



16477 - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

Cycle: 28, Proposal Category: GO/DD

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. Julia Christine Roman-Duval (PI) (Contact)	Space Telescope Science Institute	duval@stsci.edu
Dr. Kenneth Sembach (CoI)	Space Telescope Science Institute	sembach@stsci.edu
Dr. Charles R. Proffitt (CoI) (Contact)	Space Telescope Science Institute	proffitt@stsci.edu
Joanna Taylor (CoI)	Space Telescope Science Institute	jotaylor@stsci.edu
Dr. Travis C Fischer (CoI) (ESA Member)	Space Telescope Science Institute - ESA	tfischer@stsci.edu
Dr. TalaWanda R. Monroe (CoI) (Contact)	Space Telescope Science Institute	tmonroe@stsci.edu
Dr. William J. Fischer (CoI) (Contact)	Space Telescope Science Institute	wfischer@stsci.edu
Dr. Alexander W. Fullerton (CoI)	Space Telescope Science Institute	fullerton@stsci.edu
Dr. Alessandra Aloisi (CoI)	Space Telescope Science Institute	aloi@stsci.edu
Christopher Britt (CoI)	Space Telescope Science Institute	cbritt@stsci.edu
Dr. Thomas M. Brown (CoI)	Space Telescope Science Institute	tbrown@stsci.edu
Ivo Busko (CoI)	Space Telescope Science Institute	busko@stsci.edu
Dr. Joleen Carlberg (CoI)	Space Telescope Science Institute	jcarlberg@stsci.edu
Dr. Gisella De Rosa (CoI)	Space Telescope Science Institute	gderosa@stsci.edu
Elaine M Frazer (CoI)	Space Telescope Science Institute	efrazer@stsci.edu
Dr. Svea S Hernandez (CoI)	Space Telescope Science Institute - ESA - JWST	sveash@stsci.edu
Dr. Alec S. Hirschauer (CoI)	Space Telescope Science Institute	ahirschauer@stsci.edu
Dr. Bethan Lesley James (CoI)	Space Telescope Science Institute - ESA - JWST	bjames@stsci.edu
Robert Jedrzejewski (CoI)	Space Telescope Science Institute	rij@stsci.edu
Sean Lockwood (CoI)	Space Telescope Science Institute	lockwood@stsci.edu
Dr. Cristina Oliveira (CoI)	Space Telescope Science Institute	oliveira@stsci.edu
Rachel Plesha (CoI)	Space Telescope Science Institute	rplesha@stsci.edu

Proposal 16477 (STScI Edit Number: 8, Created: Tuesday, August 3, 2021 at 1:01:07 PM Eastern Standard Time) - Overview

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. I. Neill Reid (CoI)	Space Telescope Science Institute	inr@stsci.edu
Dr. Adric R. Riedel (CoI)	Space Telescope Science Institute	riedel@stsci.edu
Allyssa Riley (CoI)	Space Telescope Science Institute	ariley@stsci.edu
Dr. David J. Sahnou (CoI)	Space Telescope Science Institute	sahnou@stsci.edu
Dr. Ravi Sankrit (CoI)	Space Telescope Science Institute	rsankrit@stsci.edu
Dr. Richard Shaw (CoI)	Space Telescope Science Institute	shaw@stsci.edu
Dr. Linda J. Smith (CoI) (ESA Member)	Space Telescope Science Institute - ESA	lsmith@stsci.edu
Dr. Sangmo Tony Sohn (CoI)	Space Telescope Science Institute	tsohn@stsci.edu
Dr. Debopam Som (CoI) (Contact)	Space Telescope Science Institute	dsom@stsci.edu
Dr. Leonardo Ubeda (CoI)	Space Telescope Science Institute	lubeda@stsci.edu
Dr. Daniel E. Welty (CoI)	Space Telescope Science Institute	dwelty@stsci.edu

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) SZ66 (7) SZ66-OFFSET	COS/FUV COS/NUV	4	03-Aug-2021 14:00:44.0	yes
AC	(1) SZ66 (7) SZ66-OFFSET	COS/FUV COS/NUV	4	03-Aug-2021 14:00:45.0	yes
1D	(1) SZ66 (7) SZ66-OFFSET	COS/FUV COS/NUV	3	03-Aug-2021 14:00:45.0	yes
AD	(1) SZ66 (7) SZ66-OFFSET	COS/FUV COS/NUV	3	03-Aug-2021 14:00:46.0	yes
1S	(1) SZ66 CCDFLAT WAVE	STIS/CCD STIS/NUV-MAMA	1	03-Aug-2021 14:00:48.0	yes
AS	(1) SZ66 CCDFLAT WAVE	STIS/CCD STIS/NUV-MAMA	1	03-Aug-2021 14:00:49.0	yes
2C	(2) SZ69 (5) SZ69-OFFSET	COS/FUV COS/NUV	2	03-Aug-2021 14:00:50.0	yes

Proposal 16477 (STScI Edit Number: 8, Created: Tuesday, August 3, 2021 at 1:01:07 PM Eastern Standard Time) - Overview

<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>
BC	(2) SZ69 (5) SZ69-OFFSET	COS/FUV COS/NUV	2	03-Aug-2021 14:00:51.0	yes
2D	(2) SZ69 (5) SZ69-OFFSET	COS/FUV COS/NUV	2	03-Aug-2021 14:00:52.0	yes
BD	(2) SZ69 (5) SZ69-OFFSET	COS/FUV COS/NUV	2	03-Aug-2021 14:00:52.0	yes
2S	(2) SZ69 CCDFLAT WAVE	STIS/CCD STIS/NUV-MAMA	1	03-Aug-2021 14:00:54.0	yes
BS	(2) SZ69 CCDFLAT WAVE	STIS/CCD STIS/NUV-MAMA	1	03-Aug-2021 14:00:56.0	yes
3C	(3) SZ72	COS/FUV COS/NUV	3	03-Aug-2021 14:00:57.0	yes
3D	(3) SZ72	COS/FUV COS/NUV	2	03-Aug-2021 14:00:58.0	yes
3S	(3) SZ72 CCDFLAT WAVE	STIS/CCD STIS/NUV-MAMA	1	03-Aug-2021 14:00:59.0	yes
4C	(4) SZ76 (6) SZ76-OFFSET	COS/FUV COS/NUV	2	03-Aug-2021 14:01:00.0	yes
DC	(4) SZ76 (6) SZ76-OFFSET	COS/FUV COS/NUV	2	03-Aug-2021 14:01:01.0	yes
4D	(4) SZ76 (6) SZ76-OFFSET	COS/FUV COS/NUV	2	03-Aug-2021 14:01:02.0	yes
DD	(4) SZ76 (6) SZ76-OFFSET	COS/FUV COS/NUV	2	03-Aug-2021 14:01:03.0	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>
4S	(4) SZ76 CCDFLAT WAVE	STIS/CCD STIS/NUV-MAMA	1	03-Aug-2021 14:01:04.0	yes
DS	(4) SZ76 CCDFLAT WAVE	STIS/CCD STIS/NUV-MAMA	1	03-Aug-2021 14:01:06.0	yes

42 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

Intent is to coordinate the objects in this program with TESS, which should observe them during TESS sector 38.

current ESTIMATE for BETWEENs to ensure this are:

29 APR 2021 10:30 - 11 May 2021 16:10

12 May 2021 21:10 - 26 May 2021 02:25

Individual visits are UPDATED with fine-tuned BETWEEN windows

Proposal 16477 (STScI Edit Number: 8, Created: Tuesday, August 3, 2021 at 1:01:07 PM Eastern Standard Time) - Overview

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:

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.

Visit	<p>Proposal 16477, SZ66-COS (1C), failed</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 29-APR-2021:09:00 AND 11-MAY-2021:14:05; BETWEEN 12-MAY-2021:19:40 AND 25-MAY-2021:19:20</p> <p><i>Comments: vstatus; 1C; SZ66; P/COS approved for submission; P/DS 10/03/21 ; intrev: complete ; P/CP 18/03/21</i></p> <p><i>vcheck; Enter targ name & Inst. & Resp. Sci.; SZ66 ; COS ; DS</i></p> <p><i>vcheck; ETC numbers entered in APT?; Yes</i></p> <p><i>vcheck; Any screening violations?; No</i></p> <p><i>vcheck; M-dwarf check complete and added to box folder?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/survey/revise-mstar-bop.xls</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>located at: box/ullyses_tech/ullyses_proposals/survey/16477/images/sz66/</i></p> <p><i>vcheck; Selected ACQ strategy?; Yes ...</i></p> <p><i>BOP clearing recommended BOA/MirrorA too expensive. Adopted BOA/MirrorA w/ S/N = 60 ACQ on offset star</i></p> <p><i>This offset acquisition target for SZ66 is ~46.5' away from SZ66 and GAIA G mag and colors for this target is consistent with a slightly reddened F8V star.</i></p> <p><i>Anders+2019 reports Av=0.08, (E(B-V)=0.0249), Teff=6174.1, logg=4.41, Fe/H=-0.33</i></p> <p><i>B = 9.3, V = 8.7, G = 8.6 from SIMBAD</i></p> <p><i>BOT check fails assuming O5V. ETC screening for O3V fails too (COS.ta.1513305: B.P = 119.935)</i></p> <p><i>However, if this was a reddened early O-type star then the observed B-V = 0.56 and typical intrinsic B - V ~ -0.3 suggests E(B-V) ~ 0.85 and assuming R_v = 3.1, A_v ~ 2.6.</i></p> <p><i>This puts the unreddened V mag at 6.1. The luminosity distance needed for an early O star with V=6.1 is much higher than the distance of ~69 pc inferred from parallax.</i></p> <p><i>vcheck; Possible ACQ or Sci spoilers?; No</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>The star at ~6.5 arcsec away is SZ65; SIMBAD lists the spectral class as K7.</i></p> <p><i>FUV 4x BOP calculations: COS.sp.1513310 -Safe</i></p> <p><i>(using Box/ullyses_tech/ullyses_proposals/survey/16477/seds/sz66/sz65_1ya2_x4.00_etc.txt)</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; Yes ...</i></p> <p><i>STIS visit has GROUP 1S,1C,1D WITHIN 1D</i></p> <p><i>vcheck; phase constraint for ground based observations added?; N/A</i></p> <p><i>vcheck; BETWEENS for coordinated observations added?; Yes ...</i></p> <p><i>29 APR 2021 09:00 to 11 May 2021 14:05 and 12 May 2021 19:40 - 25 May 2021 19:20</i></p> <p><i>vcheck; Is visit ready for int. review?; Yes</i></p> <p><i>Allocated COS orbits = 7</i></p>
--------------	--

Proposal 16477 - SZ66-COS (1C) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	SZ66 Alt Name1: MJS2008-5 Alt Name2: J15392828-3446180	RA: 15 39 28.2664 (234.8677767d) Dec: -34 46 18.42 (-34.77178d) Equinox: J2000	Proper Motion RA: -13.6020415 mas/yr Proper Motion Dec: -21.56545246 mas/yr Parallax: 0.006355740815" Epoch of Position: 2015.5	V=15.0 SpT=M3; A_v=1.00; U=15.4; B=16.45; V=15.0; R=14.51; J=10.9	Reference Frame: ICRS
<p><i>Comments: Sz66 : MJS2008-5, J15392828-3446180</i> <i>Region: Lupus I</i> <i>Simbad: https://simbad.u-strasbg.fr/simbad/sim-id?Ident=2MASS+J15392828-3446180&submit=submit+id</i> <i>Target coordinates are from Gaia DR2.</i> <i>Spectral type: M3 ; A_v: 1.0 ; Distance (pc): 150</i> <i>M*: 0.29 ; log(dm/dt): -8.54</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>sz66_lya2_etc_scaled_pAV0.50.txt</i> <i>Calculation performed 2021-02-12T16:28:52, v0.6</i></p> <hr/> <p><i>tstatus: SZ66; P/COS approved for submission; S/STIS approved for submission; P/DS 02/03/21; S/DS 02/03/21</i> <i>tcheck; APT/SIMBAD target names: ; SZ66 ...</i> <i>Default SIMBAD name is Sz 66, aka 2MASS J15392828-3446180, Gaia DR2 6013399830146943104</i> <i>tcheck; Target info verification status?: OK ...</i> <i>Flam(V) = 3.56e-15 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD. R = 14.5 from SIMBAD</i> <i>tcheck; Coordinates & P.M. verified, epoch checked?: Yes</i> <i>tcheck; Adopted SED compared to Observations?: Yes</i> <i>Category=STAR</i> <i>Description=[T TAURI STAR, PRE-MAIN SEQUENCE STAR]</i> <i>Extended=NO</i></p>					
(7)	SZ66-OFFSET Alt Name1: HD139450 Alt Name2: GAIA-DR2-6013399864506681344	RA: 15 39 25.3300 (234.8555417d) Dec: -34 46 47.09 (-34.77975d) Equinox: J2000	Proper Motion RA: 4.8328700792762245 mas/yr Proper Motion Dec: 38.62686457497966 mas/yr Parallax: 1.4473194343043208E-02" Epoch of Position: 2015.5	V=8.73+/-0.02 SpT = F8V; A_v = 0.08; G = 8.6 ; Bp - Rp = 0.70; B = 9.3; V = 8.7	Reference Frame: ICRS
<p><i>Comments: COS offset target acq star for SZ66</i> <i>~46.5" away from SZ66</i></p> <p><i>Anders+2019 (Starhorse catalog) reports Av=0.08 (E(B-V)=0.0249), Teff=6174.1, logg=4.41, Fe/H=-0.33</i> <i>Observed B and V band photometries are from SIMBAD and match closely with interpolated photometry assuming target SpT F8V:</i> <i>V (interploated) = 16.33 from G = 16.25 with G - V = -0.08</i> <i>B (interploated) = 16.70 from V = 16.33 with B - V = 0.37</i></p> <p><i>Parallax for this star suggests distance ~ 69 pc.</i></p> <p><i>If this was a reddened early O-type star then the observed B-V = 0.56 and typical intrinsic B - V ~ -0.3 suggests E(B-V) ~ 0.85 and assuming R_v = 3.1, A_v ~ 2.6.</i> <i>This puts the unreddened V mag at 6.1. The luminosity distance needed for an early O star with V=6.1 is much higher than the distance inferred from parallax.</i> <i>Category=STAR</i> <i>Description=[F3-F9]</i> <i>Extended=NO</i></p>					

Fixed Targets

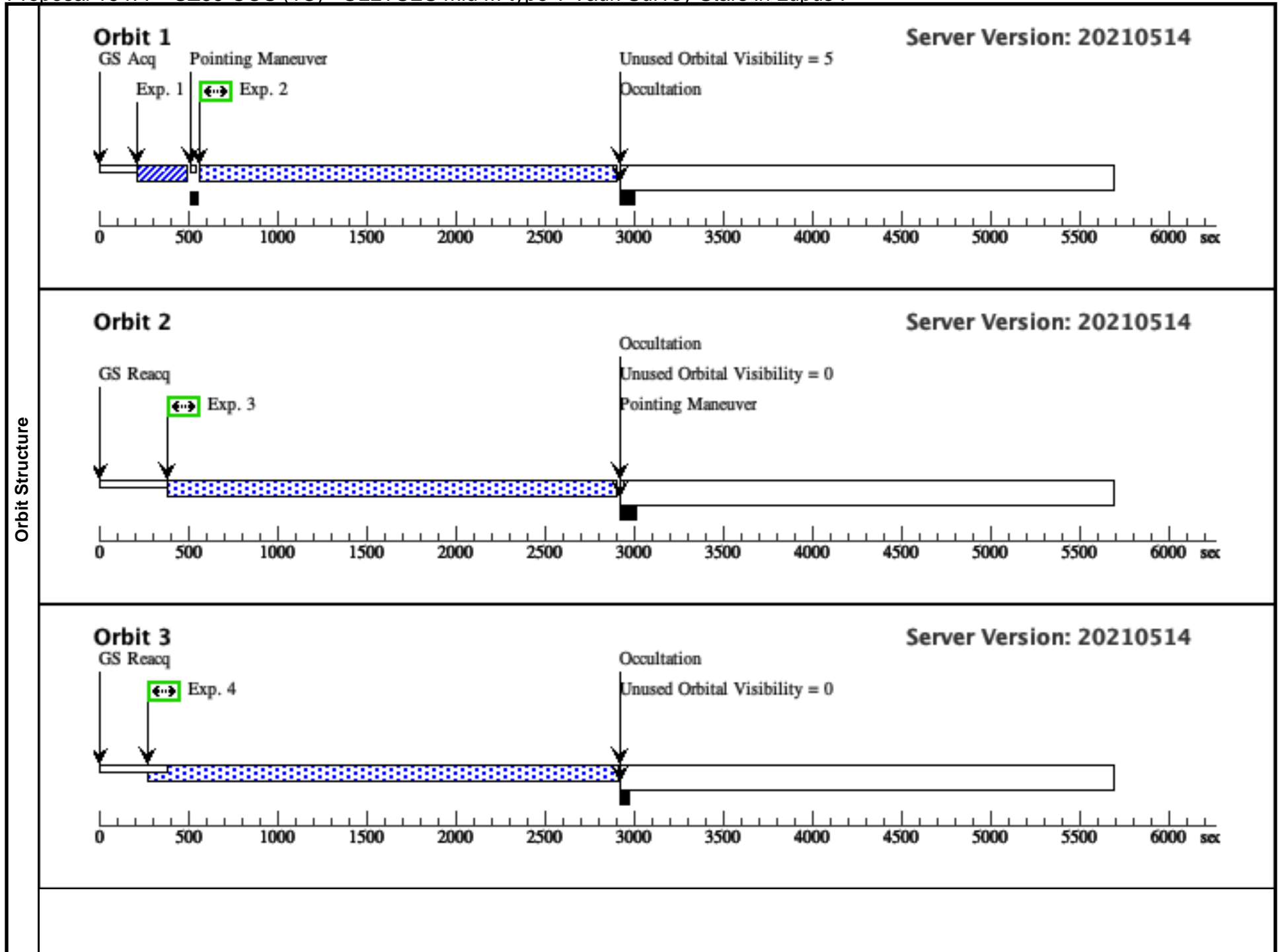
Proposal 16477 - SZ66-COS (1C) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

