



18447 - Muscles Advanced Library With an Atmospheric Retention Emphasis - Cycle 34

Cycle: 34, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Prof. Kevin France (PI) (Contact)	University of Colorado at Boulder
Dr. Christian Schneider (CoI) (ESA Member)	Christian-Albrechts Universitat zu Kiel
Dr. Allison Youngblood (CoI)	NASA Goddard Space Flight Center
Dr. Cynthia Suzanne Froning (CoI)	Southwest Research Institute
Dr. Girish M. Duvvuri (CoI)	Vanderbilt University
Dr. Alexander Brown (CoI)	University of Colorado at Boulder
Dr. David John Wilson (CoI)	University of Colorado at Boulder

VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(5) TOI-198	COS/FUV COS/NUV	3	17-Aug-2026 11:00:52.0	yes
02	(5) TOI-198	COS/FUV COS/NUV	3	17-Aug-2026 11:00:53.0	yes
03	(5) TOI-198	COS/FUV COS/NUV	3	17-Aug-2026 11:00:53.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
04	(5) TOI-198	COS/FUV COS/NUV	3	17-Aug-2026 11:00:54.0	yes
05	(6) TOI-771	COS/FUV COS/NUV	3	17-Aug-2026 11:00:54.0	yes
06	(6) TOI-771	COS/FUV COS/NUV	3	17-Aug-2026 11:00:55.0	yes
07	(6) TOI-771	COS/FUV COS/NUV	3	17-Aug-2026 11:00:56.0	yes
08	(6) TOI-771	COS/FUV COS/NUV	3	17-Aug-2026 11:00:56.0	yes
09	(7) HD-260655	COS/FUV COS/NUV	3	17-Aug-2026 11:00:57.0	yes
10	(7) HD-260655	COS/FUV COS/NUV	3	17-Aug-2026 11:00:58.0	yes
11	(7) HD-260655	COS/FUV COS/NUV	3	17-Aug-2026 11:01:00.0	yes
12	(7) HD-260655	COS/FUV COS/NUV	3	17-Aug-2026 11:01:01.0	yes

36 Total Orbits Used

ABSTRACT

Shoring Up the Cosmic Shoreline: Improving the Cumulative XUV Irradiance Knowledge of Rocky Worlds DDT Targets

The JWST Rocky Worlds Director's Discretionary Time (RW DDT) program is studying whether rocky planets orbiting M dwarf stars can retain their atmospheres. The RW DDT is targeting approximately 10 of the most promising small planets for (1) atmospheric detection observations with JWST and (2) measurements of the far-ultraviolet to infrared stellar spectral energy distributions with HST. The RW program is framed around the concept of the Cosmic Shoreline, where a planet's gravity (escape velocity) is compared with the escape-driving XUV energy input from the star.

We propose to directly support the fundamental goal of the DDT program with a multi-cycle GO+AR program to quantify the stellar XUV environments of the RW target stars and empirically place them on the Cosmic Shoreline. We will do this with (1) new far-ultraviolet + X-ray (Chandra and XMM) observations of the host stars in Cycles 33, 34, and 35 that enable high-quality extreme-ultraviolet calculations and characterization of the full XUV (X-ray + extreme-ultraviolet) irradiance, (2) observation and characterization of stellar flares across the full high-energy spectral band to quantify the contribution of time-variable phenomena to the total ionizing radiation budget, and (3) creation of a high-level stellar data product library to support the community's analysis and interpretation of the terrestrial planet data acquired by the RW DDT program.

OBSERVING DESCRIPTION

++Observing Modes and Exposure Times: We propose deep, COS G140L CENWAVE 800 observations of each of the Rocky Worlds targets. The short wavelength coverage compared to the RW DDT HST plan (monitoring in COS G130M only; Espinoza & Diamond-Lowe 2025) provides access to key spectral diagnostics that [*|fill in|*] plasma temperature coverage for robust EUV spectral calculations using the DEM method, including the brightest stellar FUV lines in cool star atmosphere (C III [*|977 [*|A, O VI 1032/1038 [*|A; Redfield et al. 2002) and high-temperature lines not covered by standard COS G130M CENWAVE 1291 observations (S VI [*|933/944 [*|A, Fe XVIII 974 [*|A, Fe XIX 1118 [*|A; Redfield et al. 2003).

G140L CENWAVE 800 has the additional advantage of being designed specifically to minimize the astigmatic spectral height on the COS detector at [*| < 1100 [*|A, reducing the background levels where HST[*|s sensitivity is lower (e.g., Sankrit et al. 2018). We estimate exposure times for our proposed observations by scaling the observed Si IV flux of LTT1445 A (Diamond Lowe et al. 2024) with line ratios derived from AU Mic observations by FUSE and HST (Redfield et al., 2002; Feinstein et al., 2022). We find that quiescent S/N per spectral resolution element [*| 4 [*| 5 in the peaks of key lines (C III, O VI, Fe XIX) can be achieved in 12 orbit observations (COS.sp.1949954, COS.sp.1949955, COS.sp.1949956), which we propose to break into 4 visits of 3 orbits each. These observations will also be sensitive to flares which can raise the FUV flux by factors of 5 [*| 10 and are expected to be present during [*| 25 [*| 40% of the total observing duration (France et al. 2020). The

majority of our proposed targets have previous UV detections, and UV/X-ray flares have been observed on several of our proposed targets (e.g., Brown et al. 2022; Behr et al. 2023).

++FUV Spectral Lightcurve Production for Flares |*| The COS FUV XDL detector records spectra in time-tagged mode as [x (or |*|), y, t] photon lists, where x is the photon|*|s x-axis arrival position (i.e., wavelength), y is the photon|*|s cross-dispersion location, and t is the photon arrival time. The CALCOS-provided corrtag files contain the [x, y, t] photon lists, and the total number of counts in a [|*|x,|*|y] box is integrated over an arbitrary time step |*|t as part of CalCOS|*|s SplitTag package. Flux-calibrated light curves (in units of $\text{erg cm}^{-2} \text{s}^{-1}$) are produced by integrating the SplitTag x1d spectrum over the wavelength interval |*| of the spectral line of interest.

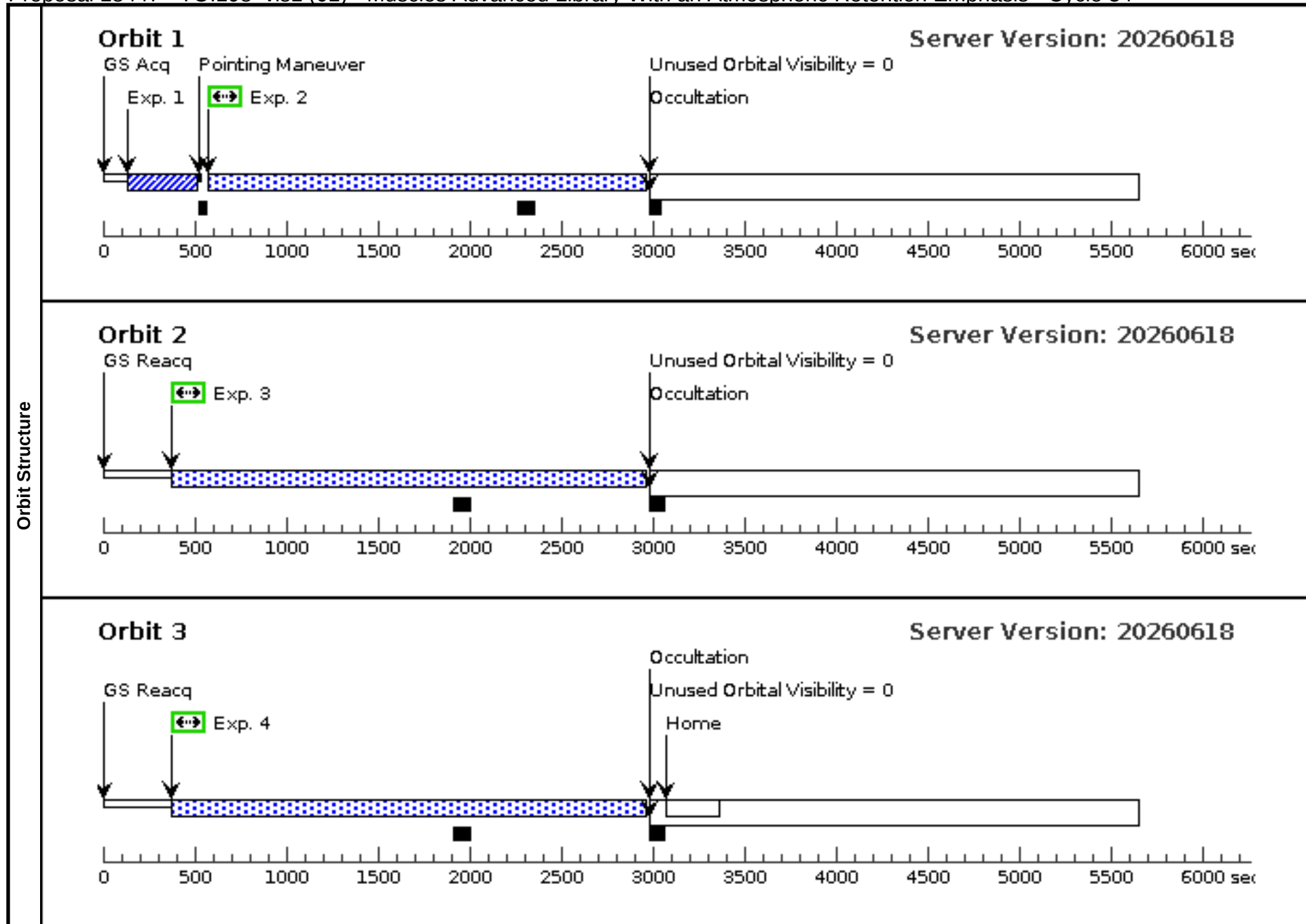
++COS Instrument Safety & Lifetime Position Usage: All of the spectral estimates for our targets have been run through the STScI on-line Exposure Time Calculators, including the |*|M dwarf flare safety margins|*| (COS ISR 2017-01-v3). Our targets are all well within the safety limits for the COS FUV detector using the G140L grating (including the bright lines Ly|*|, Si IV, and C IV). The targets have been checked against the new COS Lifetime Position Usage rules and are well under the 1% guidelines (COS.sp.1958706).

