



18030 - Muscles Advanced Library With an Atmospheric Retention Emphasis

Cycle: 33, 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	(2) GJ3929	COS/FUV COS/NUV	3	30-Mar-2026 16:00:15.0	yes
02	(2) GJ3929	COS/FUV COS/NUV	3	30-Mar-2026 16:00:16.0	yes
03	(2) GJ3929	COS/FUV COS/NUV	3	30-Mar-2026 16:00:16.0	yes
04	(2) GJ3929	COS/FUV COS/NUV	3	30-Mar-2026 16:00:17.0	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>
05	(1) LTT1445A	COS/FUV COS/NUV	3	30-Mar-2026 16:00:17.0	yes
06	(1) LTT1445A	COS/FUV COS/NUV	3	30-Mar-2026 16:00:18.0	yes
07	(1) LTT1445A	COS/FUV COS/NUV	3	30-Mar-2026 16:00:18.0	yes
08	(1) LTT1445A	COS/FUV COS/NUV	3	30-Mar-2026 16:00:19.0	yes
09	(4) LHS1140	COS/FUV COS/NUV	3	30-Mar-2026 16:00:19.0	yes
10	(4) LHS1140	COS/FUV COS/NUV	3	30-Mar-2026 16:00:20.0	yes
11	(4) LHS1140	COS/FUV COS/NUV	3	30-Mar-2026 16:00:20.0	yes
12	(4) LHS1140	COS/FUV COS/NUV	3	30-Mar-2026 16:00:20.0	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 provide plasma temperature coverage for robust EUV spectral calculations using the DEM method, including the brightest stellar FUV lines in cool star atmosphere (C III λ 977 Å, O VI 1032/1038 Å; Redfield et al. 2002) and high-temperature lines not covered by standard COS G130M CENWAVE 1291 observations (S VI λ 933/944 Å, Fe XVIII 974 Å, Fe XIX 1118 Å; 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 $\lambda < 1100$ Å, 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 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 to 10 and are expected to be present during 25 to 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).

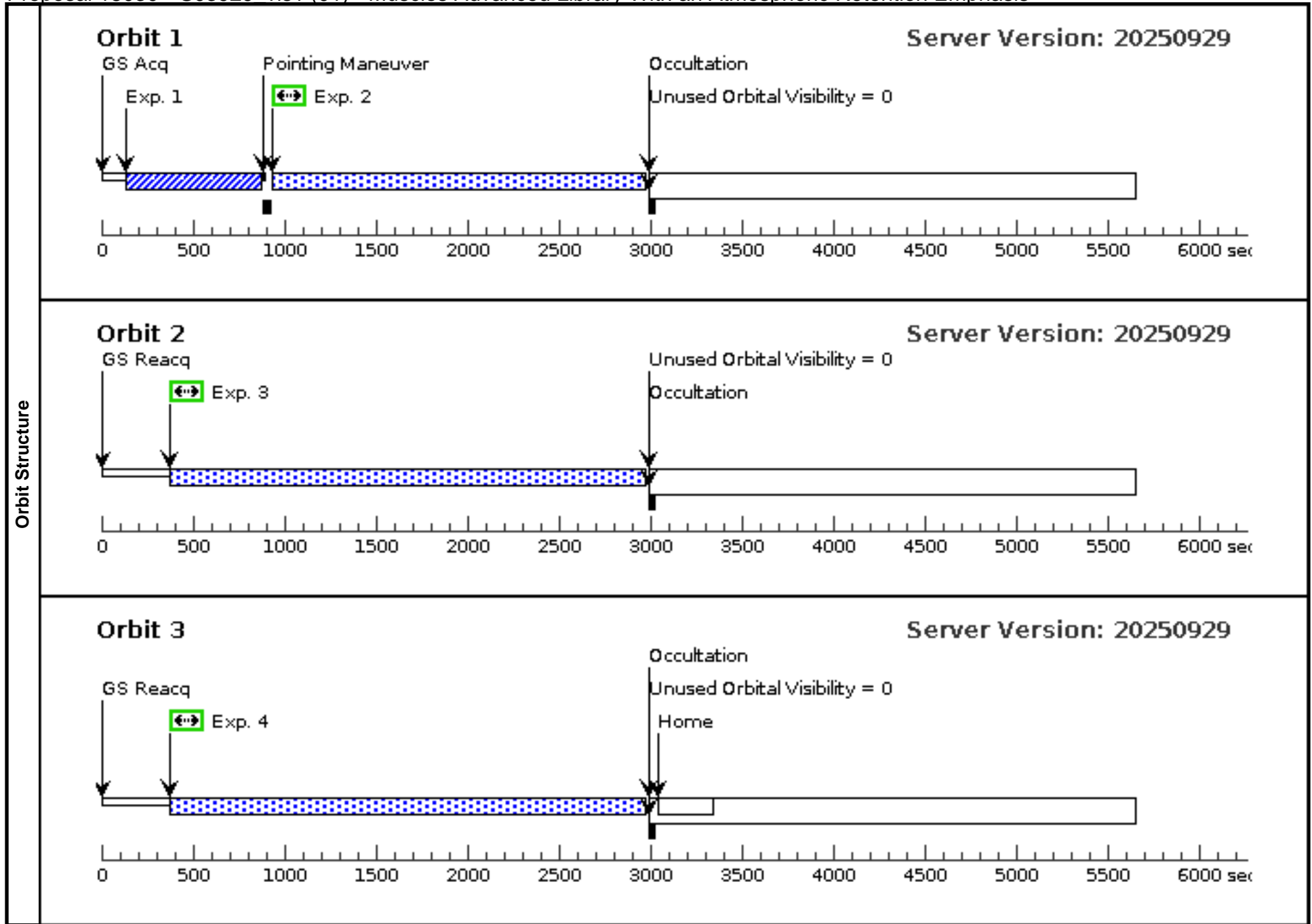
++FUV Spectral Lightcurve Production for Flares |*| The COS FUV XDL detector records spectra in time-tagged mode as [x (or |*|), y, t] photon lists, where x is the photon|*|s x-axis arrival position (i.e., wavelength), y is the photon|*|s cross-dispersion location, and t is the photon arrival time. The 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 18030 - GJ3929_vis1 (01) - Muscles Advanced Library With an Atmospheric Retention Emphasis

Mon Mar 30 20:00:21 GMT 2026

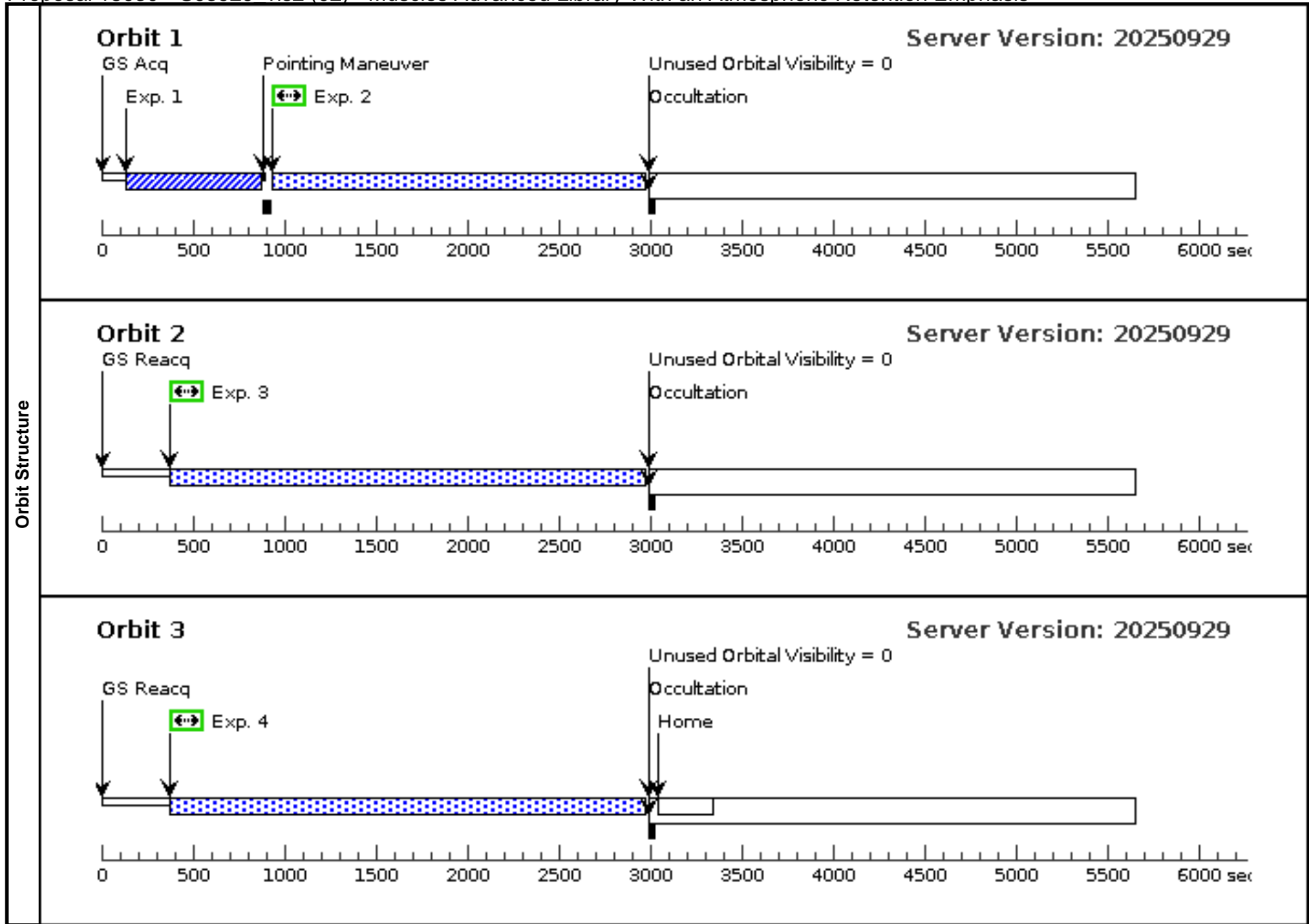
Visit	Proposal 18030, GJ3929_vis1 (01), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																							
	(GJ3929_vis1 (01)) Warning (Form): For the best data quality, it is generally required to use 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	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>GJ3929</td> <td>RA: 15 58 18.7976 (239.5783233d) Dec: +35 24 24.28 (35.40674d) Equinox: J2000</td> <td>Proper Motion RA: -143.059 mas/yr Proper Motion Dec: 318.12 mas/yr Parallax: 0.0631727" Epoch of Position: 2000</td> <td>V=14.33 the above "V" mag is actually Johnson B</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	GJ3929	RA: 15 58 18.7976 (239.5783233d) Dec: +35 24 24.28 (35.40674d) Equinox: J2000	Proper Motion RA: -143.059 mas/yr Proper Motion Dec: 318.12 mas/yr Parallax: 0.0631727" Epoch of Position: 2000	V=14.33 the above "V" mag is actually Johnson B	Reference Frame: ICRS	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><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></p> <p><i>Category=EXT-STAR</i> <i>Description=[M V-IV]</i> <i>Extended=NO</i></p>																																										
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																		
(2)	GJ3929	RA: 15 58 18.7976 (239.5783233d) Dec: +35 24 24.28 (35.40674d) Equinox: J2000	Proper Motion RA: -143.059 mas/yr Proper Motion Dec: 318.12 mas/yr Parallax: 0.0631727" Epoch of Position: 2000	V=14.33 the above "V" mag is actually Johnson B	Reference Frame: ICRS																																																			
Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ACQ_IMG_GJ3929_vis1 (COS.ta.229 5128)</td> <td>(2) GJ3929</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>214 Secs (214 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>COSspec_GJ3929_vis1a (COS.sp.194 9956)</td> <td>(2) GJ3929</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=1; BUFFER-TIME=15000</td> <td></td> <td></td> <td>1835 Secs (1835 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>COSspec_GJ3929_vis1b (COS.sp.194 9956)</td> <td>(2) GJ3929</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=2; BUFFER-TIME=15000</td> <td></td> <td></td> <td>2548 Secs (2548 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td>4</td> <td>COSspec_GJ3929_vis1c (COS.sp.194 9956)</td> <td>(2) GJ3929</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=3; BUFFER-TIME=15000</td> <td></td> <td></td> <td>2548 Secs (2548 Secs) [==>]</td> <td>[3]</td> </tr> </tbody> </table>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	ACQ_IMG_GJ3929_vis1 (COS.ta.229 5128)	(2) GJ3929	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				214 Secs (214 Secs) [==>]	[1]	2	COSspec_GJ3929_vis1a (COS.sp.194 9956)	(2) GJ3929	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=15000			1835 Secs (1835 Secs) [==>]	[1]	3	COSspec_GJ3929_vis1b (COS.sp.194 9956)	(2) GJ3929	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=15000			2548 Secs (2548 Secs) [==>]	[2]	4	COSspec_GJ3929_vis1c (COS.sp.194 9956)	(2) GJ3929	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15000			2548 Secs (2548 Secs) [==>]	[3]					
	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																														
	1	ACQ_IMG_GJ3929_vis1 (COS.ta.229 5128)	(2) GJ3929	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				214 Secs (214 Secs) [==>]	[1]																																														
	2	COSspec_GJ3929_vis1a (COS.sp.194 9956)	(2) GJ3929	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=15000			1835 Secs (1835 Secs) [==>]	[1]																																														
	3	COSspec_GJ3929_vis1b (COS.sp.194 9956)	(2) GJ3929	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=15000			2548 Secs (2548 Secs) [==>]	[2]																																														
4	COSspec_GJ3929_vis1c (COS.sp.194 9956)	(2) GJ3929	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15000			2548 Secs (2548 Secs) [==>]	[3]																																															