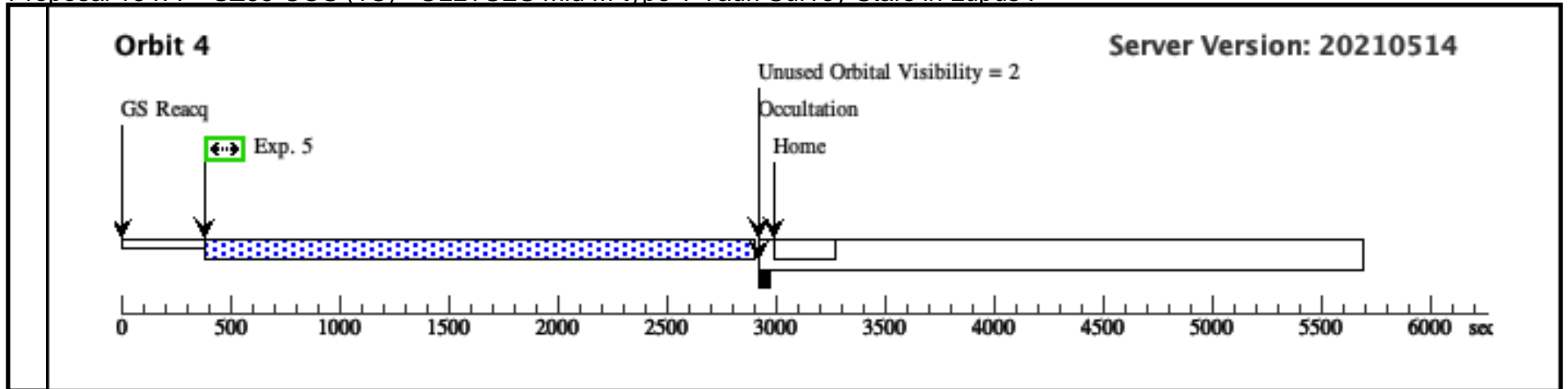
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/Image (COS.ta.151 3298)	(7) SZ66-OFFSET	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				23 Secs (23 Secs)	
								[==>]	[1]
								<p><i>Comments: This offset acquisition target for SZ66 is ~46.5" away from SZ66 and GAIA G mag and colors for this target is consistent with a slightly reddened F8V star. Anders+2019 reports $A_V=0.08$, $(E(B-V))=0.0249$, $T_{\text{eff}}=6174.1$, $\log g=4.41$, $Fe/H=-0.33$</i></p> <p><i>For S/N = 60 with BOA/MirrorA, ETC calculation using Castelli-Kurucz Model F8V 6250 4.0, normalized to Johnson B = 9.3 Vegamag with $E(B-V) = 0.025$: COS.ta.1513298, B.P = 22.043</i></p> <p><i>Screening for this star assuming SpT = O3V fails (COS.ta.1513305: B.P = 119.935).</i></p> <p><i>However, if this was a reddened early O-type star then the observed B-V = 0.56 and typical intrinsic B - V ~ -0.3 suggests $E(B-V) \sim 0.85$ and assuming $R_V = 3.1$, $A_V \sim 2.6$. This puts the unreddened V mag at 6.1. The luminosity distance needed for an early O star with $V=6.1$ is much higher than the distance of ~69 pc inferred from parallax.</i></p> <p><i>BOT Health and safety warning assuming O5V.</i></p>	
<p>2</p> <p>G130M/129 (1) SZ66</p> <p>1-3</p> <p>(COS.sp.151 3309)</p>		<p>COS/FUV, TIME-TAG, PSA</p> <p>G130M</p> <p>1291 A</p>	<p>BUFFER-TIME=29</p> <p>40;</p> <p>FP-POS=3</p>	<p>2170 Secs (2170 Secs)</p>					
<p><i>Comments: BOP calculation with 4X SED (without additional $A_V=0.50$): COS.sp.1513309, B.P=0.095</i></p> <p><i>Baseline SED (scaled with additional $A_V=0.50$) calculation for G130M/c1291: COS.sp.1513308, B.P=0.095. Total S/N achieved in G130M exposures ~11/resel @1239A</i></p> <p><i>sz66_1ya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None)</i></p> <p><i>Input file: spring-survey-todo-crp04feb21.csv</i></p> <p><i>Spectral type: M3 ; A_V: 1.0 ; Distance (pc): 150</i></p> <p><i>M^*: 0.29 ; $\log(dm/dt)$: -8.54</i></p> <p><i>For exptime=3020.9 s, spectral region:</i></p> <p><i>1239.0 +- 1.0 A achieves SNR=10.0 / 6-pix-resel</i></p> <p><i>A factor of 2.0 has been applied to the exptime in each exposure.</i></p> <p><i>global countrate (brightest segment): 315.9 cts/s/segment</i></p> <p><i>brightest pixel: 0.011 cts/s/pix at 1304.8 A</i></p> <p><i>Calculation performed 2021-02-12T16:28:52, v0.21</i></p>									
3	G130M/129 1-4 (COS.sp.148 1668)	(1) SZ66	COS/FUV, TIME-TAG, PSA	G130M				2471 Secs (2471 Secs)	
								[==>]	[2]
								<p><i>Comments: BOP calculation with 4X SED (without additional $A_V=0.50$): COS.sp.1481668, B.P=0.095</i></p> <p><i>Baseline SED (scaled with additional $A_V=0.50$) calculation for G130M/c1291: COS.sp.1481665, B.P=0.095. Total S/N achieved in G130M exposures ~11/resel @1239A</i></p> <p><i>sz66_1ya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None)</i></p> <p><i>Input file: spring-survey-todo-crp04feb21.csv</i></p> <p><i>Spectral type: M3 ; A_V: 1.0 ; Distance (pc): 150</i></p> <p><i>M^*: 0.29 ; $\log(dm/dt)$: -8.54</i></p> <p><i>For exptime=3020.9 s, spectral region:</i></p> <p><i>1239.0 +- 1.0 A achieves SNR=10.0 / 6-pix-resel</i></p> <p><i>A factor of 2.0 has been applied to the exptime in each exposure.</i></p> <p><i>global countrate (brightest segment): 315.9 cts/s/segment</i></p> <p><i>brightest pixel: 0.011 cts/s/pix at 1304.8 A</i></p> <p><i>Calculation performed 2021-02-12T16:28:52, v0.21</i></p>	
<p>3</p> <p>G130M/129 (1) SZ66</p> <p>1-4</p> <p>(COS.sp.148 1668)</p>		<p>COS/FUV, TIME-TAG, PSA</p> <p>G130M</p> <p>1291 A</p>	<p>BUFFER-TIME=29</p> <p>40;</p> <p>FP-POS=4</p>	<p>2471 Secs (2471 Secs)</p>					

Exposures

Proposal 16477 - SZ66-COS (1C) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

4	G160M/158 (1) SZ66 9-3 (COS.sp.148 1639)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=65 83; FP-POS=3	2469 Secs (2469 Secs) [==>]	[3]
<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1481639, B.P=0.057</i> <i>Baseline SED (scaled with additional A_V=0.50) calculation for G160M/c1589: COS.sp.1481634, B.P=0.004. Total S/N achieved in 4 G160M exposures ~23/resel @1548.5A</i></p> <p><i>sz66_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1589,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M3 ; A_V: 1.0 ; Distance (pc): 150</i> <i>M*: 0.29 ; log(dm/dt): -8.54</i> <i>For exptime=2620.1 s, spectral region:</i> <i>1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623</i> <i>The exptime for this c1589 exposure has been halved because c1589 & c1623 target the same line.</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 86.3 cts/s/segment</i> <i>brightest pixel: 0.004 cts/s/pix at 1446.2 A</i> <i>Calculation performed 2021-02-12T16:28:48, v0.21</i></p>						
5	G160M/158 (1) SZ66 9-4 (COS.sp.148 1639)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=65 83; FP-POS=4	2469 Secs (2469 Secs) [==>]	[4]
<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1481639, B.P=0.057</i> <i>Baseline SED (scaled with additional A_V=0.50) calculation for G160M/c1589: COS.sp.1481634, B.P=0.004. Total S/N achieved in 4 G160M exposures ~23/resel @1548.5A</i></p> <p><i>sz66_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1589,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M3 ; A_V: 1.0 ; Distance (pc): 150</i> <i>M*: 0.29 ; log(dm/dt): -8.54</i> <i>For exptime=2620.1 s, spectral region:</i> <i>1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623</i> <i>The exptime for this c1589 exposure has been halved because c1589 & c1623 target the same line.</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 86.3 cts/s/segment</i> <i>brightest pixel: 0.004 cts/s/pix at 1446.2 A</i> <i>Calculation performed 2021-02-12T16:28:48, v0.21</i></p>						





Visit	<p>Proposal 16477, SZ66-COS (AC), implementation</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 25-JUN-2021:00:00:00 AND 01-SEP-2021:00:00</p> <p><i>Comments: vstatus; AC; SZ66; P/COS approved for submission; P/DS 10/03/21 ; intrev: complete ; P/CP 18/03/21</i></p> <p><i>vcheck; Enter targ name & Inst. & Resp. Sci.; SZ66 ; COS ; DS</i></p> <p><i>vcheck; ETC numbers entered in APT?; Yes</i></p> <p><i>vcheck; Any screening violations?; No</i></p> <p><i>vcheck; M-dwarf check complete and added to box folder?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/survey/revise-mstar-bop.xls</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>located at: box/ullyses_tech/ullyses_proposals/survey/16477/images/sz66/</i></p> <p><i>vcheck; Selected ACQ strategy?; Yes ...</i></p> <p><i>BOP clearing recommended BOA/MirrorA too expensive. Adopted BOA/MirrorA w/ S/N = 60 ACQ on offset star</i></p> <p><i>This offset acquisition target for SZ66 is ~46.5' away from SZ66 and GAIA G mag and colors for this target is consistent with a slightly reddened F8V star.</i></p> <p><i>Anders+2019 reports Av=0.08, (E(B-V)=0.0249), Teff=6174.1, logg=4.41, Fe/H=-0.33</i></p> <p><i>B = 9.3, V = 8.7, G = 8.6 from SIMBAD</i></p> <p><i>BOT check fails assuming O5V. ETC screening for O3V fails too (COS.ta.1513305: B.P = 119.935)</i></p> <p><i>However, if this was a reddened early O-type star then the observed B-V = 0.56 and typical intrinsic B - V ~ -0.3 suggests E(B-V) ~ 0.85 and assuming R_v = 3.1, A_v ~ 2.6.</i></p> <p><i>This puts the unreddened V mag at 6.1. The luminosity distance needed for an early O star with V=6.1 is much higher than the distance of ~69 pc inferred from parallax.</i></p> <p><i>vcheck; Possible ACQ or Sci spoilers?; No</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>The star at ~6.5 arcsec away is SZ65; SIMBAD lists the spectral class as K7.</i></p> <p><i>FUV 4x BOP calculations: COS.sp.1513310 -Safe</i></p> <p><i>(using Box/ullyses_tech/ullyses_proposals/survey/16477/seds/sz66/sz65_lya2_x4.00_etc.txt)</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; Yes ...</i></p> <p><i>STIS visit has GROUP 1S,1C,1D WITHIN 1D</i></p> <p><i>vcheck; phase constraint for ground based observations added?; N/A</i></p> <p><i>vcheck; BETWEENS for coordinated observations added?; Yes ...</i></p> <p><i>25 June 2021 00:00 - 21 August 2021 00:00, updated to facilitate ground-based coordination with VLT</i></p> <p><i>vcheck; Is visit ready for int. review?; Yes</i></p> <p><i>Allocated COS orbits = 7</i></p> <p><i>Repeat of 1C under approved HOPR 92021</i></p>
--------------	--

Proposal 16477 - SZ66-COS (AC) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	SZ66	RA: 15 39 28.2664 (234.8677767d)	Proper Motion RA: -13.6020415 mas/yr	V=15.0	Reference Frame: ICRS
	Alt Name1: MJS2008-5 Alt Name2: J15392828-3446180	Dec: -34 46 18.42 (-34.77178d) Equinox: J2000	Proper Motion Dec: -21.56545246 mas/yr Parallax: 0.006355740815" Epoch of Position: 2015.5	SpT=M3; A_v=1.00; U=15.4; B=16.45; V=15.0; R=14.51; J=10.9	
<p><i>Comments: Sz66 : MJS2008-5, J15392828-3446180</i> <i>Region: Lupus I</i> <i>Simbad: https://simbad.u-strasbg.fr/simbad/sim-id?Ident=2MASS+J15392828-3446180&submit=submit+id</i> <i>Target coordinates are from Gaia DR2.</i> <i>Spectral type: M3 ; A_v: 1.0 ; Distance (pc): 150</i> <i>M*: 0.29 ; log(dm/dt): -8.54</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>sz66_lya2_etc_scaled_pAV0.50.txt</i> <i>Calculation performed 2021-02-12T16:28:52, v0.6</i></p> <hr/> <p><i>tstatus: SZ66; P/COS approved for submission; S/STIS approved for submission; P/DS 02/03/21; S/DS 02/03/21</i> <i>tcheck; APT/SIMBAD target names: ; SZ66 ...</i> <i>Default SIMBAD name is Sz 66, aka 2MASS J15392828-3446180, Gaia DR2 6013399830146943104</i> <i>tcheck; Target info verification status?: OK ...</i> <i>Flam(V) = 3.56e-15 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD. R = 14.5 from SIMBAD</i> <i>tcheck; Coordinates & P.M. verified, epoch checked?: Yes</i> <i>tcheck; Adopted SED compared to Observations?: Yes</i> <i>Category=STAR</i> <i>Description=[T TAURI STAR, PRE-MAIN SEQUENCE STAR]</i> <i>Extended=NO</i></p>					
(7)	SZ66-OFFSET	RA: 15 39 25.3300 (234.8555417d)	Proper Motion RA: 4.8328700792762245 mas/yr	V=8.73+/-0.02	Reference Frame: ICRS
	Alt Name1: HD139450 Alt Name2: GAIA-DR2-6013399864506681344	Dec: -34 46 47.09 (-34.77975d) Equinox: J2000	Proper Motion Dec: 38.62686457497966 mas/yr Parallax: 1.4473194343043208E-02" Epoch of Position: 2015.5	SpT = F8V; A_v = 0.08; G = 8.6 ; Bp - Rp = 0.70; B = 9.3; V = 8.7	
<p><i>Comments: COS offset target acq star for SZ66</i> <i>~46.5" away from SZ66</i></p> <p><i>Anders+2019 (Starhorse catalog) reports Av=0.08 (E(B-V)=0.0249), Teff=6174.1, logg=4.41, Fe/H=-0.33</i> <i>Observed B and V band photometries are from SIMBAD and match closely with interpolated photometry assuming target SpT F8V:</i> <i>V (interploated) = 16.33 from G = 16.25 with G - V = -0.08</i> <i>B (interploated) = 16.70 from V = 16.33 with B - V = 0.37</i></p> <p><i>Parallax for this star suggests distance ~ 69 pc.</i></p> <p><i>If this was a reddened early O-type star then the observed B-V = 0.56 and typical intrinsic B - V ~ -0.3 suggests E(B-V) ~ 0.85 and assuming R_v = 3.1, A_v ~ 2.6.</i> <i>This puts the unreddened V mag at 6.1. The luminosity distance needed for an early O star with V=6.1 is much higher than the distance inferred from parallax.</i> <i>Category=STAR</i> <i>Description=[F3-F9]</i> <i>Extended=NO</i></p>					

Fixed Targets

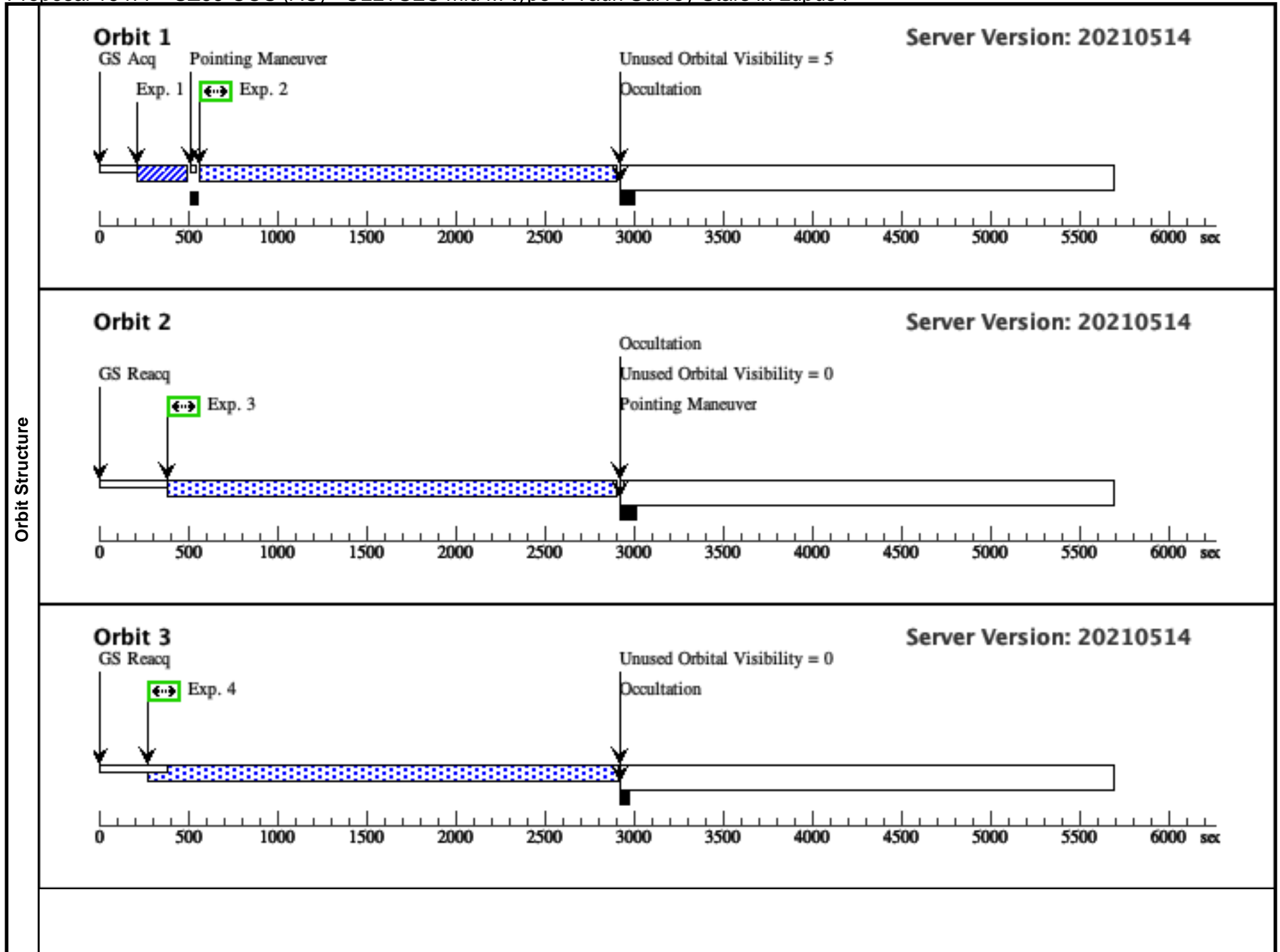
Proposal 16477 - SZ66-COS (AC) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

