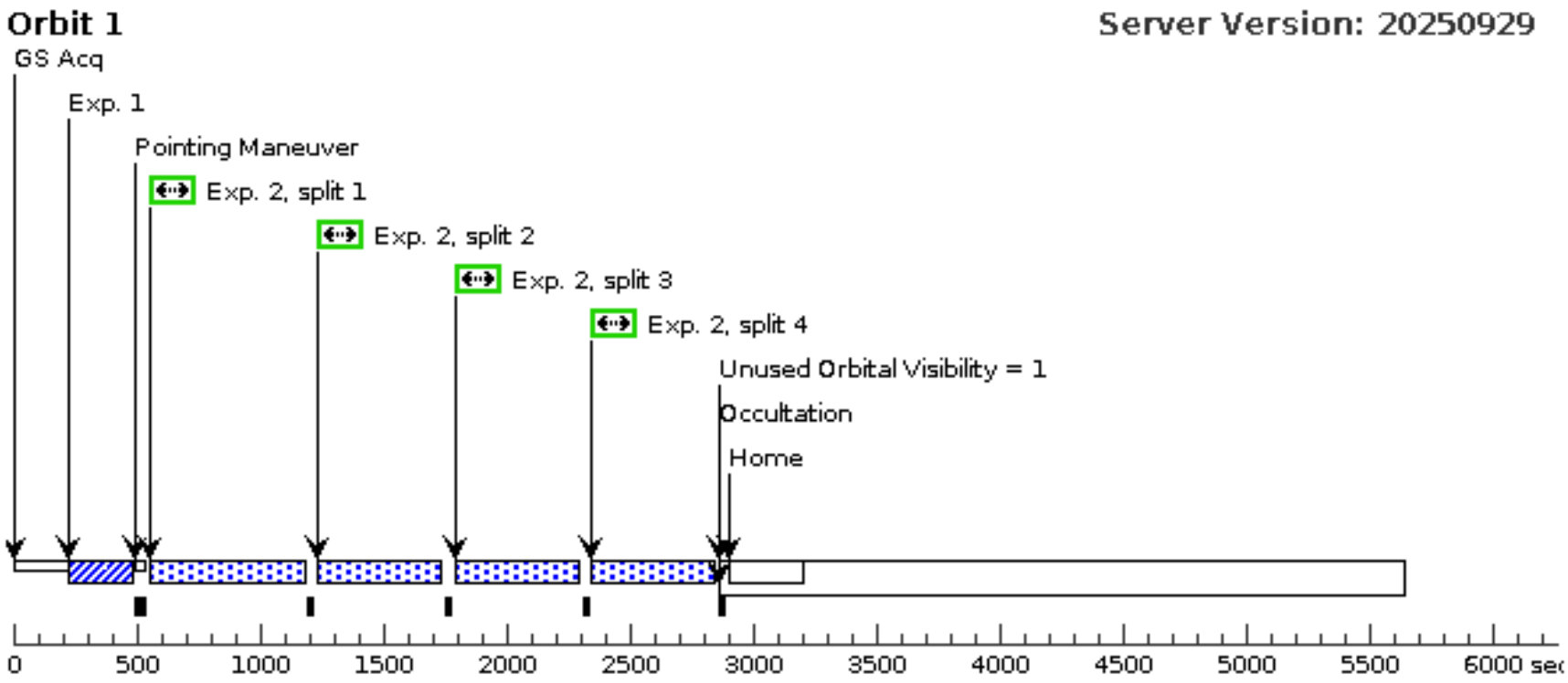
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	GAIA-DR3-3460426945338850560	RA: 11 54 23.3607 (178.5973363d) Dec: -37 33 20.01 (-37.55556d) Equinox: J2000	Proper Motion RA: 2.454294233292158 mas/yr Proper Motion Dec: -3.3038046699915924 mas/yr Parallax: 0.0006832228944926934" Epoch of Position: 2016.0	V=14.573477191733819	Reference Frame: ICRS