Proposal 18030 - GJ3929_vis2 (02) - Muscles Advanced Library With an Atmospheric Retention Emphasis

Mon Mar 30 20:00:21 GMT 2026

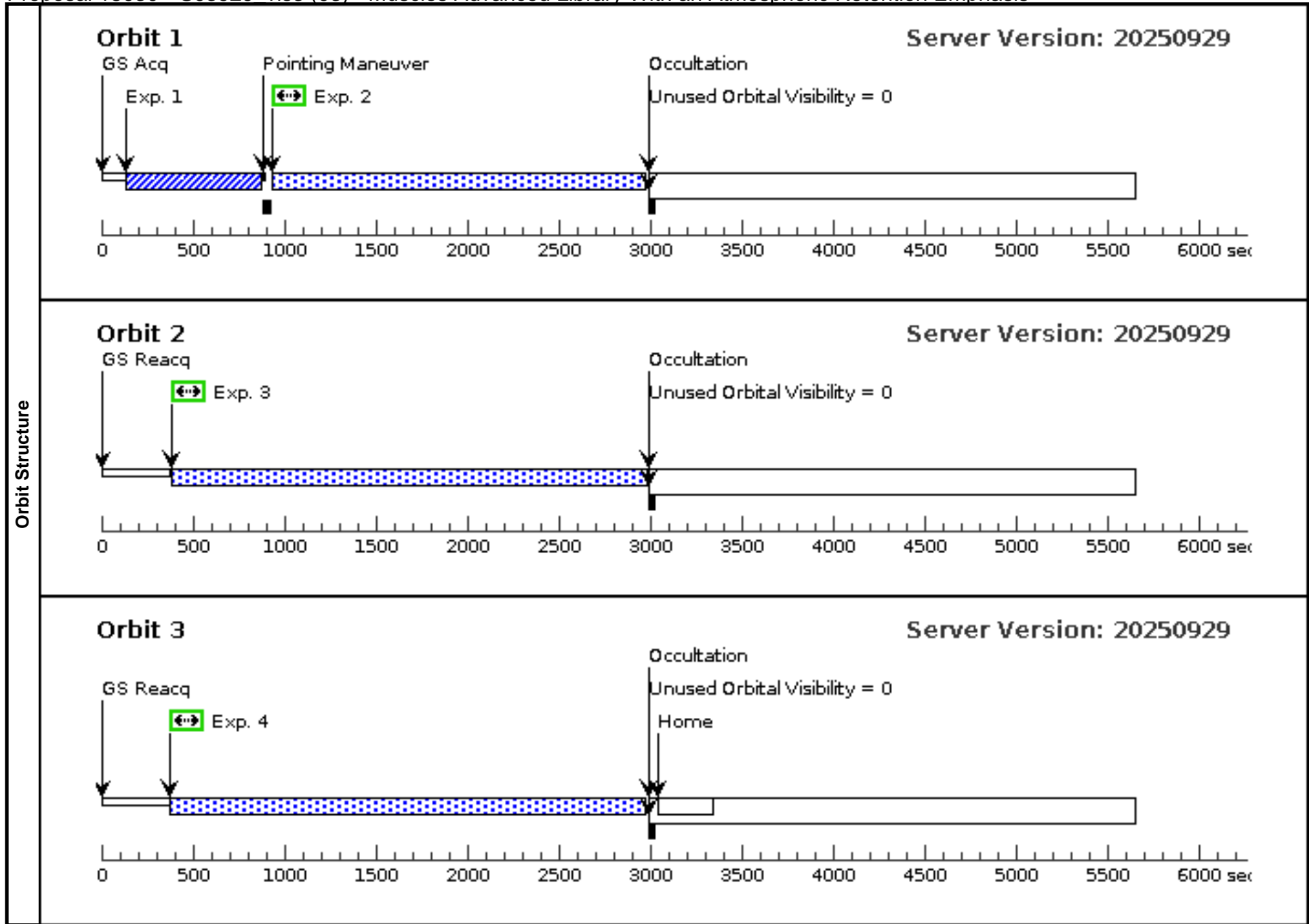
Visit	Proposal 18030, GJ3929_vis2 (02), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																							
	(GJ3929_vis2 (02)) Warning (Form): For the best data quality, it is generally required to use 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	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>GJ3929</td> <td>RA: 15 58 18.7976 (239.5783233d) Dec: +35 24 24.28 (35.40674d) Equinox: J2000</td> <td>Proper Motion RA: -143.059 mas/yr Proper Motion Dec: 318.12 mas/yr Parallax: 0.0631727" Epoch of Position: 2000</td> <td>V=14.33 the above "V" mag is actually Johnson B</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	GJ3929	RA: 15 58 18.7976 (239.5783233d) Dec: +35 24 24.28 (35.40674d) Equinox: J2000	Proper Motion RA: -143.059 mas/yr Proper Motion Dec: 318.12 mas/yr Parallax: 0.0631727" Epoch of Position: 2000	V=14.33 the above "V" mag is actually Johnson B	Reference Frame: ICRS	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><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></p> <p><i>Category=EXT-STAR</i> <i>Description=[M V-IV]</i> <i>Extended=NO</i></p>																																										
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																		
(2)	GJ3929	RA: 15 58 18.7976 (239.5783233d) Dec: +35 24 24.28 (35.40674d) Equinox: J2000	Proper Motion RA: -143.059 mas/yr Proper Motion Dec: 318.12 mas/yr Parallax: 0.0631727" Epoch of Position: 2000	V=14.33 the above "V" mag is actually Johnson B	Reference Frame: ICRS																																																			
Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ACQ_IMG_GJ3929_vis2 (COS.ta.229 5128)</td> <td>(2) GJ3929</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>214 Secs (214 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>COSspec_G J3929_vis2a (COS.sp.194 9956)</td> <td>(2) GJ3929</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=2; BUFFER-TIME=15000</td> <td></td> <td></td> <td>1835 Secs (1835 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>COSspec_G J3929_vis2b (COS.sp.194 9956)</td> <td>(2) GJ3929</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=3; BUFFER-TIME=15000</td> <td></td> <td></td> <td>2548 Secs (2548 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td>4</td> <td>COSspec_G J3929_vis2c (COS.sp.194 9956)</td> <td>(2) GJ3929</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=4; BUFFER-TIME=15000</td> <td></td> <td></td> <td>2548 Secs (2548 Secs) [==>]</td> <td>[3]</td> </tr> </tbody> </table>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	ACQ_IMG_GJ3929_vis2 (COS.ta.229 5128)	(2) GJ3929	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				214 Secs (214 Secs) [==>]	[1]	2	COSspec_G J3929_vis2a (COS.sp.194 9956)	(2) GJ3929	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=15000			1835 Secs (1835 Secs) [==>]	[1]	3	COSspec_G J3929_vis2b (COS.sp.194 9956)	(2) GJ3929	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15000			2548 Secs (2548 Secs) [==>]	[2]	4	COSspec_G J3929_vis2c (COS.sp.194 9956)	(2) GJ3929	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=4; BUFFER-TIME=15000			2548 Secs (2548 Secs) [==>]	[3]					
	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																														
	1	ACQ_IMG_GJ3929_vis2 (COS.ta.229 5128)	(2) GJ3929	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				214 Secs (214 Secs) [==>]	[1]																																														
	2	COSspec_G J3929_vis2a (COS.sp.194 9956)	(2) GJ3929	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=15000			1835 Secs (1835 Secs) [==>]	[1]																																														
	3	COSspec_G J3929_vis2b (COS.sp.194 9956)	(2) GJ3929	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15000			2548 Secs (2548 Secs) [==>]	[2]																																														
4	COSspec_G J3929_vis2c (COS.sp.194 9956)	(2) GJ3929	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=4; BUFFER-TIME=15000			2548 Secs (2548 Secs) [==>]	[3]																																															



Proposal 18030 - GJ3929_vis3 (03) - Muscles Advanced Library With an Atmospheric Retention Emphasis