Proposal 18447 - TOI198 vis1 (01) - Muscles Advanced Library With an Atmospheric Retention Emphasis - Cycle 34

Visit	Proposal 18447, TOI198_vis1 (01), implementation					Mon Aug 17 15:01:01 GMT 2026
	Diagnostic Status: Warning					
	Scientific Instruments: COS/FUV, COS/NUV					
	Special Requirements: (none)					
Diagnostics	(TOI198_vis1 (01)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	TOI-198	RA: 00 09 4.3584 (2.2681600d)	Proper Motion RA: 692.224 mas/yr	V=11.67	Reference Frame: ICRS
		Alt Name1: CD-27-16	Dec: -27 07 19.68 (-27.12213d)	Proper Motion Dec: 90.067 mas/yr		
			Equinox: J2000	Parallax: 0.0420592"		
				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.					
	DDT: HST 18235, All LyA and FUV data scheduled by Oct 03 2026					
	SIMBAD:					
	Proper motions mas/yr : 692.224 90.067 [0.027 0.026 90] A 2020yCat.1350....0G					

Proposal 18447 - TOI198 vis1 (01) - Muscles Advanced Library With an Atmospheric Retention Emphasis - Cycle 34

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ_IMG_ TOI198_vis 1 (COS.ta.235 5582)	(5) TOI-198	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				35 Secs (35 Secs) [==>]	[1]
	2	COSspec_T OI198_vis1a (COS.sp.236 0353)	(5) TOI-198	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=15 00; LIFETIME-POS=L P11			2184 Secs (2184 Secs) [==>]	[1]
	Comments: BOP check in the ETC uses the LyA flare spectrum that the STScI RW DDT team used for their APT file (GO18235). As another check, we ran the BOP assuming a 9000K BB with U = 12.03 (U - delU), and it also passes (COS.sp.2360354).									
	3	COSspec_T OI198_vis1 b (COS.sp.236 0353)	(5) TOI-198	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=15 00; LIFETIME-POS=L P11			2539 Secs (2539 Secs) [==>]	[2]
	4	COSspec_T OI198_vis1c (COS.sp.236 0353)	(5) TOI-198	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15 00; LIFETIME-POS=L P11			2539 Secs (2539 Secs) [==>]	[3]

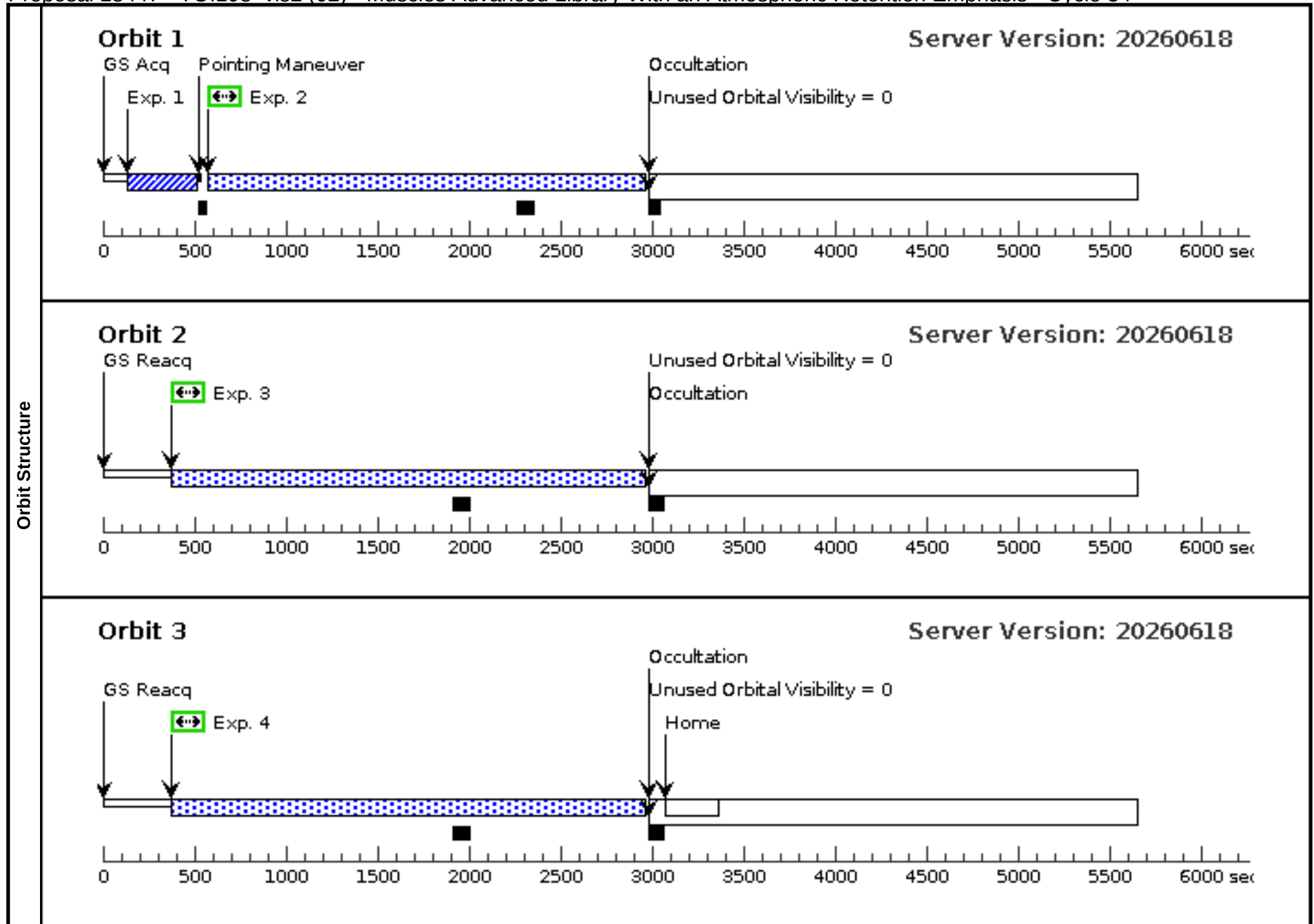


Proposal 18447 - TOI198 vis2 (02) - Muscles Advanced Library With an Atmospheric Retention Emphasis - Cycle 34

Visit	Proposal 18447, TOI198_vis2 (02), implementation Mon Aug 17 15:01:02 GMT 2026				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)				
Diagnosics	(TOI198_vis2 (02)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(5)	TOI-198	RA: 00 09 4.3584 (2.2681600d)	Proper Motion RA: 692.224 mas/yr	V=11.67
		Alt Name1: CD-27-16	Dec: -27 07 19.68 (-27.12213d)	Proper Motion Dec: 90.067 mas/yr	Reference Frame: ICRS
			Equinox: J2000	Parallax: 0.0420592"	
				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.				
	DDT: HST 18235, All LyA and FUV data scheduled by Oct 03 2026				
	SIMBAD: Proper motions mas/yr : 692.224 90.067 [0.027 0.026 90] A 2020yCat.1350....0G Radial velocity / Redshift / cz : V(km/s) 20.37 [0.58] / z(spectroscopic) 0.000068 [0.000002] / cz 20.37 [0.58] (Opt) A 2018yCat.1345....0G Parallaxes (mas): 42.0592 [0.0324] A 2020yCat.1350....0G Spectral type: M0V C 2006AJ....132..161G Fluxes (12) : U 14.332 [~] C 2010MNRAS.403.1949K B 13.184 [~] C 2010MNRAS.403.1949K V 11.670 [~] C 2010MNRAS.403.1949K Category=EXT-STAR Description=[M V-IV] Extended=NO				

Proposal 18447 - TOI198 vis2 (02) - Muscles Advanced Library With an Atmospheric Retention Emphasis - Cycle 34

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ_IMG_ TOI198_vis 2 (COS.ta.235 5582)	(5) TOI-198	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				35 Secs (35 Secs) [==>]	[1]
	2	COSspec_T OI198_vis2a (COS.sp.236 0353)	(5) TOI-198	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=15 00; LIFETIME-POS=L P11			2184 Secs (2184 Secs) [==>]	[1]
	Comments: BOP check in the ETC uses the LyA flare spectrum that the STScI RW DDT team used for their APT file (GO18235). As another check, we ran the BOP assuming a 9000K BB with U = 12.03 (U - delU), and it also passes (COS.sp.2360354).									
	3	COSspec_T OI198_vis2 b (COS.sp.236 0353)	(5) TOI-198	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=15 00; LIFETIME-POS=L P11			2539 Secs (2539 Secs) [==>]	[2]
	4	COSspec_T OI198_vis2c (COS.sp.236 0353)	(5) TOI-198	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15 00; LIFETIME-POS=L P11			2539 Secs (2539 Secs) [==>]	[3]

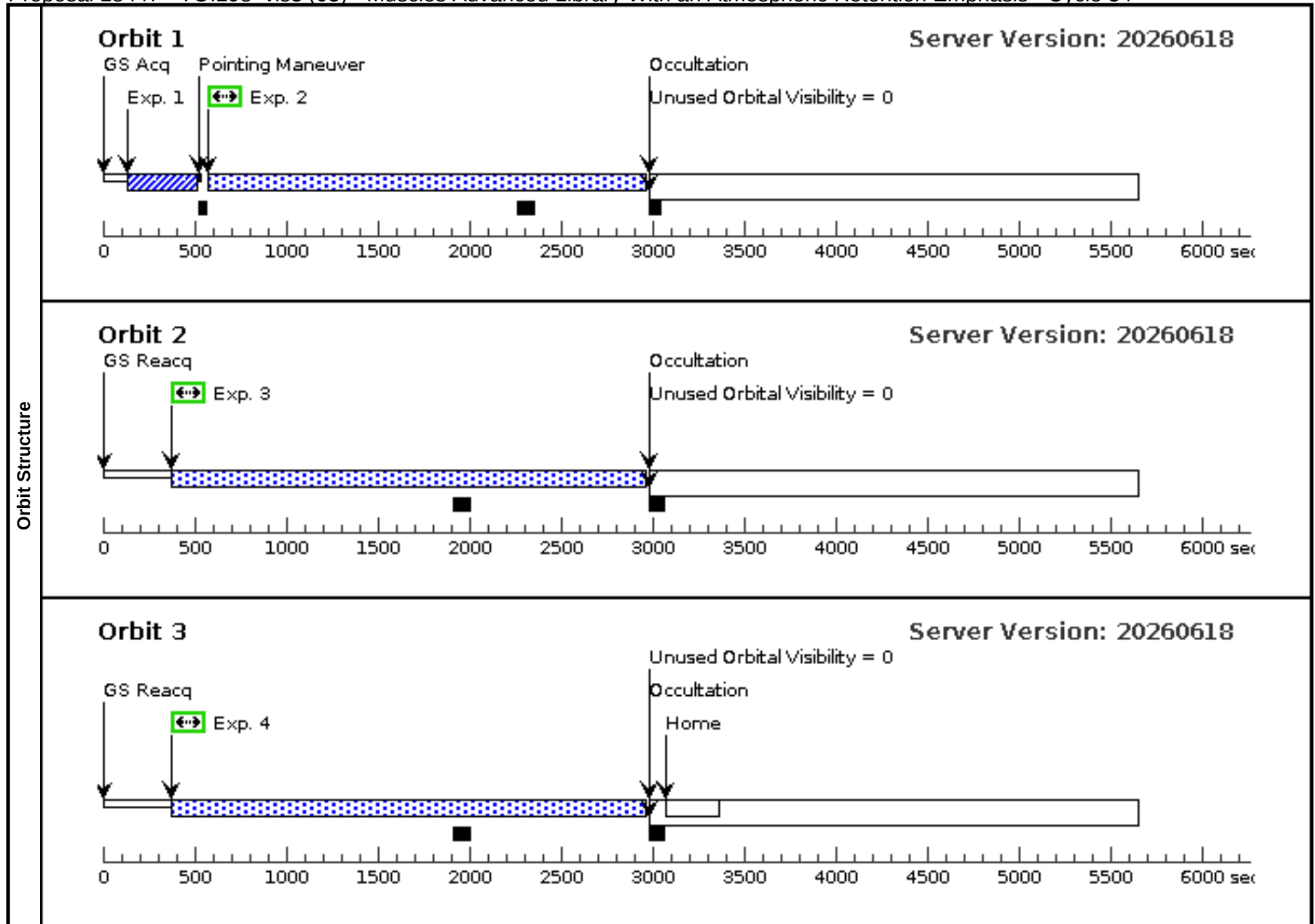


Proposal 18447 - TOI198 vis3 (03) - Muscles Advanced Library With an Atmospheric Retention Emphasis - Cycle 34

