



16597 - ULLYSES Late K- and Early M-type T Tauri Survey Stars in Cha I

Cycle: 29, Proposal Category: GO/DD

(Availability Mode: SUPPORTED)

INVESTIGATORS

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Proposal 16597 (STScI Edit Number: 1, Created: Thursday, April 14, 2022 at 9:00:32 AM Eastern Standard Time) - Overview

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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>
1C	(1) SZ19	COS/FUV COS/NUV	3	14-Apr-2022 10:00:23.0	yes
1D	(1) SZ19	COS/FUV COS/NUV	3	14-Apr-2022 10:00:24.0	yes
1E	(1) SZ19	COS/FUV COS/NUV	4	14-Apr-2022 10:00:24.0	yes
1F	(1) SZ19	COS/FUV COS/NUV	4	14-Apr-2022 10:00:25.0	yes
1S	(1) SZ19 CCDFLAT WAVE	STIS/CCD STIS/NUV-MAMA	1	14-Apr-2022 10:00:27.0	yes
2C	(2) V-VZ-CHA	COS/FUV COS/NUV	3	14-Apr-2022 10:00:28.0	yes
2D	(2) V-VZ-CHA	COS/FUV COS/NUV	3	14-Apr-2022 10:00:28.0	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>
2E	(2) V-VZ-CHA	COS/FUV COS/NUV	4	14-Apr-2022 10:00:29.0	yes
2F	(2) V-VZ-CHA	COS/FUV COS/NUV	3	14-Apr-2022 10:00:30.0	yes
2S	(2) V-VZ-CHA CCDFLAT WAVE	STIS/CCD STIS/NUV-MAMA	1	14-Apr-2022 10:00:31.0	yes

29 Total Orbits Used

ABSTRACT

The Space Telescope Science Institute (STScI) Director has decided to devote up to 1000 orbits of Director's Discretionary time in observing Cycles 27-29 to a new Hubble Ultraviolet Legacy program focused on star formation and associated stellar physics. This new program, ULLYSES (UV Legacy Library of Young Stars as Essential Standards), will provide a UV spectroscopic reference sample of young (< 10 Myr) high- and low-mass stars. It will target over ~150 OB stars in the Magellanic Clouds and lower metallicity galaxies in the Local Group, and ~40 T Tauri stars and brown dwarfs in the Milky Way. In addition, ULLYSES will monitor 4 typical T Tauri stars over different rotational phases through at least three rotation periods, and over timescales of months to years. The resulting library will provide template spectra of massive stars at metallicities substantially below the well studied, while the low mass sample will cover a wide range of ages, accretion rates, and masses, including objects down to well below 0.5 M_{sun} . The legacy of this large UV dataset on the first 10 Myr of stellar evolution will be enhanced by complementary datasets obtained by the scientific community. In addition to the core goals of the program related to stellar astrophysics of low and high mass stars, this data will also enable exciting science in the fields of ISM, CGM, jets, and exoplanets. ULLYSES will be modeled after the Frontier Fields program: all data obtained will be non-proprietary. The implementation team at STScI is developing high-level science data products and a sophisticated database and website for disseminating data from the ULLYSES program and ancillary datasets for the ULLYSES target sample from space and ground-based facilities.

OBSERVING DESCRIPTION

This proposal includes a subset of the low mass ULLYSES survey stars. Each target will be observed with the COS c1291 + c1589 + c1623 settings, as well as with STIS G230L, G430L, and G750L. All observations will normally be constrained to occur within 1 day.

Signal-to-noise requirements used to determine the desired exposures times were defined as follows:

Proposal 16597 (STScI Edit Number: 1, Created: Thursday, April 14, 2022 at 9:00:32 AM Eastern Standard Time) - Overview

COS/G130M/c1291: N V 1239 +- 1 A -- S/N=10/6-pix-resel at the peak of the line

COS/G160M/c1589: C IV 1549 +- 1 A -- S/N=20/6-pix-resel at the peak of the line (combined c1589 & c1623)

COS/G160M/c1623: C IV 1549 +- 1 A -- S/N=20/6-pix-resel at the peak of the line (combined c1589 & c1623)

STIS/G230L/52X2: Mg II 2800 +-15 A -- S/N=20/2-pix-resel at the peak of the line

STIS/G430L/52X2: continuum average 4000 +-5 A -- S/N=20/2-pix-resel (2 reads)

STIS/G750L/52X2: continuum average 5700 +-5 A -- S/N=20/2-pix-resel (2 reads)

Additional details about the scientific motivation and technical implementation strategy of the ULLYSES observations can be found at <http://www.stsci.edu/stsci-research/research-topics-and-programs/ullyses>. The ULLYSES program is based on the recommendations of a working group led by Sally Oey; the full text of that group's report can be found at http://www.stsci.edu/files/live/sites/www/files/home/stsci-research/research-topics-and-programs/ullyses/_documents/HSTUV-report-ULLYSES.pdf.

Proposal 16597 - SZ19-COS (1C) - ULLYSES Late K- and Early M-type T Tauri Survey Stars in Cha I

Thu Apr 14 14:00:32 GMT 2022

Visit	<p>Proposal 16597, SZ19-COS (1C), completed</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 24-JAN-2022:00:00:00 AND 11-MAY-2022:00:00:00; GROUP 1C,1D,1E,1F,1S WITHIN 2D</p> <p><i>Comments: vstatus; 1C; SZ19; P/COS approved for submission; P/DJS 02/08/21 ; intrev: complete ; P/RS 29/07/21</i> <i>vcheck; Enter targ name & Inst. & Resp. Sci.; SZ19 'VI DI CHA' ; COS ; DJS</i> <i>vcheck; ETC numbers entered in APT?; completed</i> <i>vcheck; Any screening violations?; None</i> <i>vcheck; M-dwarf check complete and added to box folder?; N/A</i> <i>vcheck; S/N ETC calcs done & documented?; yes</i> <i>vcheck; Field images checked & saved?; yes</i> <i>vcheck; Selected ACQ strategy?; ACQ/IMAGE</i> <i>vcheck; Possible ACQ or Sci spoilers?; none</i> <i>vcheck; Field BOT clear?; yes</i> <i>vcheck; Visual BOT check for stars not in catalog?; yes</i> <i>vcheck; Orbit packing finalized?; yes</i> <i>vcheck; Buffer times optimized?; yes</i> <i>vcheck; Verify visit grouping correct; N/A</i> <i>vcheck; phase constraint for ground based observations added?; N/A</i> <i>vcheck; BETWEENS for coordinated observations added?; N/A</i> <i>vcheck; Is visit ready for int. review?; yes</i> <i>Allocated COS orbits = 15</i></p>																																	
	<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>SZ19</td> <td>RA: 11 07 20.6153 (166.8358971d)</td> <td>Proper Motion RA: -22.552486155521002 mas/yr</td> <td>V=10.93</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td>Alt Name1: DI-CHA</td> <td>Dec: -77 38 7.29 (-77.63536d)</td> <td>Proper Motion Dec: 1.213864229788 mas/yr</td> <td>SpT=K0; A_V=1.50; U=11.0; V=10.9</td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: J11072074-7738073</td> <td>Equinox: J2000</td> <td>Parallax: 0.005291329565933"</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Epoch of Position: 2016</td> <td></td> <td></td> </tr> </tbody> </table> <p><i>Comments: Sz19 : DI Cha, J11072074-7738073</i> <i>Region: Cha I</i> <i>Simbad: https://simbad.u-strasbg.fr/simbad/sim-id?Ident=SZ+19&NbIdent=1&Radius=2&Radius.unit=arcmin&submit=submit+id</i> <i>Target coordinates are from Gaia DR2.</i> <i>Spectral type: K0 ; A_V: 1.5 ; Distance (pc): 160</i> <i>M*: 2.08 ; log(dm/dt): -7.63</i> <i>Input file: targets_up_to_May30-2022.csv</i> <i>sz19_lya2_etc_scaled_pAV0.50.txt</i> <i>Calculation performed 2021-06-18T15:05:02, 0.24</i></p> <p>-----</p> <p><i>tstatus; SZ19; P/COS approved for submission; S/STIS approved for submission; P/DJS 02/08/21; S/DJS 02/08/21</i> <i>tcheck; APT/SIMBAD target names: ; SZ19 'VI DI CHA'</i> <i>tcheck; Target info verification status?; OK</i> <i>tcheck; Coordinates & P.M. verified, epoch checked?; Changed to 2016 from 2015.5</i> <i>tcheck; Adopted SED compared to Observations?; N/A</i> <i>Category=STAR</i> <i>Description=[T TAURI STAR, PRE-MAIN SEQUENCE STAR]</i> <i>Extended=NO</i></p>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	SZ19	RA: 11 07 20.6153 (166.8358971d)	Proper Motion RA: -22.552486155521002 mas/yr	V=10.93	Reference Frame: ICRS		Alt Name1: DI-CHA	Dec: -77 38 7.29 (-77.63536d)	Proper Motion Dec: 1.213864229788 mas/yr	SpT=K0; A_V=1.50; U=11.0; V=10.9			Alt Name2: J11072074-7738073	Equinox: J2000	Parallax: 0.005291329565933"						Epoch of Position: 2016	
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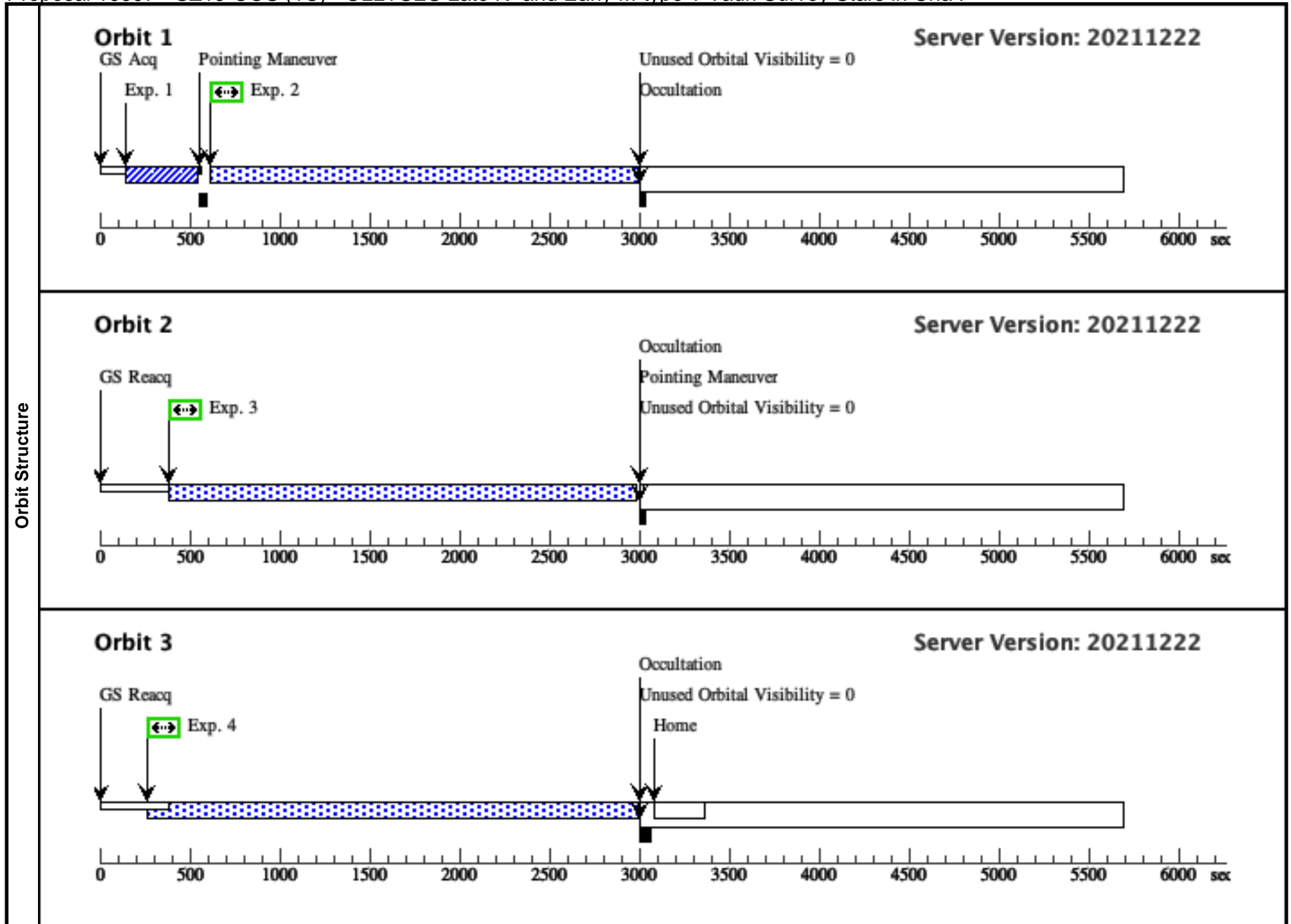
Proposal 16597 - SZ19-COS (1C) - ULLYSES Late K- and Early M-type T Tauri Survey Stars in Cha I

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/Image (COS.ta.152 7582)	(1) SZ19	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				46 Secs (46 Secs)	
								[==>]	[1]
								<p>Comments: ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: COS.ta.1527582 * For BOP, a template with 4x the flux and no additional extinction was used: COS.sa.1527580</p>	
2	G160M/158 9-3 (COS.sp.152 7591)	(1) SZ19	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=14 500; FP-POS=3			2168 Secs (2168 Secs)	
								[==>]	[1]
								<p>Comments: sz19_lya2_etc_scaled_pAV0.50.txt; cos,fuv,g160m,c1589,psa,mjd#59670; fp-pos=None, segment=None) Input file: targets_up_to_May30-2022.csv Spectral type: K0 ; A_V: 1.5 ; Distance (pc): 160 M*: 2.08 ; log(dm/dt): -7.63 For exptime=2324.3 s, spectral region: 1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623 The exptime for this c1589 exposure has been halved because c1589 & c1623 target the same line. A factor of 2.0 has been applied to the exptime in each exposure. global countrate (brightest segment): 65.8 cts/s/segment brightest pixel: 0.002 cts/s/pix at 1548.4 A Calculation performed 2021-06-18T15:04:58, v0.24</p> <p>----- The text above was done for the initial calculation of exposure times and is from the original .prop file. ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: COS.sp.1527591 * For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: COS.sp.1527594</p>	
<p>----- The text above was done for the initial calculation of exposure times and is from the original .prop file. ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: COS.sp.1527591 * For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: COS.sp.1527594</p>									
3	G160M/158 9-4 (COS.sp.152 7591)	(1) SZ19	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=14 500; FP-POS=4			2552 Secs (2552 Secs)	
								[==>]	[2]
								<p>Comments: sz19_lya2_etc_scaled_pAV0.50.txt; cos,fuv,g160m,c1589,psa,mjd#59670; fp-pos=None, segment=None) Input file: targets_up_to_May30-2022.csv Spectral type: K0 ; A_V: 1.5 ; Distance (pc): 160 M*: 2.08 ; log(dm/dt): -7.63 For exptime=2324.3 s, spectral region: 1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623 The exptime for this c1589 exposure has been halved because c1589 & c1623 target the same line. A factor of 2.0 has been applied to the exptime in each exposure. global countrate (brightest segment): 65.8 cts/s/segment brightest pixel: 0.002 cts/s/pix at 1548.4 A Calculation performed 2021-06-18T15:04:58, v0.24</p> <p>----- The text above was done for the initial calculation of exposure times and is from the original .prop file. ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: COS.sp.1527591 * For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: COS.sp.1527594</p>	
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Exposures