Mon Mar 30 20:00:21 GMT 2026

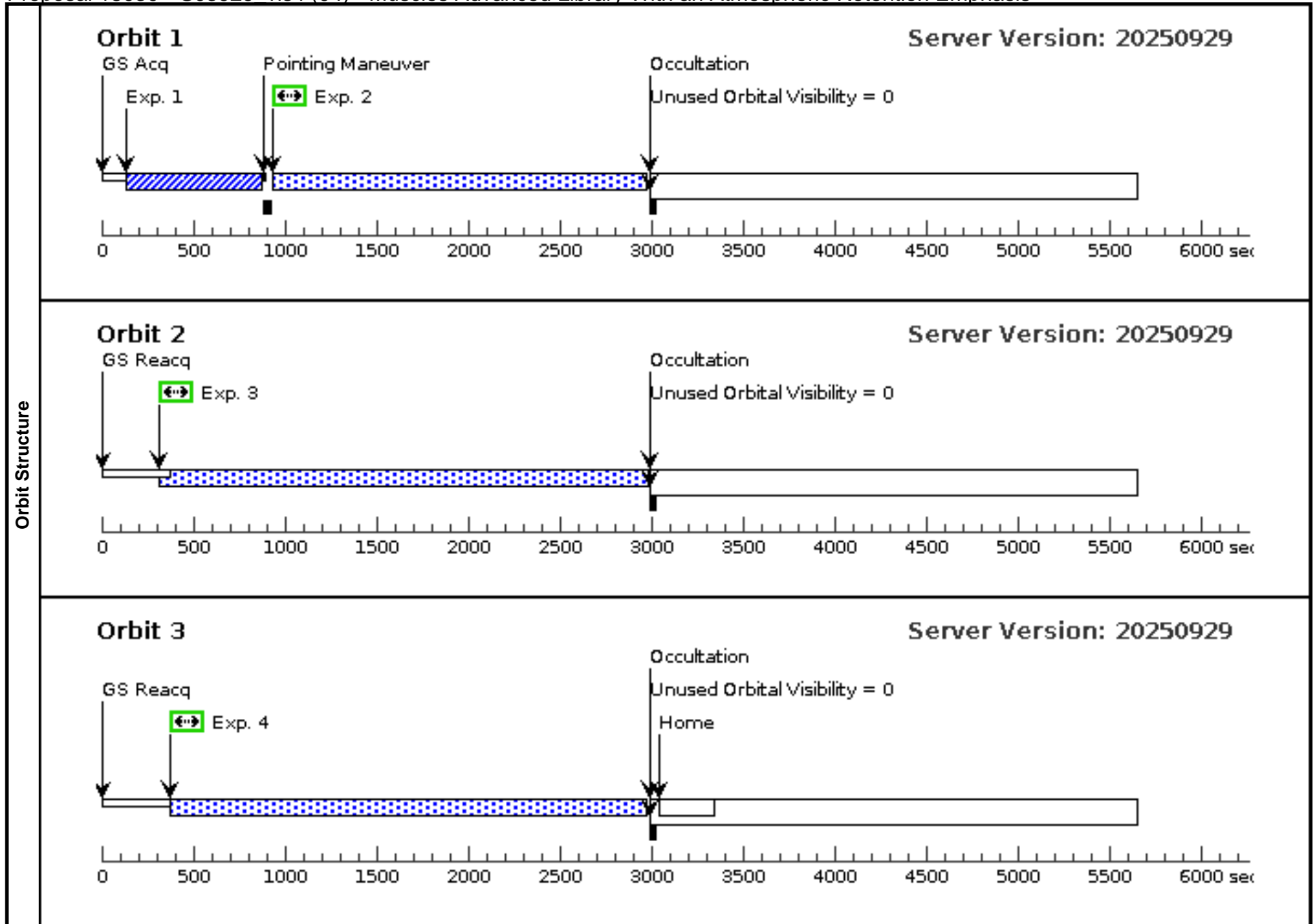
Visit	Proposal 18030, GJ3929_vis3 (03), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																						
	(GJ3929_vis3 (03)) Warning (Form): For the best data quality, it is generally required to use 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	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>GJ3929</td> <td>RA: 15 58 18.7976 (239.5783233d) Dec: +35 24 24.28 (35.40674d) Equinox: J2000</td> <td>Proper Motion RA: -143.059 mas/yr Proper Motion Dec: 318.12 mas/yr Parallax: 0.0631727" Epoch of Position: 2000</td> <td>V=14.33 the above "V" mag is actually Johnson B</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	GJ3929	RA: 15 58 18.7976 (239.5783233d) Dec: +35 24 24.28 (35.40674d) Equinox: J2000	Proper Motion RA: -143.059 mas/yr Proper Motion Dec: 318.12 mas/yr Parallax: 0.0631727" Epoch of Position: 2000	V=14.33 the above "V" mag is actually Johnson B	Reference Frame: ICRS	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><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></p> <p><i>Category=EXT-STAR</i> <i>Description=[M V-IV]</i> <i>Extended=NO</i></p>																																									
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																	
(2)	GJ3929	RA: 15 58 18.7976 (239.5783233d) Dec: +35 24 24.28 (35.40674d) Equinox: J2000	Proper Motion RA: -143.059 mas/yr Proper Motion Dec: 318.12 mas/yr Parallax: 0.0631727" Epoch of Position: 2000	V=14.33 the above "V" mag is actually Johnson B	Reference Frame: ICRS																																																		
<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ACQ_IMG_GJ3929_vis3 (COS.ta.229 5128)</td> <td>(2) GJ3929</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>214 Secs (214 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>COSspec_GJ3929_vis3a (COS.sp.194 9956)</td> <td>(2) GJ3929</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=3; BUFFER-TIME=15000</td> <td></td> <td></td> <td>1835 Secs (1835 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>COSspec_GJ3929_vis3b (COS.sp.194 9956)</td> <td>(2) GJ3929</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=3; BUFFER-TIME=15000</td> <td></td> <td></td> <td>2548 Secs (2548 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td>4</td> <td>COSspec_GJ3929_vis3c (COS.sp.194 9956)</td> <td>(2) GJ3929</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=4; BUFFER-TIME=15000</td> <td></td> <td></td> <td>2548 Secs (2548 Secs) [==>]</td> <td>[3]</td> </tr> </tbody> </table>						#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	ACQ_IMG_GJ3929_vis3 (COS.ta.229 5128)	(2) GJ3929	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				214 Secs (214 Secs) [==>]	[1]	2	COSspec_GJ3929_vis3a (COS.sp.194 9956)	(2) GJ3929	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15000			1835 Secs (1835 Secs) [==>]	[1]	3	COSspec_GJ3929_vis3b (COS.sp.194 9956)	(2) GJ3929	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15000			2548 Secs (2548 Secs) [==>]	[2]	4	COSspec_GJ3929_vis3c (COS.sp.194 9956)	(2) GJ3929	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=4; BUFFER-TIME=15000			2548 Secs (2548 Secs) [==>]	[3]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																														
1	ACQ_IMG_GJ3929_vis3 (COS.ta.229 5128)	(2) GJ3929	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				214 Secs (214 Secs) [==>]	[1]																																														
2	COSspec_GJ3929_vis3a (COS.sp.194 9956)	(2) GJ3929	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15000			1835 Secs (1835 Secs) [==>]	[1]																																														
3	COSspec_GJ3929_vis3b (COS.sp.194 9956)	(2) GJ3929	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15000			2548 Secs (2548 Secs) [==>]	[2]																																														
4	COSspec_GJ3929_vis3c (COS.sp.194 9956)	(2) GJ3929	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=4; BUFFER-TIME=15000			2548 Secs (2548 Secs) [==>]	[3]																																														



Proposal 18030 - GJ3929_vis4 (04) - Muscles Advanced Library With an Atmospheric Retention Emphasis

Mon Mar 30 20:00:21 GMT 2026

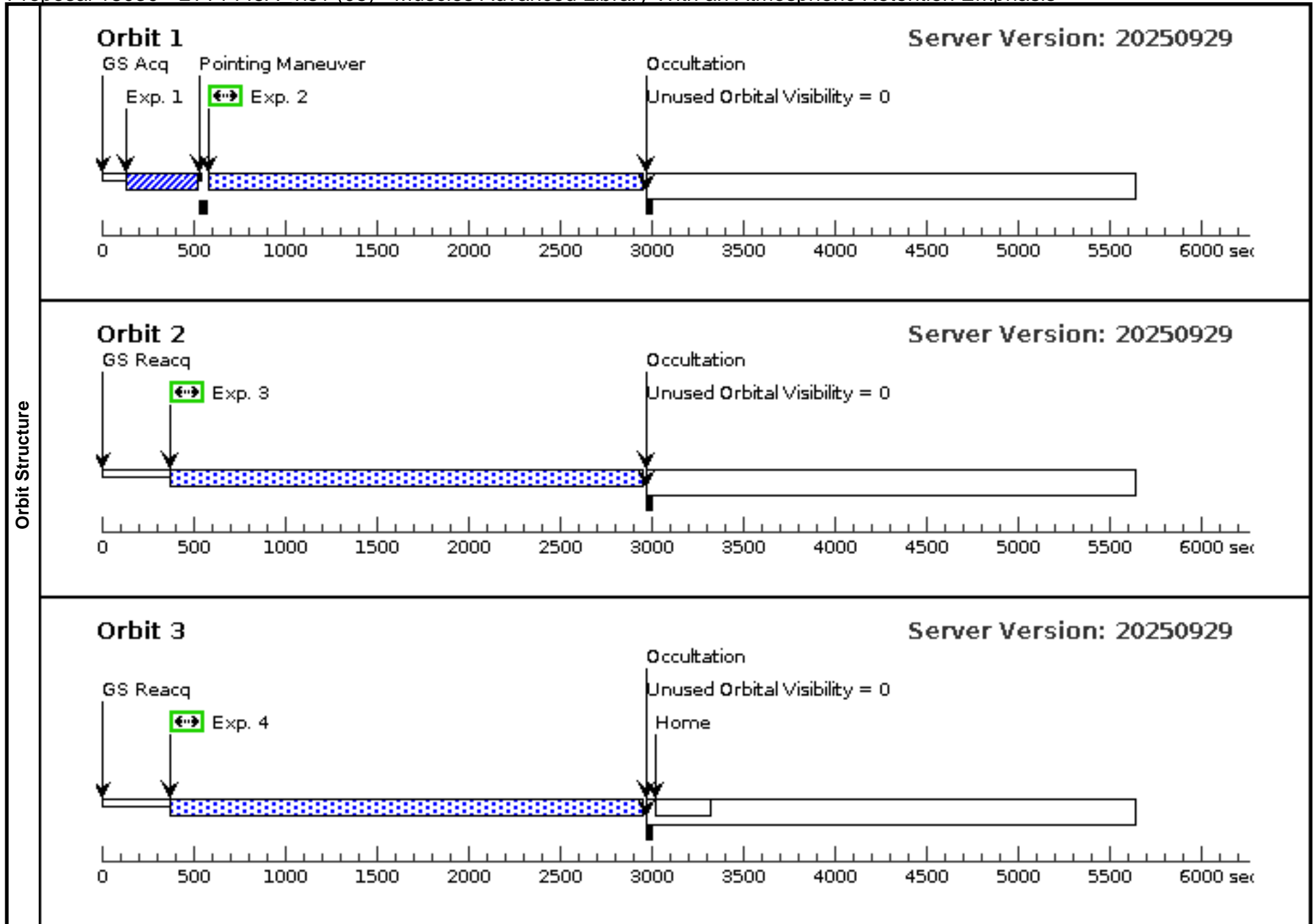
Visit	Proposal 18030, GJ3929_vis4 (04), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																											
	(GJ3929_vis4 (04)) Warning (Form): For the best data quality, it is generally required to 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. (GJ3929_vis4 (04)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS																																																											
Diagnosics																																																												
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>GJ3929</td> <td>RA: 15 58 18.7976 (239.5783233d) Dec: +35 24 24.28 (35.40674d) Equinox: J2000</td> <td>Proper Motion RA: -143.059 mas/yr Proper Motion Dec: 318.12 mas/yr Parallax: 0.0631727" Epoch of Position: 2000</td> <td>V=14.33 the above "V" mag is actually Johnson B</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><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></p> <p>Category=EXT-STAR Description=[M V-IV] Extended=NO</p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	GJ3929	RA: 15 58 18.7976 (239.5783233d) Dec: +35 24 24.28 (35.40674d) Equinox: J2000	Proper Motion RA: -143.059 mas/yr Proper Motion Dec: 318.12 mas/yr Parallax: 0.0631727" Epoch of Position: 2000	V=14.33 the above "V" mag is actually Johnson B	Reference Frame: ICRS																																						
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																						
(2)	GJ3929	RA: 15 58 18.7976 (239.5783233d) Dec: +35 24 24.28 (35.40674d) Equinox: J2000	Proper Motion RA: -143.059 mas/yr Proper Motion Dec: 318.12 mas/yr Parallax: 0.0631727" Epoch of Position: 2000	V=14.33 the above "V" mag is actually Johnson B	Reference Frame: ICRS																																																							
Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ACQ_IMG_GJ3929_vis4 (COS.ta.229 5128)</td> <td>(2) GJ3929</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>214 Secs (214 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>COSspec_GJ3929_vis4a (COS.sp.194 9956)</td> <td>(2) GJ3929</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=4; BUFFER-TIME=15000</td> <td></td> <td></td> <td>1835 Secs (1835 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>COSspec_GJ3929_vis4b (COS.sp.194 9956)</td> <td>(2) GJ3929</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=1; BUFFER-TIME=15000</td> <td></td> <td></td> <td>2548 Secs (2548 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td>4</td> <td>COSspec_GJ3929_vis4c (COS.sp.194 9956)</td> <td>(2) GJ3929</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=2; BUFFER-TIME=15000</td> <td></td> <td></td> <td>2548 Secs (2548 Secs) [==>]</td> <td>[3]</td> </tr> </tbody> </table>										#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	ACQ_IMG_GJ3929_vis4 (COS.ta.229 5128)	(2) GJ3929	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				214 Secs (214 Secs) [==>]	[1]	2	COSspec_GJ3929_vis4a (COS.sp.194 9956)	(2) GJ3929	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=4; BUFFER-TIME=15000			1835 Secs (1835 Secs) [==>]	[1]	3	COSspec_GJ3929_vis4b (COS.sp.194 9956)	(2) GJ3929	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=15000			2548 Secs (2548 Secs) [==>]	[2]	4	COSspec_GJ3929_vis4c (COS.sp.194 9956)	(2) GJ3929	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=15000			2548 Secs (2548 Secs) [==>]	[3]
	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																		
	1	ACQ_IMG_GJ3929_vis4 (COS.ta.229 5128)	(2) GJ3929	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				214 Secs (214 Secs) [==>]	[1]																																																		
	2	COSspec_GJ3929_vis4a (COS.sp.194 9956)	(2) GJ3929	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=4; BUFFER-TIME=15000			1835 Secs (1835 Secs) [==>]	[1]																																																		
	3	COSspec_GJ3929_vis4b (COS.sp.194 9956)	(2) GJ3929	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=15000			2548 Secs (2548 Secs) [==>]	[2]																																																		
4	COSspec_GJ3929_vis4c (COS.sp.194 9956)	(2) GJ3929	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=15000			2548 Secs (2548 Secs) [==>]	[3]																																																			