Visit	Proposal 18447, TOI198_vis3 (03), implementation					Mon Aug 17 15:01:02 GMT 2026
	Diagnostic Status: Warning					
	Scientific Instruments: COS/FUV, COS/NUV					
	Special Requirements: (none)					
Diagnostics	(TOI198_vis3 (03)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	TOI-198	RA: 00 09 4.3584 (2.2681600d)	Proper Motion RA: 692.224 mas/yr	V=11.67	Reference Frame: ICRS
		Alt Name1: CD-27-16	Dec: -27 07 19.68 (-27.12213d)	Proper Motion Dec: 90.067 mas/yr		
			Equinox: J2000	Parallax: 0.0420592"		
				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.					
	DDT: HST 18235, All LyA and FUV data scheduled by Oct 03 2026					
	SIMBAD:					
	Proper motions mas/yr : 692.224 90.067 [0.027 0.026 90] A 2020yCat.1350....0G					

Proposal 18447 - TOI198 vis3 (03) - Muscles Advanced Library With an Atmospheric Retention Emphasis - Cycle 34

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ_IMG_ TOI198_vis 3 (COS.ta.235 5582)	(5) TOI-198	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				35 Secs (35 Secs) [==>]	[1]
	2	COSspec_T OI198_vis3a (COS.sp.236 0353)	(5) TOI-198	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=15 00; LIFETIME-POS=L P11			2184 Secs (2184 Secs) [==>]	[1]
	Comments: BOP check in the ETC uses the LyA flare spectrum that the STScI RW DDT team used for their APT file (GO18235). As another check, we ran the BOP assuming a 9000K BB with U = 12.03 (U - delU), and it also passes (COS.sp.2360354).									
	3	COSspec_T OI198_vis3 b (COS.sp.236 0353)	(5) TOI-198	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=15 00; LIFETIME-POS=L P11			2539 Secs (2539 Secs) [==>]	[2]
	4	COSspec_T OI198_vis3c (COS.sp.236 0353)	(5) TOI-198	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15 00; LIFETIME-POS=L P11			2539 Secs (2539 Secs) [==>]	[3]

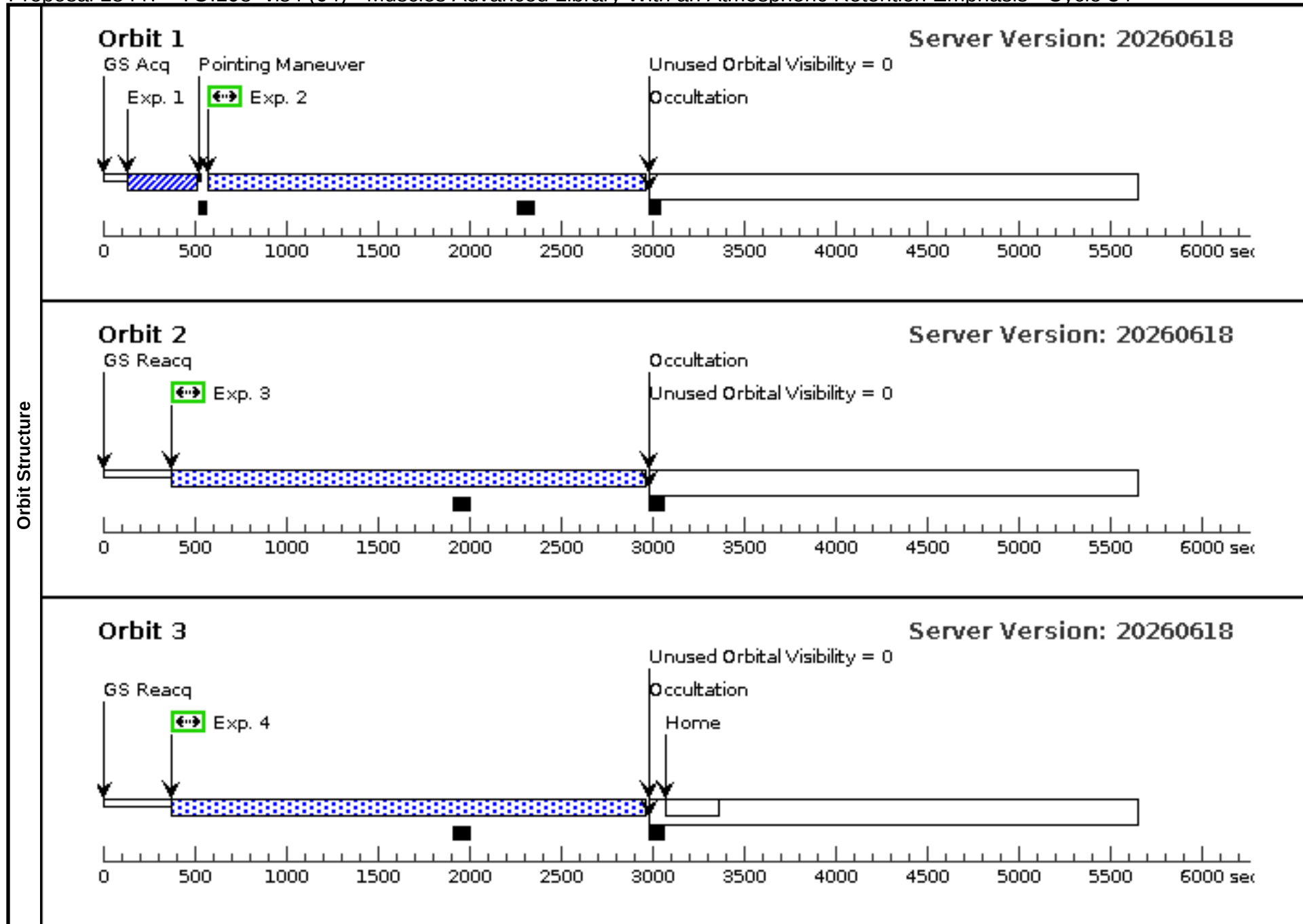


Proposal 18447 - TOI198 vis4 (04) - Muscles Advanced Library With an Atmospheric Retention Emphasis - Cycle 34

Visit	Proposal 18447, TOI198_vis4 (04), implementation					Mon Aug 17 15:01:02 GMT 2026
	Diagnostic Status: Warning					
	Scientific Instruments: COS/FUV, COS/NUV					
	Special Requirements: (none)					
Diagnostics	(TOI198_vis4 (04)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	TOI-198	RA: 00 09 4.3584 (2.2681600d)	Proper Motion RA: 692.224 mas/yr	V=11.67	Reference Frame: ICRS
		Alt Name1: CD-27-16	Dec: -27 07 19.68 (-27.12213d)	Proper Motion Dec: 90.067 mas/yr		
			Equinox: J2000	Parallax: 0.0420592"		
				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.					
	DDT: HST 18235, All LyA and FUV data scheduled by Oct 03 2026					
	SIMBAD:					
	Proper motions mas/yr : 692.224 90.067 [0.027 0.026 90] A 2020yCat.1350....0G					

Proposal 18447 - TOI198 vis4 (04) - Muscles Advanced Library With an Atmospheric Retention Emphasis - Cycle 34

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ_IMG_ TOI198_vis 4 (COS.ta.235 5582)	(5) TOI-198	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				35 Secs (35 Secs) [==>]	[1]
	2	COSspec_T OI198_vis4a (COS.sp.236 0353)	(5) TOI-198	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=15 00; LIFETIME-POS=L P11			2184 Secs (2184 Secs) [==>]	[1]
	Comments: BOP check in the ETC uses the LyA flare spectrum that the STScI RW DDT team used for their APT file (GO18235). As another check, we ran the BOP assuming a 9000K BB with U = 12.03 (U - delU), and it also passes (COS.sp.2360354).									
	3	COSspec_T OI198_vis4 b (COS.sp.236 0353)	(5) TOI-198	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=15 00; LIFETIME-POS=L P11			2539 Secs (2539 Secs) [==>]	[2]
	4	COSspec_T OI198_vis4c (COS.sp.236 0353)	(5) TOI-198	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15 00; LIFETIME-POS=L P11			2539 Secs (2539 Secs) [==>]	[3]