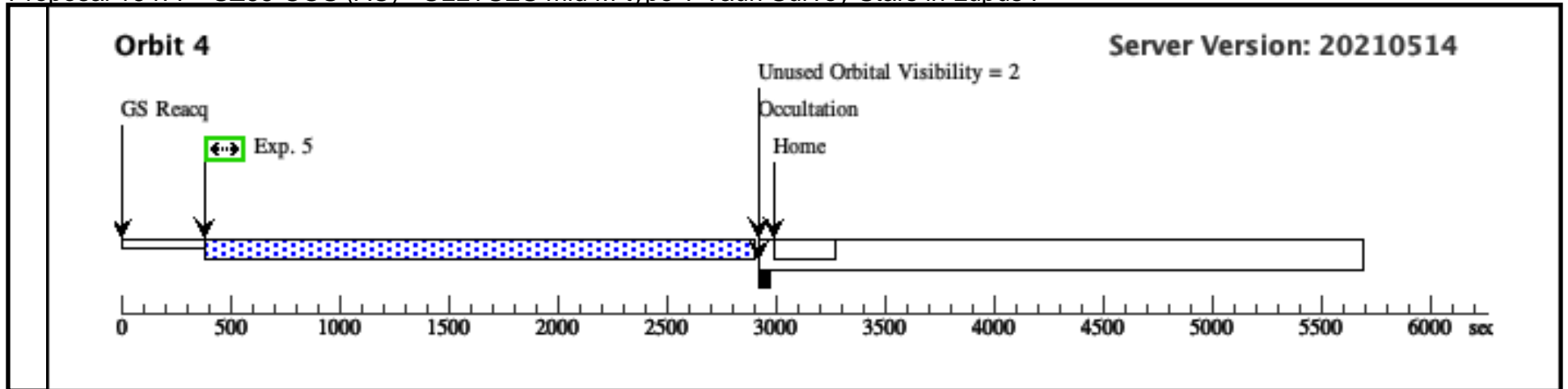
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/Image (COS.ta.151 3298)	(7) SZ66-OFFSET	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				23 Secs (23 Secs)	
								[==>]	[1]
								<p><i>Comments: This offset acquisition target for SZ66 is ~46.5" away from SZ66 and GAIA G mag and colors for this target is consistent with a slightly reddened F8V star. Anders+2019 reports $A_V=0.08$, $(E(B-V))=0.0249$, $T_{\text{eff}}=6174.1$, $\log g=4.41$, $Fe/H=-0.33$</i></p> <p><i>For S/N = 60 with BOA/MirrorA, ETC calculation using Castelli-Kurucz Model F8V 6250 4.0, normalized to Johnson B = 9.3 Vegamag with $E(B-V) = 0.025$: COS.ta.1513298, B.P = 22.043</i></p> <p><i>Screening for this star assuming SpT = O3V fails (COS.ta.1513305: B.P = 119.935). However, if this was a reddened early O-type star then the observed B-V = 0.56 and typical intrinsic B - V ~ -0.3 suggests $E(B-V) \sim 0.85$ and assuming $R_V = 3.1$, $A_V \sim 2.6$. This puts the unreddened V mag at 6.1. The luminosity distance needed for an early O star with $V=6.1$ is much higher than the distance of ~69 pc inferred from parallax. BOT Health and safety warning assuming O5V.</i></p>	
2	G130M/129 1-3 (COS.sp.151 3309)	(1) SZ66	COS/FUV, TIME-TAG, PSA	G130M	1291 A	40;	FP-POS=3	2170 Secs (2170 Secs)	
				[==>]	[1]				
				<p><i>Comments: BOP calculation with 4X SED (without additional $A_V=0.50$): COS.sp.1513309, B.P=0.095</i></p> <p><i>Baseline SED (scaled with additional $A_V=0.50$) calculation for G130M/c1291: COS.sp.1513308, B.P=0.095. Total S/N achieved in G130M exposures ~11/resel @1239A</i></p> <p><i>sz66_1ya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None)</i></p> <p><i>Input file: spring-survey-todo-crp04feb21.csv</i></p> <p><i>Spectral type: M3 ; A_V: 1.0 ; Distance (pc): 150</i></p> <p><i>M^*: 0.29 ; $\log(dm/dt)$: -8.54</i></p> <p><i>For exptime=3020.9 s, spectral region:</i></p> <p><i>1239.0 +- 1.0 A achieves SNR=10.0 / 6-pix-resel</i></p> <p><i>A factor of 2.0 has been applied to the exptime in each exposure.</i></p> <p><i>global countrate (brightest segment): 315.9 cts/s/segment</i></p> <p><i>brightest pixel: 0.011 cts/s/pix at 1304.8 A</i></p> <p><i>Calculation performed 2021-02-12T16:28:52, v0.21</i></p>					
3	G130M/129 1-4 (COS.sp.148 1668)	(1) SZ66	COS/FUV, TIME-TAG, PSA	G130M	1291 A	40;	FP-POS=4	2471 Secs (2471 Secs)	
				[==>]	[2]				
				<p><i>Comments: BOP calculation with 4X SED (without additional $A_V=0.50$): COS.sp.1481668, B.P=0.095</i></p> <p><i>Baseline SED (scaled with additional $A_V=0.50$) calculation for G130M/c1291: COS.sp.1481665, B.P=0.095. Total S/N achieved in G130M exposures ~11/resel @1239A</i></p> <p><i>sz66_1ya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None)</i></p> <p><i>Input file: spring-survey-todo-crp04feb21.csv</i></p> <p><i>Spectral type: M3 ; A_V: 1.0 ; Distance (pc): 150</i></p> <p><i>M^*: 0.29 ; $\log(dm/dt)$: -8.54</i></p> <p><i>For exptime=3020.9 s, spectral region:</i></p> <p><i>1239.0 +- 1.0 A achieves SNR=10.0 / 6-pix-resel</i></p> <p><i>A factor of 2.0 has been applied to the exptime in each exposure.</i></p> <p><i>global countrate (brightest segment): 315.9 cts/s/segment</i></p> <p><i>brightest pixel: 0.011 cts/s/pix at 1304.8 A</i></p> <p><i>Calculation performed 2021-02-12T16:28:52, v0.21</i></p>					

Exposures

Proposal 16477 - SZ66-COS (AC) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

4	G160M/158 (1) SZ66 9-3 (COS.sp.148 1639)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=65 83; FP-POS=3	2469 Secs (2469 Secs) [==>]	[3]
<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1481639, B.P=0.057</i> <i>Baseline SED (scaled with additional A_V=0.50) calculation for G160M/c1589: COS.sp.1481634, B.P=0.004. Total S/N achieved in 4 G160M exposures ~23/resel @1548.5A</i></p> <p><i>sz66_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1589,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M3 ; A_V: 1.0 ; Distance (pc): 150</i> <i>M*: 0.29 ; log(dm/dt): -8.54</i> <i>For exptime=2620.1 s, spectral region:</i> <i>1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623</i> <i>The exptime for this c1589 exposure has been halved because c1589 & c1623 target the same line.</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 86.3 cts/s/segment</i> <i>brightest pixel: 0.004 cts/s/pix at 1446.2 A</i> <i>Calculation performed 2021-02-12T16:28:48, v0.21</i></p>						
5	G160M/158 (1) SZ66 9-4 (COS.sp.148 1639)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=65 83; FP-POS=4	2469 Secs (2469 Secs) [==>]	[4]
<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1481639, B.P=0.057</i> <i>Baseline SED (scaled with additional A_V=0.50) calculation for G160M/c1589: COS.sp.1481634, B.P=0.004. Total S/N achieved in 4 G160M exposures ~23/resel @1548.5A</i></p> <p><i>sz66_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1589,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M3 ; A_V: 1.0 ; Distance (pc): 150</i> <i>M*: 0.29 ; log(dm/dt): -8.54</i> <i>For exptime=2620.1 s, spectral region:</i> <i>1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623</i> <i>The exptime for this c1589 exposure has been halved because c1589 & c1623 target the same line.</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 86.3 cts/s/segment</i> <i>brightest pixel: 0.004 cts/s/pix at 1446.2 A</i> <i>Calculation performed 2021-02-12T16:28:48, v0.21</i></p>						





Visit	<p>Proposal 16477, SZ66-COS (1D), failed</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 29-APR-2021:09:00 AND 11-MAY-2021:15:40; BETWEEN 12-MAY-2021:19:40 AND 25-MAY-2021:20:55</p> <p><i>Comments: vstatus; 1D; SZ66; P/COS approved for submission; P/DS 10/03/21 ; intrev: complete ; P/CP 18/03/21</i></p> <p><i>vcheck; Enter targ name & Inst. & Resp. Sci.; SZ66 ; COS ; DS</i></p> <p><i>vcheck; ETC numbers entered in APT?; Yes</i></p> <p><i>vcheck; Any screening violations?; No</i></p> <p><i>vcheck; M-dwarf check complete and added to box folder?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/survey/revise-mstar-bop.xls</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>located at: box/ullyses_tech/ullyses_proposals/survey/16477/images/sz66/</i></p> <p><i>vcheck; Selected ACQ strategy?; Yes ...</i></p> <p><i>BOP clearing recommended BOA/MirrorA too expensive. Adopted BOA/MirrorA w/ S/N = 60 ACQ on offset star</i></p> <p><i>This offset acquisition target for SZ66 is ~46.5' away from SZ66 and GAIA G mag and colors for this target is consistent with a slightly reddened F8V star.</i></p> <p><i>Anders+2019 reports Av=0.08, (E(B-V)=0.0249), Teff=6174.1, logg=4.41, Fe/H=-0.33</i></p> <p><i>B = 9.3, V = 8.7, G = 8.6 from SIMBAD</i></p> <p><i>BOT check fails assuming O5V. ETC screening for O3V fails too (COS.ta.1513305: B.P = 119.935)</i></p> <p><i>However, if this was a reddened early O-type star then the observed B-V = 0.56 and typical intrinsic B - V ~ -0.3 suggests E(B-V) ~ 0.85 and assuming R_v = 3.1, A_v ~ 2.6.</i></p> <p><i>This puts the unreddened V mag at 6.1. The luminosity distance needed for an early O star with V=6.1 is much higher than the distance of ~69 pc inferred from parallax.</i></p> <p><i>vcheck; Possible ACQ or Sci spoilers?; No</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>The star at ~6.5 arcsec away is SZ65; SIMBAD lists the spectral class as K7.</i></p> <p><i>FUV 4x BOP calculations: COS.sp.1513310 -Safe</i></p> <p><i>(using Box/ullyses_tech/ullyses_proposals/survey/16477/seds/sz66/sz65_1ya2_x4.00_etc.txt)</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; Yes ...</i></p> <p><i>STIS visit has GROUP 1S,1C,1D WITHIN 1D</i></p> <p><i>vcheck; phase constraint for ground based observations added?; N/A</i></p> <p><i>vcheck; BETWEENS for coordinated observations added?; Yes ...</i></p> <p><i>29 APR 2021 09:00 to 11 May 2021 15:40 and 12 May 2021 19:40 - 25 May 2021 20:55</i></p> <p><i>vcheck; Is visit ready for int. review?; Yes</i></p> <p><i>Allocated COS orbits = 7</i></p>
--------------	--

Proposal 16477 - SZ66-COS (1D) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	SZ66 Alt Name1: MJS2008-5 Alt Name2: J15392828-3446180	RA: 15 39 28.2664 (234.8677767d) Dec: -34 46 18.42 (-34.77178d) Equinox: J2000	Proper Motion RA: -13.6020415 mas/yr Proper Motion Dec: -21.56545246 mas/yr Parallax: 0.006355740815" Epoch of Position: 2015.5	V=15.0 SpT=M3; A_v=1.00; U=15.4; B=16.45; V=15.0; R=14.51; J=10.9	Reference Frame: ICRS
<p><i>Comments: Sz66 : MJS2008-5, J15392828-3446180</i> <i>Region: Lupus I</i> <i>Simbad: https://simbad.u-strasbg.fr/simbad/sim-id?Ident=2MASS+J15392828-3446180&submit=submit+id</i> <i>Target coordinates are from Gaia DR2.</i> <i>Spectral type: M3 ; A_v: 1.0 ; Distance (pc): 150</i> <i>M*: 0.29 ; log(dm/dt): -8.54</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>sz66_lya2_etc_scaled_pAV0.50.txt</i> <i>Calculation performed 2021-02-12T16:28:52, v0.6</i></p> <hr/> <p><i>tstatus: SZ66; P/COS approved for submission; S/STIS approved for submission; P/DS 02/03/21; S/DS 02/03/21</i> <i>tcheck; APT/SIMBAD target names: ; SZ66 ...</i> <i>Default SIMBAD name is Sz 66, aka 2MASS J15392828-3446180, Gaia DR2 6013399830146943104</i> <i>tcheck; Target info verification status?: OK ...</i> <i>Flam(V) = 3.56e-15 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD. R = 14.5 from SIMBAD</i> <i>tcheck; Coordinates & P.M. verified, epoch checked?: Yes</i> <i>tcheck; Adopted SED compared to Observations?: Yes</i> <i>Category=STAR</i> <i>Description=[T TAURI STAR, PRE-MAIN SEQUENCE STAR]</i> <i>Extended=NO</i></p>					
(7)	SZ66-OFFSET Alt Name1: HD139450 Alt Name2: GAIA-DR2-6013399864506681344	RA: 15 39 25.3300 (234.8555417d) Dec: -34 46 47.09 (-34.77975d) Equinox: J2000	Proper Motion RA: 4.8328700792762245 mas/yr Proper Motion Dec: 38.62686457497966 mas/yr Parallax: 1.4473194343043208E-02" Epoch of Position: 2015.5	V=8.73+/-0.02 SpT = F8V; A_v = 0.08; G = 8.6 ; Bp - Rp = 0.70; B = 9.3; V = 8.7	Reference Frame: ICRS
<p><i>Comments: COS offset target acq star for SZ66</i> <i>~46.5" away from SZ66</i></p> <p><i>Anders+2019 (Starhorse catalog) reports Av=0.08 (E(B-V)=0.0249), Teff=6174.1, logg=4.41, Fe/H=-0.33</i> <i>Observed B and V band photometries are from SIMBAD and match closely with interpolated photometry assuming target SpT F8V:</i> <i>V (interploated) = 16.33 from G = 16.25 with G - V = -0.08</i> <i>B (interploated) = 16.70 from V = 16.33 with B - V = 0.37</i></p> <p><i>Parallax for this star suggests distance ~ 69 pc.</i></p> <p><i>If this was a reddened early O-type star then the observed B-V = 0.56 and typical intrinsic B - V ~ -0.3 suggests E(B-V) ~ 0.85 and assuming R_v = 3.1, A_v ~ 2.6.</i> <i>This puts the unreddened V mag at 6.1. The luminosity distance needed for an early O star with V=6.1 is much higher than the distance inferred from parallax.</i> <i>Category=STAR</i> <i>Description=[F3-F9]</i> <i>Extended=NO</i></p>					

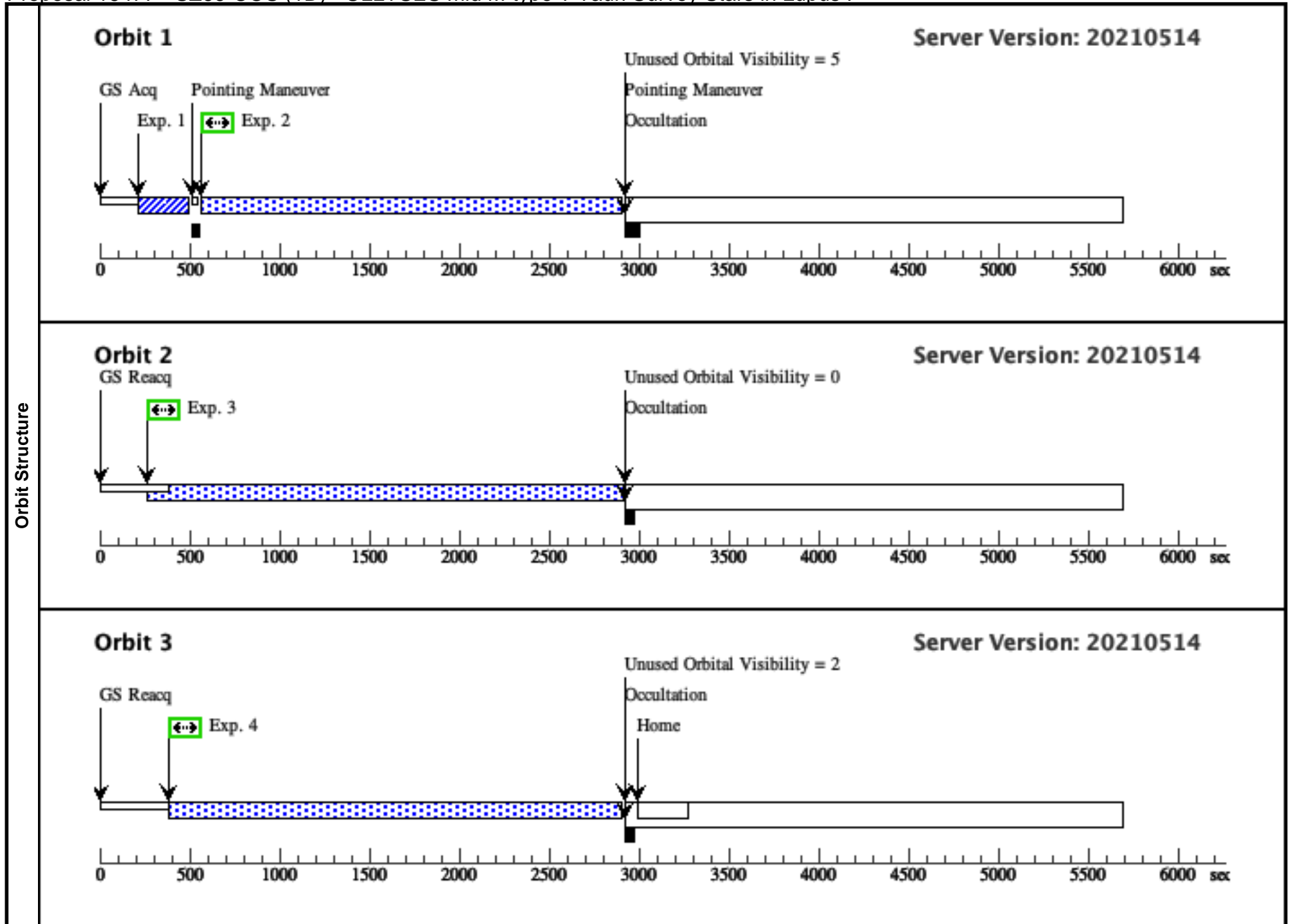
Fixed Targets

Proposal 16477 - SZ66-COS (1D) - ULLYSES mid M-type T Tauri Survey Stars in Lupus 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 (COS.ta.151 3298)	(7) SZ66-OFFSET COS/NUV, ACQ/IMAGE, BOA	MIRRORA				23 Secs (23 Secs) [==>]	[1]
	<p>Comments: This offset acquisition target for SZ66 is ~46.5" away from SZ66 and GAIA G mag and colors for this target is consistent with a slightly reddened F8V star. Anders+2019 reports $A_V=0.08$, $(E(B-V)=0.0249)$, $T_{\text{eff}}=6174.1$, $\log g=4.41$, $Fe/H=-0.33$</p> <p>For S/N = 60 with BOA/MirrorA, ETC calculation using Castelli-Kurucz Model F8V 6250 4.0, normalized to Johnson B = 9.3 Vegamag with $E(B-V) = 0.025$: COS.ta.1513298, B.P = 22.043</p> <p>Screening for this star assuming $SpT = O3V$ fails (COS.ta.1513305: B.P = 119.935). However, if this was a reddened early O-type star then the observed B-V = 0.56 and typical intrinsic B - V ~ -0.3 suggests $E(B-V) \sim 0.85$ and assuming $R_V = 3.1$, $A_V \sim 2.6$. This puts the unreddened V mag at 6.1. The luminosity distance needed for an early O star with $V=6.1$ is much higher than the distance of ~69 pc inferred from parallax. BOT Health and safety warning assuming O5V.</p>								
	2	G130M/129 1-3 (COS.sp.151 3309)	(1) SZ66 COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=29 40; FP-POS=3			2170 Secs (2170 Secs) [==>]	[1]
<p>Comments: BOP calculation with 4X SED (without additional $A_V=0.50$): COS.sp.1513309, B.P=0.095 Baseline SED (scaled with additional $A_V=0.50$) calculation for G130M/c1291: COS.sp.1513308, B.P=0.095. Total S/N achieved in G130M exposures ~11/resel @1239A</p> <p><i>sz66_1ya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None)</i> Input file: spring-survey-todo-crp04feb21.csv Spectral type: M3 ; A_V: 1.0 ; Distance (pc): 150 M^*: 0.29 ; $\log(dm/dt)$: -8.54 For exptime=3020.9 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): 315.9 cts/s/segment brightest pixel: 0.011 cts/s/pix at 1304.8 A Calculation performed 2021-02-12T16:28:52, v0.21</p>									
Exposures	3	G160M/162 3-1 (COS.sp.148 1644)	(1) SZ66 COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=72 70; FP-POS=1			2469 Secs (2469 Secs) [==>]	[2]
	<p>Comments: BOP calculation with 4X SED (without additional $A_V=0.50$): COS.sp.1481644, B.P=0.056 Baseline SED (scaled with additional $A_V=0.50$) calculation for G160M/c1623: COS.sp.1481646, B.P=0.004. Total S/N achieved in 4 G160M exposures ~23/resel @1548.5A</p> <p><i>sz66_1ya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1623,psa,mjd#59305; fp-pos=None, segment=None)</i> Input file: spring-survey-todo-crp04feb21.csv Spectral type: M3 ; A_V: 1.0 ; Distance (pc): 150 M^*: 0.29 ; $\log(dm/dt)$: -8.54 For exptime=2691.2 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): 84.7 cts/s/segment brightest pixel: 0.004 cts/s/pix at 1446.2 A Calculation performed 2021-02-12T16:28:50, v0.21</p>								