Proposal 18030 - LTT1445A_vis1 (05) - Muscles Advanced Library With an Atmospheric Retention Emphasis

Mon Mar 30 20:00:21 GMT 2026

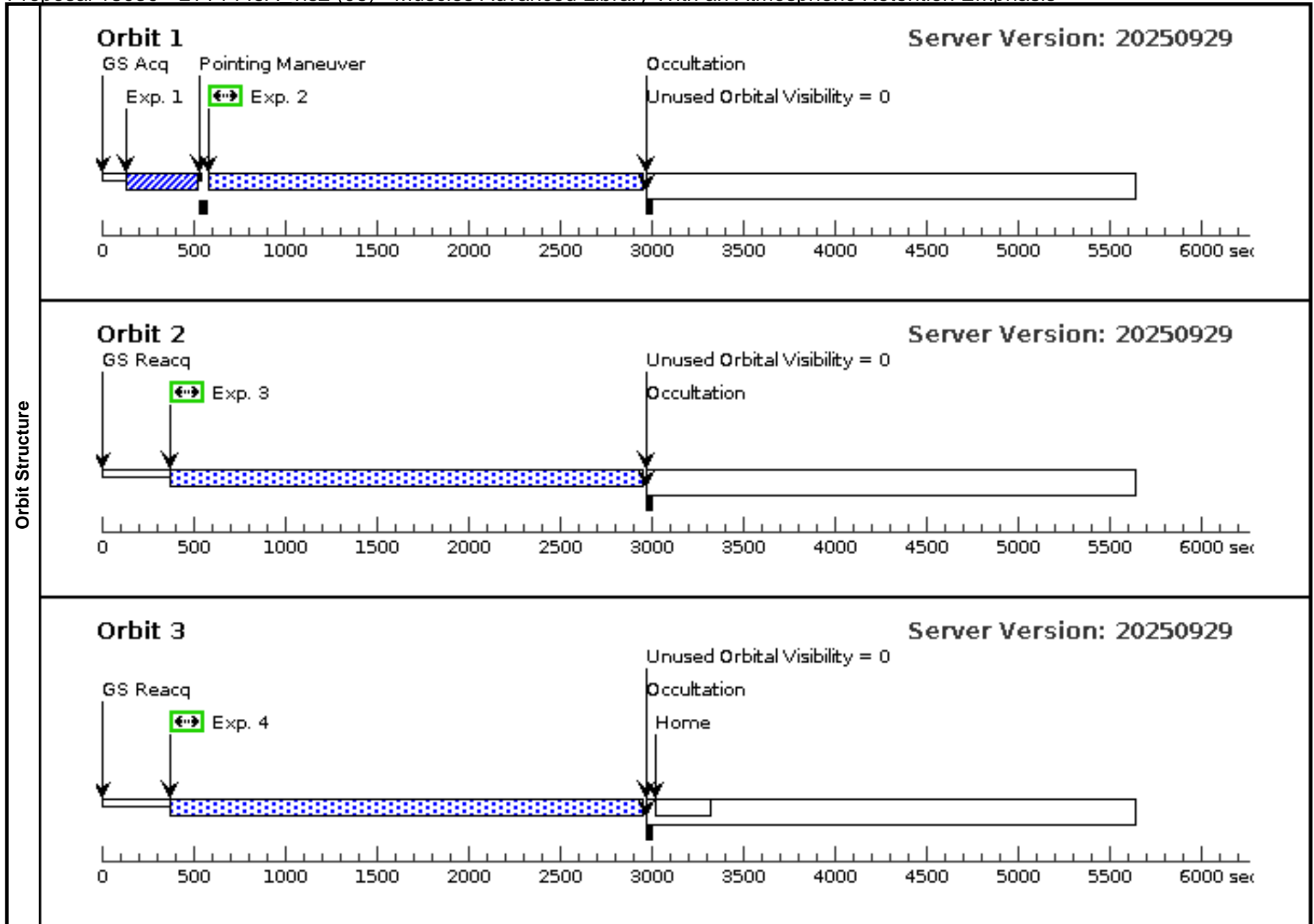
Visit	Proposal 18030, LTT1445A_vis1 (05), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: PC added Between window to coordinate simultaneous observations with Chandra</i>																																																										
	Diagnosics (LTT1445A_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	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>LTT1445A</td> <td>RA: 03 01 51.3937 (45.4641404d) Dec: -16 35 36.03 (-16.59334d) Equinox: J2000</td> <td>Proper Motion RA: -369.972 mas/yr Proper Motion Dec: -267.930999848556 mas/yr Parallax: 0.14569220000000002" Epoch of Position: 2000</td> <td>V=10.529</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><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></p> <p>Category=EXT-STAR Description=[M V-IV] Extended=NO</p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	LTT1445A	RA: 03 01 51.3937 (45.4641404d) Dec: -16 35 36.03 (-16.59334d) Equinox: J2000	Proper Motion RA: -369.972 mas/yr Proper Motion Dec: -267.930999848556 mas/yr Parallax: 0.14569220000000002" Epoch of Position: 2000	V=10.529	Reference Frame: ICRS																																					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																					
(1)	LTT1445A	RA: 03 01 51.3937 (45.4641404d) Dec: -16 35 36.03 (-16.59334d) Equinox: J2000	Proper Motion RA: -369.972 mas/yr Proper Motion Dec: -267.930999848556 mas/yr Parallax: 0.14569220000000002" Epoch of Position: 2000	V=10.529	Reference Frame: ICRS																																																						
<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ACQ_IMG_LTT1445A_vis1 (COS.ta.154 4663)</td> <td>(1) LTT1445A</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>40 Secs (40 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>COSspec_LTT1445A_vis1a (COS.sp.194 9956)</td> <td>(1) LTT1445A</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=1; BUFFER-TIME=15000</td> <td></td> <td></td> <td>2167 Secs (2167 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>COSspec_LTT1445A_vis1b (COS.sp.194 9956)</td> <td>(1) LTT1445A</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=2; BUFFER-TIME=15000</td> <td></td> <td></td> <td>2532 Secs (2532 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td>4</td> <td>COSspec_LTT1445A_vis1c (COS.sp.194 9956)</td> <td>(1) LTT1445A</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=3; BUFFER-TIME=15000</td> <td></td> <td></td> <td>2532 Secs (2532 Secs) [==>]</td> <td>[3]</td> </tr> </tbody> </table>										#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	ACQ_IMG_LTT1445A_vis1 (COS.ta.154 4663)	(1) LTT1445A	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				40 Secs (40 Secs) [==>]	[1]	2	COSspec_LTT1445A_vis1a (COS.sp.194 9956)	(1) LTT1445A	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=15000			2167 Secs (2167 Secs) [==>]	[1]	3	COSspec_LTT1445A_vis1b (COS.sp.194 9956)	(1) LTT1445A	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=15000			2532 Secs (2532 Secs) [==>]	[2]	4	COSspec_LTT1445A_vis1c (COS.sp.194 9956)	(1) LTT1445A	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15000			2532 Secs (2532 Secs) [==>]	[3]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																		
1	ACQ_IMG_LTT1445A_vis1 (COS.ta.154 4663)	(1) LTT1445A	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				40 Secs (40 Secs) [==>]	[1]																																																		
2	COSspec_LTT1445A_vis1a (COS.sp.194 9956)	(1) LTT1445A	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=15000			2167 Secs (2167 Secs) [==>]	[1]																																																		
3	COSspec_LTT1445A_vis1b (COS.sp.194 9956)	(1) LTT1445A	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=15000			2532 Secs (2532 Secs) [==>]	[2]																																																		
4	COSspec_LTT1445A_vis1c (COS.sp.194 9956)	(1) LTT1445A	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15000			2532 Secs (2532 Secs) [==>]	[3]																																																		