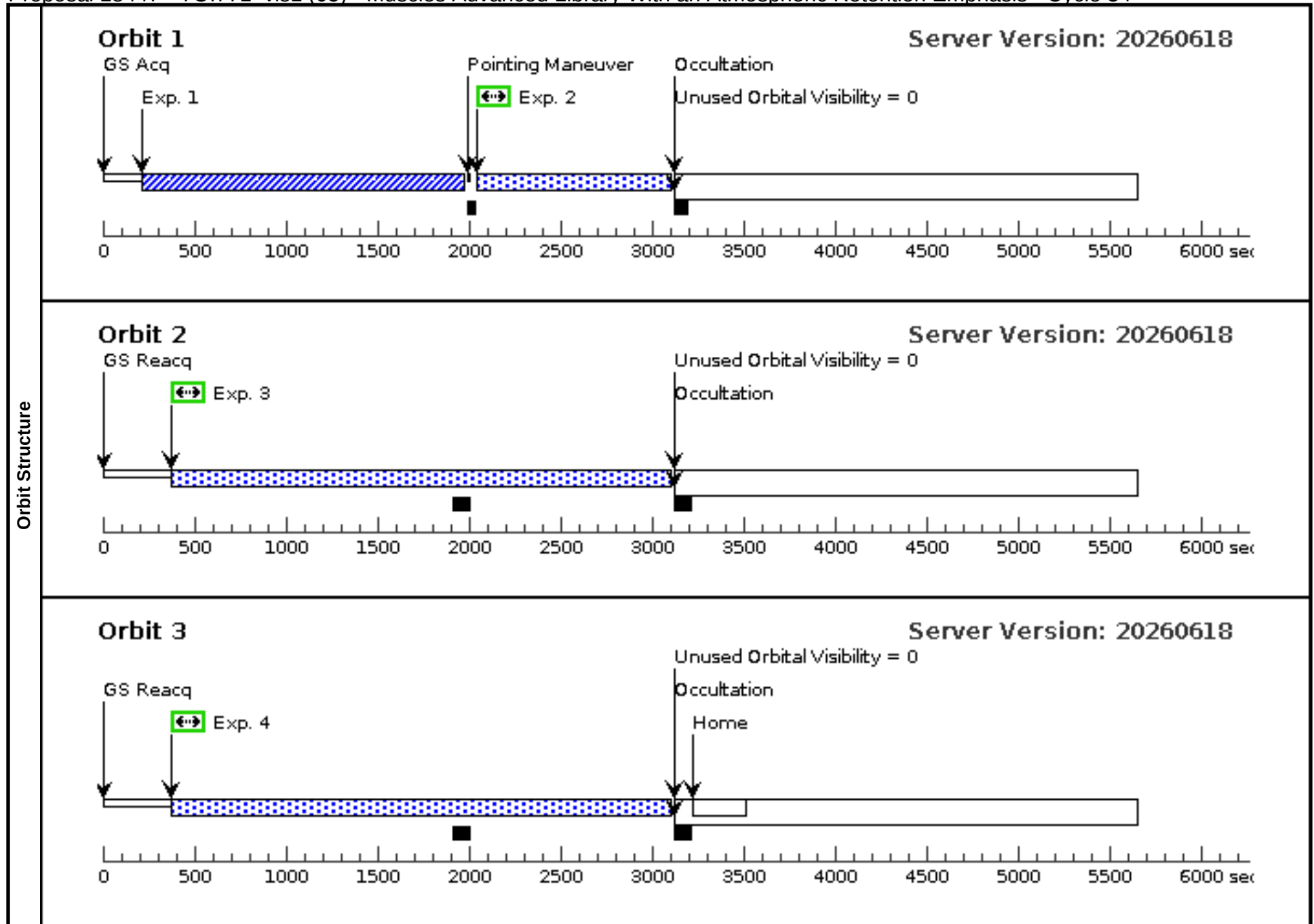


Proposal 18447 - TOI771_vis1 (05) - Muscles Advanced Library With an Atmospheric Retention Emphasis - Cycle 34

Visit	Proposal 18447, TOI771_vis1 (05), implementation					Mon Aug 17 15:01:02 GMT 2026
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)					
Diagnostics	(TOI771_vis1 (05)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(6)	TOI-771	RA: 10 56 27.1949 (164.1133121d) Dec: -72 59 5.44 (-72.98484d) Equinox: J2000	Proper Motion RA: 39.3 mas/yr Proper Motion Dec: -76.41700003659935 mas/yr Parallax: 0.0394467" Epoch of Position: 2000	V=14.9	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.					
	Vmag = 14.9, https://arxiv.org/abs/2504.18223 , G. Lacedelli, et al. 2025 Pecaut & Mamajek 2013 for a T=3400, log(g) = 5.0 star, U-B = 1.39, B-V = 1.51. $U = (V=14.9) + (B-V=1.51) + (U-B=1.39) = 18.8$					
	DDT: HST 18249, STIS from STELa, FUV orbits in hand and more Fall 2026, LyA from STELa, in the archive now.					
	SIMBAD: Proper motions mas/yr : 39.300 -76.417 [0.017 0.015 90] A 2020yCat.1350....0G Parallaxes (mas): 39.4467 [0.0136] A 2020yCat.1350....0G Spectral type: M3 D 2025A&A...698A.223L Fluxes (5) : R 14.347 [0.07] E 2012yCat.1322....0Z G 13.343480 [0.002805] C 2020yCat.1350....0G					
	Bright Object Protection: Two object flag for NUV target acq, V = 15 - 16, both with B-V ~ 0.51. Using Pecaut & Mamajek 2013 we see those stars are likely main sequence F stars (T=6300, logg= 4.,0 U-B=0.039, B-V= 0.519). A mid-F star at V = 15.35 clears the BOP : COS.ta.2361676. Category=EXT-STAR Description=[M V-IV] Extended=NO					

Proposal 18447 - TOI771 vis1 (05) - Muscles Advanced Library With an Atmospheric Retention Emphasis - Cycle 34

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ_IMG_ TOI771_vis 1 (COS.ta.233 6257)	(6) TOI-771	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				770 Secs (770 Secs) [==>]	[1]
	2	COSspec_T OI771_vis1a (COS.sp.236 0358)	(6) TOI-771	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=15 00; LIFETIME-POS=L P11			846 Secs (846 Secs) [==>]	[1]
	3	COSspec_T OI771_vis1 b (COS.sp.236 0358)	(6) TOI-771	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=15 00; LIFETIME-POS=L P11			2677 Secs (2677 Secs) [==>]	[2]
	4	COSspec_T OI771_vis1c (COS.sp.236 0358)	(6) TOI-771	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15 00; LIFETIME-POS=L P11			2677 Secs (2677 Secs) [==>]	[3]

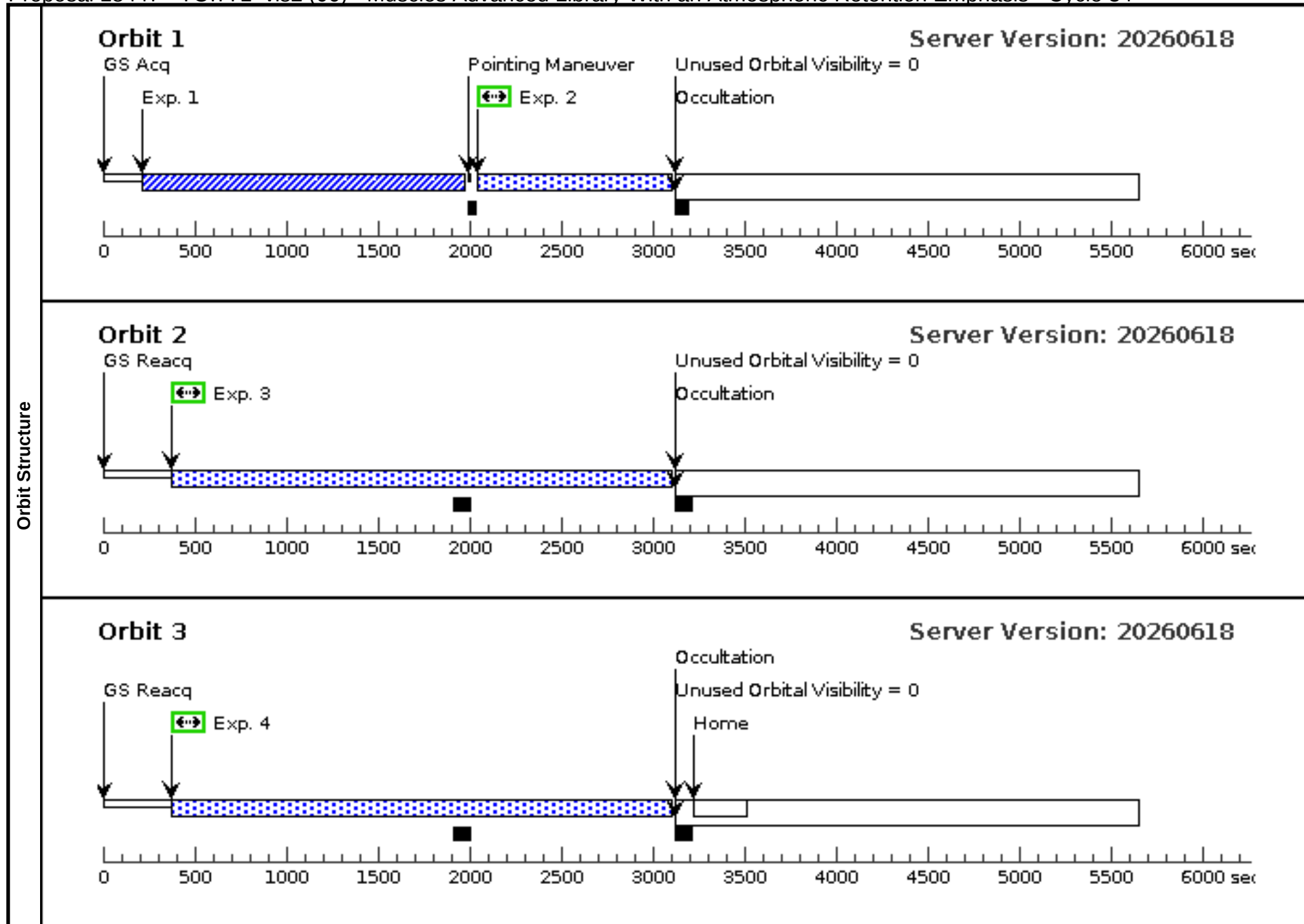


Proposal 18447 - TOI771_vis2 (06) - Muscles Advanced Library With an Atmospheric Retention Emphasis - Cycle 34

Visit	Proposal 18447, TOI771_vis2 (06), implementation					Mon Aug 17 15:01:02 GMT 2026
	Diagnostic Status: Warning					
	Scientific Instruments: COS/FUV, COS/NUV					
	Special Requirements: (none)					
Diagnostics	(TOI771_vis2 (06)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(6)	TOI-771	RA: 10 56 27.1949 (164.1133121d)	Proper Motion RA: 39.3 mas/yr	V=14.9	Reference Frame: ICRS
			Dec: -72 59 5.44 (-72.98484d)	Proper Motion Dec: -76.41700003659935 mas/yr		
			Equinox: J2000	Parallax: 0.0394467"		
				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.					
	Vmag = 14.9, https://arxiv.org/abs/2504.18223 , G. Lacedelli, et al. 2025					
	Pecaut & Mamajek 2013 for a T=3400, log(g) = 5.0 star, U-B = 1.39, B-V = 1.51. $U = (V=14.9) + (B-V=1.51) + (U-B=1.39) = 18.8$					
	DDT: HST 18249, STIS from STELa, FUV orbits in hand and more Fall 2026, LyA from STELa, in the archive now.					
SIMBAD:						
Proper motions mas/yr : 39.300 -76.417 [0.017 0.015 90] A 2020yCat.1350....0G						
Parallaxes (mas): 39.4467 [0.0136] A 2020yCat.1350....0G						
Spectral type: M3 D 2025A&A...698A.223L						
Fluxes (5) :						
R 14.347 [0.07] E 2012yCat.1322....0Z						
G 13.343480 [0.002805] C 2020yCat.1350....0G						
Bright Object Protection: Two object flag for NUV target acq, V = 15 - 16, both with B-V ~ 0.51. Using Pecaut & Mamajek 2013 we see those stars are likely main sequence F stars (T=6300, logg= 4.,0 U-B=0.039, B-V= 0.519). A mid-F star at V = 15.35 clears the BOP : COS.ta.2361676.						
Category=EXT-STAR						
Description=[M V-IV]						
Extended=NO						

Proposal 18447 - TOI771 vis2 (06) - Muscles Advanced Library With an Atmospheric Retention Emphasis - Cycle 34