Proposal 16477 - SZ66-COS (1D) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

4	G160M/162 (1) SZ66 3-2 (COS.sp.148 1644)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=72 70; FP-POS=2	2469 Secs (2469 Secs) [==>]	[3]
<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1481644, B.P=0.056</i> <i>Baseline SED (scaled with additional A_V=0.50) calculation for G160M/c1623: COS.sp.1481646, B.P=0.004. Total S/N achieved in 4 G160M exposures ~23/resel @1548.5A</i></p> <p><i>sz66_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1623,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M3 ; A_V: 1.0 ; Distance (pc): 150</i> <i>M*: 0.29 ; log(dm/dt): -8.54</i> <i>For exptime=2691.2 s, spectral region:</i> <i>1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623</i> <i>The exptime for this c1623 exposure has been halved because c1589 & c1623 target the same line.</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 84.7 cts/s/segment</i> <i>brightest pixel: 0.004 cts/s/pix at 1446.2 A</i> <i>Calculation performed 2021-02-12T16:28:50, v0.21</i></p>						



Visit	<p>Proposal 16477, SZ66-COS (AD), implementation</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 25-JUN-2021:00:00:00 AND 01-SEP-2021:00:00</p> <p><i>Comments: vstatus; AD; SZ66; P/COS approved for submission; P/DS 10/03/21 ; intrev: complete ; P/CP 18/03/21</i></p> <p><i>vcheck; Enter targ name & Inst. & Resp. Sci.; SZ66 ; COS ; DS</i></p> <p><i>vcheck; ETC numbers entered in APT?; Yes</i></p> <p><i>vcheck; Any screening violations?; No</i></p> <p><i>vcheck; M-dwarf check complete and added to box folder?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/survey/revise-mstar-bop.xls</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>located at: box/ullyses_tech/ullyses_proposals/survey/16477/images/sz66/</i></p> <p><i>vcheck; Selected ACQ strategy?; Yes ...</i></p> <p><i>BOP clearing recommended BOA/MirrorA too expensive. Adopted BOA/MirrorA w/ S/N = 60 ACQ on offset star</i></p> <p><i>This offset acquisition target for SZ66 is ~46.5' away from SZ66 and GAIA G mag and colors for this target is consistent with a slightly reddened F8V star.</i></p> <p><i>Anders+2019 reports Av=0.08, (E(B-V)=0.0249), Teff=6174.1, logg=4.41, Fe/H=-0.33</i></p> <p><i>B = 9.3, V = 8.7, G = 8.6 from SIMBAD</i></p> <p><i>BOT check fails assuming O5V. ETC screening for O3V fails too (COS.ta.1513305: B.P = 119.935)</i></p> <p><i>However, if this was a reddened early O-type star then the observed B-V = 0.56 and typical intrinsic B - V ~ -0.3 suggests E(B-V) ~ 0.85 and assuming R_v = 3.1, A_v ~ 2.6.</i></p> <p><i>This puts the unreddened V mag at 6.1. The luminosity distance needed for an early O star with V=6.1 is much higher than the distance of ~69 pc inferred from parallax.</i></p> <p><i>vcheck; Possible ACQ or Sci spoilers?; No</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>The star at ~6.5 arcsec away is SZ65; SIMBAD lists the spectral class as K7.</i></p> <p><i>FUV 4x BOP calculations: COS.sp.1513310 -Safe</i></p> <p><i>(using Box/ullyses_tech/ullyses_proposals/survey/16477/seds/sz66/sz65_lya2_x4.00_etc.txt)</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; Yes ...</i></p> <p><i>STIS visit has GROUP 1S,1C,1D WITHIN 1D</i></p> <p><i>vcheck; phase constraint for ground based observations added?; N/A</i></p> <p><i>vcheck; BETWEENS for coordinated observations added?; Yes ...</i></p> <p><i>25 June 2021 00:00 - 21 August 2021 00:00, updated to facilitate ground-based coordination with VLT</i></p> <p><i>vcheck; Is visit ready for int. review?; Yes</i></p> <p><i>Allocated COS orbits = 7</i></p> <p><i>Repeat of 1D under approved HOPR 92021</i></p>
-------	--

Proposal 16477 - SZ66-COS (AD) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	SZ66 Alt Name1: MJS2008-5 Alt Name2: J15392828-3446180	RA: 15 39 28.2664 (234.8677767d) Dec: -34 46 18.42 (-34.77178d) Equinox: J2000	Proper Motion RA: -13.6020415 mas/yr Proper Motion Dec: -21.56545246 mas/yr Parallax: 0.006355740815" Epoch of Position: 2015.5	V=15.0 SpT=M3; A_v=1.00; U=15.4; B=16.45; V=15.0; R=14.51; J=10.9	Reference Frame: ICRS
<p><i>Comments: Sz66 : MJS2008-5, J15392828-3446180</i> <i>Region: Lupus I</i> <i>Simbad: https://simbad.u-strasbg.fr/simbad/sim-id?Ident=2MASS+J15392828-3446180&submit=submit+id</i> <i>Target coordinates are from Gaia DR2.</i> <i>Spectral type: M3 ; A_v: 1.0 ; Distance (pc): 150</i> <i>M*: 0.29 ; log(dm/dt): -8.54</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>sz66_lya2_etc_scaled_pAV0.50.txt</i> <i>Calculation performed 2021-02-12T16:28:52, v0.6</i></p> <hr/> <p><i>tstatus: SZ66; P/COS approved for submission; S/STIS approved for submission; P/DS 02/03/21; S/DS 02/03/21</i> <i>tcheck; APT/SIMBAD target names: ; SZ66 ...</i> <i>Default SIMBAD name is Sz 66, aka 2MASS J15392828-3446180, Gaia DR2 6013399830146943104</i> <i>tcheck; Target info verification status?; OK ...</i> <i>Flam(V) = 3.56e-15 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD. R = 14.5 from SIMBAD</i> <i>tcheck; Coordinates & P.M. verified, epoch checked?; Yes</i> <i>tcheck; Adopted SED compared to Observations?; Yes</i> <i>Category=STAR</i> <i>Description=[T TAURI STAR, PRE-MAIN SEQUENCE STAR]</i> <i>Extended=NO</i></p>					
(7)	SZ66-OFFSET Alt Name1: HD139450 Alt Name2: GAIA-DR2-6013399864506681344	RA: 15 39 25.3300 (234.8555417d) Dec: -34 46 47.09 (-34.77975d) Equinox: J2000	Proper Motion RA: 4.8328700792762245 mas/yr Proper Motion Dec: 38.62686457497966 mas/yr Parallax: 1.4473194343043208E-02" Epoch of Position: 2015.5	V=8.73+/-0.02 SpT = F8V; A_v = 0.08; G = 8.6 ; Bp - Rp = 0.70; B = 9.3; V = 8.7	Reference Frame: ICRS
<p><i>Comments: COS offset target acq star for SZ66</i> <i>~46.5" away from SZ66</i></p> <p><i>Anders+2019 (Starhorse catalog) reports Av=0.08 (E(B-V)=0.0249), Teff=6174.1, logg=4.41, Fe/H=-0.33</i> <i>Observed B and V band photometries are from SIMBAD and match closely with interpolated photometry assuming target SpT F8V:</i> <i>V (interploated) = 16.33 from G = 16.25 with G - V = -0.08</i> <i>B (interploated) = 16.70 from V = 16.33 with B - V = 0.37</i></p> <p><i>Parallax for this star suggests distance ~ 69 pc.</i></p> <p><i>If this was a reddened early O-type star then the observed B-V = 0.56 and typical intrinsic B - V ~ -0.3 suggests E(B-V) ~ 0.85 and assuming R_v = 3.1, A_v ~ 2.6.</i> <i>This puts the unreddened V mag at 6.1. The luminosity distance needed for an early O star with V=6.1 is much higher than the distance inferred from parallax.</i> <i>Category=STAR</i> <i>Description=[F3-F9]</i> <i>Extended=NO</i></p>					

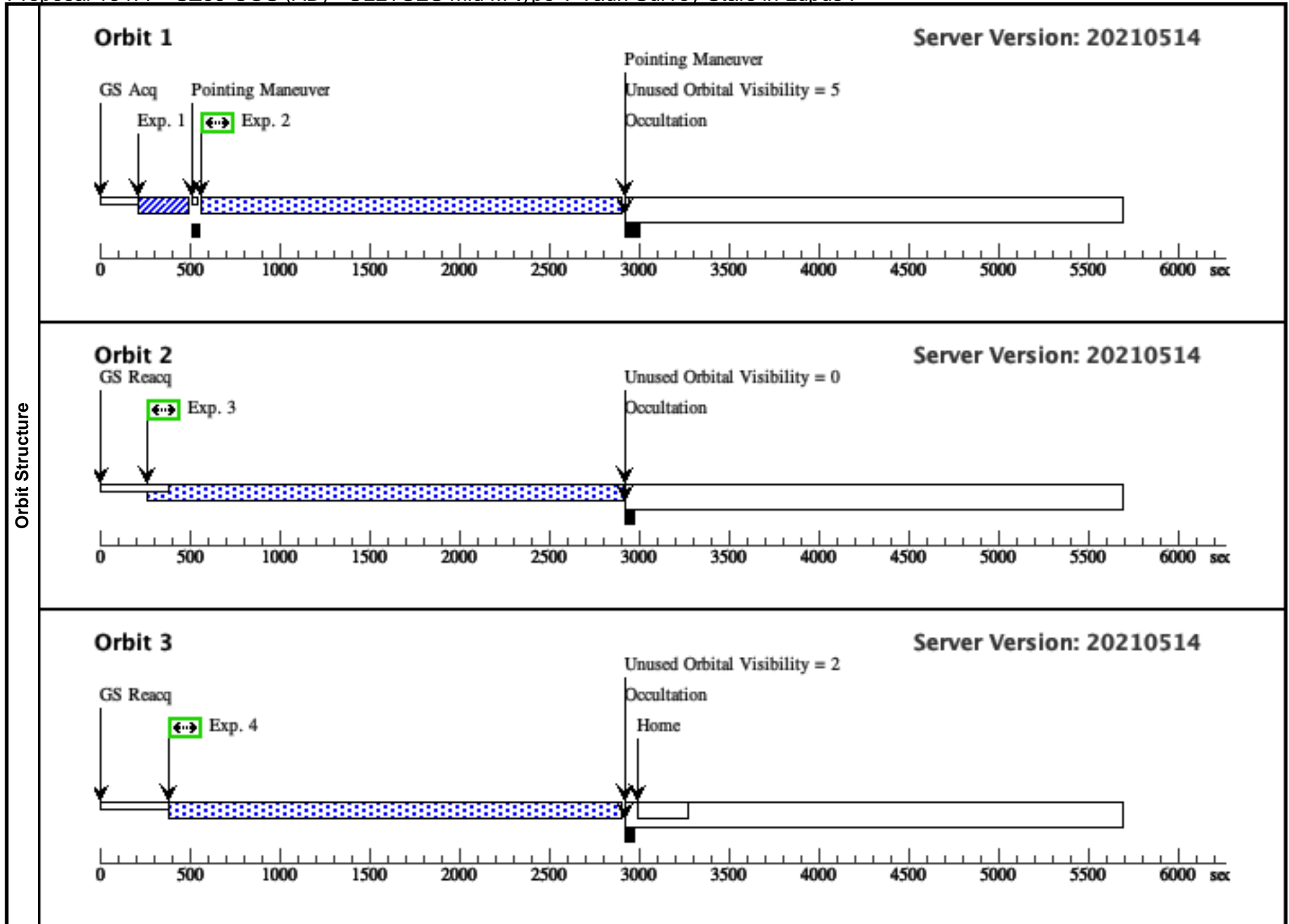
Fixed Targets

Proposal 16477 - SZ66-COS (AD) - ULLYSES mid M-type T Tauri Survey Stars in Lupus 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 (7) SZ66-OFFSET (COS.ta.1513298)	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				23 Secs (23 Secs) [==>]	[1]
	<p>Comments: This offset acquisition target for SZ66 is ~46.5" away from SZ66 and GAIA G mag and colors for this target is consistent with a slightly reddened F8V star. Anders+2019 reports $A_V=0.08$, $(E(B-V)=0.0249)$, $T_{\text{eff}}=6174.1$, $\log g=4.41$, $Fe/H=-0.33$</p> <p>For S/N = 60 with BOA/MirrorA, ETC calculation using Castelli-Kurucz Model F8V 6250 4.0, normalized to Johnson B = 9.3 Vegamag with $E(B-V) = 0.025$: COS.ta.1513298, B.P = 22.043</p> <p>Screening for this star assuming $SpT = O3V$ fails (COS.ta.1513305: B.P = 119.935). However, if this was a reddened early O-type star then the observed B-V = 0.56 and typical intrinsic B - V ~ -0.3 suggests $E(B-V) \sim 0.85$ and assuming $R_V = 3.1$, $A_V \sim 2.6$. This puts the unreddened V mag at 6.1. The luminosity distance needed for an early O star with $V=6.1$ is much higher than the distance of ~69 pc inferred from parallax. BOT Health and safety warning assuming O5V.</p>								
	2	G130M/129 1-3 (COS.sp.1513309)	(1) SZ66	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=29 40; FP-POS=3			2170 Secs (2170 Secs) [==>]
<p>Comments: BOP calculation with 4X SED (without additional $A_V=0.50$): COS.sp.1513309, B.P=0.095 Baseline SED (scaled with additional $A_V=0.50$) calculation for G130M/c1291: COS.sp.1513308, B.P=0.095. Total S/N achieved in G130M exposures ~11/resel @1239A</p> <p><i>sz66_1ya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None)</i> Input file: spring-survey-todo-crp04feb21.csv Spectral type: M3 ; A_V: 1.0 ; Distance (pc): 150 M^*: 0.29 ; $\log(dm/dt)$: -8.54 For exptime=3020.9 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): 315.9 cts/s/segment brightest pixel: 0.011 cts/s/pix at 1304.8 A Calculation performed 2021-02-12T16:28:52, v0.21</p>									
Exposures	3	G160M/162 3-1 (COS.sp.1481644)	(1) SZ66	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=72 70; FP-POS=1		2469 Secs (2469 Secs) [==>]	[2]
	<p>Comments: BOP calculation with 4X SED (without additional $A_V=0.50$): COS.sp.1481644, B.P=0.056 Baseline SED (scaled with additional $A_V=0.50$) calculation for G160M/c1623: COS.sp.1481646, B.P=0.004. Total S/N achieved in 4 G160M exposures ~23/resel @1548.5A</p> <p><i>sz66_1ya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1623,psa,mjd#59305; fp-pos=None, segment=None)</i> Input file: spring-survey-todo-crp04feb21.csv Spectral type: M3 ; A_V: 1.0 ; Distance (pc): 150 M^*: 0.29 ; $\log(dm/dt)$: -8.54 For exptime=2691.2 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): 84.7 cts/s/segment brightest pixel: 0.004 cts/s/pix at 1446.2 A Calculation performed 2021-02-12T16:28:50, v0.21</p>								
	<p><i>sz66_1ya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1623,psa,mjd#59305; fp-pos=None, segment=None)</i> Input file: spring-survey-todo-crp04feb21.csv Spectral type: M3 ; A_V: 1.0 ; Distance (pc): 150 M^*: 0.29 ; $\log(dm/dt)$: -8.54 For exptime=2691.2 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): 84.7 cts/s/segment brightest pixel: 0.004 cts/s/pix at 1446.2 A Calculation performed 2021-02-12T16:28:50, v0.21</p>								

Proposal 16477 - SZ66-COS (AD) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

4	G160M/162 (1) SZ66 3-2 (COS.sp.148 1644)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=72 70; FP-POS=2	2469 Secs (2469 Secs) [==>]	[3]
<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1481644, B.P=0.056</i> <i>Baseline SED (scaled with additional A_V=0.50) calculation for G160M/c1623: COS.sp.1481646, B.P=0.004. Total S/N achieved in 4 G160M exposures ~23/resel @1548.5A</i></p> <p><i>sz66_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1623,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M3 ; A_V: 1.0 ; Distance (pc): 150</i> <i>M*: 0.29 ; log(dm/dt): -8.54</i> <i>For exptime=2691.2 s, spectral region:</i> <i>1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623</i> <i>The exptime for this c1623 exposure has been halved because c1589 & c1623 target the same line.</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 84.7 cts/s/segment</i> <i>brightest pixel: 0.004 cts/s/pix at 1446.2 A</i> <i>Calculation performed 2021-02-12T16:28:50, v0.21</i></p>						



Proposal 16477, SZ66-STIS (1S), failed

Diagnostic Status: No Diagnostics

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

Special Requirements: SCHED 100%; ORIENT 13D TO 93 D; ORIENT 203D TO 272 D; BETWEEN 29-APR-2021:09:00 AND 11-MAY-2021:18:50; BETWEEN 12-MAY-2021:19:40 AND 26-MAY-2021:00:05; GROUP 1S,1C,1D WITHIN 1D

Comments: vstatus; 1S; SZ66; P/STIS approved for submission; P/DS 10/03/21 ;intrev: complete ; P/CP 18/03/21

vcheck; Enter targ name & Inst. & Resp. Sci.; SZ66 ; STIS ; DS

vcheck; ETC numbers entered in APT?; Yes

vcheck; Any screening violations?; No

vcheck; M-dwarf check complete and added to box folder?; Yes ...

located at: box/ullyses_tech/ullyses_proposals/survey/revise-mstar-bop.xls

vcheck; S/N ETC calcs done & documented?; Yes

vcheck; Field images checked & saved?; Yes ...

located at: box/ullyses_tech/ullyses_proposals/survey/16477/images/sz66/

vcheck; Selected ACQ strategy?; Yes ...

S/N = 80 using R mag with F28X50LP

vcheck; Possible ACQ or Sci spoilers?; Yes ...

The star ~6.5 arcsec away id SZ65, a K7 star with B=13.11, V=12.1, R=11.3 (from SIMBAD)

Applied ORIENT restrictions 29-85 degrees and 207-258 degrees to avoid catching the star withing slit using G230L, G430L and G750L

vcheck; Field BOT clear?; Yes

vcheck; Visual BOT check for stars not in catalog?; Yes ...

The star at ~6.5 arcsec away (SZ65) will not fall within the slit

vcheck; Orbit packing finalized?; Yes

vcheck; Buffer times optimized?; Yes

vcheck; Verify visit grouping correct; Yes ...