Proposal 18030 - LTT1445A_vis2 (06) - Muscles Advanced Library With an Atmospheric Retention Emphasis

Mon Mar 30 20:00:21 GMT 2026

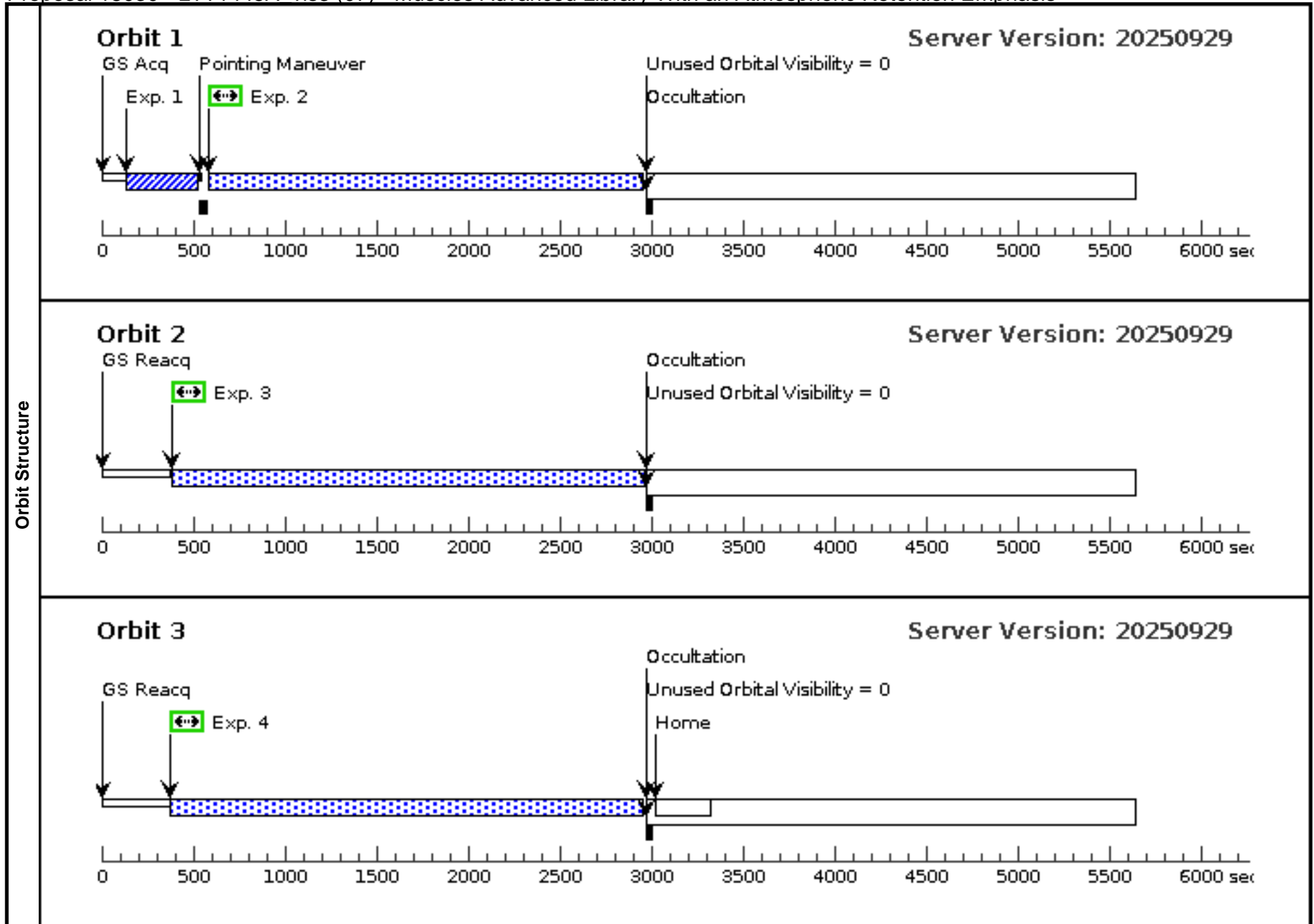
Visit	Proposal 18030, LTT1445A_vis2 (06), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: PC added Between window to coordinate simultaneous observations with Chandra</i>																																																										
	Diagnosics (LTT1445A_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	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>LTT1445A</td> <td>RA: 03 01 51.3937 (45.4641404d) Dec: -16 35 36.03 (-16.59334d) Equinox: J2000</td> <td>Proper Motion RA: -369.972 mas/yr Proper Motion Dec: -267.930999848556 mas/yr Parallax: 0.14569220000000002" Epoch of Position: 2000</td> <td>V=10.529</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><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></p> <p><i>Category=EXT-STAR</i> <i>Description=[M V-IV]</i> <i>Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	LTT1445A	RA: 03 01 51.3937 (45.4641404d) Dec: -16 35 36.03 (-16.59334d) Equinox: J2000	Proper Motion RA: -369.972 mas/yr Proper Motion Dec: -267.930999848556 mas/yr Parallax: 0.14569220000000002" Epoch of Position: 2000	V=10.529	Reference Frame: ICRS																																					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																					
(1)	LTT1445A	RA: 03 01 51.3937 (45.4641404d) Dec: -16 35 36.03 (-16.59334d) Equinox: J2000	Proper Motion RA: -369.972 mas/yr Proper Motion Dec: -267.930999848556 mas/yr Parallax: 0.14569220000000002" Epoch of Position: 2000	V=10.529	Reference Frame: ICRS																																																						
<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ACQ_IMG_LTT1445A_vis2 (COS.ta.154 4663)</td> <td>(1) LTT1445A</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>40 Secs (40 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>COSspec_LTT1445A_vis2a (COS.sp.194 9956)</td> <td>(1) LTT1445A</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=2; BUFFER-TIME=15000</td> <td></td> <td></td> <td>2167 Secs (2167 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>COSspec_LTT1445A_vis2b (COS.sp.194 9956)</td> <td>(1) LTT1445A</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=3; BUFFER-TIME=15000</td> <td></td> <td></td> <td>2532 Secs (2532 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td>4</td> <td>COSspec_LTT1445A_vis2c (COS.sp.194 9956)</td> <td>(1) LTT1445A</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=4; BUFFER-TIME=15000</td> <td></td> <td></td> <td>2532 Secs (2532 Secs) [==>]</td> <td>[3]</td> </tr> </tbody> </table>										#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	ACQ_IMG_LTT1445A_vis2 (COS.ta.154 4663)	(1) LTT1445A	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				40 Secs (40 Secs) [==>]	[1]	2	COSspec_LTT1445A_vis2a (COS.sp.194 9956)	(1) LTT1445A	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=15000			2167 Secs (2167 Secs) [==>]	[1]	3	COSspec_LTT1445A_vis2b (COS.sp.194 9956)	(1) LTT1445A	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15000			2532 Secs (2532 Secs) [==>]	[2]	4	COSspec_LTT1445A_vis2c (COS.sp.194 9956)	(1) LTT1445A	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=4; BUFFER-TIME=15000			2532 Secs (2532 Secs) [==>]	[3]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																		
1	ACQ_IMG_LTT1445A_vis2 (COS.ta.154 4663)	(1) LTT1445A	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				40 Secs (40 Secs) [==>]	[1]																																																		
2	COSspec_LTT1445A_vis2a (COS.sp.194 9956)	(1) LTT1445A	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=15000			2167 Secs (2167 Secs) [==>]	[1]																																																		
3	COSspec_LTT1445A_vis2b (COS.sp.194 9956)	(1) LTT1445A	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15000			2532 Secs (2532 Secs) [==>]	[2]																																																		
4	COSspec_LTT1445A_vis2c (COS.sp.194 9956)	(1) LTT1445A	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=4; BUFFER-TIME=15000			2532 Secs (2532 Secs) [==>]	[3]																																																		



Proposal 18030 - LTT1445A vis3 (07) - Muscles Advanced Library With an Atmospheric Retention Emphasis