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ_IMG_ TOI771_vis 2 (COS.ta.233 6257)	(6) TOI-771	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				770 Secs (770 Secs) [==>]	[1]
	2	COSspec_T OI771_vis2a (COS.sp.236 0358)	(6) TOI-771	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=15 00; LIFETIME-POS=L P11			846 Secs (846 Secs) [==>]	[1]
	3	COSspec_T OI771_vis2 b (COS.sp.236 0358)	(6) TOI-771	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=15 00; LIFETIME-POS=L P11			2677 Secs (2677 Secs) [==>]	[2]
	4	COSspec_T OI771_vis2c (COS.sp.236 0358)	(6) TOI-771	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15 00; LIFETIME-POS=L P11			2677 Secs (2677 Secs) [==>]	[3]

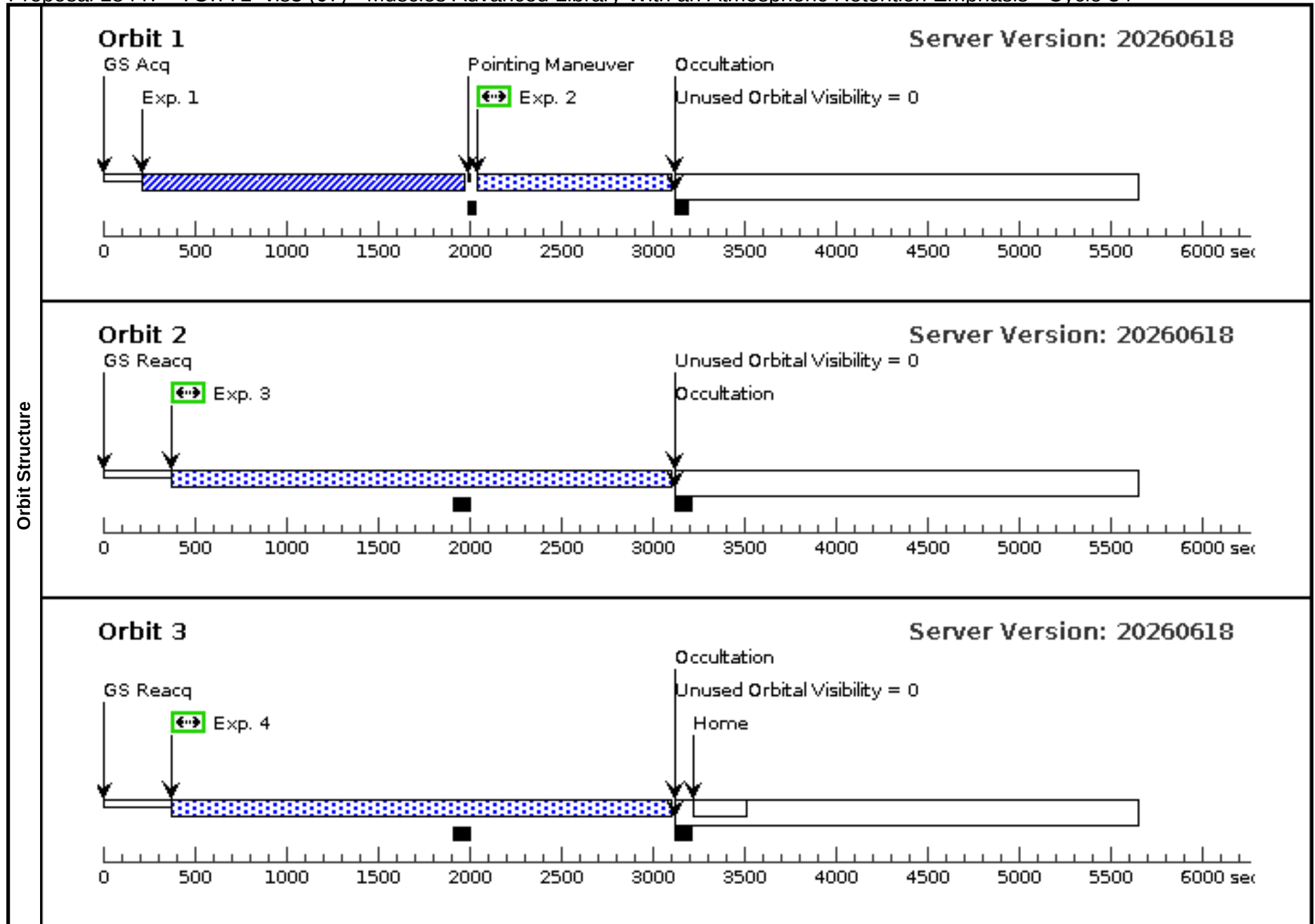


Proposal 18447 - TOI771_vis3 (07) - Muscles Advanced Library With an Atmospheric Retention Emphasis - Cycle 34

Visit	Proposal 18447, TOI771_vis3 (07), implementation Mon Aug 17 15:01:02 GMT 2026				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)				
Diagnostics	(TOI771_vis3 (07)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(6)	TOI-771	RA: 10 56 27.1949 (164.1133121d) Dec: -72 59 5.44 (-72.98484d) Equinox: J2000	Proper Motion RA: 39.3 mas/yr Proper Motion Dec: -76.41700003659935 mas/yr Parallax: 0.0394467" Epoch of Position: 2000	V=14.9
Fixed Targets	Miscellaneous Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> <i>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.</i> <i>Vmag = 14.9, https://arxiv.org/abs/2504.18223, G. Lacedelli, et al. 2025</i> <i>Pecaut & Mamajek 2013 for a T=3400, log(g) = 5.0 star, U-B = 1.39, B-V = 1.51. $U = (V=14.9) + (B-V=1.51) + (U-B=1.39) = 18.8$</i> <i>DDT: HST 18249, STIS from STELa, FUV orbits in hand and more Fall 2026, LyA from STELa, in the archive now.</i> SIMBAD: <i>Proper motions mas/yr : 39.300 -76.417 [0.017 0.015 90] A 2020yCat.1350....0G</i> <i>Parallaxes (mas): 39.4467 [0.0136] A 2020yCat.1350....0G</i> <i>Spectral type: M3 D 2025A&A...698A.223L</i> <i>Fluxes (5) :</i> <i>R 14.347 [0.07] E 2012yCat.1322....0Z</i> <i>G 13.343480 [0.002805] C 2020yCat.1350....0G</i> <i>Bright Object Protection: Two object flag for NUV target acq, V = 15 - 16, both with B-V ~ 0.51. Using Pecaut & Mamajek 2013 we see those stars are likely main sequence F stars (T=6300, logg= 4.,0 U-B=0.039, B-V= 0.519). A mid-F star at V = 15.35 clears the BOP : COS.ta.2361676.</i> <i>Category=EXT-STAR</i> <i>Description=[M V-IV]</i> <i>Extended=NO</i>				

Proposal 18447 - TOI771 vis3 (07) - Muscles Advanced Library With an Atmospheric Retention Emphasis - Cycle 34

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ_IMG_ TOI771_vis 3 (COS.ta.233 6257)	(6) TOI-771	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				770 Secs (770 Secs) [==>]	[1]
	2	COSspec_T OI771_vis3a (COS.sp.236 0358)	(6) TOI-771	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=15 00; LIFETIME-POS=L P11			846 Secs (846 Secs) [==>]	[1]
	3	COSspec_T OI771_vis3 b (COS.sp.236 0358)	(6) TOI-771	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=15 00; LIFETIME-POS=L P11			2677 Secs (2677 Secs) [==>]	[2]
	4	COSspec_T OI771_vis3c (COS.sp.236 0358)	(6) TOI-771	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15 00; LIFETIME-POS=L P11			2677 Secs (2677 Secs) [==>]	[3]



Proposal 18447 - TOI771_vis4 (08) - Muscles Advanced Library With an Atmospheric Retention Emphasis - Cycle 34

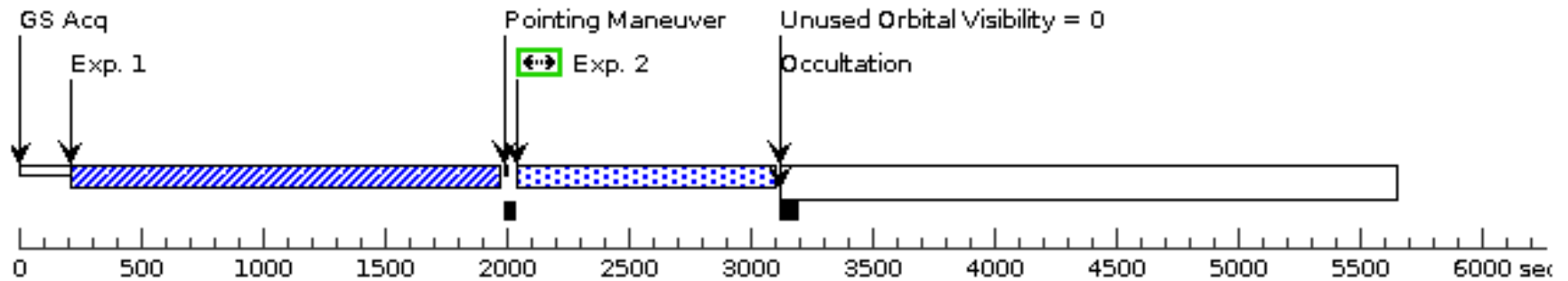
Visit	Proposal 18447, TOI771_vis4 (08), implementation					Mon Aug 17 15:01:02 GMT 2026
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)					
Diagnostics	(TOI771_vis4 (08)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(6)	TOI-771	RA: 10 56 27.1949 (164.1133121d) Dec: -72 59 5.44 (-72.98484d) Equinox: J2000	Proper Motion RA: 39.3 mas/yr Proper Motion Dec: -76.41700003659935 mas/yr Parallax: 0.0394467" Epoch of Position: 2000	V=14.9	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.					
	Vmag = 14.9, https://arxiv.org/abs/2504.18223 , G. Lacedelli, et al. 2025 Pecaut & Mamajek 2013 for a T=3400, log(g) = 5.0 star, U-B = 1.39, B-V = 1.51. $U = (V=14.9) + (B-V=1.51) + (U-B=1.39) = 18.8$					
	DDT: HST 18249, STIS from STELa, FUV orbits in hand and more Fall 2026, LyA from STELa, in the archive now.					
	SIMBAD: Proper motions mas/yr : 39.300 -76.417 [0.017 0.015 90] A 2020yCat.1350....0G Parallaxes (mas): 39.4467 [0.0136] A 2020yCat.1350....0G Spectral type: M3 D 2025A&A...698A.223L Fluxes (5) : R 14.347 [0.07] E 2012yCat.1322....0Z G 13.343480 [0.002805] C 2020yCat.1350....0G					
	Bright Object Protection: Two object flag for NUV target acq, V = 15 - 16, both with B-V ~ 0.51. Using Pecaut & Mamajek 2013 we see those stars are likely main sequence F stars (T=6300, logg= 4.,0 U-B=0.039, B-V= 0.519). A mid-F star at V = 15.35 clears the BOP : COS.ta.2361676. Category=EXT-STAR Description=[M V-IV] Extended=NO					

Proposal 18447 - TOI771 vis4 (08) - Muscles Advanced Library With an Atmospheric Retention Emphasis - Cycle 34