STIS visit has GROUP 1S,1C,1D WITHIN 1D

vcheck; phase constraint for ground based observations added?; N.A

vcheck; BETWEENS for coordinated observations added?; Yes

29 APR 2021 09:00 to 11 May 2021 18:50 and 12 May 2021 19:40 - 26 May 2021 00:05

vcheck; Is visit ready for int. review?; Yes

Allocated STIS orbits = 1

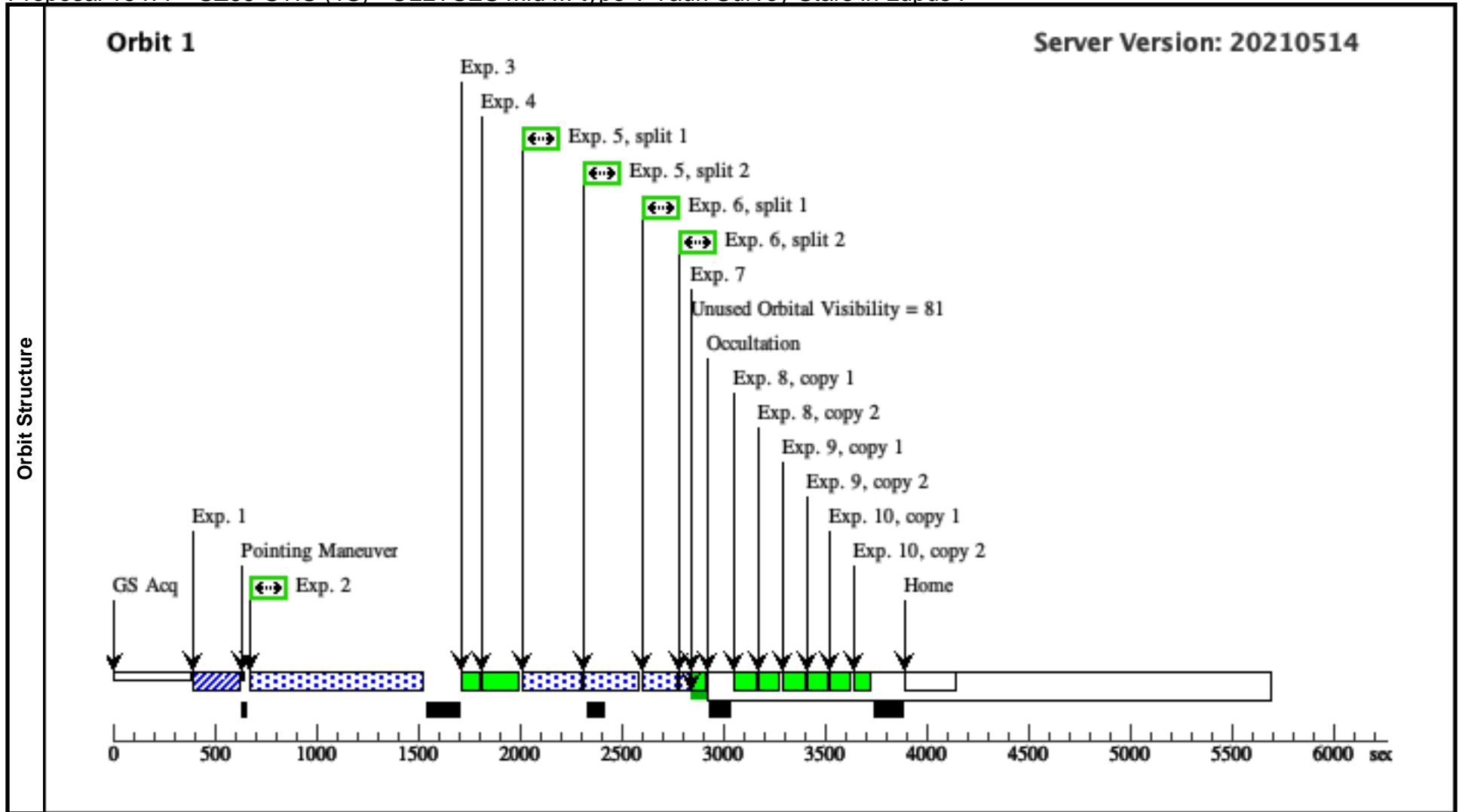
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	SZ66	RA: 15 39 28.2664 (234.8677767d)	Proper Motion RA: -13.6020415 mas/yr	V=15.0	Reference Frame: ICRS
	Alt Name1: MJS2008-5	Dec: -34 46 18.42 (-34.77178d)	Proper Motion Dec: -21.56545246 mas/yr	SpT=M3; A_V=1.00; U=15.4; B=16.45; V=15.0; R=14.51; J=10.9	
	Alt Name2: J15392828-3446180	Equinox: J2000	Parallax: 0.006355740815"		
			Epoch of Position: 2015.5		
<p><i>Comments: Sz66 : MJS2008-5, J15392828-3446180</i></p> <p><i>Region: Lupus I</i></p> <p><i>Simbad: https://simbad.u-strasbg.fr/simbad/sim-id?Ident=2MASS+J15392828-3446180&submit=submit+id</i></p> <p><i>Target coordinates are from Gaia DR2.</i></p> <p><i>Spectral type: M3 ; A_V: 1.0 ; Distance (pc): 150</i></p> <p><i>M*: 0.29 ; log(dm/dt): -8.54</i></p> <p><i>Input file: spring-survey-todo-crp04feb21.csv</i></p> <p><i>sz66_lya2_etc_scaled_pAV0.50.txt</i></p> <p><i>Calculation performed 2021-02-12T16:28:52, v0.6</i></p> <hr/> <p><i>tstatus; SZ66; P/COS approved for submission; S/STIS approved for submission; P/DS 02/03/21; S/DS 02/03/21</i></p> <p><i>tcheck; APT/SIMBAD target names: ; SZ66 ...</i></p> <p><i>Default SIMBAD name is Sz 66, aka 2MASS J15392828-3446180, Gaia DR2 6013399830146943104</i></p> <p><i>tcheck; Target info verification status?; OK ...</i></p> <p><i>Flam(V) = 3.56e-15 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD. R = 14.5 from SIMBAD</i></p> <p><i>tcheck; Coordinates & P.M. verified, epoch checked?; Yes</i></p> <p><i>tcheck; Adopted SED compared to Observations?; Yes</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>					

Proposal 16477 - SZ66-STIS (1S) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ (1) SZ66 (STIS.ta.148 1755)	STIS/CCD, ACQ, F28X50LP	MIRROR				0.9 Secs (0.9 Secs) [==>]	[1]	
	<p><i>Comments: Calculation with baseline SED (scaled with additional A_V=0.50), normalized to R=14.5 vegamag, for STIS/CCD/F28X50LP with S/N=80: STIS.ta.1481755</i> <i>BOP calculation with 4X baseline SED (without additional A_V=0.50), normalized to R=13.0 vegamag: STIS.ta.1481756</i></p>									
	2	G230L/2376 (1) SZ66 (STIS.sp.14 81986)	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	WAVECAL=NO; BUFFER-TIME=43 5			721.8 Secs (721.8 Secs) [==>]	[1]	
	<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): STIS.sp.1481986, B.P=5.928</i> <i>Baseline SED (scaled with additional A_V=0.50) calculation for G230L: STIS.sp.1481985, B.P=0.613</i></p> <p><i>sz66_lya2_etc_scaled_pAV0.50.txt; stis,nuvmama,g230l,c2376,52x2,mjd#59305</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M3 ; A_V: 1.0 ; Distance (pc): 150</i> <i>M*: 0.29 ; log(dm/dt): -8.54</i> <i>For exptime=133.9 s, spectral region:</i> <i>2800.0 +- 15.0 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): 2389.1 cts/s/segment</i> <i>brightest pixel: 0.615 cts/s/pix at 2796.8 A</i> <i>Calculation performed 2021-02-12T16:28:52, v0.21</i></p>									
	3	G230L/2376 WAVE WAVECAL	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				[==>]	[1]	
4	G430L/4300 WAVE WAVECAL	STIS/CCD, ACCUM, 52X0.1	G430L 4300 A				[==>]	[1]		
5	G430L/4300 (1) SZ66 (STIS.sp.14 81980)	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A	WAVECAL=NO; CR-SPLIT=2; GAIN=4			479 Secs (479 Secs) [==>(Split 1)] [==>(Split 2)]	[1]		
<p><i>Comments: Calculation with baseline SED (scaled with additional A_V=0.50), normalized to Flam(V)=3.56e-15 ergs/s/cm^2/Ang, for G430L: STIS.sp.1481980, B.P=6.181.</i> <i>BOP calculation with 4X SED (without additional A_V=0.50) no normalization: STIS.sp.1481982, B.P=218.6</i></p> <p><i>sz66_lya2_etc_scaled_pAV0.50.txt; stis,ccd,g430l,c4300,52x2,mjd#59305</i> <i>WARNING: operating mode = ACCUM</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M3 ; A_V: 1.0 ; Distance (pc): 150</i> <i>M*: 0.29 ; log(dm/dt): -8.54</i> <i>For exptime=41.5 s, n_reads=2, spectral region:</i> <i>4000.0 +- 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): 48117.3 cts/s/segment</i> <i>brightest pixel: 27.833 cts/s/pix at 4560.5 A</i> <i>Calculation performed 2021-02-12T16:28:52, v0.21</i></p>										

Proposal 16477 - SZ66-STIS (1S) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

6	G750L/7751 (1) SZ66 (STIS.sp.14 81983)	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A	WAVECAL=NO; CR-SPLIT=2; GAIN=1	25 Secs (25 Secs)	
					[==>(Split 1)]	[1]
<p><i>Comments: Calculation with baseline SED (scaled with additional A_V=0.50), normalized to Flam(V)=3.56e-15 ergs/s/cm^2/Ang, for G750L: STIS.sp.1481983, B.P=52.7</i> <i>BOP calculation with 4X SED (without additional A_V=0.50) and no normalization: STIS.sp.1481984, B.P=1617.6</i></p> <p><i>sz66_lya2_etc_scaled_pAV0.50.txt; stis.ccd,g750l,c7751,52x2,mjd#59305</i> <i>WARNING: operating mode = ACCUM</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M3 ; A_V: 1.0 ; Distance (pc): 150</i> <i>M*: 0.29 ; log(dm/dt): -8.54</i> <i>For exptime=2.8 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): 126185.2 cts/s/segment</i> <i>brightest pixel: 239.239 cts/s/pix at 6563.9 A</i> <i>Calculation performed 2021-02-12T16:28:52, v0.21</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, 52X0.2	G750L 7751 A		[==>(Copy 1)] [==>(Copy 2)]	[1]



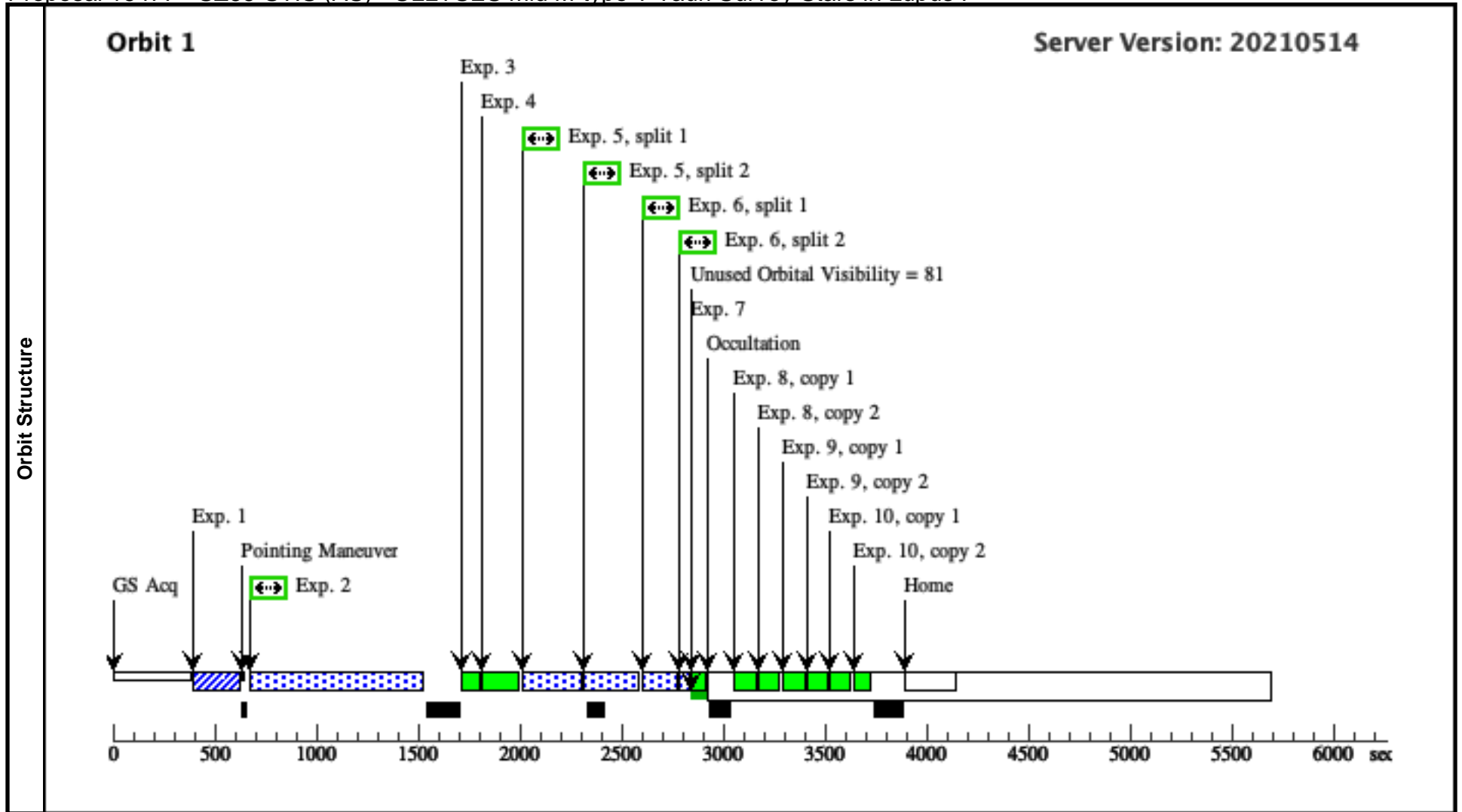
Visit	<p>Proposal 16477, SZ66-STIS (AS), implementation</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: STIS/NUV-MAMA, STIS/CCD</p> <p>Special Requirements: SCHED 100%; ORIENT 13D TO 93 D; ORIENT 203D TO 272 D; BETWEEN 25-JUN-2021:00:00:00 AND 01-SEP-2021:00:00; GROUP AS,AC,AD WITHIN 40H</p> <p><i>Comments: vstatus; AS; SZ66; P/STIS approved for submission; P/DS 10/03/21 ;intrev: complete ; P/CP 18/03/21</i></p> <p><i>vcheck; Enter targ name & Inst. & Resp. Sci.; SZ66 ; STIS ; DS</i></p> <p><i>vcheck; ETC numbers entered in APT?; Yes</i></p> <p><i>vcheck; Any screening violations?; No</i></p> <p><i>vcheck; M-dwarf check complete and added to box folder?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/survey/revise-mstar-bop.xls</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>located at: box/ullyses_tech/ullyses_proposals/survey/16477/images/sz66/</i></p> <p><i>vcheck; Selected ACQ strategy?; Yes ...</i></p> <p><i>S/N = 80 using R mag with F28X50LP</i></p> <p><i>vcheck; Possible ACQ or Sci spoilers?; Yes ...</i></p> <p><i>The star ~6.5 arcsec away id SZ65, a K7 star with B=13.11, V=12.1, R=11.3 (from SIMBAD)</i></p> <p><i>Applied ORIENT restrictions 29-85 degrees and 207-258 degrees to avoid catching the star withing slit using G230L, G430L and G750L</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>The star at ~6.5 arcsec away (SZ65) will not fall within the slit</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; Yes ...</i></p> <p><i>STIS visit has GROUP 1S,1C,1D WITHIN 1D</i></p> <p><i>vcheck; phase constraint for ground based observations added?; N.A</i></p> <p><i>vcheck; BETWEENS for coordinated observations added?; Yes</i></p> <p><i>25 June 2021 00:00 - 21 August 2021 00:00, updated to fascilitate ground-based coordination with VLT</i></p> <p><i>vcheck; Is visit ready for int. review?; Yes</i></p> <p><i>Allocated STIS orbits = 1</i></p> <p><i>Repeat of 1S under approved HOPR 92021</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>SZ66</td> <td>RA: 15 39 28.2664 (234.8677767d)</td> <td>Proper Motion RA: -13.6020415 mas/yr</td> <td>V=15.0</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td>Alt Name1: MJS2008-5</td> <td>Dec: -34 46 18.42 (-34.77178d)</td> <td>Proper Motion Dec: -21.56545246 mas/yr</td> <td>SpT=M3; A_V=1.00; U=15.4; B=16.45; V=15.0; R=14.51; J=10.9</td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: J15392828-3446180</td> <td>Equinox: J2000</td> <td>Parallax: 0.006355740815"</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Epoch of Position: 2015.5</td> <td></td> <td></td> </tr> </tbody> </table> <p><i>Comments: Sz66 : MJS2008-5, J15392828-3446180</i></p> <p><i>Region: Lupus I</i></p> <p><i>Simbad: https://simbad.u-strasbg.fr/simbad/sim-id?Ident=2MASS+J15392828-3446180&submit=submit+id</i></p> <p><i>Target coordinates are from Gaia DR2.</i></p> <p><i>Spectral type: M3 ; A_V: 1.0 ; Distance (pc): 150</i></p> <p><i>M*: 0.29 ; log(dm/dt): -8.54</i></p> <p><i>Input file: spring-survey-todo-crp04feb21.csv</i></p> <p><i>sz66_lya2_etc_scaled_pAV0.50.txt</i></p> <p><i>Calculation performed 2021-02-12T16:28:52, v0.6</i></p> <hr/> <p><i>tstatus; SZ66; P/COS approved for submission; S/STIS approved for submission; P/DS 02/03/21; S/DS 02/03/21</i></p> <p><i>tcheck; APT/SIMBAD target names: ; SZ66 ...</i></p> <p><i>Default SIMBAD name is Sz 66, aka 2MASS J15392828-3446180, Gaia DR2 6013399830146943104</i></p> <p><i>tcheck; Target info verification status?; OK ...</i></p> <p><i>Flam(V) = 3.56e-15 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD. R = 14.5 from SIMBAD</i></p> <p><i>tcheck; Coordinates & P.M. verified, epoch checked?; Yes</i></p> <p><i>tcheck; Adopted SED compared to Observations?; Yes</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	(1)	SZ66	RA: 15 39 28.2664 (234.8677767d)	Proper Motion RA: -13.6020415 mas/yr	V=15.0	Reference Frame: ICRS		Alt Name1: MJS2008-5	Dec: -34 46 18.42 (-34.77178d)	Proper Motion Dec: -21.56545246 mas/yr	SpT=M3; A_V=1.00; U=15.4; B=16.45; V=15.0; R=14.51; J=10.9			Alt Name2: J15392828-3446180	Equinox: J2000	Parallax: 0.006355740815"						Epoch of Position: 2015.5	
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																													
(1)	SZ66	RA: 15 39 28.2664 (234.8677767d)	Proper Motion RA: -13.6020415 mas/yr	V=15.0	Reference Frame: ICRS																													
	Alt Name1: MJS2008-5	Dec: -34 46 18.42 (-34.77178d)	Proper Motion Dec: -21.56545246 mas/yr	SpT=M3; A_V=1.00; U=15.4; B=16.45; V=15.0; R=14.51; J=10.9																														
	Alt Name2: J15392828-3446180	Equinox: J2000	Parallax: 0.006355740815"																															
			Epoch of Position: 2015.5																															