Comments: V mag estimated from G mag via https://gea.esac.esa.int/archive/documentation/GEDR3/Data_processing/chap_cu5pho/cu5pho_sec_photSystem/cu5pho_ssec_photRelations.html
Category=STAR
Description=[G V-IV]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1934550)	(2) GAIA-DR3-3460426945338850560	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				21 Secs (21 Secs) *[==>]*	 ***[1]***
Comments: flare BOP run 1934551									
2	(1934539)	(1) TOI-776	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=4294; FP-POS=ALL; LIFETIME-POS=LP4			100 Secs (1804 Secs) *[==>451.0 Secs (Split 1)]* *[==>451.0 Secs (Split 2)]* *[==>451.0 Secs (Split 3)]* *[==>451.0 Secs (Split 4)]*	 ***[1]***
Comments: BOP ETC run 1934553									

Orbit Structure



Visit

Proposal 17801, c O 1 in (16), implementation Mon Apr 20 15:00:29 GMT 2026

Diagnostic Status: Error

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%; AFTER 15 BY 3.8 Orbits TO 5.2 Orbits; Period 15.665323 D AND ZERO-PHASE HJD2459026.89405000

Diagnostics

(Exposure 2 (c O 1 in (16))) Error (Form): 1222 is not a valid selection.

(Exposure 2 (c O 1 in (16))) Error (Form): G130M is not a valid selection.

(Exposure 2 (c O 1 in (16))) Error (Form): Illegal selection: PSA.

(Exposure 2 (c O 1 in (16))) Error (Form): LP4 is not a valid selection

(Exposure 2 (c O 1 in (16))) Error (Form): LP4 is not a valid selection

(Exposure 2 (c O 1 in (16))) Error (Form): This attribute cannot have this value due to other choices: Aperture=PSA.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (c O 1 in (16))) Error (Form): This attribute cannot have this value due to other choices: Config=COS/FUV.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (c O 1 in (16))) Error (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LIFETIME-POS=LP4.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (c O 1 in (16))) Error (Form): This attribute cannot have this value due to other choices: Spectral_Element=G130M.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (c O 1 in (16))) Error (Form): This attribute cannot have this value due to other choices: Wavelength=1222.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	TOI-776 Alt Name1: LP-961-53	RA: 11 54 18.3921 (178.5766337d) Dec: -37 33 9.84 (-37.55273d) Equinox: J2000	Proper Motion RA: 250.996 mas/yr Proper Motion Dec: -144.94699998977012 mas/yr Parallax: 0.0368291" Epoch of Position: 2000	V=11.536	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET, M V-IV]
Extended=NO

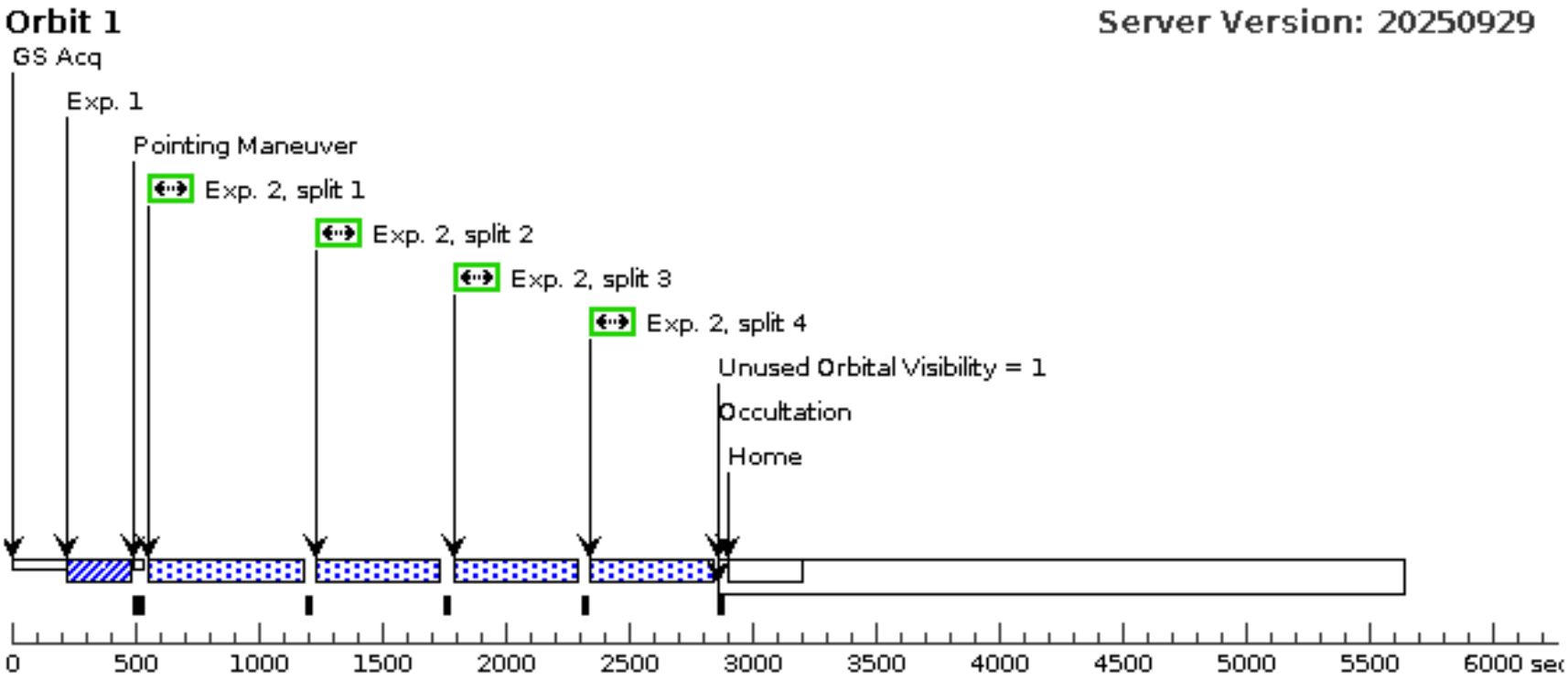
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	GAIA-DR3-3460426945338850560	RA: 11 54 23.3607 (178.5973363d) Dec: -37 33 20.01 (-37.55556d) Equinox: J2000	Proper Motion RA: 2.454294233292158 mas/yr Proper Motion Dec: -3.3038046699915924 mas/yr Parallax: 0.0006832228944926934" Epoch of Position: 2016.0	V=14.573477191733819	Reference Frame: ICRS