Proposal 16597 - SZ19-COS (1C) - ULLYSES Late K- and Early M-type T Tauri Survey Stars in Cha I

4	G130M/129 (1) SZ19 1-3 (COS.sp.152 7606)	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=53 00; FP-POS=3	2550 Secs (2550 Secs) [==>]	[3]
<p><i>Comments: sz19_lya2_etc_scaled_pAV0.50.txt; cos,fuv.g130m,c1291,psa,mjd#59670; fp-pos=None, segment=None)</i> <i>Input file: targets_up_to_May30-2022.csv</i> <i>Spectral type: K0 ; A_V: 1.5 ; Distance (pc): 160</i> <i>M*: 2.08 ; log(dm/dt): -7.63</i> <i>For exptime=14189.5 s, spectral region:</i> <i>1239.0 +- 1.0 A achieves SNR=10.0 / 6-pix-resel</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 281.9 cts/s/segment</i> <i>brightest pixel: 0.001 cts/s/pix at 1304.9 A</i> <i>Calculation performed 2021-06-18T15:05:02, v0.24</i></p> <p>----- <i>The text above was done for the initial calculation of exposure times and is from the original .prop file.</i> <i>ETC runs were done for two cases:</i> <i>* For exposure time, a template with an extra A_V of 0.5 were used: COS.sp.1527606</i> <i>* For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: COS.sp.1527609</i></p>						



Visit	<p>Proposal 16597, SZ19-COS (1D), completed</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 24-JAN-2022:00:00:00 AND 11-MAY-2022:00:00:00</p> <p><i>Comments: vstatus; 1D; SZ19; P/COS approved for submission; P/DJS 02/08/21 ; intrev: complete ; P/RS 29/07/21 vcheck; Enter targ name & Inst. & Resp. Sci.; SZ19 'VI DI CHA' ; COS ; DJS vcheck; ETC numbers entered in APT?; completed vcheck; Any screening violations?; None vcheck; M-dwarf check complete and added to box folder?; N/A vcheck; S/N ETC calcs done & documented?; yes vcheck; Field images checked & saved?; yes vcheck; Selected ACQ strategy?; ACQ/IMAGE vcheck; Possible ACQ or Sci spoilers?; none vcheck; Field BOT clear?; yes vcheck; Visual BOT check for stars not in catalog?; yes vcheck; Orbit packing finalized?; yes vcheck; Buffer times optimized?; yes vcheck; Verify visit grouping correct; N/A vcheck; phase constraint for ground based observations added?; N/A vcheck; BETWEENS for coordinated observations added?; N/A vcheck; Is visit ready for int. review?; yes Allocated COS orbits = 15</i></p>																																	
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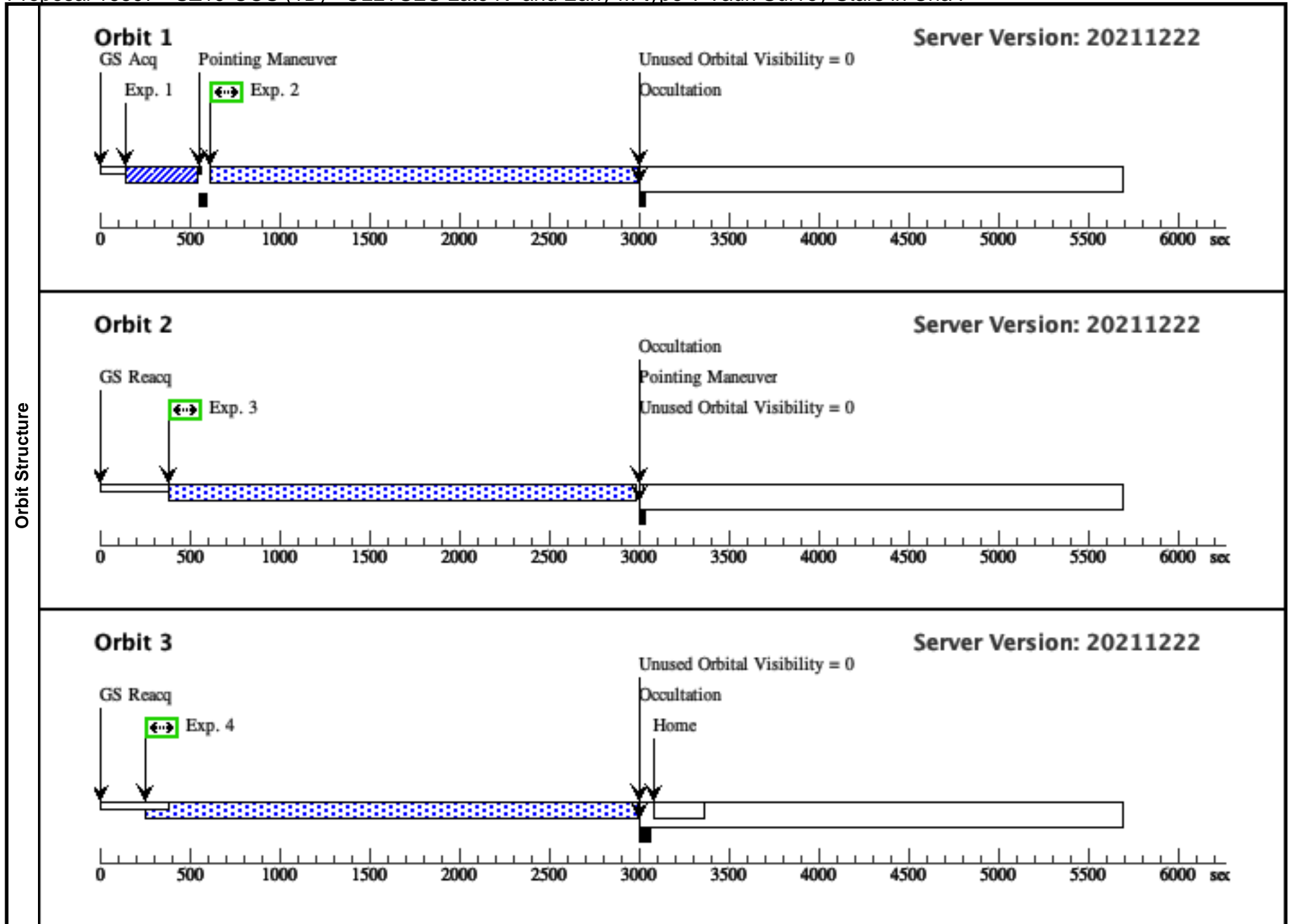
Proposal 16597 - SZ19-COS (1D) - ULLYSES Late K- and Early M-type T Tauri Survey Stars in Cha I

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/Image (COS.ta.152 7582)	(1) SZ19	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				46 Secs (46 Secs)	
								[==>]	[1]
								<p>Comments: ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: COS.ta.1527582 * For BOP, a template with 4x the flux and no additional extinction was used: COS.sa.1527580</p>	
2	G160M/162 3-1 (COS.sp.152 7600)	(1) SZ19	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=14 900; FP-POS=1			2158 Secs (2158 Secs)	
								[==>]	[1]
								<p>Comments: sz19_lya2_etc_scaled_pAV0.50.txt; cos,fuv,g160m,c1623,psa,mjd#59670; fp-pos=None, segment=None) Input file: targets_up_to_May30-2022.csv Spectral type: K0 ; A_V: 1.5 ; Distance (pc): 160 M*: 2.08 ; log(dm/dt): -7.63 For exptime=2308.7 s, spectral region: 1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623 The exptime for this c1623 exposure has been halved because c1589 & c1623 target the same line. A factor of 2.0 has been applied to the exptime in each exposure. global countrate (brightest segment): 65.6 cts/s/segment brightest pixel: 0.002 cts/s/pix at 1548.4 A Calculation performed 2021-06-18T15:05:00, v0.24</p> <p>----- The text above was done for the initial calculation of exposure times and is from the original .prop file. ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: COS.sp.1527600 * For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: COS.sp.1527598</p>	
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3	G160M/162 3-2 (COS.sp.152 7600)	(1) SZ19	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=14 900; FP-POS=2			2552 Secs (2552 Secs)	
								[==>]	[2]
								<p>Comments: sz19_lya2_etc_scaled_pAV0.50.txt; cos,fuv,g160m,c1623,psa,mjd#59670; fp-pos=None, segment=None) Input file: targets_up_to_May30-2022.csv Spectral type: K0 ; A_V: 1.5 ; Distance (pc): 160 M*: 2.08 ; log(dm/dt): -7.63 For exptime=2308.7 s, spectral region: 1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623 The exptime for this c1623 exposure has been halved because c1589 & c1623 target the same line. A factor of 2.0 has been applied to the exptime in each exposure. global countrate (brightest segment): 65.6 cts/s/segment brightest pixel: 0.002 cts/s/pix at 1548.4 A Calculation performed 2021-06-18T15:05:00, v0.24</p> <p>----- The text above was done for the initial calculation of exposure times and is from the original .prop file. ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: COS.sp.1527600 * For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: COS.sp.1527598</p>	

Exposures

Proposal 16597 - SZ19-COS (1D) - ULLYSES Late K- and Early M-type T Tauri Survey Stars in Cha I

4	G130M/129 (1) SZ19 1-4 (COS.sp.152 7606)	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=53 00; FP-POS=4	2550 Secs (2550 Secs) [==>]	[3]
<p><i>Comments: sz19_lya2_etc_scaled_pAV0.50.txt; cos.fuv.g130m.c1291,psa.mjd#59670; fp-pos=None, segment=None)</i> <i>Input file: targets_up_to_May30-2022.csv</i> <i>Spectral type: K0 ; A_V: 1.5 ; Distance (pc): 160</i> <i>M*: 2.08 ; log(dm/dt): -7.63</i> <i>For exptime=14189.5 s, spectral region:</i> <i>1239.0 +- 1.0 A achieves SNR=10.0 / 6-pix-resel</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 281.9 cts/s/segment</i> <i>brightest pixel: 0.001 cts/s/pix at 1304.9 A</i> <i>Calculation performed 2021-06-18T15:05:02, v0.24</i></p> <p>----- <i>The text above was done for the initial calculation of exposure times and is from the original .prop file.</i> <i>ETC runs were done for two cases:</i> <i>* For exposure time, a template with an extra A_V of 0.5 were used: COS.sp.1527606</i> <i>* For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: COS.sp.1527609</i></p>						