Proposal 16477 - SZ66-STIS (AS) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	ACQ (1) SZ66 (STIS.ta.148 1755)	STIS/CCD, ACQ, F28X50LP	MIRROR				0.9 Secs (0.9 Secs) [==>]	[1]
	<p>Comments: Calculation with baseline SED (scaled with additional A_V=0.50), normalized to R=14.5 vegamag, for STIS/CCD/F28X50LP with S/N=80: STIS.ta.1481755 BOP calculation with 4X baseline SED (without additional A_V=0.50), normalized to R=13.0 vegamag: STIS.ta.1481756</p>								
	2	G230L/2376 (1) SZ66 (STIS.sp.14 81986)	STIS/NUV-MAMA, TIME-TAG, 52X0.2	G230L 2376 A	WAVECAL=NO; BUFFER-TIME=43 5			721.8 Secs (721.8 Secs) [==>]	[1]
	<p>Comments: BOP calculation with 4X SED (without additional A_V=0.50): STIS.sp.1481986, B.P=5.928 Baseline SED (scaled with additional A_V=0.50) calculation for G230L: STIS.sp.1481985, B.P=0.613</p> <p>sz66_lya2_etc_scaled_pAV0.50.txt; stis,nuvmama,g230l,c2376,52x2,mjd#59305 Input file: spring-survey-todo-crp04feb21.csv Spectral type: M3 ; A_V: 1.0 ; Distance (pc): 150 M*: 0.29 ; log(dm/dt): -8.54 For exptime=133.9 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): 2389.1 cts/s/segment brightest pixel: 0.615 cts/s/pix at 2796.8 A Calculation performed 2021-02-12T16:28:52, v0.21</p>								
	3	G230L/2376 WAVE WAVECAL	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				[==>]	[1]
4	G430L/4300 WAVE WAVECAL	STIS/CCD, ACCUM, 52X0.1	G430L 4300 A				[==>]	[1]	
5	G430L/4300 (1) SZ66 (STIS.sp.14 81980)	STIS/CCD, ACCUM, 52X0.2	G430L 4300 A	WAVECAL=NO; CR-SPLIT=2; GAIN=4			479 Secs (479 Secs) [==>(Split 1)] [==>(Split 2)]	[1]	
<p>Comments: Calculation with baseline SED (scaled with additional A_V=0.50), normalized to Flam(V)=3.56e-15 ergs/s/cm^2/Ang, for G430L: STIS.sp.1481980, B.P=6.181. BOP calculation with 4X SED (without additional A_V=0.50) no normalization: STIS.sp.1481982, B.P=218.6</p> <p>sz66_lya2_etc_scaled_pAV0.50.txt; stis,ccd,g430l,c4300,52x2,mjd#59305 WARNING: operating mode = ACCUM Input file: spring-survey-todo-crp04feb21.csv Spectral type: M3 ; A_V: 1.0 ; Distance (pc): 150 M*: 0.29 ; log(dm/dt): -8.54 For exptime=41.5 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): 48117.3 cts/s/segment brightest pixel: 27.833 cts/s/pix at 4560.5 A Calculation performed 2021-02-12T16:28:52, v0.21</p>									

Proposal 16477 - SZ66-STIS (AS) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

6	G750L/7751 (1) SZ66 (STIS.sp.14 81983)	STIS/CCD, ACCUM, 52X0.2	G750L 7751 A	WAVECAL=NO; CR-SPLIT=2; GAIN=1	25 Secs (25 Secs)	
					[==>(Split 1)]	[1]
					[==>(Split 2)]	
<p><i>Comments: Calculation with baseline SED (scaled with additional A_V=0.50), normalized to Flam(V)=3.56e-15 ergs/s/cm^2/Ang, for G750L: STIS.sp.1481983, B.P=52.7</i> <i>BOP calculation with 4X SED (without additional A_V=0.50) and no normalization: STIS.sp.1481984, B.P=1617.6</i></p> <p><i>sz66_lya2_etc_scaled_pAV0.50.txt; stis.ccd,g750l,c7751,52x2,mjd#59305</i> <i>WARNING: operating mode = ACCUM</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M3 ; A_V: 1.0 ; Distance (pc): 150</i> <i>M*: 0.29 ; log(dm/dt): -8.54</i> <i>For exptime=2.8 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): 126185.2 cts/s/segment</i> <i>brightest pixel: 239.239 cts/s/pix at 6563.9 A</i> <i>Calculation performed 2021-02-12T16:28:52, v0.21</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, 52X0.2	G750L 7751 A		[==>(Copy 1)] [==>(Copy 2)]	[1]



Proposal 16477 - SZ69-COS (2C) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

Tue Aug 03 18:01:08 GMT 2021

Visit	<p>Proposal 16477, SZ69-COS (2C), failed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 29-APR-2021:09:00 AND 11-MAY-2021:17:15; BETWEEN 12-MAY-2021:19:40 AND 25-MAY-2021:22:30</p> <p><i>Comments: vstatus; 2C; SZ69; P/COS approved for submission; P/DS 12/03/21 ; intrev: complete ; P/CP 18/03/21</i></p> <p><i>vcheck; Enter targ name & Inst. & Resp. Sci.; SZ69 ; COS ; DS</i></p> <p><i>vcheck; ETC numbers entered in APT?; Yes</i></p> <p><i>vcheck; Any screening violations?; No</i></p> <p><i>vcheck; M-dwarf check complete and added to box folder?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/survey/revise-mstar-bop.xls</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>located at: box/ullyses_tech/ullyses_proposals/survey/16477/images/sz69/</i></p> <p><i>vcheck; Selected ACQ strategy?; Yes ...</i></p> <p><i>BOP clearing recommended BOA/MirrorA too expensive. Adopted PSA/MirrorA w/ S/N = 40 ACQ on offset star</i></p> <p><i>This offset acquisition target for SZ69 is ~1.05' away from SZ69 and GAIA G mag and colors for this target is consistent with a reddened KOV star.</i></p> <p><i>Anders+2019 reports Av=0.8985, (E(B-V)=0.2898), Teff=5257.6, logg=4.5225, Fe/H=0.17.</i></p> <p><i>V = 17.2 from G = 17.0 with G - V = -0.227; B = 18.0 from V = 17.2 with B - V = 0.82</i></p> <p><i>For O3V scenario (screening): V = 17.3 from G = 17.0 with G - V = -0.29; B = 18.2 from V = 17.3 with B - V = 0.87 - Safe ACQ</i></p> <p><i>vcheck; Possible ACQ or Sci spoilers?; No</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; Yes ...</i></p> <p><i>STIS visit has GROUP 2S,2C,2D WITHIN 1D</i></p> <p><i>vcheck; phase constraint for ground based observations added?; N.A</i></p> <p><i>vcheck; BETWEENS for coordinated observations added?; Yes ...</i></p> <p><i>29 APR 2021 09:00 to 11 May 2021 17:15 and 12 May 2021 19:40 - 25 May 2021 22:30</i></p> <p><i>vcheck; Is visit ready for int. review?; Yes</i></p> <p><i>Allocated COS orbits = 4</i></p>
Diagnostics	<p>(SZ69-COS (2C)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>

Proposal 16477 - SZ69-COS (2C) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	SZ69	RA: 15 45 17.3931 (236.3224713d)	Proper Motion RA: -15.05012054 mas/yr	V=16.25	Reference Frame: ICRS
	Alt Name1: HW-LUP Alt Name2: J15451741-3418283	Dec: -34 18 28.64 (-34.30796d) Equinox: J2000	Proper Motion Dec: -22.14587899 mas/yr Parallax: 0.006470507371" Epoch of Position: 2015.5	SpT=M4.5; A_V=0.00; U=16.8; B=17.4; V=16.3; R=15.7; I=13.6; J=11.2	
<p><i>Comments: Sz69 : HW Lup, J15451741-3418283</i> <i>Region: Lupus I</i> <i>Simbad: https://simbad.u-strasbg.fr/simbad/sim-id?Ident=2MASS+J15451741-3418283&submit=submit+id</i> <i>Target coordinates are from Gaia DR2.</i> <i>Spectral type: M4.5 ; A_V: 0.0 ; Distance (pc): 150</i> <i>M*: 0.2 ; log(dm/dt): -9.51</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>sz69_lya2_etc_scaled_pAV0.50.txt</i> <i>Calculation performed 2021-02-12T16:28:32, v0.6</i></p> <p>-----</p> <p><i>tstatus: SZ69; P/COS approved for submission; S/STIS approved for submission; P/DS 02/03/21; S/DS 02/03/21</i> <i>tcheck; APT/SIMBAD target names: ; SZ69 ...</i> <i>Default SIMBAD name is V* HW Lup, aka 2MASS J15451741-3418283, UCAC3 112-182467</i> <i>tcheck; Target info verification status?: OK ...</i> <i>Flam(B) = 1.13e-15 at 4440 Angstroms and Flam(V) = 4.7e-16 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD. R = 15.7 from NOMAD</i> <i>tcheck; Coordinates & P.M. verified, epoch checked?: Yes</i> <i>tcheck; Adopted SED compared to Observations?: Yes</i> <i>Category=STAR</i> <i>Description=[T TAURI STAR, PRE-MAIN SEQUENCE STAR]</i> <i>Extended=NO</i></p>					
(5)	SZ69-OFFSET	RA: 15 45 21.8200 (236.3409167d)	Proper Motion RA: -6.639544749893111 mas/yr	V=17.21	Reference Frame: ICRS
	Alt Name1: GAIA-DR2-6014787448185424128	Dec: -34 18 58.32 (-34.31620d) Equinox: J2000	Proper Motion Dec: -3.794488598031889 mas/yr Parallax: 6.213358083676055E-04" Epoch of Position: 2015.5	SpT=K0V; G = 17.0; Bp - Rp = 1.1; B = 18.0, V = 17.2	
<p><i>Comments: COS offset target acq star for SZ69</i> <i>~1.05' away from SZ69</i> <i>Anders+2019 reports Av=0.8985, (E(B-V)=0.2898), Teff=5257.6, logg=4.5225, Fe/H=0.17</i> <i>Interpolated photometry for target SpT K0V:</i> <i>V = 17.2 from G = 17.0 with G - V = -0.227</i> <i>B = 18.0 from V = 17.2 with B - V = 0.82</i></p> <p><i>Interpolated photometry for O3V scenario (screening):</i> <i>V = 17.3 from G = 17.0 with G - V = -0.29</i> <i>B = 18.2 from V = 17.3 with B - V = 0.87</i> <i>Category=STAR</i> <i>Description=[KNOT]</i> <i>Extended=NO</i></p>					

Fixed Targets

Proposal 16477 - SZ69-COS (2C) - ULLYSES mid M-type T Tauri Survey Stars in Lupus 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 (5) SZ69-OFFSET -offset (COS.ta.151 2794)	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				497 Secs (497 Secs) [==>]	[1]
	<p><i>Comments: This offset acquisition target for SZ69 is ~1.05' away from SZ69 and GAIA G mag and colors for this target is consistent with a reddened K0V star. Anders+2019 reports Av=0.8985, (E(B-V)=0.2898), Tef f=5257.6, logg=4.5225, Fe/H=0.17</i></p> <p><i>Interpolated photometry for target SpT K0V: V = 17.2 from G = 17.0 with G - V = -0.227 B = 18.0 from V = 17.2 with B - V = 0.82 For S/N = 40 with PSA/MirrorA, ETC calculation using Castelli-Kurucz Model K0V 5250 4.5, normalized to Johnson B = 18.0 Vegamag with E(B-V) = 0.29: COS.ta.1512794, B.P = 0.465</i></p> <p><i>Interpolated photometry for O3V scenario (screening): V = 17.3 from G = 17.0 with G - V = -0.29 B = 18.2 from V = 17.3 with B - V = 0.87 ETC calculation using Castelli-Kurucz Model O3V 45000 4.5, normalized to Johnson B = 18.2 Vegamag with E(B-V) = 0.29: COS.ta.1512803, B.P = 35.811</i></p>								
	2	G130M/129 (2) SZ69 1-3 (COS.sp.151 2811)	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=25 63; FP-POS=3			1228 Secs (1228 Secs) [==>]	[1]
<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1512811, B.P=0.103 Baseline SED (scaled with additional A_V=0.50) calculation for G130M/c1291: COS.sp.1512806, B.P=0.095. Total S/N achieved in 2 x G130M exposures ~11.6/resel @1239A</i></p> <p><i>sz69_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M4.5 ; A_V: 0.0 ; Distance (pc): 150</i> <i>M*: 0.2 ; log(dm/dt): -9.51</i> <i>For exptime=1140.3 s, spectral region: 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): 345.7 cts/s/segment</i> <i>brightest pixel: 0.021 cts/s/pix at 1304.8 A</i> <i>Calculation performed 2021-02-12T16:28:31, v0.21</i></p>									
3	G160M/158 (2) SZ69 9-3 (COS.sp.148 2382)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=74 98; FP-POS=3			1177 Secs (1177 Secs) [==>]	[2]	
<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1482382, B.P=0.073 Baseline SED (scaled with additional A_V=0.50) calculation for G160M/c1589: COS.sp.1482381, B.P=0.005. Total S/N achieved in 4 x G160M exposures ~23/resel @1548.5A</i></p> <p><i>sz69_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1589,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M4.5 ; A_V: 0.0 ; Distance (pc): 150</i> <i>M*: 0.2 ; log(dm/dt): -9.51</i> <i>For exptime=1342.2 s, spectral region: 1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623</i> <i>The exptime for this c1589 exposure has been halved because c1589 & c1623 target the same line.</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 92.1 cts/s/segment</i> <i>brightest pixel: 0.005 cts/s/pix at 1446.2 A</i> <i>Calculation performed 2021-02-12T16:28:27, v0.21</i></p>									

Proposal 16477 - SZ69-COS (2C) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

4	G160M/158 (2) SZ69 9-4 (COS.sp.148 2382)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=74 98; FP-POS=4	1177 Secs (1177 Secs) [==>]	[2]
---	---	------------------------	-----------------	-----------------------------------	--------------------------------	-----

Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1482382, B.P=0.073
 Baseline SED (scaled with additional A_V=0.50) calculation for G160M/c1589: COS.sp.1482381, B.P=0.005. Total S/N achieved in 4 x G160M exposures ~23/resel @1548.5A

sz69_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1589,psa,mjd#59305; fp-pos=None, segment=None)

Input file: spring-survey-todo-crp04feb21.csv

Spectral type: M4.5 ; A_V: 0.0 ; Distance (pc): 150

M*: 0.2 ; log(dm/dt): -9.51

For exptime=1342.2 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): 92.1 cts/s/segment

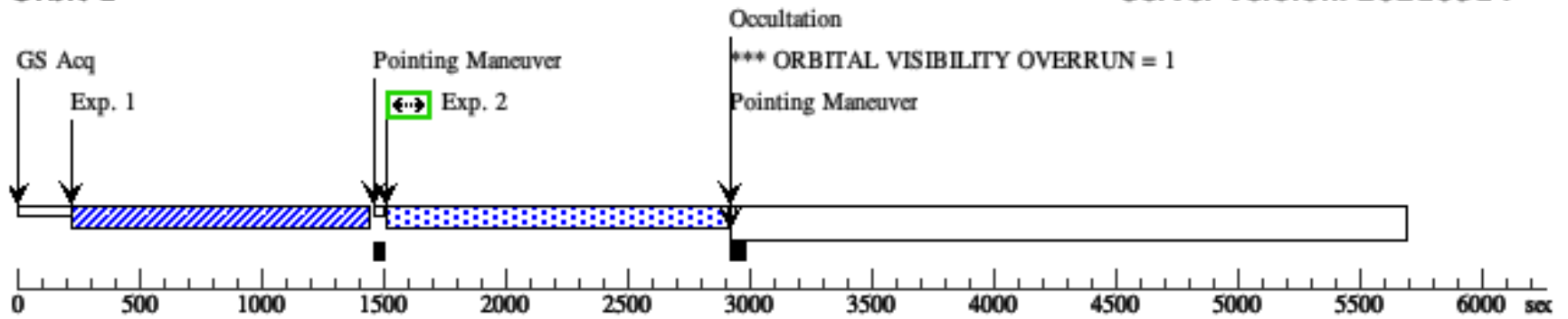
brightest pixel: 0.005 cts/s/pix at 1446.2 A

Calculation performed 2021-02-12T16:28:27, v0.21

Orbit Structure

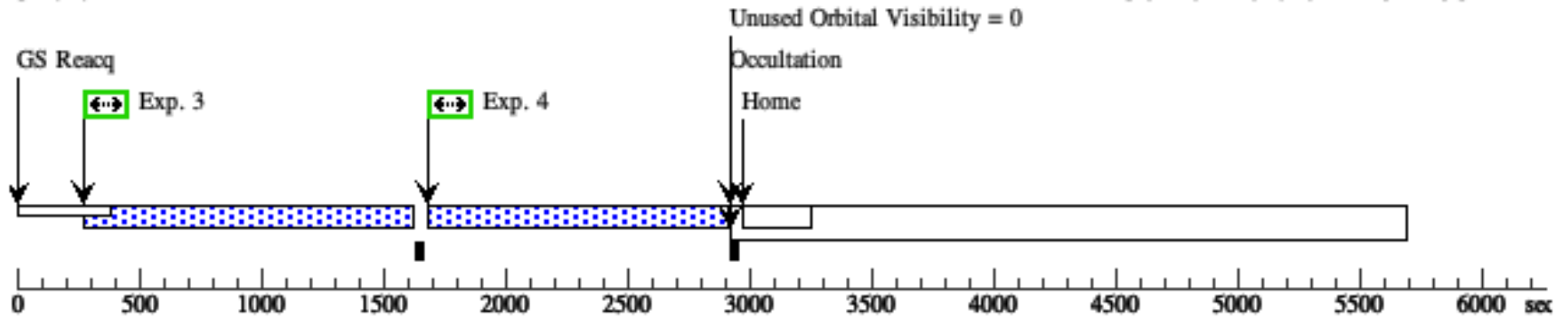
Orbit 1

Server Version: 20210514



Orbit 2

Server Version: 20210514



Visit	<p>Proposal 16477, SZ69-COS (BC), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 12-MAY-2021:19:40 AND 31-JUL-2021:22:30</p> <p><i>Comments: vstatus; BC; SZ69; P/COS approved for submission; P/DS 12/03/21 ; intrev: complete ; P/CP 18/03/21 vcheck; Enter targ name & Inst. & Resp. Sci.; SZ69 ; COS ; DS vcheck; ETC numbers entered in APT?; Yes vcheck; Any screening violations?; No vcheck; M-dwarf check complete and added to box folder?; Yes ... located at: box/ullyses_tech/ullyses_proposals/survey/revise-mstar-bop.xls vcheck; S/N ETC calcs done & documented?; Yes vcheck; Field images checked & saved?; Yes ... located at: box/ullyses_tech/ullyses_proposals/survey/16477/images/sz69/ vcheck; Selected ACQ strategy?; Yes ... BOP clearing recommended BOA/MirrorA too expensive. Adopted PSA/MirrorA w/ S/N = 40 ACQ on offset star This offset acquisition target for SZ69 is ~1.05' away from SZ69 and GAIA G mag and colors for this target is consistent with a reddened KOV star. Anders+2019 reports Av=0.8985, (E(B-V)=0.2898), Teff=5257.6, logg=4.5225, Fe/H=0.17. V = 17.2 from G = 17.0 with G - V = -0.227; B = 18.0 from V = 17.2 with B - V = 0.82 For O3V scenario (screening): V = 17.3 from G = 17.0 with G - V = -0.29; B = 18.2 from V = 17.3 with B - V = 0.87 - Safe ACQ vcheck; Possible ACQ or Sci spoilers?; No 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; Yes ... STIS visit has GROUP 2S,2C,2D WITHIN 1D vcheck; phase constraint for ground based observations added?; N.A vcheck; BETWEENS for coordinated observations added?; Yes ... 29 APR 2021 09:00 to 11 May 2021 17:15 and 12 May 2021 19:40 - 25 May 2021 22:30 vcheck; Is visit ready for int. review?; Yes Allocated COS orbits = 4 Repeat of 2C under HOPR 92005</i></p>
Diagnostics	<p>(SZ69-COS (BC)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>