Mon Mar 30 20:00:21 GMT 2026

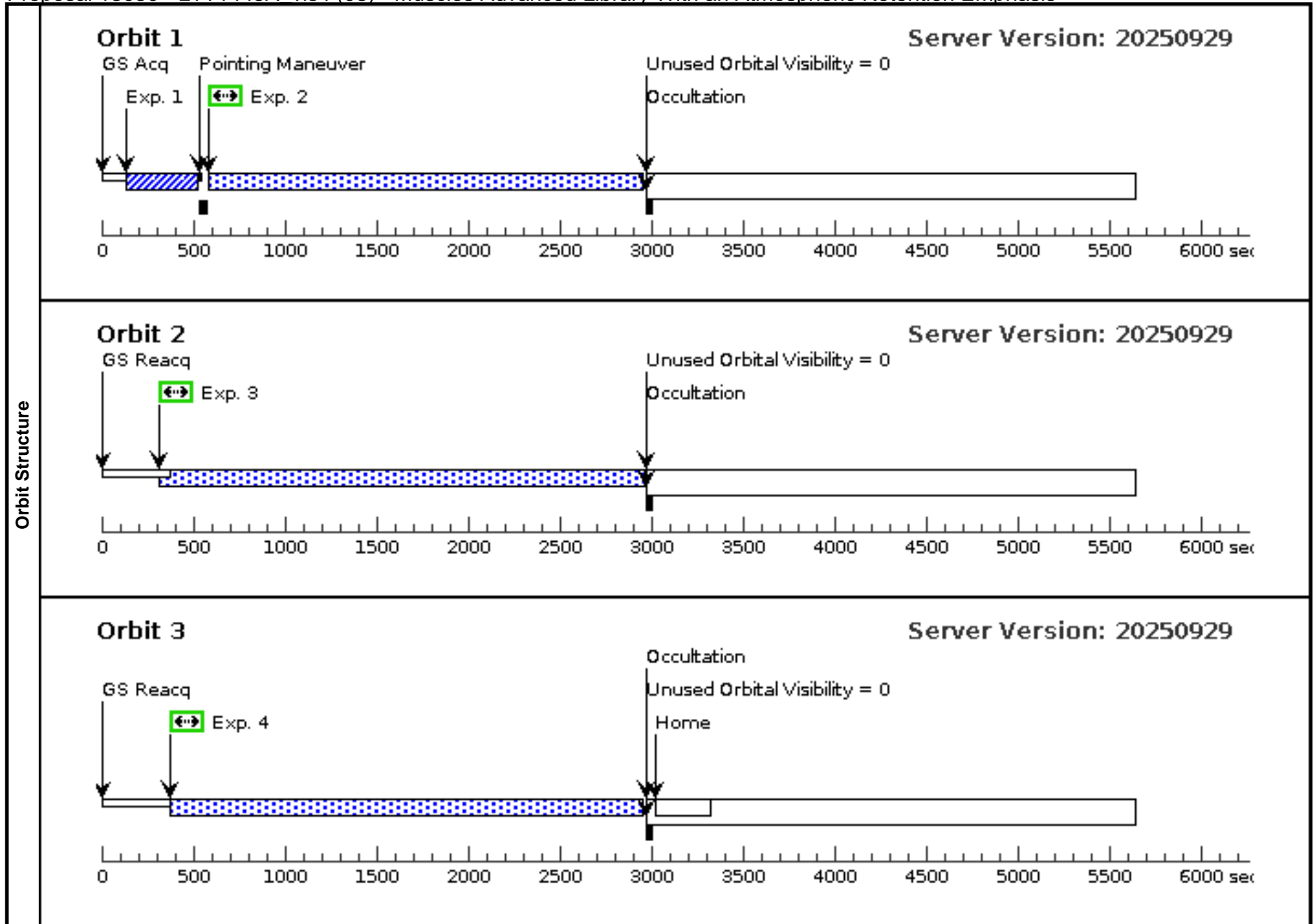
Visit	Proposal 18030, LTT1445A_vis3 (07), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: PC added Between window to coordinate simultaneous observations with Chandra</i>																																																										
	Diagnosics (LTT1445A_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	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>LTT1445A</td> <td>RA: 03 01 51.3937 (45.4641404d) Dec: -16 35 36.03 (-16.59334d) Equinox: J2000</td> <td>Proper Motion RA: -369.972 mas/yr Proper Motion Dec: -267.930999848556 mas/yr Parallax: 0.14569220000000002" Epoch of Position: 2000</td> <td>V=10.529</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><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></p> <p><i>Category=EXT-STAR</i> <i>Description=[M V-IV]</i> <i>Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	LTT1445A	RA: 03 01 51.3937 (45.4641404d) Dec: -16 35 36.03 (-16.59334d) Equinox: J2000	Proper Motion RA: -369.972 mas/yr Proper Motion Dec: -267.930999848556 mas/yr Parallax: 0.14569220000000002" Epoch of Position: 2000	V=10.529	Reference Frame: ICRS																																					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																					
(1)	LTT1445A	RA: 03 01 51.3937 (45.4641404d) Dec: -16 35 36.03 (-16.59334d) Equinox: J2000	Proper Motion RA: -369.972 mas/yr Proper Motion Dec: -267.930999848556 mas/yr Parallax: 0.14569220000000002" Epoch of Position: 2000	V=10.529	Reference Frame: ICRS																																																						
<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ACQ_IMG_LTT1445A_vis3 (COS.ta.154 4663)</td> <td>(1) LTT1445A</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>40 Secs (40 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>COSspec_LTT1445A_vis3a (COS.sp.194 9956)</td> <td>(1) LTT1445A</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=3; BUFFER-TIME=15 000</td> <td></td> <td></td> <td>2167 Secs (2167 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>COSspec_LTT1445A_vis3b (COS.sp.194 9956)</td> <td>(1) LTT1445A</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=3; BUFFER-TIME=15 000</td> <td></td> <td></td> <td>2532 Secs (2532 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td>4</td> <td>COSspec_LTT1445A_vis3c (COS.sp.194 9956)</td> <td>(1) LTT1445A</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=4; BUFFER-TIME=15 000</td> <td></td> <td></td> <td>2532 Secs (2532 Secs) [==>]</td> <td>[3]</td> </tr> </tbody> </table>										#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	ACQ_IMG_LTT1445A_vis3 (COS.ta.154 4663)	(1) LTT1445A	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				40 Secs (40 Secs) [==>]	[1]	2	COSspec_LTT1445A_vis3a (COS.sp.194 9956)	(1) LTT1445A	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15 000			2167 Secs (2167 Secs) [==>]	[1]	3	COSspec_LTT1445A_vis3b (COS.sp.194 9956)	(1) LTT1445A	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15 000			2532 Secs (2532 Secs) [==>]	[2]	4	COSspec_LTT1445A_vis3c (COS.sp.194 9956)	(1) LTT1445A	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=4; BUFFER-TIME=15 000			2532 Secs (2532 Secs) [==>]	[3]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																		
1	ACQ_IMG_LTT1445A_vis3 (COS.ta.154 4663)	(1) LTT1445A	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				40 Secs (40 Secs) [==>]	[1]																																																		
2	COSspec_LTT1445A_vis3a (COS.sp.194 9956)	(1) LTT1445A	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15 000			2167 Secs (2167 Secs) [==>]	[1]																																																		
3	COSspec_LTT1445A_vis3b (COS.sp.194 9956)	(1) LTT1445A	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15 000			2532 Secs (2532 Secs) [==>]	[2]																																																		
4	COSspec_LTT1445A_vis3c (COS.sp.194 9956)	(1) LTT1445A	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=4; BUFFER-TIME=15 000			2532 Secs (2532 Secs) [==>]	[3]																																																		



Proposal 18030 - LTT1445A_vis4 (08) - Muscles Advanced Library With an Atmospheric Retention Emphasis

Mon Mar 30 20:00:21 GMT 2026

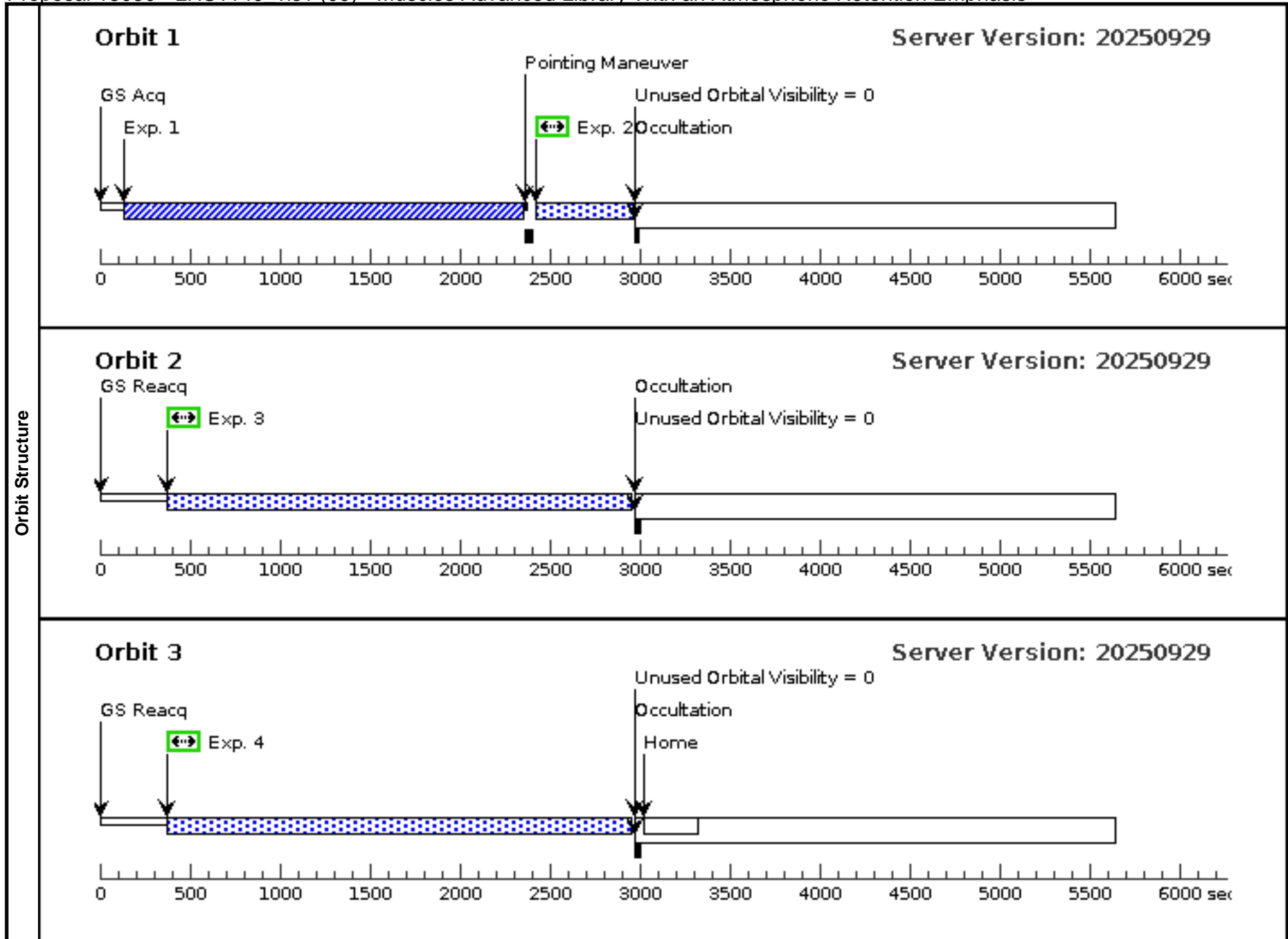
Visit	Proposal 18030, LTT1445A_vis4 (08), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: PC added Between window to coordinate simultaneous observations with Chandra</i>									
	(LTT1445A_vis4 (08)) Warning (Form): For the 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. (LTT1445A_vis4 (08)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	LTT1445A	RA: 03 01 51.3937 (45.4641404d) Dec: -16 35 36.03 (-16.59334d) Equinox: J2000	Proper Motion RA: -369.972 mas/yr Proper Motion Dec: -267.9309999848556 mas/yr Parallax: 0.14569220000000002" Epoch of Position: 2000	V=10.529	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</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. 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_LTT1445A_vis4 (COS.ta.154 4663)	(1) LTT1445A	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				40 Secs (40 Secs) [==>]	[1]
	2	COSspec_LTT1445A_vis4a (COS.sp.194 9956)	(1) LTT1445A	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=4; BUFFER-TIME=15 000			2167 Secs (2167 Secs) [==>]	[1]
	3	COSspec_LTT1445A_vis4b (COS.sp.194 9956)	(1) LTT1445A	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=15 000			2532 Secs (2532 Secs) [==>]	[2]
	4	COSspec_LTT1445A_vis4c (COS.sp.194 9956)	(1) LTT1445A	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=15 000			2532 Secs (2532 Secs) [==>]	[3]



Proposal 18030 - LHS1140 vis1 (09) - Muscles Advanced Library With an Atmospheric Retention Emphasis