Visit	<p>Proposal 16597, SZ19-COS (1E), completed</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 24-JAN-2022:00:00:00 AND 11-MAY-2022:00:00:00</p> <p><i>Comments: vstatus; 1E; SZ19; P/COS approved for submission; P/DJS 02/08/21 ; intrev: complete ; P/RS 29/07/21 vcheck; Enter targ name & Inst. & Resp. Sci.; SZ19 'VI DI CHA' ; COS ; DJS vcheck; ETC numbers entered in APT?; completed vcheck; Any screening violations?; None vcheck; M-dwarf check complete and added to box folder?; N/A vcheck; S/N ETC calcs done & documented?; yes vcheck; Field images checked & saved?; yes vcheck; Selected ACQ strategy?; ACQ/IMAGE vcheck; Possible ACQ or Sci spoilers?; none vcheck; Field BOT clear?; yes vcheck; Visual BOT check for stars not in catalog?; yes vcheck; Orbit packing finalized?; yes vcheck; Buffer times optimized?; yes vcheck; Verify visit grouping correct; N/A vcheck; phase constraint for ground based observations added?; N/A vcheck; BETWEENS for coordinated observations added?; N/A vcheck; Is visit ready for int. review?; yes Allocated COS orbits = 15</i></p>																																	
	<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>SZ19</td> <td>RA: 11 07 20.6153 (166.8358971d)</td> <td>Proper Motion RA: -22.552486155521002 mas/yr</td> <td>V=10.93</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td>Alt Name1: DI-CHA</td> <td>Dec: -77 38 7.29 (-77.63536d)</td> <td>Proper Motion Dec: 1.213864229788 mas/yr</td> <td>SpT=K0; A_V=1.50; U=11.0; V=10.9</td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: J11072074-7738073</td> <td>Equinox: J2000</td> <td>Parallax: 0.005291329565933"</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Epoch of Position: 2016</td> <td></td> <td></td> </tr> </tbody> </table> <p><i>Comments: Sz19 : DI Cha, J11072074-7738073 Region: Cha I Simbad: https://simbad.u-strasbg.fr/simbad/sim-id?Ident=SZ+19&NbIdent=1&Radius=2&Radius.unit=arcmin&submit=submit+id Target coordinates are from Gaia DR2. Spectral type: K0 ; A_V: 1.5 ; Distance (pc): 160 M*: 2.08 ; log(dm/dt): -7.63 Input file: targets_up_to_May30-2022.csv sz19_lya2_etc_scaled_pAV0.50.txt Calculation performed 2021-06-18T15:05:02, 0.24</i></p> <hr/> <p><i>tstatus; SZ19; P/COS approved for submission; S/STIS approved for submission; P/DJS 02/08/21; S/DJS 02/08/21 tcheck; APT/SIMBAD target names: ; SZ19 'VI DI CHA' tcheck; Target info verification status?; OK tcheck; Coordinates & P.M. verified, epoch checked?; Changed to 2016 from 2015.5 tcheck; Adopted SED compared to Observations?; N/A Category=STAR Description=[T TAURI STAR, PRE-MAIN SEQUENCE STAR] Extended=NO</i></p>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	SZ19	RA: 11 07 20.6153 (166.8358971d)	Proper Motion RA: -22.552486155521002 mas/yr	V=10.93	Reference Frame: ICRS		Alt Name1: DI-CHA	Dec: -77 38 7.29 (-77.63536d)	Proper Motion Dec: 1.213864229788 mas/yr	SpT=K0; A_V=1.50; U=11.0; V=10.9			Alt Name2: J11072074-7738073	Equinox: J2000	Parallax: 0.005291329565933"						Epoch of Position: 2016	
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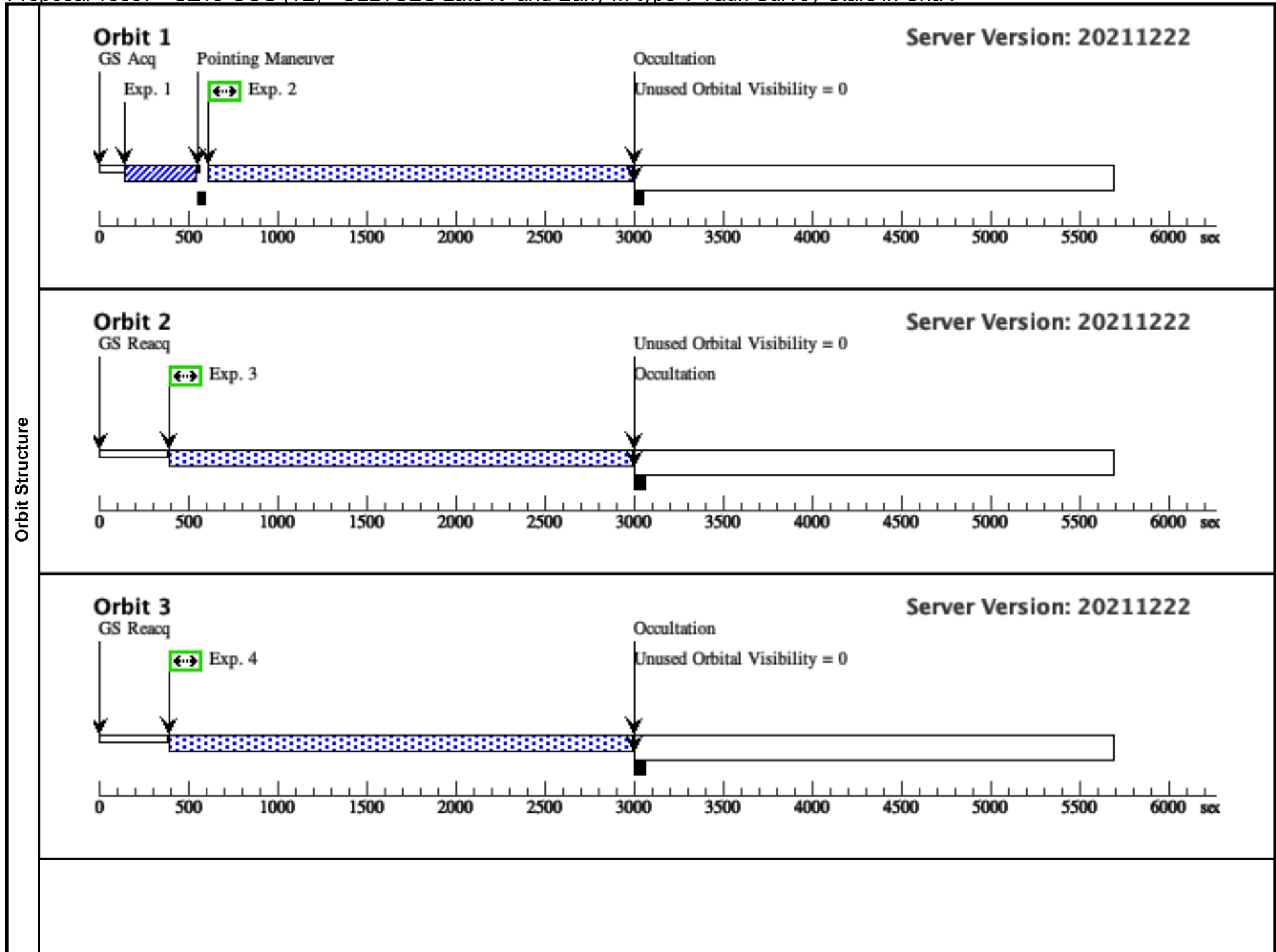
Proposal 16597 - SZ19-COS (1E) - ULLYSES Late K- and Early M-type T Tauri Survey Stars in Cha I

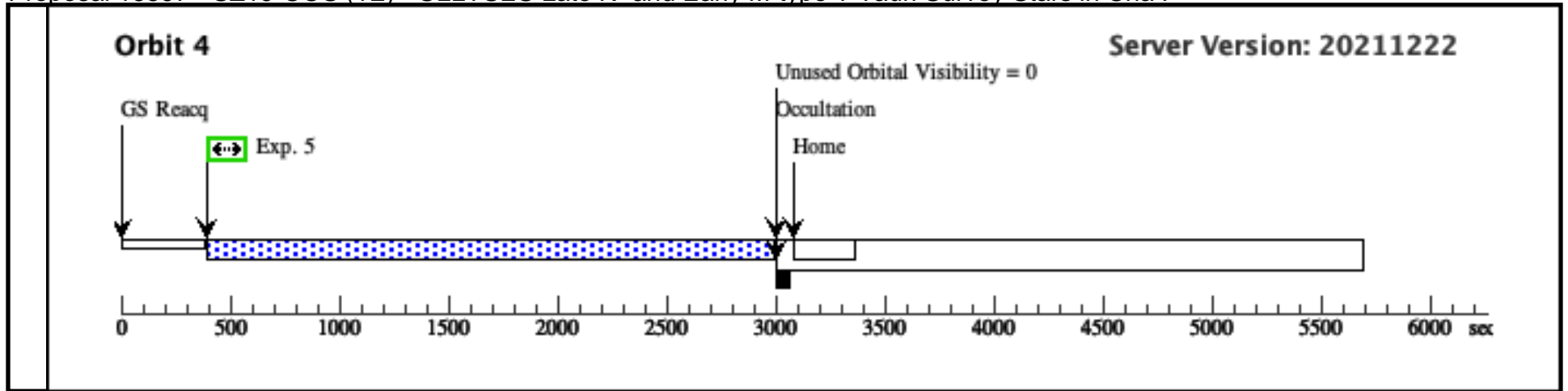
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/Image (COS.ta.152 7582)	(1) SZ19	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				46 Secs (46 Secs)	
								[==>]	[1]
								<p>Comments: ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: COS.ta.1527582 * For BOP, a template with 4x the flux and no additional extinction was used: COS.sa.1527580</p>	
2	G130M/129 1-3 (COS.sp.152 7606)	(1) SZ19	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=53 00; FP-POS=3			2210 Secs (2210 Secs)	
								[==>]	[1]
								<p>Comments: sz19_lya2_etc_scaled_pAV0.50.txt; cos,fuv,g130m,c1291,psa,mjd#59670; fp-pos=None, segment=None) Input file: targets_up_to_May30-2022.csv Spectral type: K0 ; A_V: 1.5 ; Distance (pc): 160 M*: 2.08 ; log(dm/dt): -7.63 For exptime=14189.5 s, spectral region: 1239.0 +- 1.0 A achieves SNR=10.0 / 6-pix-resel A factor of 2.0 has been applied to the exptime in each exposure. global countrate (brightest segment): 281.9 cts/s/segment brightest pixel: 0.001 cts/s/pix at 1304.9 A Calculation performed 2021-06-18T15:05:02, v0.24</p> <p>----- The text above was done for the initial calculation of exposure times and is from the original .prop file. ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: COS.sp.1527606 * For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: COS.sp.1527609</p>	
3	G130M/129 1-3 (COS.sp.152 7606)	(1) SZ19	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=53 00; FP-POS=3			2552 Secs (2552 Secs)	
								[==>]	[2]
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Exposures

Proposal 16597 - SZ19-COS (1E) - ULLYSES Late K- and Early M-type T Tauri Survey Stars in Cha I

4	G130M/129 (1) SZ19 1-3 (COS.sp.152 7606)	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=53 00; FP-POS=3	2552 Secs (2552 Secs) [==>]	[3]
<p><i>Comments: sz19_lya2_etc_scaled_pAV0.50.txt; cos.fuv.g130m.c1291.psa.mjd#59670; fp-pos=None, segment=None)</i> <i>Input file: targets_up_to_May30-2022.csv</i> <i>Spectral type: K0 ; A_V: 1.5 ; Distance (pc): 160</i> <i>M*: 2.08 ; log(dm/dt): -7.63</i> <i>For exptime=14189.5 s, spectral region:</i> <i>1239.0 +- 1.0 A achieves SNR=10.0 / 6-pix-resel</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 281.9 cts/s/segment</i> <i>brightest pixel: 0.001 cts/s/pix at 1304.9 A</i> <i>Calculation performed 2021-06-18T15:05:02, v0.24</i></p> <p>----- <i>The text above was done for the initial calculation of exposure times and is from the original .prop file.</i> <i>ETC runs were done for two cases:</i> <i>* For exposure time, a template with an extra A_V of 0.5 were used: COS.sp.1527606</i> <i>* For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: COS.sp.1527609</i></p>						
5	G130M/129 (1) SZ19 1-3 (COS.sp.152 7606)	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=53 00; FP-POS=3	2552 Secs (2552 Secs) [==>]	[4]
<p><i>Comments: sz19_lya2_etc_scaled_pAV0.50.txt; cos.fuv.g130m.c1291.psa.mjd#59670; fp-pos=None, segment=None)</i> <i>Input file: targets_up_to_May30-2022.csv</i> <i>Spectral type: K0 ; A_V: 1.5 ; Distance (pc): 160</i> <i>M*: 2.08 ; log(dm/dt): -7.63</i> <i>For exptime=14189.5 s, spectral region:</i> <i>1239.0 +- 1.0 A achieves SNR=10.0 / 6-pix-resel</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 281.9 cts/s/segment</i> <i>brightest pixel: 0.001 cts/s/pix at 1304.9 A</i> <i>Calculation performed 2021-06-18T15:05:02, v0.24</i></p> <p>----- <i>The text above was done for the initial calculation of exposure times and is from the original .prop file.</i> <i>ETC runs were done for two cases:</i> <i>* For exposure time, a template with an extra A_V of 0.5 were used: COS.sp.1527606</i> <i>* For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: COS.sp.1527609</i></p>						





Visit	<p>Proposal 16597, SZ19-COS (1F), completed</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 24-JAN-2022:00:00:00 AND 11-MAY-2022:00:00:00</p> <p><i>Comments: vstatus; 1F; SZ19; P/COS approved for submission; P/DJS 02/08/21 ; intrev: complete ; P/RS 29/07/21 vcheck; Enter targ name & Inst. & Resp. Sci.; SZ19 'VI DI CHA' ; COS ; DJS vcheck; ETC numbers entered in APT?; completed vcheck; Any screening violations?; None vcheck; M-dwarf check complete and added to box folder?; N/A vcheck; S/N ETC calcs done & documented?; yes vcheck; Field images checked & saved?; yes vcheck; Selected ACQ strategy?; ACQ/IMAGE vcheck; Possible ACQ or Sci spoilers?; none vcheck; Field BOT clear?; yes vcheck; Visual BOT check for stars not in catalog?; yes vcheck; Orbit packing finalized?; yes vcheck; Buffer times optimized?; yes vcheck; Verify visit grouping correct; N/A vcheck; phase constraint for ground based observations added?; N/A vcheck; BETWEENS for coordinated observations added?; N/A vcheck; Is visit ready for int. review?; yes Allocated COS orbits = 15</i></p>																																	
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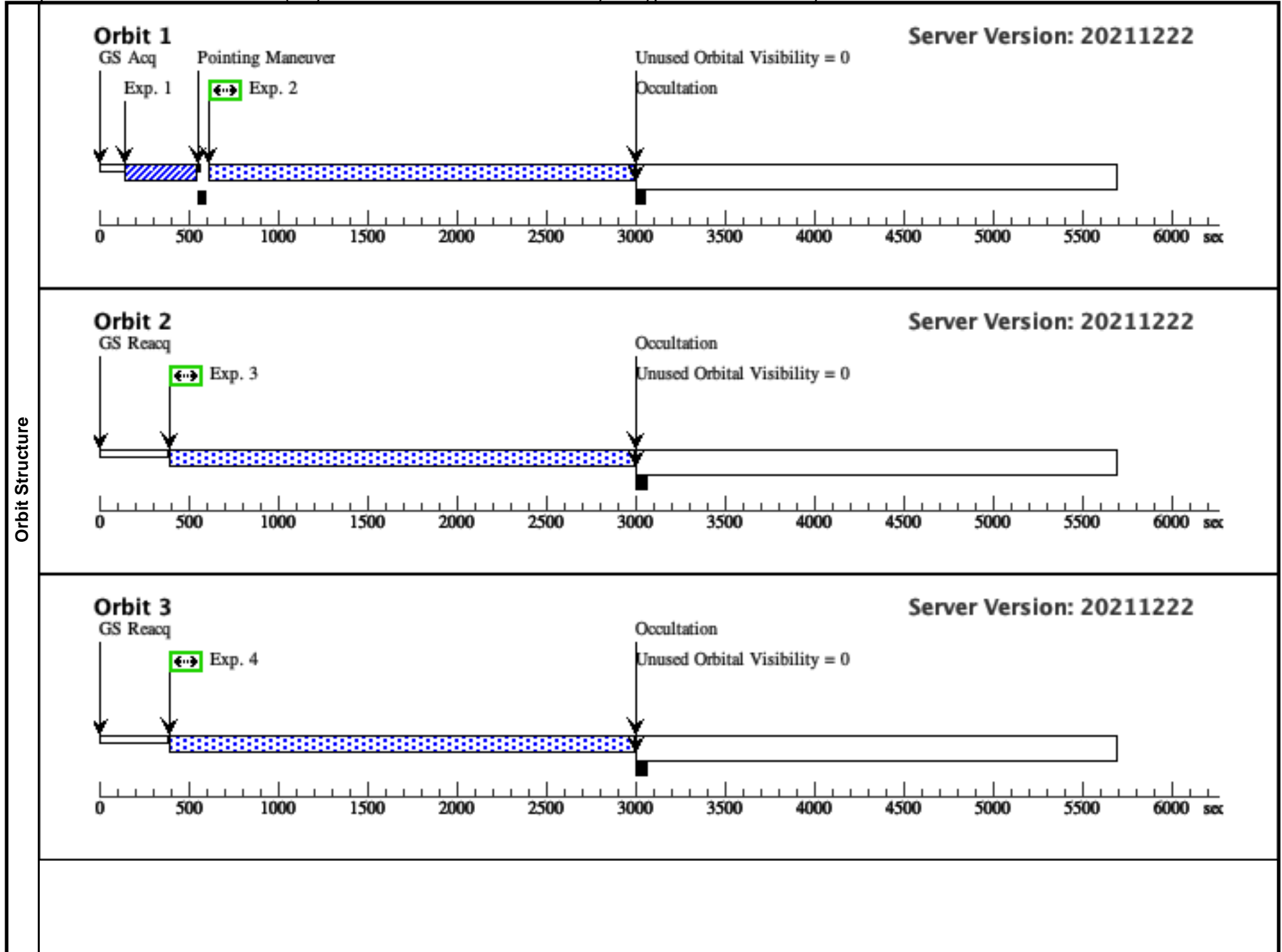
Proposal 16597 - SZ19-COS (1F) - ULLYSES Late K- and Early M-type T Tauri Survey Stars in Cha I