Proposal 16477 - SZ69-COS (BC) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	SZ69	RA: 15 45 17.3931 (236.3224713d)	Proper Motion RA: -15.05012054 mas/yr	V=16.25	Reference Frame: ICRS
	Alt Name1: HW-LUP Alt Name2: J15451741-3418283	Dec: -34 18 28.64 (-34.30796d) Equinox: J2000	Proper Motion Dec: -22.14587899 mas/yr Parallax: 0.006470507371" Epoch of Position: 2015.5	SpT=M4.5; A_V=0.00; U=16.8; B=17.4; V=16.3; R=15.7; I=13.6; J=11.2	
<p><i>Comments: Sz69 : HW Lup, J15451741-3418283</i> <i>Region: Lupus I</i> <i>Simbad: https://simbad.u-strasbg.fr/simbad/sim-id?Ident=2MASS+J15451741-3418283&submit=submit+id</i> <i>Target coordinates are from Gaia DR2.</i> <i>Spectral type: M4.5 ; A_V: 0.0 ; Distance (pc): 150</i> <i>M*: 0.2 ; log(dm/dt): -9.51</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>sz69_lya2_etc_scaled_pAV0.50.txt</i> <i>Calculation performed 2021-02-12T16:28:32, v0.6</i></p> <p>-----</p> <p><i>tstatus: SZ69; P/COS approved for submission; S/STIS approved for submission; P/DS 02/03/21; S/DS 02/03/21</i> <i>tcheck; APT/SIMBAD target names: ; SZ69 ...</i> <i>Default SIMBAD name is V* HW Lup, aka 2MASS J15451741-3418283, UCAC3 112-182467</i> <i>tcheck; Target info verification status?: OK ...</i> <i>Flam(B) = 1.13e-15 at 4440 Angstroms and Flam(V) = 4.7e-16 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD. R = 15.7 from NOMAD</i> <i>tcheck; Coordinates & P.M. verified, epoch checked?: Yes</i> <i>tcheck; Adopted SED compared to Observations?: Yes</i> <i>Category=STAR</i> <i>Description=[T TAURI STAR, PRE-MAIN SEQUENCE STAR]</i> <i>Extended=NO</i></p>					
(5)	SZ69-OFFSET	RA: 15 45 21.8200 (236.3409167d)	Proper Motion RA: -6.639544749893111 mas/yr	V=17.21	Reference Frame: ICRS
	Alt Name1: GAIA-DR2-6014787448185424128	Dec: -34 18 58.32 (-34.31620d) Equinox: J2000	Proper Motion Dec: -3.794488598031889 mas/yr Parallax: 6.213358083676055E-04" Epoch of Position: 2015.5	SpT=K0V; G = 17.0; Bp - Rp = 1.1; B = 18.0, V = 17.2	
<p><i>Comments: COS offset target acq star for SZ69</i> <i>~1.05' away from SZ69</i> <i>Anders+2019 reports Av=0.8985, (E(B-V)=0.2898), Teff=5257.6, logg=4.5225, Fe/H=0.17</i> <i>Interpolated photometry for target SpT K0V:</i> <i>V = 17.2 from G = 17.0 with G - V = -0.227</i> <i>B = 18.0 from V = 17.2 with B - V = 0.82</i></p> <p><i>Interpolated photometry for O3V scenario (screening):</i> <i>V = 17.3 from G = 17.0 with G - V = -0.29</i> <i>B = 18.2 from V = 17.3 with B - V = 0.87</i> <i>Category=STAR</i> <i>Description=[KNOT]</i> <i>Extended=NO</i></p>					

Fixed Targets

Proposal 16477 - SZ69-COS (BC) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/Image -offset (COS.ta.151 2794)	(5) SZ69-OFFSET	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				497 Secs (497 Secs) [==>]	[1]
<p><i>Comments: This offset acquisition target for SZ69 is ~1.05' away from SZ69 and GAIA G mag and colors for this target is consistent with a reddened K0V star. Anders+2019 reports Av=0.8985, (E(B-V)=0.2898), Tef f=5257.6, logg=4.5225, Fe/H=0.17</i></p> <p><i>Interpolated photometry for target SpT K0V: V = 17.2 from G = 17.0 with G - V = -0.227 B = 18.0 from V = 17.2 with B - V = 0.82 For S/N = 40 with PSA/MirrorA, ETC calculation using Castelli-Kurucz Model K0V 5250 4.5, normalized to Johnson B = 18.0 Vegamag with E(B-V) = 0.29: COS.ta.1512794, B.P = 0.465</i></p> <p><i>Interpolated photometry for O3V scenario (screening): V = 17.3 from G = 17.0 with G - V = -0.29 B = 18.2 from V = 17.3 with B - V = 0.87 ETC calculation using Castelli-Kurucz Model O3V 45000 4.5, normalized to Johnson B = 18.2 Vegamag with E(B-V) = 0.29: COS.ta.1512803, B.P = 35.811</i></p>									
2	G130M/129 1-3 (COS.sp.151 2811)	(2) SZ69	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=25 63; FP-POS=3			1228 Secs (1228 Secs) [==>]	[1]
<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1512811, B.P=0.103 Baseline SED (scaled with additional A_V=0.50) calculation for G130M/c1291: COS.sp.1512806, B.P=0.095. Total S/N achieved in 2 x G130M exposures ~11.6/resel @1239A</i></p> <p><i>sz69_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M4.5 ; A_V: 0.0 ; Distance (pc): 150</i> <i>M*: 0.2 ; log(dm/dt): -9.51</i> <i>For exptime=1140.3 s, spectral region: 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): 345.7 cts/s/segment</i> <i>brightest pixel: 0.021 cts/s/pix at 1304.8 A</i> <i>Calculation performed 2021-02-12T16:28:31, v0.21</i></p>									
3	G160M/158 9-3 (COS.sp.148 2382)	(2) SZ69	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=74 98; FP-POS=3			1177 Secs (1177 Secs) [==>]	[2]
<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1482382, B.P=0.073 Baseline SED (scaled with additional A_V=0.50) calculation for G160M/c1589: COS.sp.1482381, B.P=0.005. Total S/N achieved in 4 x G160M exposures ~23/resel @1548.5A</i></p> <p><i>sz69_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1589,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M4.5 ; A_V: 0.0 ; Distance (pc): 150</i> <i>M*: 0.2 ; log(dm/dt): -9.51</i> <i>For exptime=1342.2 s, spectral region: 1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623</i> <i>The exptime for this c1589 exposure has been halved because c1589 & c1623 target the same line.</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 92.1 cts/s/segment</i> <i>brightest pixel: 0.005 cts/s/pix at 1446.2 A</i> <i>Calculation performed 2021-02-12T16:28:27, v0.21</i></p>									

Exposures

Proposal 16477 - SZ69-COS (BC) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

4	G160M/158 (2) SZ69 9-4 (COS.sp.148 2382)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=74 98; FP-POS=4	1177 Secs (1177 Secs) [==>]	[2]
---	---	------------------------	-----------------	-----------------------------------	--------------------------------	-----

Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1482382, B.P=0.073
 Baseline SED (scaled with additional A_V=0.50) calculation for G160M/c1589: COS.sp.1482381, B.P=0.005. Total S/N achieved in 4 x G160M exposures ~23/resel @1548.5A

sz69_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1589,psa,mjd#59305; fp-pos=None, segment=None)

Input file: spring-survey-todo-crp04feb21.csv

Spectral type: M4.5 ; A_V: 0.0 ; Distance (pc): 150

M*: 0.2 ; log(dm/dt): -9.51

For exptime=1342.2 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): 92.1 cts/s/segment

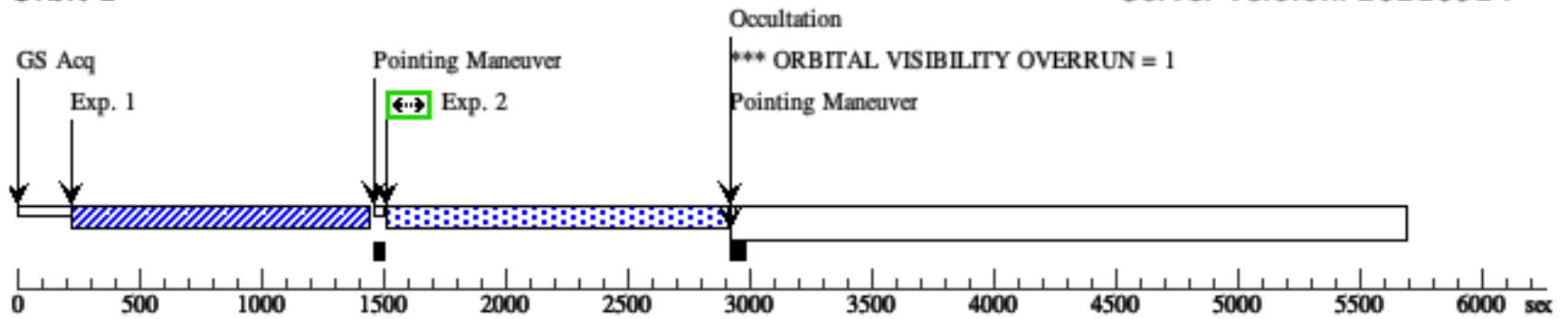
brightest pixel: 0.005 cts/s/pix at 1446.2 A

Calculation performed 2021-02-12T16:28:27, v0.21

Orbit Structure

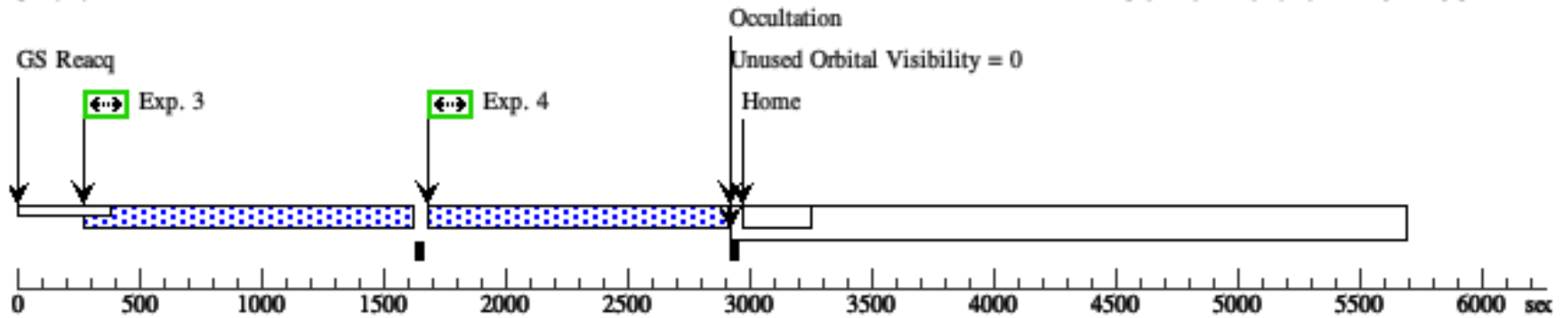
Orbit 1

Server Version: 20210514



Orbit 2

Server Version: 20210514



Visit	<p>Proposal 16477, SZ69-COS (2D), failed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 29-APR-2021:09:00 AND 11-MAY-2021:17:15; BETWEEN 12-MAY-2021:19:40 AND 25-MAY-2021:22:30</p> <p><i>Comments: vstatus; 2D; SZ69; P/COS approved for submission; P/DS 12/03/21 ; intrev: complete ; P/CP 18/03/21</i></p> <p><i>vcheck; Enter targ name & Inst. & Resp. Sci.; SZ69 ; COS ; DS</i></p> <p><i>vcheck; ETC numbers entered in APT?; Yes</i></p> <p><i>vcheck; Any screening violations?; No</i></p> <p><i>vcheck; M-dwarf check complete and added to box folder?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/survey/revise-mstar-bop.xls</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>located at: box/ullyses_tech/ullyses_proposals/survey/16477/images/sz69/</i></p> <p><i>vcheck; Selected ACQ strategy?; Yes ...</i></p> <p><i>BOP clearing recommended BOA/MirrorA too expensive. Adopted PSA/MirrorA w/ S/N = 40 ACQ on offset star</i></p> <p><i>This offset acquisition target for SZ69 is ~1.05' away from SZ69 and GAIA G mag and colors for this target is consistent with a reddened KOV star.</i></p> <p><i>Anders+2019 reports Av=0.8985, (E(B-V)=0.2898), Teff=5257.6, logg=4.5225, Fe/H=0.17.</i></p> <p><i>V = 17.2 from G = 17.0 with G - V = -0.227; B = 18.0 from V = 17.2 with B - V = 0.82</i></p> <p><i>For O3V scenario (screening): V = 17.3 from G = 17.0 with G - V = -0.29; B = 18.2 from V = 17.3 with B - V = 0.87 - Safe ACQ</i></p> <p><i>vcheck; Possible ACQ or Sci spoilers?; No</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; Yes ...</i></p> <p><i>STIS visit has GROUP 2S,2C,2D WITHIN 1D</i></p> <p><i>vcheck; phase constraint for ground based observations added?; N.A</i></p> <p><i>vcheck; BETWEENS for coordinated observations added?; Yes ...</i></p> <p><i>29 APR 2021 09:00 to 11 May 2021 17:15 and 12 May 2021 19:40 - 25 May 2021 22:30</i></p> <p><i>vcheck; Is visit ready for int. review?; Yes</i></p> <p><i>Allocated COS orbits = 4</i></p>
Diagnostics	<p>(SZ69-COS (2D)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>

Proposal 16477 - SZ69-COS (2D) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	SZ69	RA: 15 45 17.3931 (236.3224713d)	Proper Motion RA: -15.05012054 mas/yr	V=16.25	Reference Frame: ICRS
	Alt Name1: HW-LUP Alt Name2: J15451741-3418283	Dec: -34 18 28.64 (-34.30796d) Equinox: J2000	Proper Motion Dec: -22.14587899 mas/yr Parallax: 0.006470507371" Epoch of Position: 2015.5	SpT=M4.5; A_V=0.00; U=16.8; B=17.4; V=16.3; R=15.7; I=13.6; J=11.2	
<p><i>Comments: Sz69 : HW Lup, J15451741-3418283</i> <i>Region: Lupus I</i> <i>Simbad: https://simbad.u-strasbg.fr/simbad/sim-id?Ident=2MASS+J15451741-3418283&submit=submit+id</i> <i>Target coordinates are from Gaia DR2.</i> <i>Spectral type: M4.5 ; A_V: 0.0 ; Distance (pc): 150</i> <i>M*: 0.2 ; log(dm/dt): -9.51</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>sz69_lya2_etc_scaled_pAV0.50.txt</i> <i>Calculation performed 2021-02-12T16:28:32, v0.6</i></p> <p>-----</p> <p><i>tstatus: SZ69; P/COS approved for submission; S/STIS approved for submission; P/DS 02/03/21; S/DS 02/03/21</i> <i>tcheck; APT/SIMBAD target names: ; SZ69 ...</i> <i>Default SIMBAD name is V* HW Lup, aka 2MASS J15451741-3418283, UCAC3 112-182467</i> <i>tcheck; Target info verification status?: OK ...</i> <i>Flam(B) = 1.13e-15 at 4440 Angstroms and Flam(V) = 4.7e-16 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD. R = 15.7 from NOMAD</i> <i>tcheck; Coordinates & P.M. verified, epoch checked?: Yes</i> <i>tcheck; Adopted SED compared to Observations?: Yes</i> <i>Category=STAR</i> <i>Description=[T TAURI STAR, PRE-MAIN SEQUENCE STAR]</i> <i>Extended=NO</i></p>					
(5)	SZ69-OFFSET	RA: 15 45 21.8200 (236.3409167d)	Proper Motion RA: -6.639544749893111 mas/yr	V=17.21	Reference Frame: ICRS
	Alt Name1: GAIA-DR2-6014787448185424128	Dec: -34 18 58.32 (-34.31620d) Equinox: J2000	Proper Motion Dec: -3.794488598031889 mas/yr Parallax: 6.213358083676055E-04" Epoch of Position: 2015.5	SpT=K0V; G = 17.0; Bp - Rp = 1.1; B = 18.0, V = 17.2	
<p><i>Comments: COS offset target acq star for SZ69</i> <i>~1.05' away from SZ69</i> <i>Anders+2019 reports Av=0.8985, (E(B-V)=0.2898), Teff=5257.6, logg=4.5225, Fe/H=0.17</i> <i>Interpolated photometry for target SpT K0V:</i> <i>V = 17.2 from G = 17.0 with G - V = -0.227</i> <i>B = 18.0 from V = 17.2 with B - V = 0.82</i></p> <p><i>Interpolated photometry for O3V scenario (screening):</i> <i>V = 17.3 from G = 17.0 with G - V = -0.29</i> <i>B = 18.2 from V = 17.3 with B - V = 0.87</i> <i>Category=STAR</i> <i>Description=[KNOT]</i> <i>Extended=NO</i></p>					

Fixed Targets

Proposal 16477 - SZ69-COS (2D) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

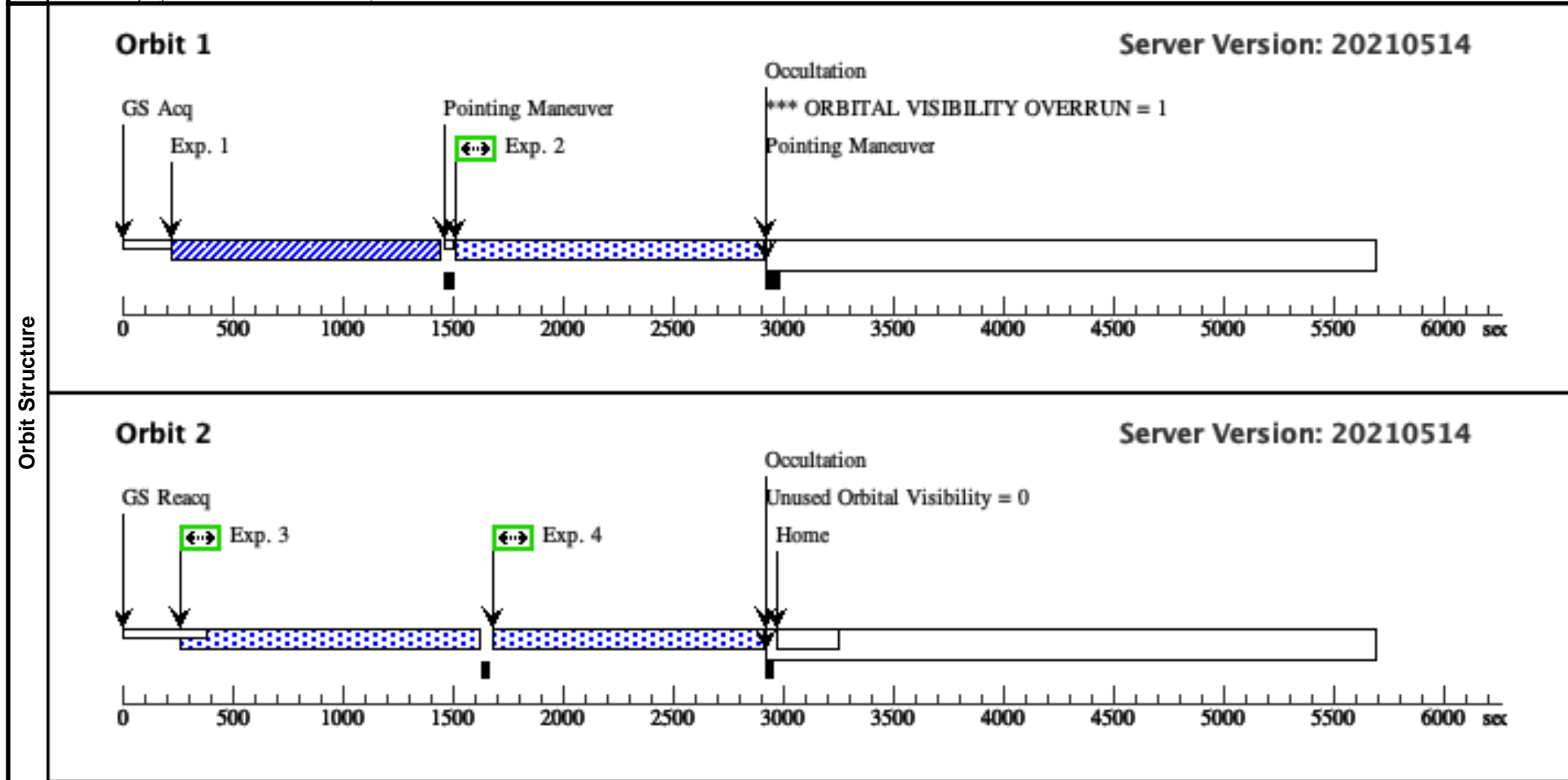
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	ACQ/Image (5) SZ69-OFFSET -offset (COS.ta.151 2794)	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				497 Secs (497 Secs) [==>]	[1]
	<p><i>Comments: This offset acquisition target for SZ69 is ~1.05' away from SZ69 and GAIA G mag and colors for this target is consistent with a reddened K0V star. Anders+2019 reports Av=0.8985, (E(B-V)=0.2898), Tef f=5257.6, logg=4.5225, Fe/H=0.17</i></p> <p><i>Interpolated photometry for target SpT K0V: V = 17.2 from G = 17.0 with G - V = -0.227 B = 18.0 from V = 17.2 with B - V = 0.82 For S/N = 40 with PSA/MirrorA, ETC calculation using Castelli-Kurucz Model K0V 5250 4.5, normalized to Johnson B = 18.0 Vegamag with E(B-V) = 0.29: COS.ta.1512794, B.P = 0.465</i></p> <p><i>Interpolated photometry for O3V scenario (screening): V = 17.3 from G = 17.0 with G - V = -0.29 B = 18.2 from V = 17.3 with B - V = 0.87 ETC calculation using Castelli-Kurucz Model O3V 45000 4.5, normalized to Johnson B = 18.2 Vegamag with E(B-V) = 0.29: COS.ta.1512803, B.P = 35.811</i></p>								
	2	G130M/129 (2) SZ69 1-4 (COS.sp.151 2811)	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=25 63; FP-POS=4			1228 Secs (1228 Secs) [==>]	[1]
<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1512811, B.P=0.103 Baseline SED (scaled with additional A_V=0.50) calculation for G130M/c1291: COS.sp.1512806, B.P=0.095. Total S/N achieved in 2 x G130M exposures ~11.6/resel @1239A</i></p> <p><i>sz69_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M4.5 ; A_V: 0.0 ; Distance (pc): 150</i> <i>M*: 0.2 ; log(dm/dt): -9.51</i> <i>For exptime=1140.3 s, spectral region: 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): 345.7 cts/s/segment</i> <i>brightest pixel: 0.021 cts/s/pix at 1304.8 A</i> <i>Calculation performed 2021-02-12T16:28:31, v0.21</i></p>									
3	G160M/162 (2) SZ69 3-1 (COS.sp.148 2383)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=87 37; FP-POS=1			1177 Secs (1177 Secs) [==>]	[2]	
<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1482383, B.P=0.071 Baseline SED (scaled with additional A_V=0.50) calculation for G160M/c1623: COS.sp.1482386, B.P=0.005. Total S/N achieved in 4 x G160M exposures ~23/resel @1548.5A</i></p> <p><i>sz69_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1623,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M4.5 ; A_V: 0.0 ; Distance (pc): 150</i> <i>M*: 0.2 ; log(dm/dt): -9.51</i> <i>For exptime=1378.6 s, spectral region: 1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623</i> <i>The exptime for this c1623 exposure has been halved because c1589 & c1623 target the same line.</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 88.8 cts/s/segment</i> <i>brightest pixel: 0.005 cts/s/pix at 1446.2 A</i> <i>Calculation performed 2021-02-12T16:28:29, v0.21</i></p>									