Mon Mar 30 20:00:21 GMT 2026

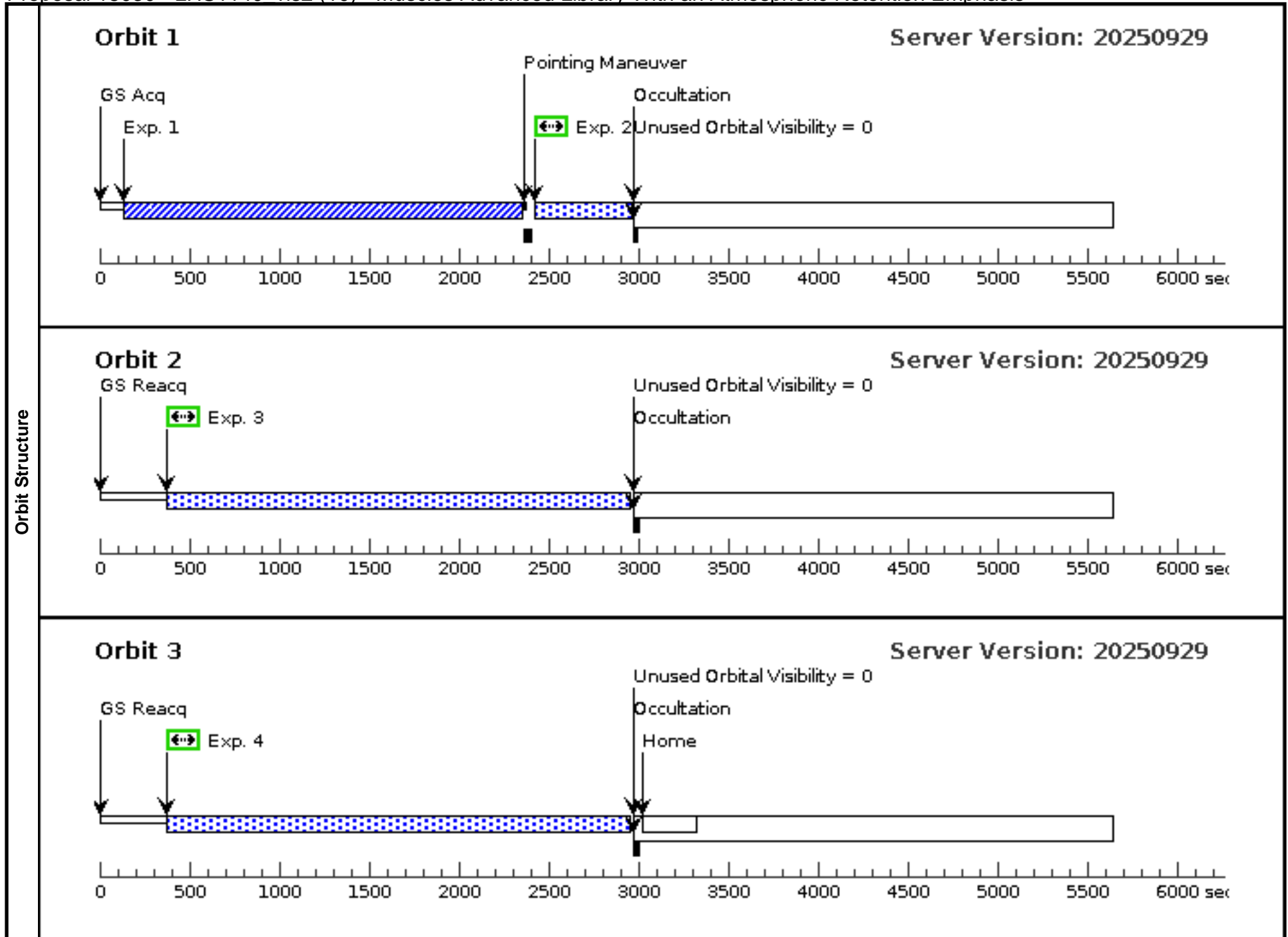
Visit	Proposal 18030, LHS1140_vis1 (09), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																										
	(LHS1140_vis1 (09)) Warning (Form): For the best data quality, it is generally required to 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	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>LHS1140</td> <td>RA: 00 44 59.3309 (11.2472121d) Dec: -15 16 17.54 (-15.27154d) Equinox: J2000</td> <td>Proper Motion RA: 318.152 mas/yr Proper Motion Dec: -596.6230000922224 mas/yr Parallax: 0.06682869999999999" Epoch of Position: 2000</td> <td>V=14.15</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><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></p> <p><i>Category=EXT-STAR</i> <i>Description=[M V-IV]</i> <i>Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(4)	LHS1140	RA: 00 44 59.3309 (11.2472121d) Dec: -15 16 17.54 (-15.27154d) Equinox: J2000	Proper Motion RA: 318.152 mas/yr Proper Motion Dec: -596.6230000922224 mas/yr Parallax: 0.06682869999999999" Epoch of Position: 2000	V=14.15	Reference Frame: ICRS																																					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																					
(4)	LHS1140	RA: 00 44 59.3309 (11.2472121d) Dec: -15 16 17.54 (-15.27154d) Equinox: J2000	Proper Motion RA: 318.152 mas/yr Proper Motion Dec: -596.6230000922224 mas/yr Parallax: 0.06682869999999999" Epoch of Position: 2000	V=14.15	Reference Frame: ICRS																																																						
<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ACQ_IMG_LHS1140_vis1 (COS.ta.2021012)</td> <td>(4) LHS1140</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>957 Secs (957 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>COSspec_LHS1140_vis1a (COS.sp.1949956)</td> <td>(4) LHS1140</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=1; BUFFER-TIME=15000</td> <td></td> <td></td> <td>333 Secs (333 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>COSspec_LHS1140_vis1b (COS.sp.1949956)</td> <td>(4) LHS1140</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=2; BUFFER-TIME=15000</td> <td></td> <td></td> <td>2532 Secs (2532 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td>4</td> <td>COSspec_LHS1140_vis1c (COS.sp.1949956)</td> <td>(4) LHS1140</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=3; BUFFER-TIME=15000</td> <td></td> <td></td> <td>2532 Secs (2532 Secs) [==>]</td> <td>[3]</td> </tr> </tbody> </table>										#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	ACQ_IMG_LHS1140_vis1 (COS.ta.2021012)	(4) LHS1140	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				957 Secs (957 Secs) [==>]	[1]	2	COSspec_LHS1140_vis1a (COS.sp.1949956)	(4) LHS1140	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=15000			333 Secs (333 Secs) [==>]	[1]	3	COSspec_LHS1140_vis1b (COS.sp.1949956)	(4) LHS1140	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=15000			2532 Secs (2532 Secs) [==>]	[2]	4	COSspec_LHS1140_vis1c (COS.sp.1949956)	(4) LHS1140	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15000			2532 Secs (2532 Secs) [==>]	[3]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																		
1	ACQ_IMG_LHS1140_vis1 (COS.ta.2021012)	(4) LHS1140	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				957 Secs (957 Secs) [==>]	[1]																																																		
2	COSspec_LHS1140_vis1a (COS.sp.1949956)	(4) LHS1140	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=15000			333 Secs (333 Secs) [==>]	[1]																																																		
3	COSspec_LHS1140_vis1b (COS.sp.1949956)	(4) LHS1140	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=15000			2532 Secs (2532 Secs) [==>]	[2]																																																		
4	COSspec_LHS1140_vis1c (COS.sp.1949956)	(4) LHS1140	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15000			2532 Secs (2532 Secs) [==>]	[3]																																																		



Proposal 18030 - LHS1140 vis2 (10) - Muscles Advanced Library With an Atmospheric Retention Emphasis

Mon Mar 30 20:00:21 GMT 2026

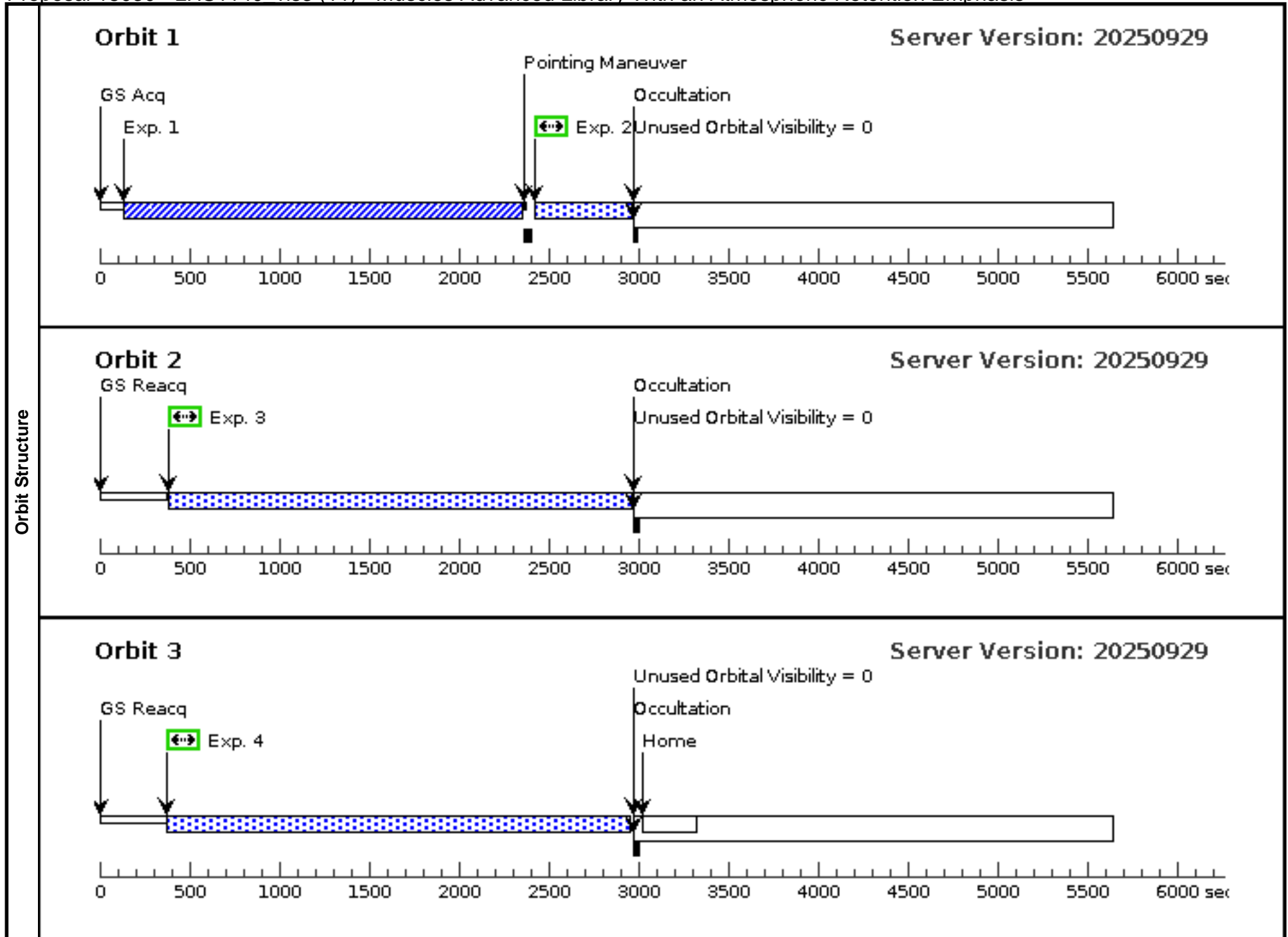
Visit	Proposal 18030, LHS1140_vis2 (10), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																										
	(LHS1140_vis2 (10)) Warning (Form): For the best data quality, it is generally required to 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	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>LHS1140</td> <td>RA: 00 44 59.3309 (11.2472121d) Dec: -15 16 17.54 (-15.27154d) Equinox: J2000</td> <td>Proper Motion RA: 318.152 mas/yr Proper Motion Dec: -596.6230000922224 mas/yr Parallax: 0.06682869999999999" Epoch of Position: 2000</td> <td>V=14.15</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><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></p> <p><i>Category=EXT-STAR</i> <i>Description=[M V-IV]</i> <i>Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(4)	LHS1140	RA: 00 44 59.3309 (11.2472121d) Dec: -15 16 17.54 (-15.27154d) Equinox: J2000	Proper Motion RA: 318.152 mas/yr Proper Motion Dec: -596.6230000922224 mas/yr Parallax: 0.06682869999999999" Epoch of Position: 2000	V=14.15	Reference Frame: ICRS																																					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																					
(4)	LHS1140	RA: 00 44 59.3309 (11.2472121d) Dec: -15 16 17.54 (-15.27154d) Equinox: J2000	Proper Motion RA: 318.152 mas/yr Proper Motion Dec: -596.6230000922224 mas/yr Parallax: 0.06682869999999999" Epoch of Position: 2000	V=14.15	Reference Frame: ICRS																																																						
<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ACQ_IMG_LHS1140_vis2 (COS.ta.2021012)</td> <td>(4) LHS1140</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>957 Secs (957 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>COSspec_LHS1140_vis2a (COS.sp.1949956)</td> <td>(4) LHS1140</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=2; BUFFER-TIME=15000</td> <td></td> <td></td> <td>333 Secs (333 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>COSspec_LHS1140_vis2b (COS.sp.1949956)</td> <td>(4) LHS1140</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=3; BUFFER-TIME=15000</td> <td></td> <td></td> <td>2532 Secs (2532 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td>4</td> <td>COSspec_LHS1140_vis2c (COS.sp.1949956)</td> <td>(4) LHS1140</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=4; BUFFER-TIME=15000</td> <td></td> <td></td> <td>2532 Secs (2532 Secs) [==>]</td> <td>[3]</td> </tr> </tbody> </table>										#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	ACQ_IMG_LHS1140_vis2 (COS.ta.2021012)	(4) LHS1140	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				957 Secs (957 Secs) [==>]	[1]	2	COSspec_LHS1140_vis2a (COS.sp.1949956)	(4) LHS1140	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=15000			333 Secs (333 Secs) [==>]	[1]	3	COSspec_LHS1140_vis2b (COS.sp.1949956)	(4) LHS1140	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15000			2532 Secs (2532 Secs) [==>]	[2]	4	COSspec_LHS1140_vis2c (COS.sp.1949956)	(4) LHS1140	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=4; BUFFER-TIME=15000			2532 Secs (2532 Secs) [==>]	[3]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																		
1	ACQ_IMG_LHS1140_vis2 (COS.ta.2021012)	(4) LHS1140	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				957 Secs (957 Secs) [==>]	[1]																																																		
2	COSspec_LHS1140_vis2a (COS.sp.1949956)	(4) LHS1140	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=15000			333 Secs (333 Secs) [==>]	[1]																																																		
3	COSspec_LHS1140_vis2b (COS.sp.1949956)	(4) LHS1140	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15000			2532 Secs (2532 Secs) [==>]	[2]																																																		
4	COSspec_LHS1140_vis2c (COS.sp.1949956)	(4) LHS1140	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=4; BUFFER-TIME=15000			2532 Secs (2532 Secs) [==>]	[3]																																																		