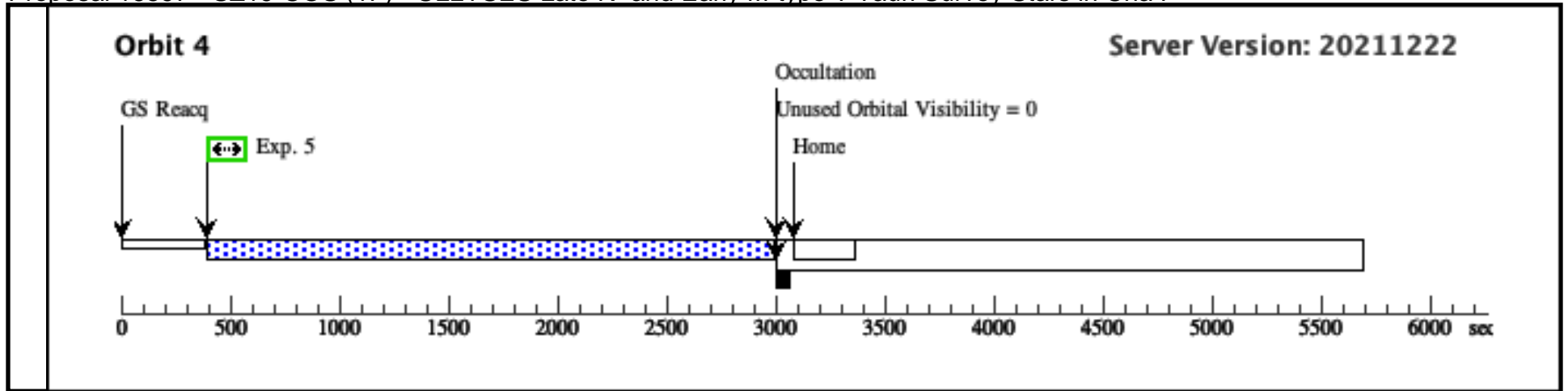
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/Image (COS.ta.152 7582)	(1) SZ19	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				46 Secs (46 Secs)	
								[==>]	[1]
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2	G130M/129 1-4 (COS.sp.152 7606)	(1) SZ19	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=53 00; FP-POS=4			2210 Secs (2210 Secs)	
								[==>]	[1]
								<p>Comments: sz19_lya2_etc_scaled_pAV0.50.txt; cos,fuv,g130m,c1291,psa,mjd#59670; fp-pos=None, segment=None) Input file: targets_up_to_May30-2022.csv Spectral type: K0 ; A_V: 1.5 ; Distance (pc): 160 M*: 2.08 ; log(dm/dt): -7.63 For exptime=14189.5 s, spectral region: 1239.0 +- 1.0 A achieves SNR=10.0 / 6-pix-resel A factor of 2.0 has been applied to the exptime in each exposure. global countrate (brightest segment): 281.9 cts/s/segment brightest pixel: 0.001 cts/s/pix at 1304.9 A Calculation performed 2021-06-18T15:05:02, v0.24</p> <p>----- The text above was done for the initial calculation of exposure times and is from the original .prop file. ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: COS.sp.1527606 * For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: COS.sp.1527609</p>	
3	G130M/129 1-4 (COS.sp.152 7606)	(1) SZ19	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=53 00; FP-POS=4			2552 Secs (2552 Secs)	
								[==>]	[2]
								<p>Comments: sz19_lya2_etc_scaled_pAV0.50.txt; cos,fuv,g130m,c1291,psa,mjd#59670; fp-pos=None, segment=None) Input file: targets_up_to_May30-2022.csv Spectral type: K0 ; A_V: 1.5 ; Distance (pc): 160 M*: 2.08 ; log(dm/dt): -7.63 For exptime=14189.5 s, spectral region: 1239.0 +- 1.0 A achieves SNR=10.0 / 6-pix-resel A factor of 2.0 has been applied to the exptime in each exposure. global countrate (brightest segment): 281.9 cts/s/segment brightest pixel: 0.001 cts/s/pix at 1304.9 A Calculation performed 2021-06-18T15:05:02, v0.24</p> <p>----- The text above was done for the initial calculation of exposure times and is from the original .prop file. ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: COS.sp.1527606 * For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: COS.sp.1527609</p>	

Exposures

Proposal 16597 - SZ19-COS (1F) - ULLYSES Late K- and Early M-type T Tauri Survey Stars in Cha I

4	G130M/129 (1) SZ19 1-4 (COS.sp.152 7606)	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=53 00; FP-POS=4	2552 Secs (2552 Secs) [==>]	[3]
<p><i>Comments: sz19_lya2_etc_scaled_pAV0.50.txt; cos.fuv.g130m.c1291.psa.mjd#59670; fp-pos=None, segment=None)</i> <i>Input file: targets_up_to_May30-2022.csv</i> <i>Spectral type: K0 ; A_V: 1.5 ; Distance (pc): 160</i> <i>M*: 2.08 ; log(dm/dt): -7.63</i> <i>For exptime=14189.5 s, spectral region:</i> <i>1239.0 +- 1.0 A achieves SNR=10.0 / 6-pix-resel</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 281.9 cts/s/segment</i> <i>brightest pixel: 0.001 cts/s/pix at 1304.9 A</i> <i>Calculation performed 2021-06-18T15:05:02, v0.24</i></p> <p>----- <i>The text above was done for the initial calculation of exposure times and is from the original .prop file.</i> <i>ETC runs were done for two cases:</i> <i>* For exposure time, a template with an extra A_V of 0.5 were used: COS.sp.1527606</i> <i>* For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: COS.sp.1527609</i></p>						
5	G130M/129 (1) SZ19 1-4 (COS.sp.152 7606)	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=53 00; FP-POS=4	2552 Secs (2552 Secs) [==>]	[4]
<p><i>Comments: sz19_lya2_etc_scaled_pAV0.50.txt; cos.fuv.g130m.c1291.psa.mjd#59670; fp-pos=None, segment=None)</i> <i>Input file: targets_up_to_May30-2022.csv</i> <i>Spectral type: K0 ; A_V: 1.5 ; Distance (pc): 160</i> <i>M*: 2.08 ; log(dm/dt): -7.63</i> <i>For exptime=14189.5 s, spectral region:</i> <i>1239.0 +- 1.0 A achieves SNR=10.0 / 6-pix-resel</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 281.9 cts/s/segment</i> <i>brightest pixel: 0.001 cts/s/pix at 1304.9 A</i> <i>Calculation performed 2021-06-18T15:05:02, v0.24</i></p> <p>----- <i>The text above was done for the initial calculation of exposure times and is from the original .prop file.</i> <i>ETC runs were done for two cases:</i> <i>* For exposure time, a template with an extra A_V of 0.5 were used: COS.sp.1527606</i> <i>* For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: COS.sp.1527609</i></p>						





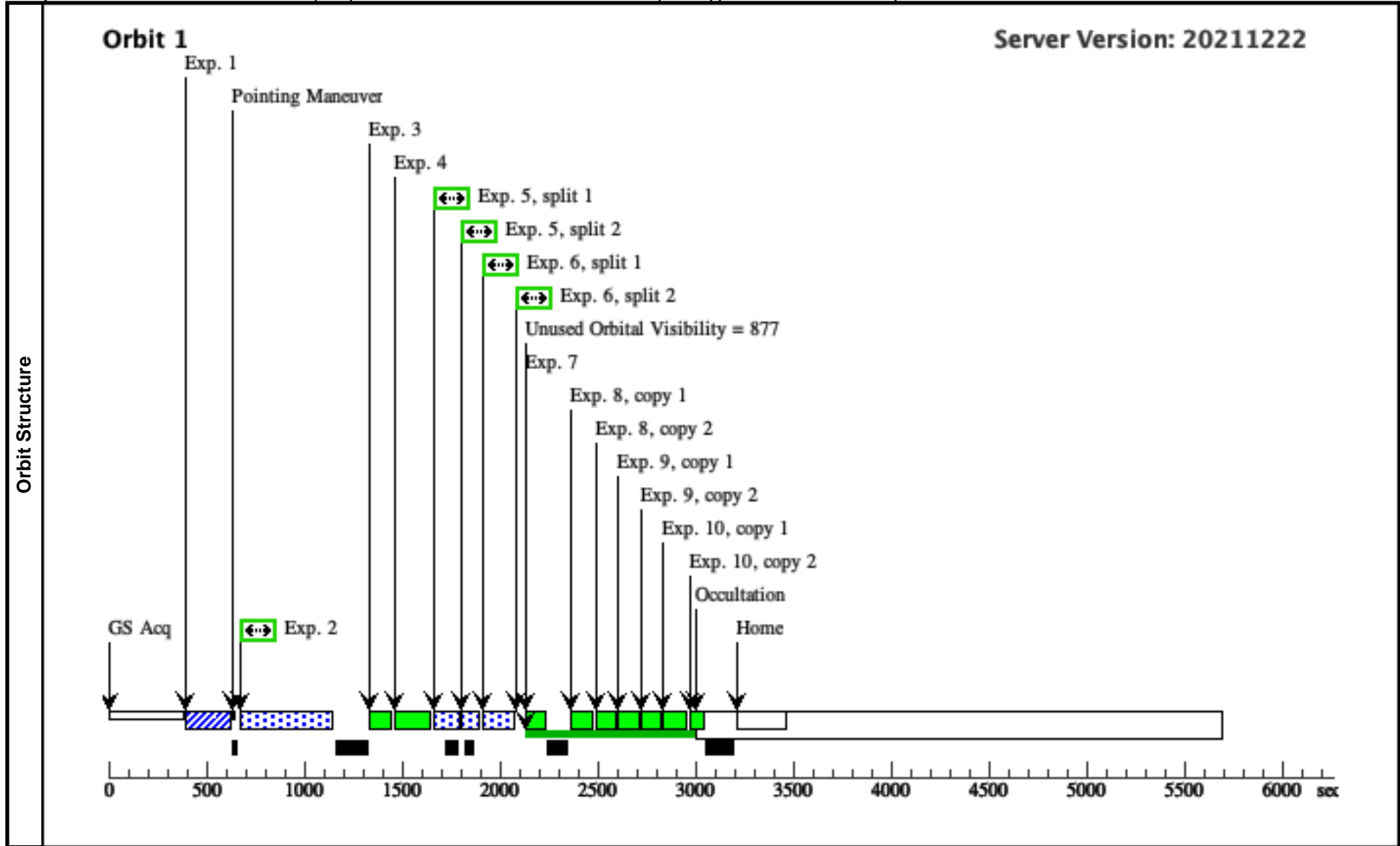
Visit	<p>Proposal 16597, SZ19-STIS (1S), completed</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD</p> <p>Special Requirements: SCHED 100%; BETWEEN 24-JAN-2022:00:00:00 AND 11-MAY-2022:00:00:00</p> <p><i>Comments: vstatus; 1S; SZ19; P/STIS approved for submission; P/DJS 02/08/21 ; intrev: complete ; S/RS 29/07/21 vcheck; Enter targ name & Inst. & Resp. Sci.; SZ19 'VI DI CHA' ; STIS ; DJS vcheck; ETC numbers entered in APT?; completed vcheck; Any screening violations?; None vcheck; M-dwarf check complete and added to box folder?; N/A vcheck; S/N ETC calcs done & documented?; yes vcheck; Field images checked & saved?; yes vcheck; Selected ACQ strategy?; N/A vcheck; Possible ACQ or Sci spoilers?; none vcheck; Field BOT clear?; yes vcheck; Visual BOT check for stars not in catalog?; yes vcheck; Orbit packing finalized?; yes vcheck; Buffer times optimized?; N/A vcheck; Verify visit grouping correct; N/A vcheck; phase constraint for ground based observations added?; N/A vcheck; BETWEENS for coordinated observations added?; N/A vcheck; Is visit ready for int. review?; yes Allocated STIS orbits = 1</i></p>																																		
	<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>SZ19</td> <td>RA: 11 07 20.6153 (166.8358971d)</td> <td>Proper Motion RA: -22.552486155521002 mas/yr</td> <td>V=10.93</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td>Alt Name1: DI-CHA</td> <td>Dec: -77 38 7.29 (-77.63536d)</td> <td>Proper Motion Dec: 1.213864229788 mas/yr</td> <td>SpT=K0; A_V=1.50; U=11.0; V=10.9</td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: J11072074-7738073</td> <td>Equinox: J2000</td> <td>Parallax: 0.005291329565933"</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Epoch of Position: 2016</td> <td></td> <td></td> </tr> </tbody> </table> <p><i>Comments: Sz19 : DI Cha, J11072074-7738073 Region: Cha I Simbad: https://simbad.u-strasbg.fr/simbad/sim-id?Ident=SZ+19&NbIdent=1&Radius=2&Radius.unit=arcmin&submit=submit+id Target coordinates are from Gaia DR2. Spectral type: K0 ; A_V: 1.5 ; Distance (pc): 160 M*: 2.08 ; log(dm/dt): -7.63 Input file: targets_up_to_May30-2022.csv sz19_lya2_etc_scaled_pAV0.50.txt Calculation performed 2021-06-18T15:05:02, 0.24</i></p> <hr/> <p><i>tstatus; SZ19; P/COS approved for submission; S/STIS approved for submission; P/DJS 02/08/21; S/DJS 02/08/21 tcheck; APT/SIMBAD target names: ; SZ19 'VI DI CHA' tcheck; Target info verification status?; OK tcheck; Coordinates & P.M. verified, epoch checked?; Changed to 2016 from 2015.5 tcheck; Adopted SED compared to Observations?; N/A Category=STAR Description=[T TAURI STAR, PRE-MAIN SEQUENCE STAR] Extended=NO</i></p>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	SZ19	RA: 11 07 20.6153 (166.8358971d)	Proper Motion RA: -22.552486155521002 mas/yr	V=10.93	Reference Frame: ICRS		Alt Name1: DI-CHA	Dec: -77 38 7.29 (-77.63536d)	Proper Motion Dec: 1.213864229788 mas/yr	SpT=K0; A_V=1.50; U=11.0; V=10.9			Alt Name2: J11072074-7738073	Equinox: J2000	Parallax: 0.005291329565933"						Epoch of Position: 2016	
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																														
(1)	SZ19	RA: 11 07 20.6153 (166.8358971d)	Proper Motion RA: -22.552486155521002 mas/yr	V=10.93	Reference Frame: ICRS																														
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			Epoch of Position: 2016																																