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ_IMG_ TOI771_vis 4 (COS.ta.233 6257)	(6) TOI-771	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				770 Secs (770 Secs) [==>]	[1]
	2	COSspec_T OI771_vis4a (COS.sp.236 0358)	(6) TOI-771	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=15 00; LIFETIME-POS=L P11			846 Secs (846 Secs) [==>]	[1]
	3	COSspec_T OI771_vis4 b (COS.sp.236 0358)	(6) TOI-771	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=15 00; LIFETIME-POS=L P11			2677 Secs (2677 Secs) [==>]	[2]
	4	COSspec_T OI771_vis4c (COS.sp.236 0358)	(6) TOI-771	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15 00; LIFETIME-POS=L P11			2677 Secs (2677 Secs) [==>]	[3]

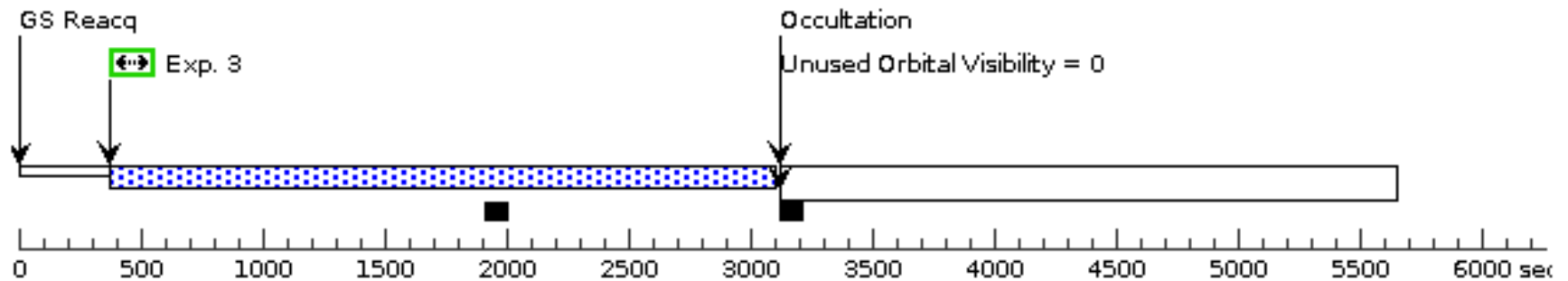
Orbit 1

Server Version: 20260618



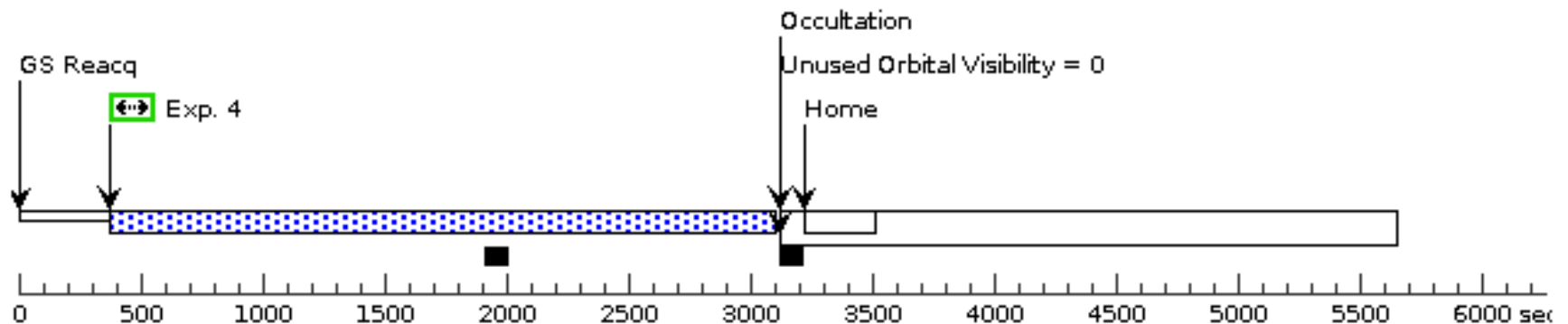
Orbit 2

Server Version: 20260618



Orbit 3

Server Version: 20260618

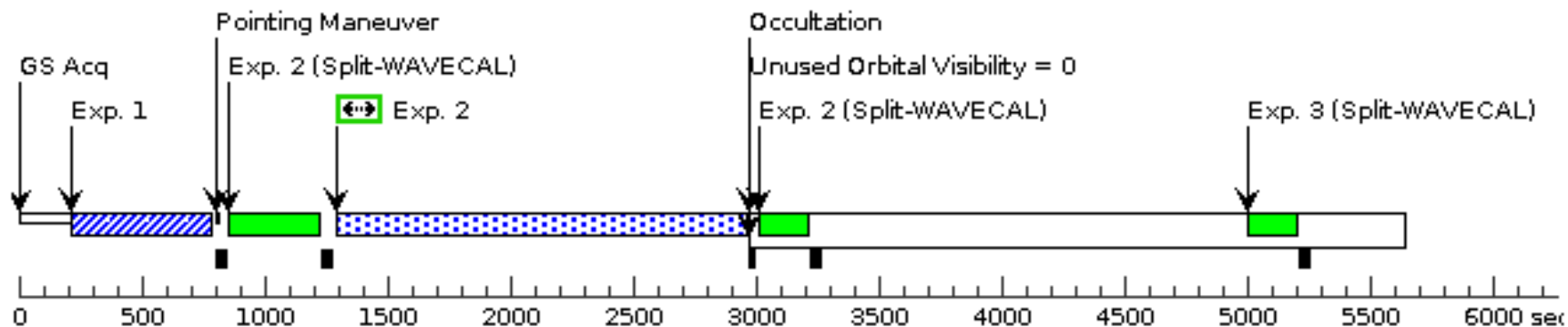


Proposal 18447 - HD260655 vis1 (09) - Muscles Advanced Library With an Atmospheric Retention Emphasis - Cycle 34

Visit	Proposal 18447, HD260655_vis1 (09), implementation									Mon Aug 17 15:01:02 GMT 2026	
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: (none)										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(7)	HD-260655	RA: 06 37 10.7988 (99.2949950d) Dec: +17 33 53.33 (17.56481d) Equinox: J2000	Proper Motion RA: -764.414 mas/yr Proper Motion Dec: 337.883 mas/yr Parallax: 0.1000232" Epoch of Position: 2000		V=9.593		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.										
	DDT: HST 18236, FUV spectra in place by Dec 2026 (some scheduled earlier)/ LyA, FUV from STIS G140M, E140M, G130M in Hot Rocks										
	SIMBAD: Proper motions mas/yr : -764.414 337.883 [0.022 0.018 90] A 2020yCat.1350....0G Radial velocity / Redshift / cz : V(km/s) -58.321 [0.0136] / z(spectroscopic) -0.000195 [0.000000] / cz -58.32 [0.01] (Opt) A 2018A&A...616A...7S Parallaxes (mas): 100.0232 [0.0208] A 2020yCat.1350....0G Spectral type: M0.0V C 2013AJ....145..102L Fluxes (12) : U 12.303 [~] C 2010MNRAS.403.1949K B 11.104 [~] C 2010MNRAS.403.1949K V 9.593 [~] C 2010MNRAS.403.1949K Category=EXT-STAR Description=[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	ACQ_IMG_ (7) HD-260655 HD260655_vis1 (COS.ta.230 0904)		COS/NUV, ACQ/IMAGE, BOA	MIRRORA				175 Secs (175 Secs) [==>]	[1]
		2	COSspec_H (7) HD-260655 D260655_vis1a (COS.sp.236 0352)		COS/FUV, TIME-TAG, PSA	G130M 1055 A	FP-POS=1; BUFFER-TIME=15000; LIFETIME-POS=L P7			1614 Secs (1614 Secs) [==>]	[1]
		3	COSspec_H (7) HD-260655 D260655_vis1b (COS.sp.236 0352)		COS/FUV, TIME-TAG, PSA	G130M 1055 A	FP-POS=2; BUFFER-TIME=15000; LIFETIME-POS=L P7			2536 Secs (2536 Secs) [==>]	[2]
4		COSspec_H (7) HD-260655 D260655_vis1c (COS.sp.236 0352)		COS/FUV, TIME-TAG, PSA	G130M 1055 A	FP-POS=3; BUFFER-TIME=15000; LIFETIME-POS=L P7			2536 Secs (2536 Secs) [==>]	[3]	