Comments: V mag estimated from G mag via https://gea.esac.esa.int/archive/documentation/GEDR3/Data_processing/chap_cu5pho/cu5pho_sec_photSystem/cu5pho_ssec_photRelations.html
Category=STAR
Description=[G V-IV]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1934550)	(2) GAIA-DR3-3460 426945338850560	COS/NUV, ACQ/IMAGE, PSA	MIRRORA		PHASE 0.99800514 80585495 TO 0.0019 948519414505527		21 Secs (21 Secs) *[==>]*	*[1]*
Comments: flare BOP run 1934551									
2	(1934539)	(1) TOI-776	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=4294; FP-POS=ALL; LIFETIME-POS=LP4			100 Secs (1804 Secs) *[==>451.0 Secs (Split 1)]* *[==>451.0 Secs (Split 2)]* *[==>451.0 Secs (Split 3)]* *[==>451.0 Secs (Split 4)]*	*[1]*
Comments: BOP ETC run 1934553									

Orbit Structure



Visit

Proposal 17801, b O 1 pre (17), completed Mon Apr 20 15:00:29 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(b O 1 pre (17)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Exposure 2 (b O 1 pre (17))) Informational (Form): 1222 is not a valid selection.

(Exposure 2 (b O 1 pre (17))) Informational (Form): G130M is not a valid selection.

(Exposure 2 (b O 1 pre (17))) Informational (Form): Illegal selection: PSA.

(Exposure 2 (b O 1 pre (17))) Informational (Form): LP4 is not a valid selection

(Exposure 2 (b O 1 pre (17))) Informational (Form): LP4 is not a valid selection

(Exposure 2 (b O 1 pre (17))) Informational (Form): This attribute cannot have this value due to other choices: Aperture=PSA.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 pre (17))) Informational (Form): This attribute cannot have this value due to other choices: Config=COS/FUV.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 pre (17))) Informational (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LIFETIME-POS=LP4.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 pre (17))) Informational (Form): This attribute cannot have this value due to other choices: Spectral_Element=G130M.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 pre (17))) Informational (Form): This attribute cannot have this value due to other choices: Wavelength=1222.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	TOI-776 Alt Name1: LP-961-53	RA: 11 54 18.3921 (178.5766337d) Dec: -37 33 9.84 (-37.55273d) Equinox: J2000	Proper Motion RA: 250.996 mas/yr Proper Motion Dec: -144.94699998977012 mas/yr Parallax: 0.0368291" Epoch of Position: 2000	V=11.536	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET, M V-IV]
Extended=NO