Proposal 16597 - SZ19-STIS (1S) - ULLYSES Late K- and Early M-type T Tauri Survey Stars in Cha I

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ (STIS.ta.1527639)	(1) SZ19	STIS/CCD, ACQ, F28X50LP	MIRROR			0.1 Secs (0.1 Secs) [==>]	[1]	
	<p>Comments: ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: STIS.ta.1527639 * For saturation, a template with 4x the flux and no additional extinction was used: STIS.ta.1527641</p>									
	2	G230L/2376 (STIS.sp.1527681)	(1) SZ19	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	WAVECAL=NO; BUFFER-TIME=65 9.0			320 Secs (320 Secs) [==>]	[1]
	<p>Comments: sz19_lya2_etc_scaled_pAV0.50.txt; stis,nuvmama,g230l,c2376,52x2,mjd#59670 Input file: targets_up_to_May30-2022.csv Spectral type: K0 ; A_V: 1.5 ; Distance (pc): 160 M*: 2.08 ; log(dm/dt): -7.63 For exptime=160.2 s, spectral region: 2800.0 +- 15.0 A achieves SNR=20.0 / 2-pix-resel A factor of 2.0 has been applied to the exptime in each exposure. global countrate (brightest segment): 2425.4 cts/s/segment brightest pixel: 0.516 cts/s/pix at 2788.8 A Calculation performed 2021-06-18T15:05:02, v0.24</p> <p>----- The text above was done for the initial calculation of exposure times and is from the original .prop file. ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: STIS.sp.1527681 * For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: STIS.sp.1527682</p>									
	3	G230L/2376 WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				[==>]	[1]
4	G430L/4300 WAVECAL	WAVE	STIS/CCD, ACCUM, 52X0.1	G430L 4300 A				[==>]	[1]	
5	G430L/4300 (STIS.sp.1527679)	(1) SZ19	STIS/CCD, ACCUM, 52X2	G430L 4300 A	WAVECAL=NO; CR-SPLIT=2; GAIN=1			107 Secs (107 Secs) [==>(Split 1)] [==>(Split 2)]	[1]	
<p>Comments: sz19_lya2_etc_scaled_pAV0.50.txt; stis,ccd,g430l,c4300,52x2,mjd#59670 WARNING: operating mode = ACCUM Input file: targets_up_to_May30-2022.csv Spectral type: K0 ; A_V: 1.5 ; Distance (pc): 160 M*: 2.08 ; log(dm/dt): -7.63 For exptime=52.2 s, n_reads=2, spectral region: 4000.0 +- 5.0 A achieves SNR=20.0 / 2-pix-resel A factor of 2.0 has been applied to the exptime in each exposure. global countrate (brightest segment): 47601.9 cts/s/segment brightest pixel: 26.177 cts/s/pix at 4871.0 A Calculation performed 2021-06-18T15:05:02, v0.24</p> <p>----- The text above was done for the initial calculation of exposure times and is from the original .prop file. ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: STIS.sp.1527679 * For saturation, a template with 4x the flux and no additional extinction was used: STIS.sp.1527680</p>										

Proposal 16597 - SZ19-STIS (1S) - ULLYSES Late K- and Early M-type T Tauri Survey Stars in Cha I

6	G750L/7751 (1) SZ19 (STIS.sp.15 27678)	STIS/CCD, ACCUM, 52X2	G750L 7751 A	WAVECAL=NO; CR-SPLIT=2; GAIN=1	6 Secs (6 Secs) [==>(Split 1)] [==>(Split 2)]	[1]
<p><i>Comments: sz19_lya2_etc_scaled_pAV0.50.txt; stis.ccd,g750l,c7751,52x2,mjd#59670</i> <i>WARNING: operating mode = ACCUM</i> <i>Input file: targets_up_to_May30-2022.csv</i> <i>Spectral type: K0 ; A_V: 1.5 ; Distance (pc): 160</i> <i>M*: 2.08 ; log(dm/dt): -7.63</i> <i>For exptime=3.1 s, n_reads=2, spectral region:</i> <i>5700.0 +- 5.0 A achieves SNR=20.0 / 2-pix-resel</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 134783.5 cts/s/segment</i> <i>brightest pixel: 241.966 cts/s/pix at 6563.9 A</i> <i>Calculation performed 2021-06-18T15:05:02, v0.24</i></p> <p>----- <i>The text above was done for the initial calculation of exposure times and is from the original .prop file.</i> <i>ETC runs were done for two cases:</i> <i>* For exposure time, a template with an extra A_V of 0.5 were used: STIS.sp.1527678</i> <i>* For saturation, a template with 4x the flux and no additional extinction was used: STIS.sp.1527672</i></p>						
7	G750L/7751 WAVE WAVECAL	STIS/CCD, ACCUM, 52X0.1	G750L 7751 A		[==>]	[1]
8	G750L/7751 CCDFLAT CCDFLAT 1	STIS/CCD, ACCUM, 0.3X0.09	G750L 7751 A		[==>(Copy 1)] [==>(Copy 2)]	[1]
9	G750L/7751 CCDFLAT CCDFLAT 2	STIS/CCD, ACCUM, 52X0.1	G750L 7751 A		[==>(Copy 1)] [==>(Copy 2)]	[1]
10	G750L/7751 CCDFLAT CCDFLAT 3	STIS/CCD, ACCUM, 52X2	G750L 7751 A		[==>(Copy 1)] [==>(Copy 2)]	[1]



Visit	<p>Proposal 16597, V-VZ-CHA-COS (2C), implementation</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 24-JAN-2022:00:00:00 AND 14-MAY-2022:00:00:00; GROUP 2C,2D,2E,2F,2S WITHIN 2D</p> <p><i>Comments: vstatus; 2C; V-VZ-CHA; P/COS approved for submission; P/DJS 02/08/21 ; intrev: complete ; P/RS 29/07/21</i></p> <p><i>vcheck; Enter targ name & Inst. & Resp. Sci.; V-VZ-CHA 'V* VZ Cha' ; COS ; DJS</i></p> <p><i>vcheck; ETC numbers entered in APT?; completed</i></p> <p><i>vcheck; Any screening violations?; None</i></p> <p><i>vcheck; M-dwarf check complete and added to box folder?; N/A</i></p> <p><i>vcheck; S/N ETC calcs done & documented?; yes</i></p> <p><i>vcheck; Field images checked & saved?; yes</i></p> <p><i>vcheck; Selected ACQ strategy?; ACQ/IMAGE</i></p> <p><i>vcheck; Possible ACQ or Sci spoilers?; none</i></p> <p><i>vcheck; Field BOT clear?; yes</i></p> <p><i>vcheck; Visual BOT check for stars not in catalog?; yes</i></p> <p><i>vcheck; Orbit packing finalized?; yes</i></p> <p><i>vcheck; Buffer times optimized?; yes</i></p> <p><i>vcheck; Verify visit grouping correct; N/A</i></p> <p><i>vcheck; phase constraint for ground based observations added?; N/A</i></p> <p><i>vcheck; BETWEENS for coordinated observations added?; N/A</i></p> <p><i>vcheck; Is visit ready for int. review?; yes</i></p> <p><i>Allocated COS orbits = 13</i></p>																																		
	<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>V-VZ-CHA</td> <td>RA: 11 09 23.6760 (167.3486500d)</td> <td>Proper Motion RA: -21.599074857508 mas/yr</td> <td>V=12.94</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td>Alt Name1: T40</td> <td>Dec: -76 23 20.86 (-76.38913d)</td> <td>Proper Motion Dec: -0.33858656361 mas/yr</td> <td>SpT=M0.5; A_V=1.20; U=12.7;</td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: J11092379-7623207</td> <td>Equinox: J2000</td> <td>Parallax: 0.005232157973992"</td> <td>V=12.9</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Epoch of Position: 2016</td> <td></td> <td></td> </tr> </tbody> </table> <p><i>Comments: V-VZ-Cha : T40, J11092379-7623207</i></p> <p><i>Region: Cha I</i></p> <p><i>Simbad: https://simbad.u-strasbg.fr/simbad/sim-id?Ident=VZ+Cha&NbIdent=1&Radius=2&Radius.unit=arcmin&submit=submit+id</i></p> <p><i>Target coordinates are from Gaia DR2.</i></p> <p><i>Spectral type: M0.5 ; A_V: 1.2 ; Distance (pc): 160</i></p> <p><i>M*: 0.49 ; log(dm/dt): -7.33</i></p> <p><i>Input file: targets_up_to_May30-2022.csv</i></p> <p><i>t40_lya2_etc_scaled_pAV0.50.txt</i></p> <p><i>Calculation performed 2021-06-18T15:05:12, 0.24</i></p> <hr/> <p><i>tstatus: V-VZ-CHA; P/COS approved for submission; S/STIS approved for submission; P/DJS 02/08/21; S/DJS 02/08/21</i></p> <p><i>tcheck; APT/SIMBAD target names: ; V-VZ-CHA 'V* VZ Cha'</i></p> <p><i>tcheck; Target info verification status?; OK</i></p> <p><i>tcheck; Coordinates & P.M. verified, epoch checked?; Changed to 2016 from 2015.5</i></p> <p><i>tcheck; Adopted SED compared to Observations?; N/A</i></p> <p><i>Category=STAR</i></p> <p><i>Description=[T TAURI STAR, PRE-MAIN SEQUENCE STAR]</i></p> <p><i>Extended=NO</i></p>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	V-VZ-CHA	RA: 11 09 23.6760 (167.3486500d)	Proper Motion RA: -21.599074857508 mas/yr	V=12.94	Reference Frame: ICRS		Alt Name1: T40	Dec: -76 23 20.86 (-76.38913d)	Proper Motion Dec: -0.33858656361 mas/yr	SpT=M0.5; A_V=1.20; U=12.7;			Alt Name2: J11092379-7623207	Equinox: J2000	Parallax: 0.005232157973992"	V=12.9					Epoch of Position: 2016	
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																														
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			Epoch of Position: 2016																																

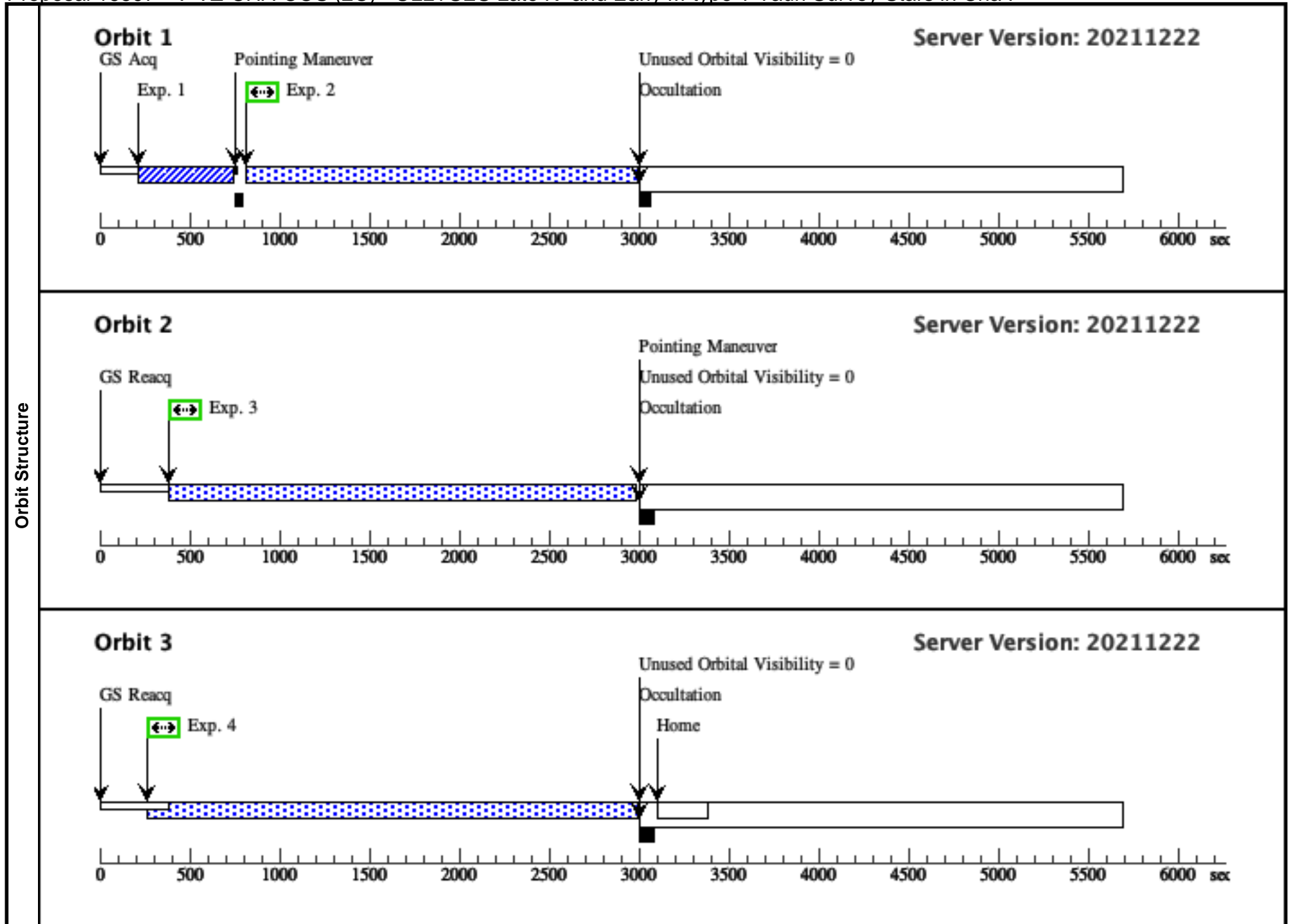
Proposal 16597 - V-VZ-CHA-COS (2C) - ULLYSES Late K- and Early M-type T Tauri Survey Stars in Cha I