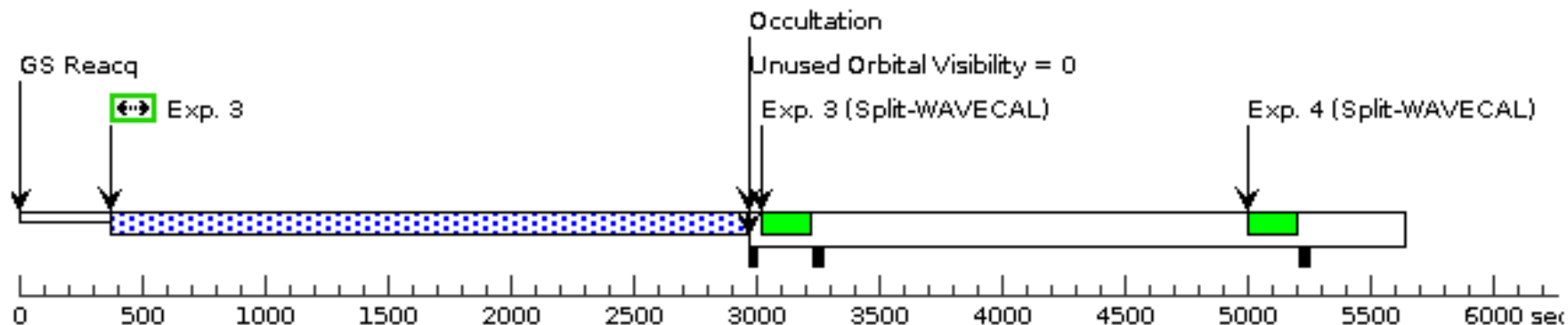
Orbit 1

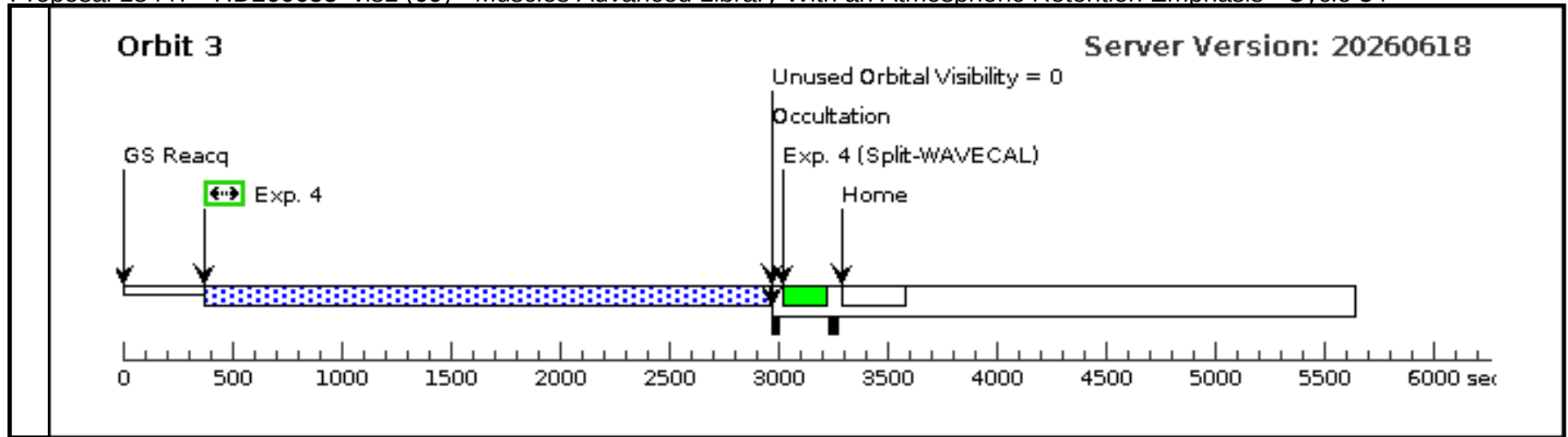
Server Version: 20260618



Orbit 2

Server Version: 20260618



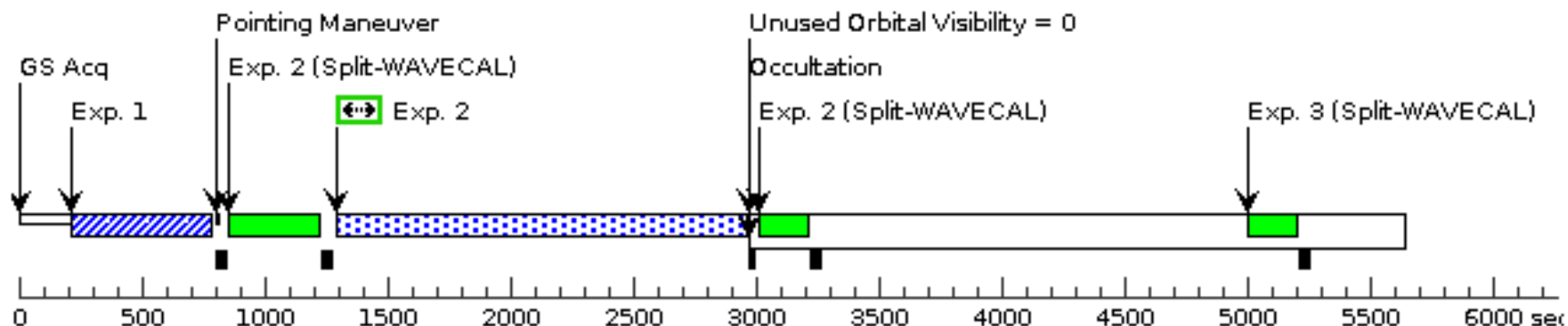


Proposal 18447 - HD260655 vis2 (10) - Muscles Advanced Library With an Atmospheric Retention Emphasis - Cycle 34

Visit	Proposal 18447, HD260655_vis2 (10), implementation									Mon Aug 17 15:01:02 GMT 2026
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(7)	HD-260655	RA: 06 37 10.7988 (99.2949950d) Dec: +17 33 53.33 (17.56481d) Equinox: J2000	Proper Motion RA: -764.414 mas/yr Proper Motion Dec: 337.883 mas/yr Parallax: 0.1000232" Epoch of Position: 2000		V=9.593		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.									
	DDT: HST 18236, FUV spectra in place by Dec 2026 (some scheduled earlier)/ LyA, FUV from STIS G140M, E140M, G130M in Hot Rocks									
	SIMBAD: Proper motions mas/yr : -764.414 337.883 [0.022 0.018 90] A 2020yCat.1350....0G Radial velocity / Redshift / cz : V(km/s) -58.321 [0.0136] / z(spectroscopic) -0.000195 [0.000000] / cz -58.32 [0.01] (Opt) A 2018A&A...616A...7S Parallaxes (mas): 100.0232 [0.0208] A 2020yCat.1350....0G Spectral type: M0.0V C 2013AJ....145..102L Fluxes (12) : U 12.303 [~] C 2010MNRAS.403.1949K B 11.104 [~] C 2010MNRAS.403.1949K V 9.593 [~] C 2010MNRAS.403.1949K Category=EXT-STAR Description=[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	ACQ_IMG_ (7) HD-260655 HD260655_vis2 (COS.ta.230 0904)		COS/NUV, ACQ/IMAGE, BOA	MIRRORA				175 Secs (175 Secs) [==>]	[1]
	2	COSspec_H (7) HD-260655 D260655_vis2a (COS.sp.236 0352)		COS/FUV, TIME-TAG, PSA	G130M 1055 A	FP-POS=1; BUFFER-TIME=15000; LIFETIME-POS=L P7			1614 Secs (1614 Secs) [==>]	[1]
	3	COSspec_H (7) HD-260655 D260655_vis2b (COS.sp.236 0352)		COS/FUV, TIME-TAG, PSA	G130M 1055 A	FP-POS=2; BUFFER-TIME=15000; LIFETIME-POS=L P7			2536 Secs (2536 Secs) [==>]	[2]
	4	COSspec_H (7) HD-260655 D260655_vis2c (COS.sp.236 0352)		COS/FUV, TIME-TAG, PSA	G130M 1055 A	FP-POS=3; BUFFER-TIME=15000; LIFETIME-POS=L P7			2536 Secs (2536 Secs) [==>]	[3]

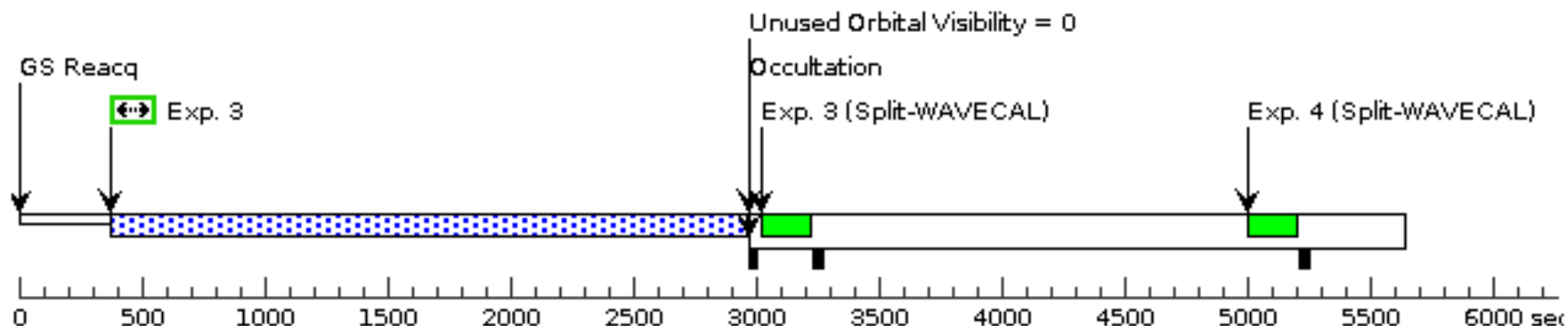
Orbit 1

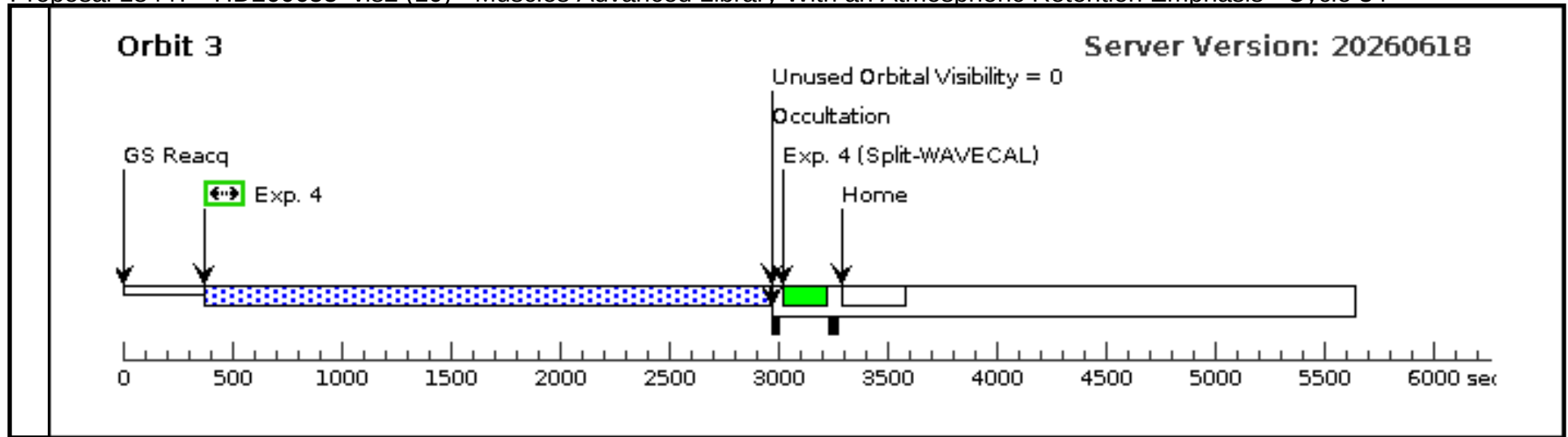
Server Version: 20260618



Orbit 2

Server Version: 20260618



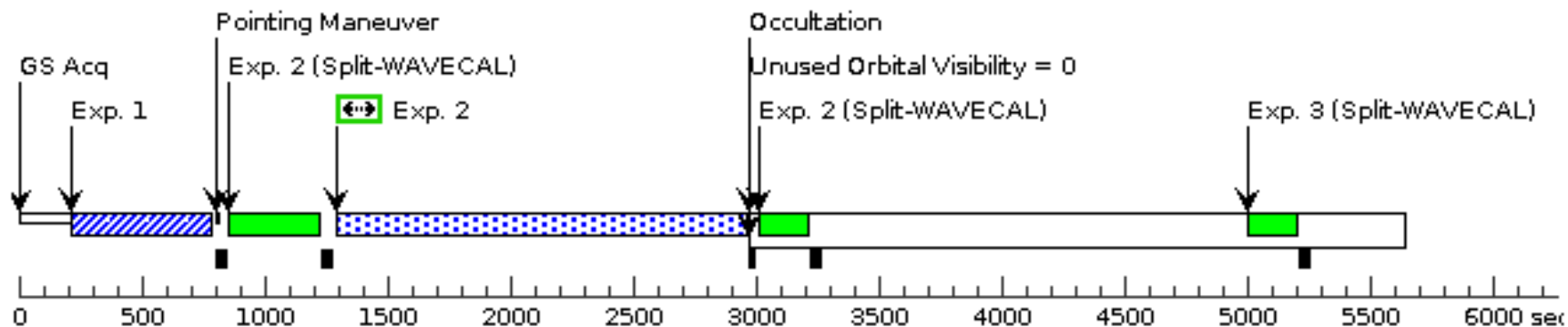


Proposal 18447 - HD260655 vis3 (11) - Muscles Advanced Library With an Atmospheric Retention Emphasis - Cycle 34