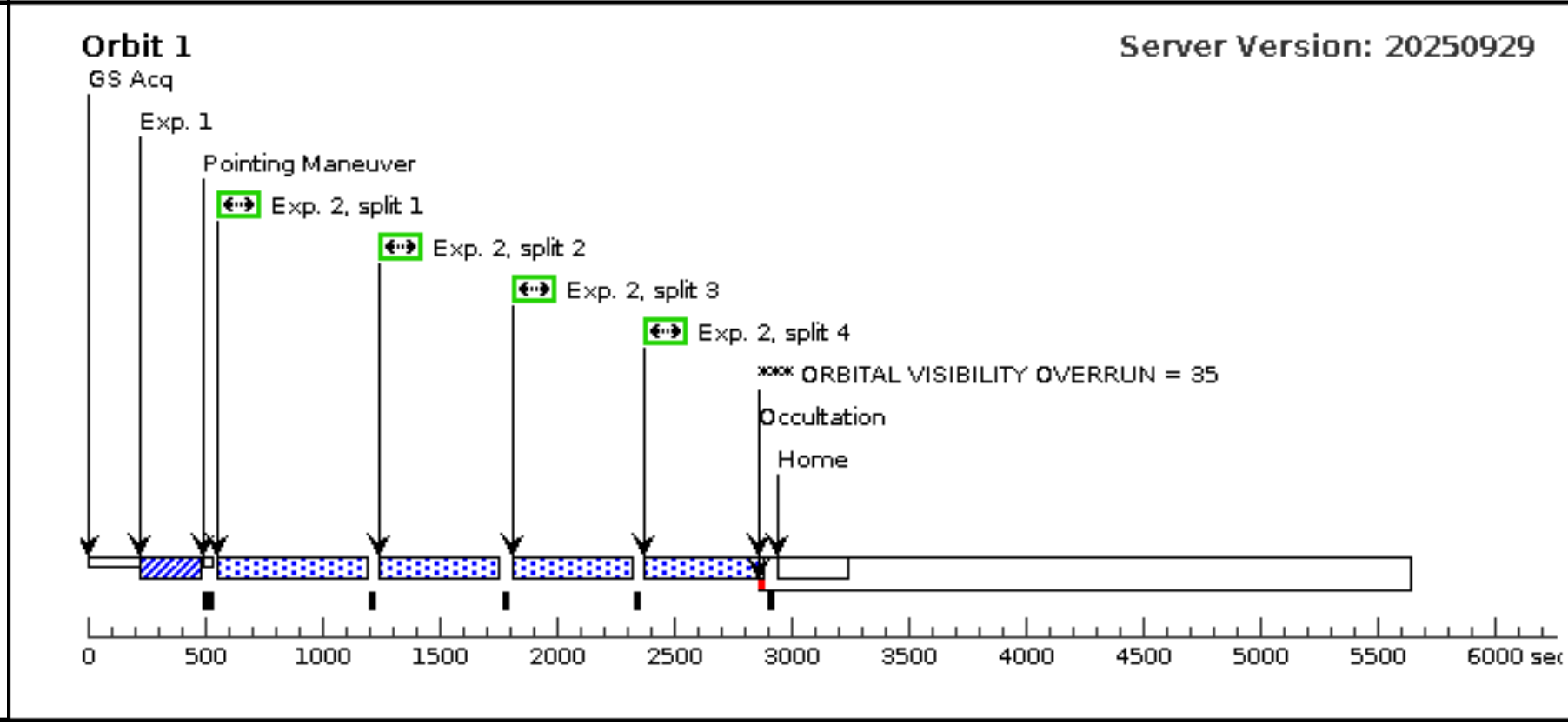
(2)	GAIA-DR3-3460426945338850560	RA: 11 54 23.3607 (178.5973363d) Dec: -37 33 20.01 (-37.55556d) Equinox: J2000	Proper Motion RA: 2.454294233292158 mas/yr Proper Motion Dec: -3.3038046699915924 mas/yr Parallax: 0.0006832228944926934" Epoch of Position: 2016.0	V=14.573477191733819	Reference Frame: ICRS