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/Image (2) V-VZ-CHA (COS.ta.152 7702)	(2) V-VZ-CHA	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				145 Secs (145 Secs)	
								[==>]	[1]
								<p>Comments: ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: COS.ta.1527702 * For BOP, a template with 4x the flux and no additional extinction was used: COS.ta.1527704</p>	
2	G160M/158 9-3 (COS.sp.152 7705)	(2) V-VZ-CHA	COS/FUV, TIME-TAG, PSA	G160M 1589 A	G160M 50; FP-POS=3			1964 Secs (1964 Secs)	
								[==>]	[1]
								<p>Comments: t40_lya2_etc_scaled_pAV0.50.txt; cos,fuv,g160m,c1589,psa,mjd#59670; fp-pos=None, segment=None) Input file: targets_up_to_May30-2022.csv Spectral type: M0.5 ; A_V: 1.2 ; Distance (pc): 160 M*: 0.49 ; log(dm/dt): -7.33 For exptime=2864.1 s, spectral region: 1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623 The exptime for this c1589 exposure has been halved because c1589 & c1623 target the same line. A factor of 2.0 has been applied to the exptime in each exposure. global countrate (brightest segment): 89.9 cts/s/segment brightest pixel: 0.002 cts/s/pix at 1402.8 A Calculation performed 2021-06-18T15:05:08, v0.24</p> <p>----- The text above was done for the initial calculation of exposure times and is from the original .prop file. ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: COS.sp.1527705 * For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: COS.sp.1527708</p>	
<p>----- The text above was done for the initial calculation of exposure times and is from the original .prop file. ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: COS.sp.1527705 * For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: COS.sp.1527708</p>									
3	G160M/158 9-4 (COS.sp.152 7705)	(2) V-VZ-CHA	COS/FUV, TIME-TAG, PSA	G160M 1589 A	G160M 50; FP-POS=4			2552 Secs (2552 Secs)	
								[==>]	[2]
								<p>Comments: t40_lya2_etc_scaled_pAV0.50.txt; cos,fuv,g160m,c1589,psa,mjd#59670; fp-pos=None, segment=None) Input file: targets_up_to_May30-2022.csv Spectral type: M0.5 ; A_V: 1.2 ; Distance (pc): 160 M*: 0.49 ; log(dm/dt): -7.33 For exptime=2864.1 s, spectral region: 1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623 The exptime for this c1589 exposure has been halved because c1589 & c1623 target the same line. A factor of 2.0 has been applied to the exptime in each exposure. global countrate (brightest segment): 89.9 cts/s/segment brightest pixel: 0.002 cts/s/pix at 1402.8 A Calculation performed 2021-06-18T15:05:08, v0.24</p> <p>----- The text above was done for the initial calculation of exposure times and is from the original .prop file. ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: COS.sp.1527705 * For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: COS.sp.1527708</p>	
<p>----- The text above was done for the initial calculation of exposure times and is from the original .prop file. ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: COS.sp.1527705 * For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: COS.sp.1527708</p>									

Exposures

Proposal 16597 - V-VZ-CHA-COS (2C) - ULLYSES Late K- and Early M-type T Tauri Survey Stars in Cha I

<p>4 G130M/129 (2) V-VZ-CHA COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=33 1-3 1291 A 00; (COS.sp.152 FP-POS=3 7712)</p>	<p>2550 Secs (2550 Secs)</p>	
<p><i>Comments: t40_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59670; fp-pos=None, segment=None)</i> <i>Input file: targets_up_to_May30-2022.csv</i> <i>Spectral type: M0.5 ; A_V: 1.2 ; Distance (pc): 160</i> <i>M*: 0.49 ; log(dm/dt): -7.33</i> <i>For exptime=11358.9 s, spectral region:</i> <i>1239.0 +- 1.0 A achieves SNR=10.0 / 6-pix-resel</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 294.4 cts/s/segment</i> <i>brightest pixel: 0.002 cts/s/pix at 1402.7 A</i> <i>Calculation performed 2021-06-18T15:05:12, v0.24</i></p> <p>----- <i>The text above was done for the initial calculation of exposure times and is from the original .prop file.</i> <i>ETC runs were done for two cases:</i> <i>* For exposure time, a template with an extra A_V of 0.5 were used: COS.sp.1527712</i> <i>* For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: COS.sp.1527713</i></p>	<p>[==>]</p>	<p>[3]</p>



Proposal 16597 - V-VZ-CHA-COS (2D) - ULLYSES Late K- and Early M-type T Tauri Survey Stars in Cha I

Thu Apr 14 14:00:33 GMT 2022

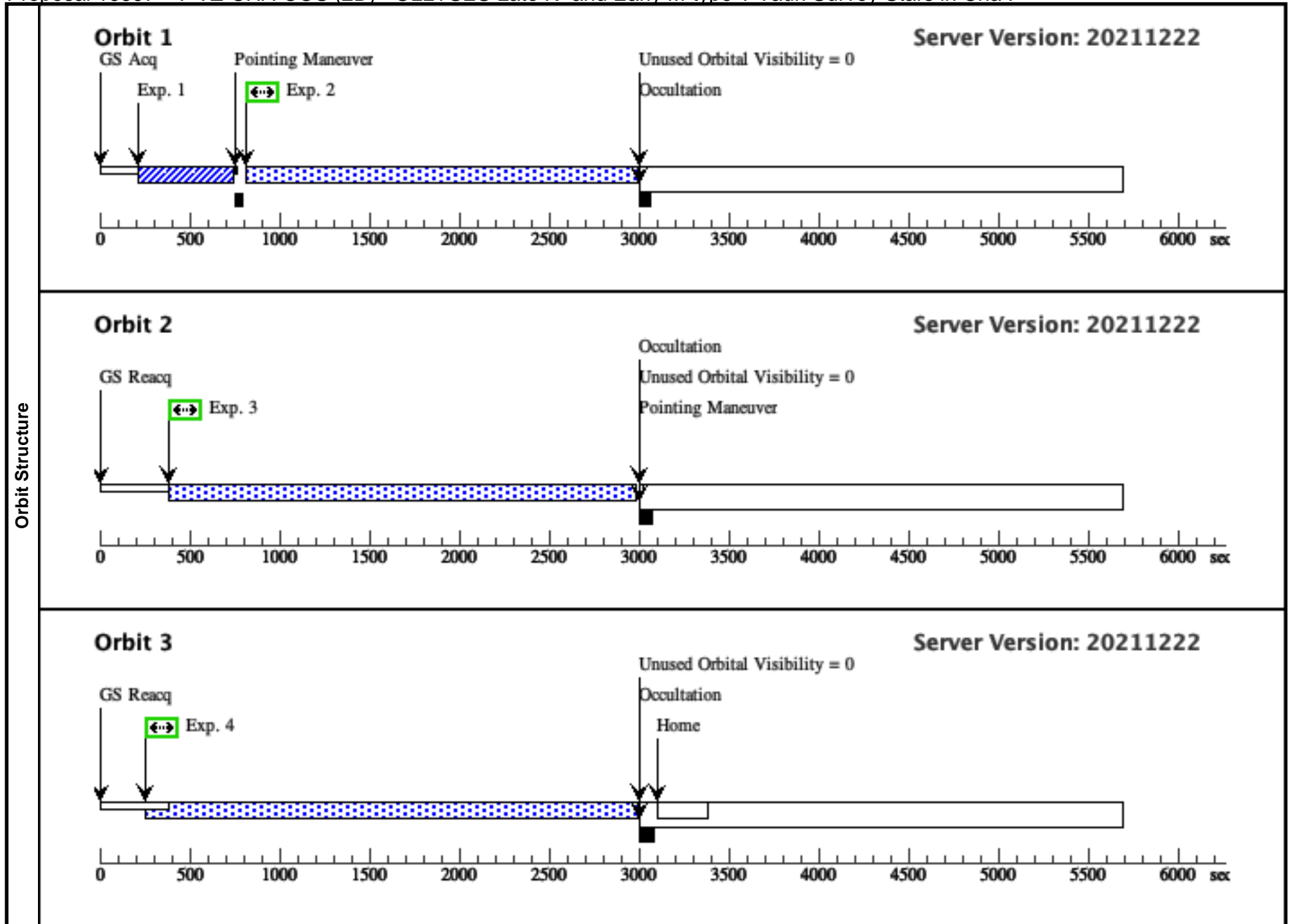
Visit	<p>Proposal 16597, V-VZ-CHA-COS (2D), implementation</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 24-JAN-2022:00:00:00 AND 14-MAY-2022:00:00:00</p> <p><i>Comments: vstatus; 2D: V-VZ-CHA; P/COS approved for submission; P/DJS 02/08/21 ; intrev: complete ; P/RS 29/07/21 vcheck; Enter targ name & Inst. & Resp. Sci.; V-VZ-CHA 'V* VZ Cha' ; COS ; DJS vcheck; ETC numbers entered in APT?; completed vcheck; Any screening violations?; None vcheck; M-dwarf check complete and added to box folder?; N/A vcheck; S/N ETC calcs done & documented?; yes vcheck; Field images checked & saved?; yes vcheck; Selected ACQ strategy?; ACQ/IMAGE vcheck; Possible ACQ or Sci spoilers?; none vcheck; Field BOT clear?; yes vcheck; Visual BOT check for stars not in catalog?; yes vcheck; Orbit packing finalized?; yes vcheck; Buffer times optimized?; yes vcheck; Verify visit grouping correct; N/A vcheck; phase constraint for ground based observations added?; N/A vcheck; BETWEENS for coordinated observations added?; N/A vcheck; Is visit ready for int. review?; yes Allocated COS orbits = 13</i></p>																																		
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Proposal 16597 - V-VZ-CHA-COS (2D) - ULLYSES Late K- and Early M-type T Tauri Survey Stars in Cha I

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	ACQ/Image (2) V-VZ-CHA (COS.ta.152 7702)	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				145 Secs (145 Secs) [==>]	[1]
	<p>Comments: ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: COS.ta.1527702 * For BOP, a template with 4x the flux and no additional extinction was used: COS.ta.1527704</p>								
	2	G160M/162 (2) V-VZ-CHA 3-1 (COS.sp.152 7710)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	50; FP-POS=1	BUFFER-TIME=39		1954 Secs (1954 Secs) [==>]	[1]
<p>Comments: t40_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1623,psa,mjd#59670; fp-pos=None, segment=None) Input file: targets_up_to_May30-2022.csv Spectral type: M0.5 ; A_V: 1.2 ; Distance (pc): 160 M*: 0.49 ; log(dm/dt): -7.33 For exptime=2795.6 s, spectral region: 1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623 The exptime for this c1623 exposure has been halved because c1589 & c1623 target the same line. A factor of 2.0 has been applied to the exptime in each exposure. global countrate (brightest segment): 87.8 cts/s/segment brightest pixel: 0.002 cts/s/pix at 1548.5 A Calculation performed 2021-06-18T15:05:10, v0.24</p> <p>----- The text above was done for the initial calculation of exposure times and is from the original .prop file. ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: COS.sp.1527710 * For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: COS.sp.1527709</p>									
3	G160M/162 (2) V-VZ-CHA 3-2 (COS.sp.152 7710)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	50; FP-POS=2	BUFFER-TIME=39		2552 Secs (2552 Secs) [==>]	[2]	
<p>Comments: t40_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1623,psa,mjd#59670; fp-pos=None, segment=None) Input file: targets_up_to_May30-2022.csv Spectral type: M0.5 ; A_V: 1.2 ; Distance (pc): 160 M*: 0.49 ; log(dm/dt): -7.33 For exptime=2795.6 s, spectral region: 1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623 The exptime for this c1623 exposure has been halved because c1589 & c1623 target the same line. A factor of 2.0 has been applied to the exptime in each exposure. global countrate (brightest segment): 87.8 cts/s/segment brightest pixel: 0.002 cts/s/pix at 1548.5 A Calculation performed 2021-06-18T15:05:10, v0.24</p> <p>----- The text above was done for the initial calculation of exposure times and is from the original .prop file. ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: COS.sp.1527710 * For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: COS.sp.1527709</p>									

Proposal 16597 - V-VZ-CHA-COS (2D) - ULLYSES Late K- and Early M-type T Tauri Survey Stars in Cha I

4	G130M/129 (2) V-VZ-CHA 1-4 (COS.sp.152 7712)	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=33 00; FP-POS=4	2550 Secs (2550 Secs) [==>]	[3]
<p><i>Comments: t40_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59670; fp-pos=None, segment=None)</i> <i>Input file: targets_up_to_May30-2022.csv</i> <i>Spectral type: M0.5 ; A_V: 1.2 ; Distance (pc): 160</i> <i>M*: 0.49 ; log(dm/dt): -7.33</i> <i>For exptime=11358.9 s, spectral region:</i> <i>1239.0 +- 1.0 A achieves SNR=10.0 / 6-pix-resel</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 294.4 cts/s/segment</i> <i>brightest pixel: 0.002 cts/s/pix at 1402.7 A</i> <i>Calculation performed 2021-06-18T15:05:12, v0.24</i></p> <p>----- <i>The text above was done for the initial calculation of exposure times and is from the original .prop file.</i> <i>ETC runs were done for two cases:</i> <i>* For exposure time, a template with an extra A_V of 0.5 were used: COS.sp.1527712</i> <i>* For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: COS.sp.1527713</i></p>						



Proposal 16597 - V-VZ-CHA-COS (2E) - ULLYSES Late K- and Early M-type T Tauri Survey Stars in Cha I