Visit	Proposal 18447, HD260655_vis3 (11), implementation									Mon Aug 17 15:01:02 GMT 2026	
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: (none)										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(7)	HD-260655	RA: 06 37 10.7988 (99.2949950d) Dec: +17 33 53.33 (17.56481d) Equinox: J2000	Proper Motion RA: -764.414 mas/yr Proper Motion Dec: 337.883 mas/yr Parallax: 0.1000232" Epoch of Position: 2000		V=9.593		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.										
	DDT: HST 18236, FUV spectra in place by Dec 2026 (some scheduled earlier)/ LyA, FUV from STIS G140M, E140M, G130M in Hot Rocks										
	SIMBAD: Proper motions mas/yr : -764.414 337.883 [0.022 0.018 90] A 2020yCat.1350....0G Radial velocity / Redshift / cz : V(km/s) -58.321 [0.0136] / z(spectroscopic) -0.000195 [0.000000] / cz -58.32 [0.01] (Opt) A 2018A&A...616A...7S Parallaxes (mas): 100.0232 [0.0208] A 2020yCat.1350....0G Spectral type: M0.0V C 2013AJ....145..102L Fluxes (12) : U 12.303 [~] C 2010MNRAS.403.1949K B 11.104 [~] C 2010MNRAS.403.1949K V 9.593 [~] C 2010MNRAS.403.1949K Category=EXT-STAR Description=[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	ACQ_IMG_ (7) HD-260655 HD260655_vis3 (COS.ta.230 0904)		COS/NUV, ACQ/IMAGE, BOA	MIRRORA				175 Secs (175 Secs) [==>]	[1]
		2	COSspec_H (7) HD-260655 D260655_vis3a (COS.sp.236 0352)		COS/FUV, TIME-TAG, PSA	G130M 1055 A	FP-POS=1; BUFFER-TIME=15000; LIFETIME-POS=L P7			1614 Secs (1614 Secs) [==>]	[1]
		3	COSspec_H (7) HD-260655 D260655_vis3b (COS.sp.236 0352)		COS/FUV, TIME-TAG, PSA	G130M 1055 A	FP-POS=2; BUFFER-TIME=15000; LIFETIME-POS=L P7			2536 Secs (2536 Secs) [==>]	[2]
4		COSspec_H (7) HD-260655 D260655_vis3c (COS.sp.236 0352)		COS/FUV, TIME-TAG, PSA	G130M 1055 A	FP-POS=3; BUFFER-TIME=15000; LIFETIME-POS=L P7			2536 Secs (2536 Secs) [==>]	[3]	

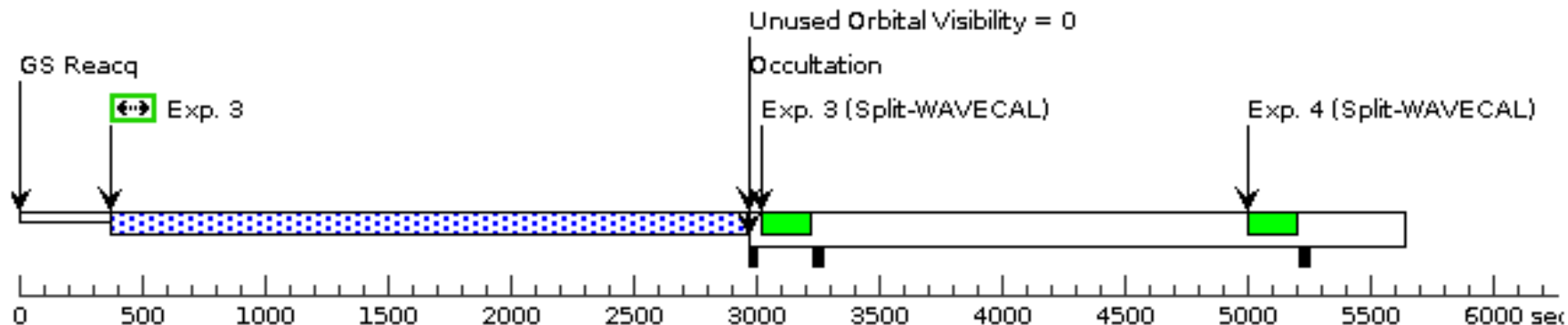
Orbit 1

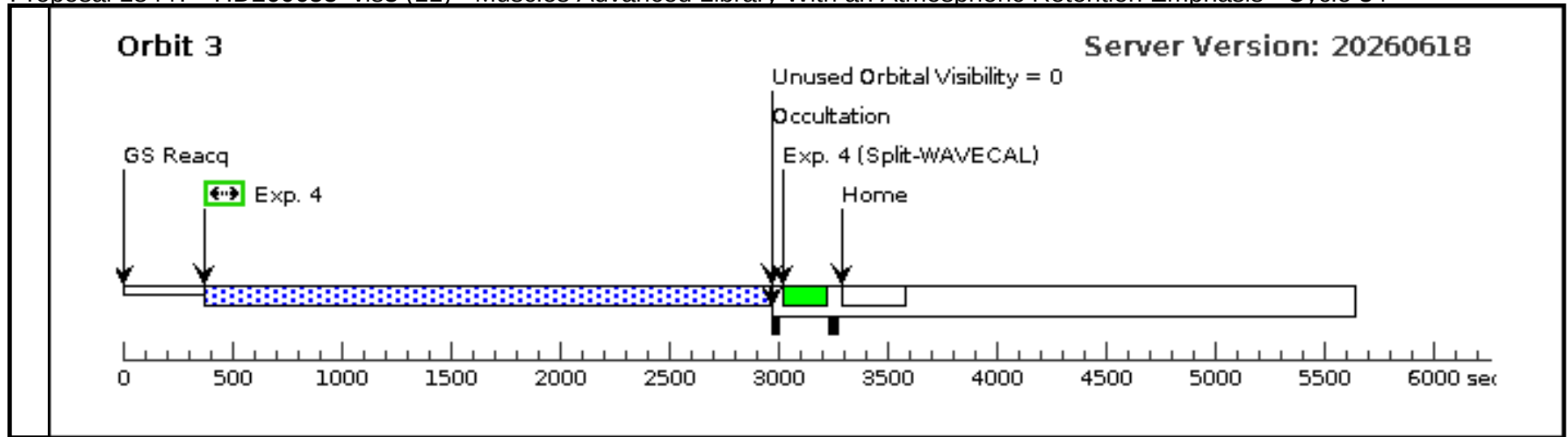
Server Version: 20260618



Orbit 2

Server Version: 20260618



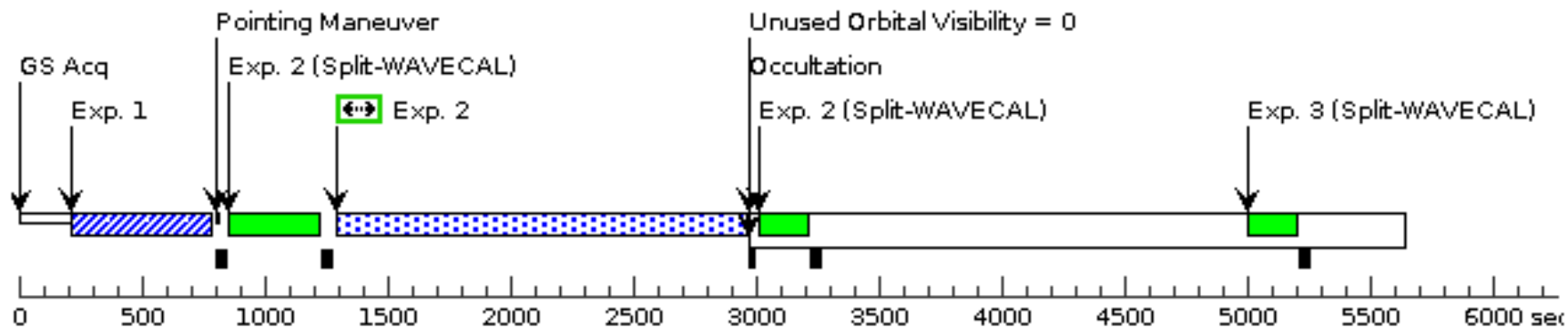


Proposal 18447 - HD260655 vis4 (12) - Muscles Advanced Library With an Atmospheric Retention Emphasis - Cycle 34

Visit	Proposal 18447, HD260655_vis4 (12), implementation										Mon Aug 17 15:01:02 GMT 2026
	Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(7)	HD-260655	RA: 06 37 10.7988 (99.2949950d) Dec: +17 33 53.33 (17.56481d) Equinox: J2000	Proper Motion RA: -764.414 mas/yr Proper Motion Dec: 337.883 mas/yr Parallax: 0.1000232" Epoch of Position: 2000		V=9.593		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.										
	DDT: HST 18236, FUV spectra in place by Dec 2026 (some scheduled earlier)/ LyA, FUV from STIS G140M, E140M, G130M in Hot Rocks										
	SIMBAD: Proper motions mas/yr : -764.414 337.883 [0.022 0.018 90] A 2020yCat.1350....0G Radial velocity / Redshift / cz : V(km/s) -58.321 [0.0136] / z(spectroscopic) -0.000195 [0.000000] / cz -58.32 [0.01] (Opt) A 2018A&A...616A...7S Parallaxes (mas): 100.0232 [0.0208] A 2020yCat.1350....0G Spectral type: M0.0V C 2013AJ....145..102L Fluxes (12) : U 12.303 [~] C 2010MNRAS.403.1949K B 11.104 [~] C 2010MNRAS.403.1949K V 9.593 [~] C 2010MNRAS.403.1949K Category=EXT-STAR Description=[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	ACQ_IMG_ (7) HD-260655 HD260655_vis4 (COS.ta.230 0904)		COS/NUV, ACQ/IMAGE, BOA	MIRRORA				175 Secs (175 Secs) [==>]	[1]	
	2	COSspec_H (7) HD-260655 D260655_vis4a (COS.sp.236 0352)		COS/FUV, TIME-TAG, PSA	G130M 1055 A	FP-POS=1; BUFFER-TIME=15000; LIFETIME-POS=L P7			1614 Secs (1614 Secs) [==>]	[1]	
	3	COSspec_H (7) HD-260655 D260655_vis4b (COS.sp.236 0352)		COS/FUV, TIME-TAG, PSA	G130M 1055 A	FP-POS=2; BUFFER-TIME=15000; LIFETIME-POS=L P7			2536 Secs (2536 Secs) [==>]	[2]	
	4	COSspec_H (7) HD-260655 D260655_vis4c (COS.sp.236 0352)		COS/FUV, TIME-TAG, PSA	G130M 1055 A	FP-POS=3; BUFFER-TIME=15000; LIFETIME-POS=L P7			2536 Secs (2536 Secs) [==>]	[3]	

Orbit 1

Server Version: 20260618



Orbit 2

Server Version: 20260618