Comments: V mag estimated from G mag via https://gea.esac.esa.int/archive/documentation/GEDR3/Data_processing/chap_cu5pho/cu5pho_sec_photSystem/cu5pho_ssec_photRelations.html
Category=STAR
Description=[G V-IV]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1934550)	(2) GAIA-DR3-3460426945338850560	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				21 Secs (21 Secs) *[==>]*	 ***[1]***
Comments: flare BOP run 1934551									
2	(1934539)	(1) TOI-776	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=4294; FP-POS=ALL; LIFETIME-POS=LP4			100 Secs (1840 Secs) *[==>460.0 Secs (Split 1)]* *[==>460.0 Secs (Split 2)]* *[==>460.0 Secs (Split 3)]* *[==>460.0 Secs (Split 4)]*	 ***[1]***
Comments: BOP ETC run 1934553									

Orbit Structure



Visit

Proposal 17801, b O 1 in (18), completed Mon Apr 20 15:00:29 GMT 2026

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%; AFTER 17 BY 2.8 Orbits TO 5.2 Orbits; Period 8.246620 D AND ZERO-PHASE HJD2459288.8713

Diagnostics

(b O 1 in (18)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

(Exposure 2 (b O 1 in (18))) Informational (Form): 1222 is not a valid selection.

(Exposure 2 (b O 1 in (18))) Informational (Form): G130M is not a valid selection.

(Exposure 2 (b O 1 in (18))) Informational (Form): Illegal selection: PSA.

(Exposure 2 (b O 1 in (18))) Informational (Form): LP4 is not a valid selection

(Exposure 2 (b O 1 in (18))) Informational (Form): LP4 is not a valid selection

(Exposure 2 (b O 1 in (18))) Informational (Form): This attribute cannot have this value due to other choices: Aperture=PSA.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 in (18))) Informational (Form): This attribute cannot have this value due to other choices: Config=COS/FUV.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 in (18))) Informational (Form): This attribute cannot have this value due to other choices: Optional_Parameter=LIFETIME-POS=LP4.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 in (18))) Informational (Form): This attribute cannot have this value due to other choices: Spectral_Element=G130M.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

(Exposure 2 (b O 1 in (18))) Informational (Form): This attribute cannot have this value due to other choices: Wavelength=1222.
G130M Wavelengths 1055, 1096, and 1222 are only allowed on Lifetime Position LP7

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	TOI-776 Alt Name1: LP-961-53	RA: 11 54 18.3921 (178.5766337d) Dec: -37 33 9.84 (-37.55273d) Equinox: J2000	Proper Motion RA: 250.996 mas/yr Proper Motion Dec: -144.94699998977012 mas/yr Parallax: 0.0368291" Epoch of Position: 2000	V=11.536	Reference Frame: ICRS

Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.

SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.This object was generated by the targetselector and retrieved from the SIMBAD database.
Category=STAR
Description=[EXTRA-SOLAR PLANET, M V-IV]
Extended=NO

(2)	GAIA-DR3-3460426945338850560	RA: 11 54 23.3607 (178.5973363d) Dec: -37 33 20.01 (-37.55556d) Equinox: J2000	Proper Motion RA: 2.454294233292158 mas/yr Proper Motion Dec: -3.3038046699915924 mas/yr Parallax: 0.0006832228944926934" Epoch of Position: 2016.0	V=14.573477191733819	Reference Frame: ICRS

Comments: V mag estimated from G mag via https://gea.esac.esa.int/archive/documentation/GEDR3/Data_processing/chap_cu5pho/cu5pho_sec_photSystem/cu5pho_ssec_photRelations.html
Category=STAR
Description=[G V-IV]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(1934550)	(2) GAIA-DR3-3460426945338850560	COS/NUV, ACQ/IMAGE, PSA	MIRRORA		PHASE 0.99621056 86935981 TO 0.0037894313064018954		21 Secs (21 Secs) *[==>]*	*[1]*
Comments: flare BOP run 1934551									
2	(1934539)	(1) TOI-776	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=4294; FP-POS=ALL; LIFETIME-POS=LP4			100 Secs (1840 Secs) *[==>460.0 Secs (Split 1)]* *[==>460.0 Secs (Split 2)]* *[==>460.0 Secs (Split 3)]* *[==>460.0 Secs (Split 4)]*	*[1]*
Comments: BOP ETC run 1934553									

Orbit Structure