Thu Apr 14 14:00:33 GMT 2022

Visit	<p>Proposal 16597, V-VZ-CHA-COS (2E), implementation</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 24-JAN-2022:00:00:00 AND 14-MAY-2022:00:00:00</p> <p><i>Comments: vstatus; 2E; V-VZ-CHA; P/COS approved for submission; P/DJS 02/08/21 ; intrev: complete ; P/RS 29/07/21 vcheck; Enter targ name & Inst. & Resp. Sci.; V-VZ-CHA 'V* VZ Cha' ; COS ; DJS vcheck; ETC numbers entered in APT?; completed vcheck; Any screening violations?; None vcheck; M-dwarf check complete and added to box folder?; N/A vcheck; S/N ETC calcs done & documented?; yes vcheck; Field images checked & saved?; yes vcheck; Selected ACQ strategy?; ACQ/IMAGE vcheck; Possible ACQ or Sci spoilers?; none vcheck; Field BOT clear?; yes vcheck; Visual BOT check for stars not in catalog?; yes vcheck; Orbit packing finalized?; yes vcheck; Buffer times optimized?; yes vcheck; Verify visit grouping correct; N/A vcheck; phase constraint for ground based observations added?; N/A vcheck; BETWEENS for coordinated observations added?; N/A vcheck; Is visit ready for int. review?; yes Allocated COS orbits = 13</i></p>																																		
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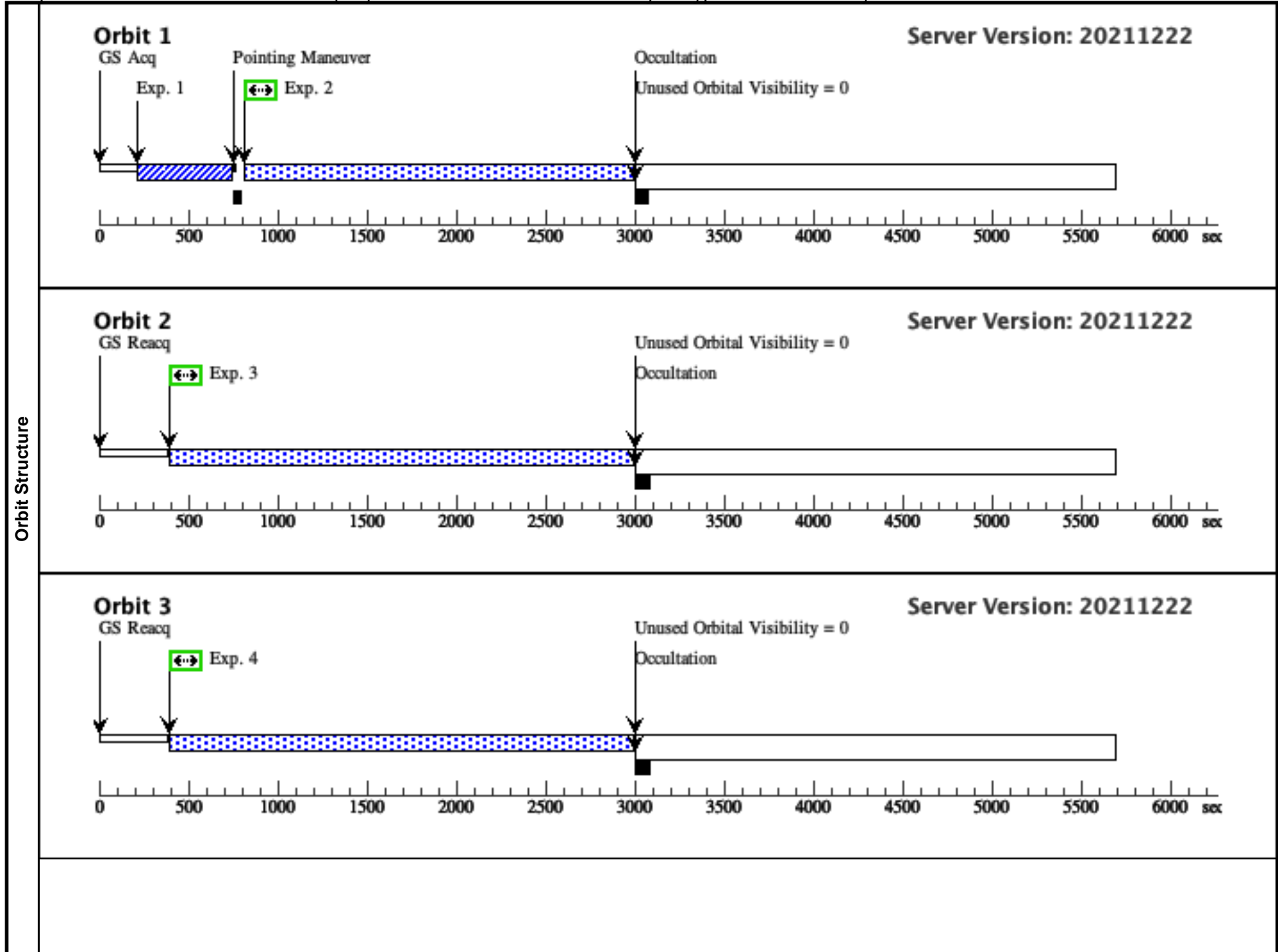
Proposal 16597 - V-VZ-CHA-COS (2E) - ULLYSES Late K- and Early M-type T Tauri Survey Stars in Cha I

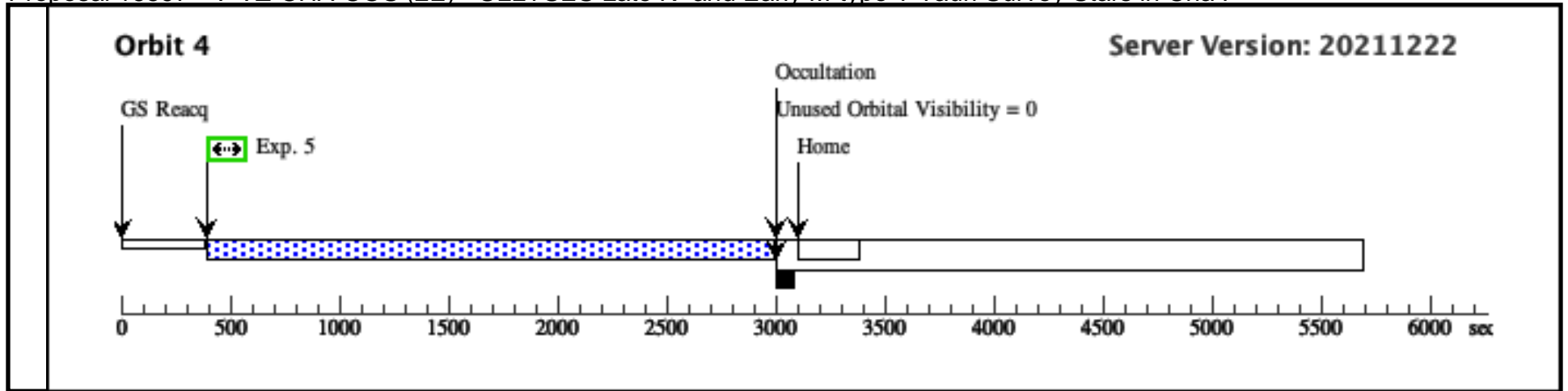
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/Image (COS.ta.152 7702)	(2) V-VZ-CHA	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				145 Secs (145 Secs)	
								[==>]	[1]
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2	G130M/129 1-3 (COS.sp.152 7712)	(2) V-VZ-CHA	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=33 00; FP-POS=3			2012 Secs (2012 Secs)	
								[==>]	[1]
								<p>Comments: t40_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59670; fp-pos=None, segment=None) Input file: targets_up_to_May30-2022.csv Spectral type: M0.5; A_V: 1.2; Distance (pc): 160 M*: 0.49; log(dm/dt): -7.33 For exptime=11358.9 s, spectral region: 1239.0 +- 1.0 A achieves SNR=10.0 / 6-pix-reseal A factor of 2.0 has been applied to the exptime in each exposure. global countrate (brightest segment): 294.4 cts/s/segment brightest pixel: 0.002 cts/s/pix at 1402.7 A Calculation performed 2021-06-18T15:05:12, v0.24</p> <p>----- The text above was done for the initial calculation of exposure times and is from the original .prop file. ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: COS.sp.1527712 * For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: COS.sp.1527713</p>	
3	G130M/129 1-3 (COS.sp.152 7712)	(2) V-VZ-CHA	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=33 00; FP-POS=3			2552 Secs (2552 Secs)	
								[==>]	[2]
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Exposures

Proposal 16597 - V-VZ-CHA-COS (2E) - ULLYSES Late K- and Early M-type T Tauri Survey Stars in Cha I

<p>4 G130M/129 (2) V-VZ-CHA COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=33 1-3 00; (COS.sp.152 1291 A FP-POS=3 7712)</p> <p><i>Comments: t40_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59670; fp-pos=None, segment=None)</i> <i>Input file: targets_up_to_May30-2022.csv</i> <i>Spectral type: M0.5 ; A_V: 1.2 ; Distance (pc): 160</i> <i>M*: 0.49 ; log(dm/dt): -7.33</i> <i>For exptime=11358.9 s, spectral region:</i> <i>1239.0 +- 1.0 A achieves SNR=10.0 / 6-pix-resel</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 294.4 cts/s/segment</i> <i>brightest pixel: 0.002 cts/s/pix at 1402.7 A</i> <i>Calculation performed 2021-06-18T15:05:12, v0.24</i></p> <p>----- <i>The text above was done for the initial calculation of exposure times and is from the original .prop file.</i> <i>ETC runs were done for two cases:</i> <i>* For exposure time, a template with an extra A_V of 0.5 were used: COS.sp.1527712</i> <i>* For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: COS.sp.1527713</i></p>	<p>2552 Secs (2552 Secs)</p> <p>[==>]</p>	<p>[3]</p>
<p>5 G130M/129 (2) V-VZ-CHA COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=33 1-3 00; (COS.sp.152 1291 A FP-POS=3 7712)</p> <p><i>Comments: t40_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59670; fp-pos=None, segment=None)</i> <i>Input file: targets_up_to_May30-2022.csv</i> <i>Spectral type: M0.5 ; A_V: 1.2 ; Distance (pc): 160</i> <i>M*: 0.49 ; log(dm/dt): -7.33</i> <i>For exptime=11358.9 s, spectral region:</i> <i>1239.0 +- 1.0 A achieves SNR=10.0 / 6-pix-resel</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 294.4 cts/s/segment</i> <i>brightest pixel: 0.002 cts/s/pix at 1402.7 A</i> <i>Calculation performed 2021-06-18T15:05:12, v0.24</i></p> <p>----- <i>The text above was done for the initial calculation of exposure times and is from the original .prop file.</i> <i>ETC runs were done for two cases:</i> <i>* For exposure time, a template with an extra A_V of 0.5 were used: COS.sp.1527712</i> <i>* For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: COS.sp.1527713</i></p>	<p>2552 Secs (2552 Secs)</p> <p>[==>]</p>	<p>[4]</p>





Proposal 16597 - V-VZ-CHA-COS (2F) - ULLYSES Late K- and Early M-type T Tauri Survey Stars in Cha I

Thu Apr 14 14:00:33 GMT 2022

Visit	<p>Proposal 16597, V-VZ-CHA-COS (2F), implementation</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 24-JAN-2022:00:00:00 AND 14-MAY-2022:00:00:00</p> <p><i>Comments: vstatus; 2F; V-VZ-CHA; P/COS approved for submission; P/DJS 02/08/21 ; intrev: complete ; P/RS 29/07/21 vcheck; Enter targ name & Inst. & Resp. Sci.; V-VZ-CHA 'V* VZ Cha' ; COS ; DJS vcheck; ETC numbers entered in APT?; completed vcheck; Any screening violations?; None vcheck; M-dwarf check complete and added to box folder?; N/A vcheck; S/N ETC calcs done & documented?; yes vcheck; Field images checked & saved?; yes vcheck; Selected ACQ strategy?; ACQ/IMAGE vcheck; Possible ACQ or Sci spoilers?; none vcheck; Field BOT clear?; yes vcheck; Visual BOT check for stars not in catalog?; yes vcheck; Orbit packing finalized?; yes vcheck; Buffer times optimized?; yes vcheck; Verify visit grouping correct; N/A vcheck; phase constraint for ground based observations added?; N/A vcheck; BETWEENS for coordinated observations added?; N/A vcheck; Is visit ready for int. review?; yes Allocated COS orbits = 13</i></p>																																		
	<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>V-VZ-CHA</td> <td>RA: 11 09 23.6760 (167.3486500d)</td> <td>Proper Motion RA: -21.599074857508 mas/yr</td> <td>V=12.94</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td>Alt Name1: T40</td> <td>Dec: -76 23 20.86 (-76.38913d)</td> <td>Proper Motion Dec: -0.33858656361 mas/yr</td> <td>SpT=M0.5; A_V=1.20; U=12.7;</td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: J11092379-7623207</td> <td>Equinox: J2000</td> <td>Parallax: 0.005232157973992"</td> <td>V=12.9</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Epoch of Position: 2016</td> <td></td> <td></td> </tr> </tbody> </table> <p><i>Comments: V-VZ-Cha : T40, J11092379-7623207</i></p> <p><i>Region: Cha I</i></p> <p><i>Simbad: https://simbad.u-strasbg.fr/simbad/sim-id?Ident=VZ+Cha&NbIdent=1&Radius=2&Radius.unit=arcmin&submit=submit+id</i></p> <p><i>Target coordinates are from Gaia DR2.</i></p> <p><i>Spectral type: M0.5 ; A_V: 1.2 ; Distance (pc): 160</i></p> <p><i>M*: 0.49 ; log(dm/dt): -7.33</i></p> <p><i>Input file: targets_up_to_May30-2022.csv</i></p> <p><i>t40_lya2_etc_scaled_pAV0.50.txt</i></p> <p><i>Calculation performed 2021-06-18T15:05:12, 0.24</i></p> <hr/> <p><i>tstatus: V-VZ-CHA; P/COS approved for submission; S/STIS approved for submission; P/DJS 02/08/21; S/DJS 02/08/21</i></p> <p><i>tcheck; APT/SIMBAD target names: ; V-VZ-CHA 'V* VZ Cha'</i></p> <p><i>tcheck; Target info verification status?; OK</i></p> <p><i>tcheck; Coordinates & P.M. verified, epoch checked?; Changed to 2016 from 2015.5</i></p> <p><i>tcheck; Adopted SED compared to Observations?; N/A</i></p> <p><i>Category=STAR</i></p> <p><i>Description=[T TAURI STAR, PRE-MAIN SEQUENCE STAR]</i></p> <p><i>Extended=NO</i></p>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	V-VZ-CHA	RA: 11 09 23.6760 (167.3486500d)	Proper Motion RA: -21.599074857508 mas/yr	V=12.94	Reference Frame: ICRS		Alt Name1: T40	Dec: -76 23 20.86 (-76.38913d)	Proper Motion Dec: -0.33858656361 mas/yr	SpT=M0.5; A_V=1.20; U=12.7;			Alt Name2: J11092379-7623207	Equinox: J2000	Parallax: 0.005232157973992"	V=12.9					Epoch of Position: 2016	
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			Epoch of Position: 2016																																
Fixed Targets																																			