Proposal 18030 - LHS1140 vis3 (11) - Muscles Advanced Library With an Atmospheric Retention Emphasis

Mon Mar 30 20:00:21 GMT 2026

Visit	Proposal 18030, LHS1140_vis3 (11), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																										
	(LHS1140_vis3 (11)) 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	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>LHS1140</td> <td>RA: 00 44 59.3309 (11.2472121d) Dec: -15 16 17.54 (-15.27154d) Equinox: J2000</td> <td>Proper Motion RA: 318.152 mas/yr Proper Motion Dec: -596.6230000922224 mas/yr Parallax: 0.06682869999999999" Epoch of Position: 2000</td> <td>V=14.15</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><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></p> <p><i>Category=EXT-STAR</i> <i>Description=[M V-IV]</i> <i>Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(4)	LHS1140	RA: 00 44 59.3309 (11.2472121d) Dec: -15 16 17.54 (-15.27154d) Equinox: J2000	Proper Motion RA: 318.152 mas/yr Proper Motion Dec: -596.6230000922224 mas/yr Parallax: 0.06682869999999999" Epoch of Position: 2000	V=14.15	Reference Frame: ICRS																																					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																					
(4)	LHS1140	RA: 00 44 59.3309 (11.2472121d) Dec: -15 16 17.54 (-15.27154d) Equinox: J2000	Proper Motion RA: 318.152 mas/yr Proper Motion Dec: -596.6230000922224 mas/yr Parallax: 0.06682869999999999" Epoch of Position: 2000	V=14.15	Reference Frame: ICRS																																																						
<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ACQ_IMG_LHS1140_vis3 (COS.ta.2021012)</td> <td>(4) LHS1140</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>957 Secs (957 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>COSspec_LHS1140_vis3a (COS.sp.1949956)</td> <td>(4) LHS1140</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=3; BUFFER-TIME=15000</td> <td></td> <td></td> <td>333 Secs (333 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>COSspec_LHS1140_vis3b (COS.sp.1949956)</td> <td>(4) LHS1140</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=3; BUFFER-TIME=15000</td> <td></td> <td></td> <td>2532 Secs (2532 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td>4</td> <td>COSspec_LHS1140_vis3c (COS.sp.1949956)</td> <td>(4) LHS1140</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=4; BUFFER-TIME=15000</td> <td></td> <td></td> <td>2532 Secs (2532 Secs) [==>]</td> <td>[3]</td> </tr> </tbody> </table>										#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	ACQ_IMG_LHS1140_vis3 (COS.ta.2021012)	(4) LHS1140	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				957 Secs (957 Secs) [==>]	[1]	2	COSspec_LHS1140_vis3a (COS.sp.1949956)	(4) LHS1140	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15000			333 Secs (333 Secs) [==>]	[1]	3	COSspec_LHS1140_vis3b (COS.sp.1949956)	(4) LHS1140	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15000			2532 Secs (2532 Secs) [==>]	[2]	4	COSspec_LHS1140_vis3c (COS.sp.1949956)	(4) LHS1140	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=4; BUFFER-TIME=15000			2532 Secs (2532 Secs) [==>]	[3]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																		
1	ACQ_IMG_LHS1140_vis3 (COS.ta.2021012)	(4) LHS1140	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				957 Secs (957 Secs) [==>]	[1]																																																		
2	COSspec_LHS1140_vis3a (COS.sp.1949956)	(4) LHS1140	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15000			333 Secs (333 Secs) [==>]	[1]																																																		
3	COSspec_LHS1140_vis3b (COS.sp.1949956)	(4) LHS1140	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=3; BUFFER-TIME=15000			2532 Secs (2532 Secs) [==>]	[2]																																																		
4	COSspec_LHS1140_vis3c (COS.sp.1949956)	(4) LHS1140	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=4; BUFFER-TIME=15000			2532 Secs (2532 Secs) [==>]	[3]																																																		



Proposal 18030 - LHS1140 vis4 (12) - Muscles Advanced Library With an Atmospheric Retention Emphasis

Mon Mar 30 20:00:21 GMT 2026

Visit	Proposal 18030, LHS1140_vis4 (12), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																										
	Diagnosics (LHS1140_vis4 (12)) 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. (LHS1140_vis4 (12)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS																																																										
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>LHS1140</td> <td>RA: 00 44 59.3309 (11.2472121d) Dec: -15 16 17.54 (-15.27154d) Equinox: J2000</td> <td>Proper Motion RA: 318.152 mas/yr Proper Motion Dec: -596.6230000922224 mas/yr Parallax: 0.06682869999999999" Epoch of Position: 2000</td> <td>V=14.15</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><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></p> <p><i>Category=EXT-STAR</i> <i>Description=[M V-IV]</i> <i>Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(4)	LHS1140	RA: 00 44 59.3309 (11.2472121d) Dec: -15 16 17.54 (-15.27154d) Equinox: J2000	Proper Motion RA: 318.152 mas/yr Proper Motion Dec: -596.6230000922224 mas/yr Parallax: 0.06682869999999999" Epoch of Position: 2000	V=14.15	Reference Frame: ICRS																																					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																					
(4)	LHS1140	RA: 00 44 59.3309 (11.2472121d) Dec: -15 16 17.54 (-15.27154d) Equinox: J2000	Proper Motion RA: 318.152 mas/yr Proper Motion Dec: -596.6230000922224 mas/yr Parallax: 0.06682869999999999" Epoch of Position: 2000	V=14.15	Reference Frame: ICRS																																																						
<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ACQ_IMG_LHS1140_vis4 (COS.ta.2021012)</td> <td>(4) LHS1140</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>957 Secs (957 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>COSspec_LHS1140_vis4a (COS.sp.1949956)</td> <td>(4) LHS1140</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=4; BUFFER-TIME=15000</td> <td></td> <td></td> <td>333 Secs (333 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>COSspec_LHS1140_vis4b (COS.sp.1949956)</td> <td>(4) LHS1140</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=1; BUFFER-TIME=15000</td> <td></td> <td></td> <td>2532 Secs (2532 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td>4</td> <td>COSspec_LHS1140_vis4c (COS.sp.1949956)</td> <td>(4) LHS1140</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G140L 800 A</td> <td>FP-POS=2; BUFFER-TIME=15000</td> <td></td> <td></td> <td>2532 Secs (2532 Secs) [==>]</td> <td>[3]</td> </tr> </tbody> </table>										#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	ACQ_IMG_LHS1140_vis4 (COS.ta.2021012)	(4) LHS1140	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				957 Secs (957 Secs) [==>]	[1]	2	COSspec_LHS1140_vis4a (COS.sp.1949956)	(4) LHS1140	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=4; BUFFER-TIME=15000			333 Secs (333 Secs) [==>]	[1]	3	COSspec_LHS1140_vis4b (COS.sp.1949956)	(4) LHS1140	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=15000			2532 Secs (2532 Secs) [==>]	[2]	4	COSspec_LHS1140_vis4c (COS.sp.1949956)	(4) LHS1140	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=15000			2532 Secs (2532 Secs) [==>]	[3]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																		
1	ACQ_IMG_LHS1140_vis4 (COS.ta.2021012)	(4) LHS1140	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				957 Secs (957 Secs) [==>]	[1]																																																		
2	COSspec_LHS1140_vis4a (COS.sp.1949956)	(4) LHS1140	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=4; BUFFER-TIME=15000			333 Secs (333 Secs) [==>]	[1]																																																		
3	COSspec_LHS1140_vis4b (COS.sp.1949956)	(4) LHS1140	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=1; BUFFER-TIME=15000			2532 Secs (2532 Secs) [==>]	[2]																																																		
4	COSspec_LHS1140_vis4c (COS.sp.1949956)	(4) LHS1140	COS/FUV, TIME-TAG, PSA	G140L 800 A	FP-POS=2; BUFFER-TIME=15000			2532 Secs (2532 Secs) [==>]	[3]																																																		