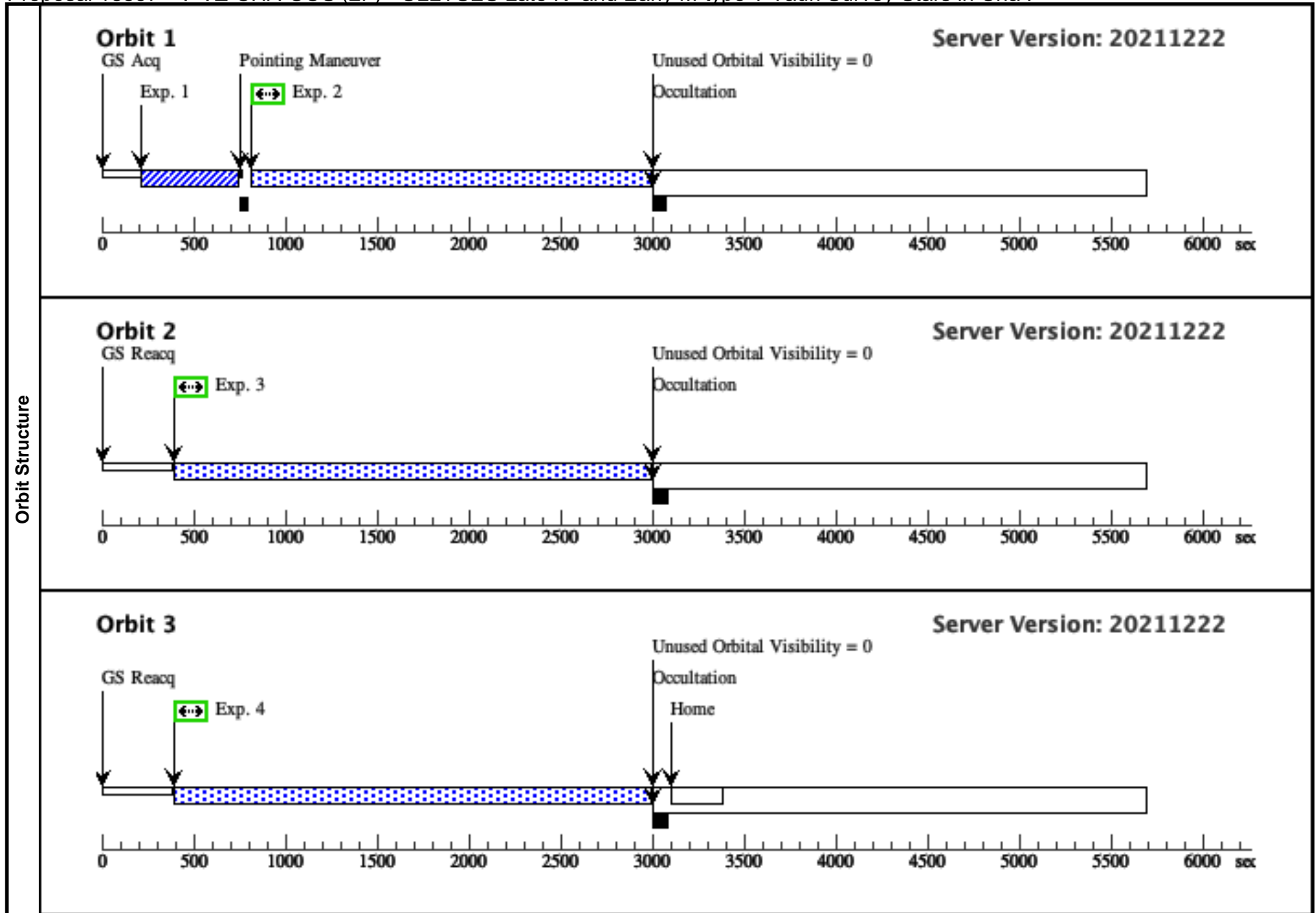
Proposal 16597 - V-VZ-CHA-COS (2F) - ULLYSES Late K- and Early M-type T Tauri Survey Stars in Cha I

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/Image (COS.ta.152 7702)	(2) V-VZ-CHA	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				145 Secs (145 Secs)	
								[==>]	[1]
								<p>Comments: ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: COS.ta.1527702 * For BOP, a template with 4x the flux and no additional extinction was used: COS.ta.1527704</p>	
2	G130M/129 1-4 (COS.sp.152 7712)	(2) V-VZ-CHA	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=33 00; FP-POS=4			2012 Secs (2012 Secs)	
								[==>]	[1]
								<p>Comments: t40_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59670; fp-pos=None, segment=None) Input file: targets_up_to_May30-2022.csv Spectral type: M0.5; A_V: 1.2; Distance (pc): 160 M*: 0.49; log(dm/dt): -7.33 For exptime=11358.9 s, spectral region: 1239.0 +- 1.0 A achieves SNR=10.0 / 6-pix-reseal A factor of 2.0 has been applied to the exptime in each exposure. global countrate (brightest segment): 294.4 cts/s/segment brightest pixel: 0.002 cts/s/pix at 1402.7 A Calculation performed 2021-06-18T15:05:12, v0.24</p> <p>----- The text above was done for the initial calculation of exposure times and is from the original .prop file. ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: COS.sp.1527712 * For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: COS.sp.1527713</p>	
3	G130M/129 1-4 (COS.sp.152 7712)	(2) V-VZ-CHA	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=33 00; FP-POS=4			2552 Secs (2552 Secs)	
								[==>]	[2]
								<p>Comments: t40_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59670; fp-pos=None, segment=None) Input file: targets_up_to_May30-2022.csv Spectral type: M0.5; A_V: 1.2; Distance (pc): 160 M*: 0.49; log(dm/dt): -7.33 For exptime=11358.9 s, spectral region: 1239.0 +- 1.0 A achieves SNR=10.0 / 6-pix-reseal A factor of 2.0 has been applied to the exptime in each exposure. global countrate (brightest segment): 294.4 cts/s/segment brightest pixel: 0.002 cts/s/pix at 1402.7 A Calculation performed 2021-06-18T15:05:12, v0.24</p> <p>----- The text above was done for the initial calculation of exposure times and is from the original .prop file. ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: COS.sp.1527712 * For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: COS.sp.1527713</p>	

Exposures

Proposal 16597 - V-VZ-CHA-COS (2F) - ULLYSES Late K- and Early M-type T Tauri Survey Stars in Cha I

<p>4 G130M/129 (2) V-VZ-CHA COS/FUV, TIME-TAG, PSA G130M BUFFER-TIME=33 1-4 1291 A 00; (COS.sp.152 FP-POS=4 7712)</p>	<p>2552 Secs (2552 Secs)</p>	
<p><i>Comments: t40_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59670; fp-pos=None, segment=None)</i> <i>Input file: targets_up_to_May30-2022.csv</i> <i>Spectral type: M0.5 ; A_V: 1.2 ; Distance (pc): 160</i> <i>M*: 0.49 ; log(dm/dt): -7.33</i> <i>For exptime=11358.9 s, spectral region:</i> <i>1239.0 +- 1.0 A achieves SNR=10.0 / 6-pix-resel</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 294.4 cts/s/segment</i> <i>brightest pixel: 0.002 cts/s/pix at 1402.7 A</i> <i>Calculation performed 2021-06-18T15:05:12, v0.24</i></p> <p>----- <i>The text above was done for the initial calculation of exposure times and is from the original .prop file.</i> <i>ETC runs were done for two cases:</i> <i>* For exposure time, a template with an extra A_V of 0.5 were used: COS.sp.1527712</i> <i>* For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: COS.sp.1527713</i></p>	<p>[==>]</p>	<p>[3]</p>



Proposal 16597 - V-VZ-CHA-STIS (2S) - ULLYSES Late K- and Early M-type T Tauri Survey Stars in Cha I

Thu Apr 14 14:00:33 GMT 2022

Visit	<p>Proposal 16597, V-VZ-CHA-STIS (2S), implementation</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD</p> <p>Special Requirements: SCHED 100%; BETWEEN 24-JAN-2022:00:00:00 AND 14-MAY-2022:00:00:00</p> <p><i>Comments: vstatus; 2S; V-VZ-CHA; P/STIS approved for submission; P/DJS 02/08/21 ; intrev: complete ; S/RS 29/07/21 vcheck; Enter targ name & Inst. & Resp. Sci.; V-VZ-CHA 'V* VZ Cha' ; STIS ; DJS vcheck; ETC numbers entered in APT?; completed vcheck; Any screening violations?; None vcheck; M-dwarf check complete and added to box folder?; N/A vcheck; S/N ETC calcs done & documented?; yes vcheck; Field images checked & saved?; yes vcheck; Selected ACQ strategy?; N/A vcheck; Possible ACQ or Sci spoilers?; none vcheck; Field BOT clear?; yes vcheck; Visual BOT check for stars not in catalog?; yes vcheck; Orbit packing finalized?; yes vcheck; Buffer times optimized?; N/A vcheck; Verify visit grouping correct; N/A vcheck; phase constraint for ground based observations added?; N/A vcheck; BETWEENS for coordinated observations added?; N/A vcheck; Is visit ready for int. review?; yes Allocated STIS orbits = 1</i></p>																																		
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#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																														
(2)	V-VZ-CHA	RA: 11 09 23.6760 (167.3486500d)	Proper Motion RA: -21.599074857508 mas/yr	V=12.94	Reference Frame: ICRS																														
	Alt Name1: T40	Dec: -76 23 20.86 (-76.38913d)	Proper Motion Dec: -0.33858656361 mas/yr	SpT=M0.5; A_V=1.20; U=12.7;																															
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			Epoch of Position: 2016																																
Fixed Targets																																			

Proposal 16597 - V-VZ-CHA-STIS (2S) - ULLYSES Late K- and Early M-type T Tauri Survey Stars in Cha I

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ (STIS.ta.152 7761)	(2) V-VZ-CHA	STIS/CCD, ACQ, F28X50LP	MIRROR			0.1 Secs (0.1 Secs) [==>]	[1]	
	<p>Comments: ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: STIS.ta.1527761 * For saturation, a template with 4x the flux and no additional extinction was used: STIS.ta.1527762</p>									
	2	G230L/2376 (STIS.sp.15 27764)	(2) V-VZ-CHA	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	WAVECAL=NO; BUFFER-TIME=51 7.0			264 Secs (264 Secs) [==>]	[1]
	<p>Comments: t40_lya2_etc_scaled_pAV0.50.txt; stis,nuvmama,g230l,c2376,52x2,mjd#59670 Input file: targets_up_to_May30-2022.csv Spectral type: M0.5 ; A_V: 1.2 ; Distance (pc): 160 M*: 0.49 ; log(dm/dt): -7.33 For exptime=39.1 s, spectral region: 2800.0 +- 15.0 A achieves SNR=20.0 / 2-pix-resel A factor of 2.0 has been applied to the exptime in each exposure. global countrate (brightest segment): 3092.2 cts/s/segment brightest pixel: 2.076 cts/s/pix at 2801.6 A Calculation performed 2021-06-18T15:05:12, v0.24</p> <p>----- The text above was done for the initial calculation of exposure times and is from the original .prop file. ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: STIS.sp.1527764 * For BUFFER-TIME and BOP, a template with 4x the flux and no additional extinction was used: STIS.sp.1527765</p>									
	3	G230L/2376 WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				[==>]	[1]
4	G430L/4300 WAVECAL	WAVE	STIS/CCD, ACCUM, 52X0.1	G430L 4300 A				[==>]	[1]	
5	G430L/4300 (STIS.sp.15 27766)	(2) V-VZ-CHA	STIS/CCD, ACCUM, 52X2	G430L 4300 A	WAVECAL=NO; CR-SPLIT=2; GAIN=1			14 Secs (14 Secs) [==>(Split 1)] [==>(Split 2)]	[1]	
<p>Comments: t40_lya2_etc_scaled_pAV0.50.txt; stis,ccd,g430l,c4300,52x2,mjd#59670 WARNING: operating mode = ACCUM Input file: targets_up_to_May30-2022.csv Spectral type: M0.5 ; A_V: 1.2 ; Distance (pc): 160 M*: 0.49 ; log(dm/dt): -7.33 For exptime=7.3 s, n_reads=2, spectral region: 4000.0 +- 5.0 A achieves SNR=20.0 / 2-pix-resel A factor of 2.0 has been applied to the exptime in each exposure. global countrate (brightest segment): 76927.2 cts/s/segment brightest pixel: 58.571 cts/s/pix at 5178.8 A Calculation performed 2021-06-18T15:05:12, v0.24</p> <p>----- The text above was done for the initial calculation of exposure times and is from the original .prop file. ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: STIS.sp.1527766 * For saturation, a template with 4x the flux and no additional extinction was used: STIS.sp.1527768</p>										

Proposal 16597 - V-VZ-CHA-STIS (2S) - ULLYSES Late K- and Early M-type T Tauri Survey Stars in Cha I

6	G750L/7751 (2) V-VZ-CHA (STIS.sp.15 27770)	STIS/CCD, ACCUM, 52X2	G750L 7751 A	WAVECAL=NO; CR-SPLIT=2; GAIN=1	4.2 Secs (4.2 Secs)	
					[==>(Split 1)]	[1]
<p>Comments: t40_lya2_etc_scaled_pAV0.50.txt; stis,ccd,g750l,c7751,52x2,mjd#59670 WARNING: operating mode = ACCUM Input file: targets_up_to_May30-2022.csv Spectral type: M0.5 ; A_V: 1.2 ; Distance (pc): 160 M*: 0.49 ; log(dm/dt): -7.33 For exptime=2.1 s, n_reads=2, spectral region: 5700.0 +- 5.0 A achieves SNR=20.0 / 2-pix-resel A factor of 2.0 has been applied to the exptime in each exposure. global countrate (brightest segment): 215247.3 cts/s/segment brightest pixel: 449.129 cts/s/pix at 6563.9 A Calculation performed 2021-06-18T15:05:12, v0.24</p> <p>----- The text above was done for the initial calculation of exposure times and is from the original .prop file. ETC runs were done for two cases: * For exposure time, a template with an extra A_V of 0.5 were used: STIS.sp.1527770 * For saturation, a template with 4x the flux and no additional extinction was used: STIS.sp.1527772</p>						
7	G750L/7751 WAVE WAVECAL	STIS/CCD, ACCUM, 52X0.1	G750L 7751 A		[==>]	[1]
8	G750L/7751 CCDFLAT CCDFLAT 1	STIS/CCD, ACCUM, 0.3X0.09	G750L 7751 A		[==>(Copy 1)] [==>(Copy 2)]	[1]
9	G750L/7751 CCDFLAT CCDFLAT 2	STIS/CCD, ACCUM, 52X0.1	G750L 7751 A		[==>(Copy 1)] [==>(Copy 2)]	[1]
10	G750L/7751 CCDFLAT CCDFLAT 3	STIS/CCD, ACCUM, 52X2	G750L 7751 A		[==>(Copy 1)] [==>(Copy 2)]	[1]