Proposal 16477 - SZ69-COS (2D) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

4	G160M/162 (2) SZ69	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=87	1177 Secs (1177 Secs)	
	3-2 (COS.sp.148 2383)		1623 A	37; FP-POS=2	[==>]	[2]

Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1482383, B.P=0.071
 Baseline SED (scaled with additional A_V=0.50) calculation for G160M/c1623: COS.sp.1482386, B.P=0.005. Total S/N achieved in 4 x G160M exposures ~23/resel @1548.5A

sz69_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1623,psa,mjd#59305; fp-pos=None, segment=None)
 Input file: spring-survey-todo-crp04feb21.csv
 Spectral type: M4.5 ; A_V: 0.0 ; Distance (pc): 150
 M*: 0.2 ; log(dm/dt): -9.51
 For exptime=1378.6 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): 88.8 cts/s/segment
 brightest pixel: 0.005 cts/s/pix at 1446.2 A
 Calculation performed 2021-02-12T16:28:29, v0.21



Visit	<p>Proposal 16477, SZ69-COS (BD), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 12-MAY-2021:19:40 AND 31-JUL-2021:22:30</p> <p><i>Comments: vstatus; BD; SZ69; P/COS approved for submission; P/DS 12/03/21 ; intrev: complete ; P/CP 18/03/21 vcheck; Enter targ name & Inst. & Resp. Sci.; SZ69 ; COS ; DS vcheck; ETC numbers entered in APT?; Yes vcheck; Any screening violations?; No vcheck; M-dwarf check complete and added to box folder?; Yes ... located at: box/ullyses_tech/ullyses_proposals/survey/revise-mstar-bop.xls vcheck; S/N ETC calcs done & documented?; Yes vcheck; Field images checked & saved?; Yes ... located at: box/ullyses_tech/ullyses_proposals/survey/16477/images/sz69/ vcheck; Selected ACQ strategy?; Yes ... BOP clearing recommended BOA/MirrorA too expensive. Adopted PSA/MirrorA w/ S/N = 40 ACQ on offset star This offset acquisition target for SZ69 is ~1.05' away from SZ69 and GAIA G mag and colors for this target is consistent with a reddened KOV star. Anders+2019 reports Av=0.8985, (E(B-V)=0.2898), Teff=5257.6, logg=4.5225, Fe/H=0.17. V = 17.2 from G = 17.0 with G - V = -0.227; B = 18.0 from V = 17.2 with B - V = 0.82 For O3V scenario (screening): V = 17.3 from G = 17.0 with G - V = -0.29; B = 18.2 from V = 17.3 with B - V = 0.87 - Safe ACQ vcheck; Possible ACQ or Sci spoilers?; No 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; Yes ... STIS visit has GROUP 2S,2C,2D WITHIN 1D vcheck; phase constraint for ground based observations added?; N.A vcheck; BETWEENS for coordinated observations added?; Yes ... 29 APR 2021 09:00 to 11 May 2021 17:15 and 12 May 2021 19:40 - 25 May 2021 22:30 vcheck; Is visit ready for int. review?; Yes Allocated COS orbits = 4 Repeat of 2D under HOPR 92005</i></p>
Diagnostics	<p>(SZ69-COS (BD)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>

Proposal 16477 - SZ69-COS (BD) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	SZ69	RA: 15 45 17.3931 (236.3224713d)	Proper Motion RA: -15.05012054 mas/yr	V=16.25	Reference Frame: ICRS
	Alt Name1: HW-LUP Alt Name2: J15451741-3418283	Dec: -34 18 28.64 (-34.30796d) Equinox: J2000	Proper Motion Dec: -22.14587899 mas/yr Parallax: 0.006470507371" Epoch of Position: 2015.5	SpT=M4.5; A_V=0.00; U=16.8; B=17.4; V=16.3; R=15.7; I=13.6; J=11.2	
<p><i>Comments: Sz69 : HW Lup, J15451741-3418283</i> <i>Region: Lupus I</i> <i>Simbad: https://simbad.u-strasbg.fr/simbad/sim-id?Ident=2MASS+J15451741-3418283&submit=submit+id</i> <i>Target coordinates are from Gaia DR2.</i> <i>Spectral type: M4.5 ; A_V: 0.0 ; Distance (pc): 150</i> <i>M*: 0.2 ; log(dm/dt): -9.51</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>sz69_lya2_etc_scaled_pAV0.50.txt</i> <i>Calculation performed 2021-02-12T16:28:32, v0.6</i></p> <p>-----</p> <p><i>tstatus: SZ69; P/COS approved for submission; S/STIS approved for submission; P/DS 02/03/21; S/DS 02/03/21</i> <i>tcheck; APT/SIMBAD target names: ; SZ69 ...</i> <i>Default SIMBAD name is V* HW Lup, aka 2MASS J15451741-3418283, UCAC3 112-182467</i> <i>tcheck; Target info verification status?: OK ...</i> <i>Flam(B) = 1.13e-15 at 4440 Angstroms and Flam(V) = 4.7e-16 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD. R = 15.7 from NOMAD</i> <i>tcheck; Coordinates & P.M. verified, epoch checked?: Yes</i> <i>tcheck; Adopted SED compared to Observations?: Yes</i> <i>Category=STAR</i> <i>Description=[T TAURI STAR, PRE-MAIN SEQUENCE STAR]</i> <i>Extended=NO</i></p>					
(5)	SZ69-OFFSET	RA: 15 45 21.8200 (236.3409167d)	Proper Motion RA: -6.639544749893111 mas/yr	V=17.21	Reference Frame: ICRS
	Alt Name1: GAIA-DR2-6014787448185424128	Dec: -34 18 58.32 (-34.31620d) Equinox: J2000	Proper Motion Dec: -3.794488598031889 mas/yr Parallax: 6.213358083676055E-04" Epoch of Position: 2015.5	SpT=K0V; G = 17.0; Bp - Rp = 1.1; B = 18.0, V = 17.2	
<p><i>Comments: COS offset target acq star for SZ69</i> <i>~1.05' away from SZ69</i> <i>Anders+2019 reports Av=0.8985, (E(B-V)=0.2898), Teff=5257.6, logg=4.5225, Fe/H=0.17</i> <i>Interpolated photometry for target SpT K0V:</i> <i>V = 17.2 from G = 17.0 with G - V = -0.227</i> <i>B = 18.0 from V = 17.2 with B - V = 0.82</i></p> <p><i>Interpolated photometry for O3V scenario (screening):</i> <i>V = 17.3 from G = 17.0 with G - V = -0.29</i> <i>B = 18.2 from V = 17.3 with B - V = 0.87</i> <i>Category=STAR</i> <i>Description=[KNOT]</i> <i>Extended=NO</i></p>					

Fixed Targets

Proposal 16477 - SZ69-COS (BD) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

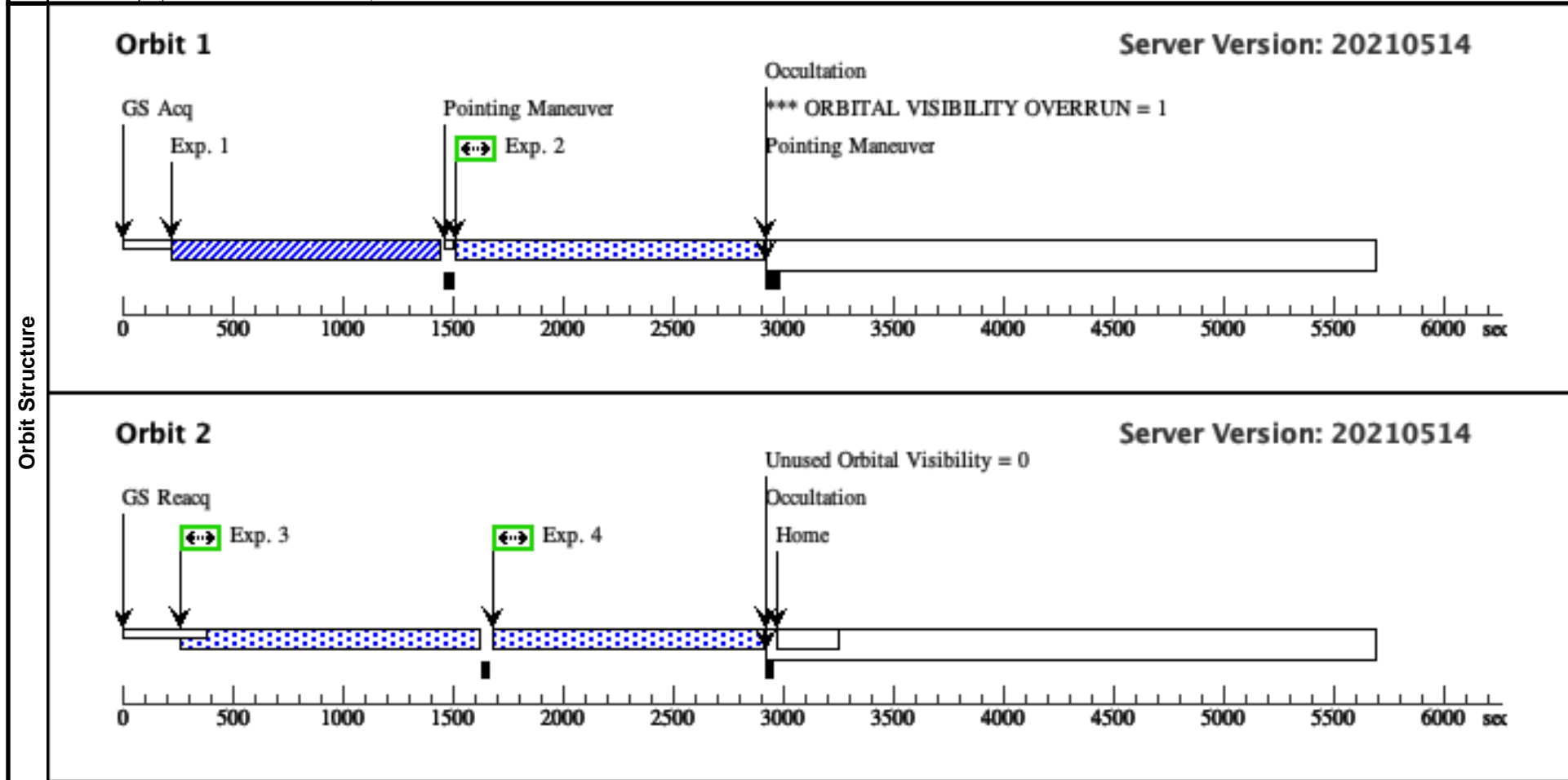
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	ACQ/Image (5) SZ69-OFFSET -offset (COS.ta.151 2794)	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				497 Secs (497 Secs) [==>]	[1]
	<p><i>Comments: This offset acquisition target for SZ69 is ~1.05' away from SZ69 and GAIA G mag and colors for this target is consistent with a reddened K0V star. Anders+2019 reports Av=0.8985, (E(B-V)=0.2898), Tef f=5257.6, logg=4.5225, Fe/H=0.17</i></p> <p><i>Interpolated photometry for target SpT K0V: V = 17.2 from G = 17.0 with G - V = -0.227 B = 18.0 from V = 17.2 with B - V = 0.82 For S/N = 40 with PSA/MirrorA, ETC calculation using Castelli-Kurucz Model K0V 5250 4.5, normalized to Johnson B = 18.0 Vegamag with E(B-V) = 0.29: COS.ta.1512794, B.P = 0.465</i></p> <p><i>Interpolated photometry for O3V scenario (screening): V = 17.3 from G = 17.0 with G - V = -0.29 B = 18.2 from V = 17.3 with B - V = 0.87 ETC calculation using Castelli-Kurucz Model O3V 45000 4.5, normalized to Johnson B = 18.2 Vegamag with E(B-V) = 0.29: COS.ta.1512803, B.P = 35.811</i></p>								
	2	G130M/129 (2) SZ69 1-4 (COS.sp.151 2811)	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=25 63; FP-POS=4			1228 Secs (1228 Secs) [==>]	[1]
<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1512811, B.P=0.103 Baseline SED (scaled with additional A_V=0.50) calculation for G130M/c1291: COS.sp.1512806, B.P=0.095. Total S/N achieved in 2 x G130M exposures ~11.6/resel @1239A</i></p> <p><i>sz69_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M4.5 ; A_V: 0.0 ; Distance (pc): 150</i> <i>M*: 0.2 ; log(dm/dt): -9.51</i> <i>For exptime=1140.3 s, spectral region: 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): 345.7 cts/s/segment</i> <i>brightest pixel: 0.021 cts/s/pix at 1304.8 A</i> <i>Calculation performed 2021-02-12T16:28:31, v0.21</i></p>									
3	G160M/162 (2) SZ69 3-1 (COS.sp.148 2383)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=87 37; FP-POS=1			1177 Secs (1177 Secs) [==>]	[2]	
<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1482383, B.P=0.071 Baseline SED (scaled with additional A_V=0.50) calculation for G160M/c1623: COS.sp.1482386, B.P=0.005. Total S/N achieved in 4 x G160M exposures ~23/resel @1548.5A</i></p> <p><i>sz69_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1623,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M4.5 ; A_V: 0.0 ; Distance (pc): 150</i> <i>M*: 0.2 ; log(dm/dt): -9.51</i> <i>For exptime=1378.6 s, spectral region: 1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623</i> <i>The exptime for this c1623 exposure has been halved because c1589 & c1623 target the same line.</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 88.8 cts/s/segment</i> <i>brightest pixel: 0.005 cts/s/pix at 1446.2 A</i> <i>Calculation performed 2021-02-12T16:28:29, v0.21</i></p>									

Proposal 16477 - SZ69-COS (BD) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

4	G160M/162 (2) SZ69	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=87	1177 Secs (1177 Secs)	
	3-2 (COS.sp.148 2383)		1623 A	37; FP-POS=2	[==>]	[2]

Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1482383, B.P=0.071
 Baseline SED (scaled with additional A_V=0.50) calculation for G160M/c1623: COS.sp.1482386, B.P=0.005. Total S/N achieved in 4 x G160M exposures ~23/resel @1548.5A

sz69_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1623,psa,mjd#59305; fp-pos=None, segment=None)
 Input file: spring-survey-todo-crp04feb21.csv
 Spectral type: M4.5 ; A_V: 0.0 ; Distance (pc): 150
 M*: 0.2 ; log(dm/dt): -9.51
 For exptime=1378.6 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): 88.8 cts/s/segment
 brightest pixel: 0.005 cts/s/pix at 1446.2 A
 Calculation performed 2021-02-12T16:28:29, v0.21



Proposal 16477 - SZ69-STIS (2S) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

Tue Aug 03 18:01:08 GMT 2021

Proposal 16477, SZ69-STIS (2S), failed

Diagnostic Status: No Diagnostics

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

Special Requirements: SCHED 100%; BETWEEN 29-APR-2021:09:00 AND 11-MAY-2021:18:50; BETWEEN 12-MAY-2021:19:40 AND 26-MAY-2021:00:05; GROUP 2S,2C,2D WITHIN 1D

Comments: vstatus; 2S; SZ69; P/STIS approved for submission; P/DS 12/03/21 ; intrev: complete ; P/CP 18/03/21
vcheck; Enter targ name & Inst. & Resp. Sci.; SZ69 ; STIS ; DS
vcheck; ETC numbers entered in APT?; Yes
vcheck; Any screening violations?; No
vcheck; M-dwarf check complete and added to box folder?; Yes ...
located at: box/ullyses_tech/ullyses_proposals/survey/revise-mstar-bop.xls
vcheck; S/N ETC calcs done & documented?; Yes
vcheck; Field images checked & saved?; Yes ...
located at: box/ullyses_tech/ullyses_proposals/survey/16477/images/sz69/
vcheck; Selected ACQ strategy?; Yes ...
S/N = 80 using R mag with F28X50LP
vcheck; Possible ACQ or Sci spoilers?; No
vcheck; Field BOT clear?; Yes
vcheck; Visual BOT check for stars not in catalog?; Yes ...
The star ~30" north of target (only within G430L and G750L) has GAIA Gmag = 17.51 and bp-rp = 1.528
Should be safe
vcheck; Orbit packing finalized?; Yes
vcheck; Buffer times optimized?; Yes
vcheck; Verify visit grouping correct; Yes ...
STIS visit has GROUP 2S,2C,2D WITHIN 1D
vcheck; phase constraint for ground based observations added?; N/A
vcheck; BETWEENS for coordinated observations added?; Yes ...
29 APR 2021 09:00 to 11 May 2021 18:50 and 12 May 2021 19:40 - 26 May 2021 00:05
vcheck; Is visit ready for int. review?; Yes
Allocated STIS orbits = 1

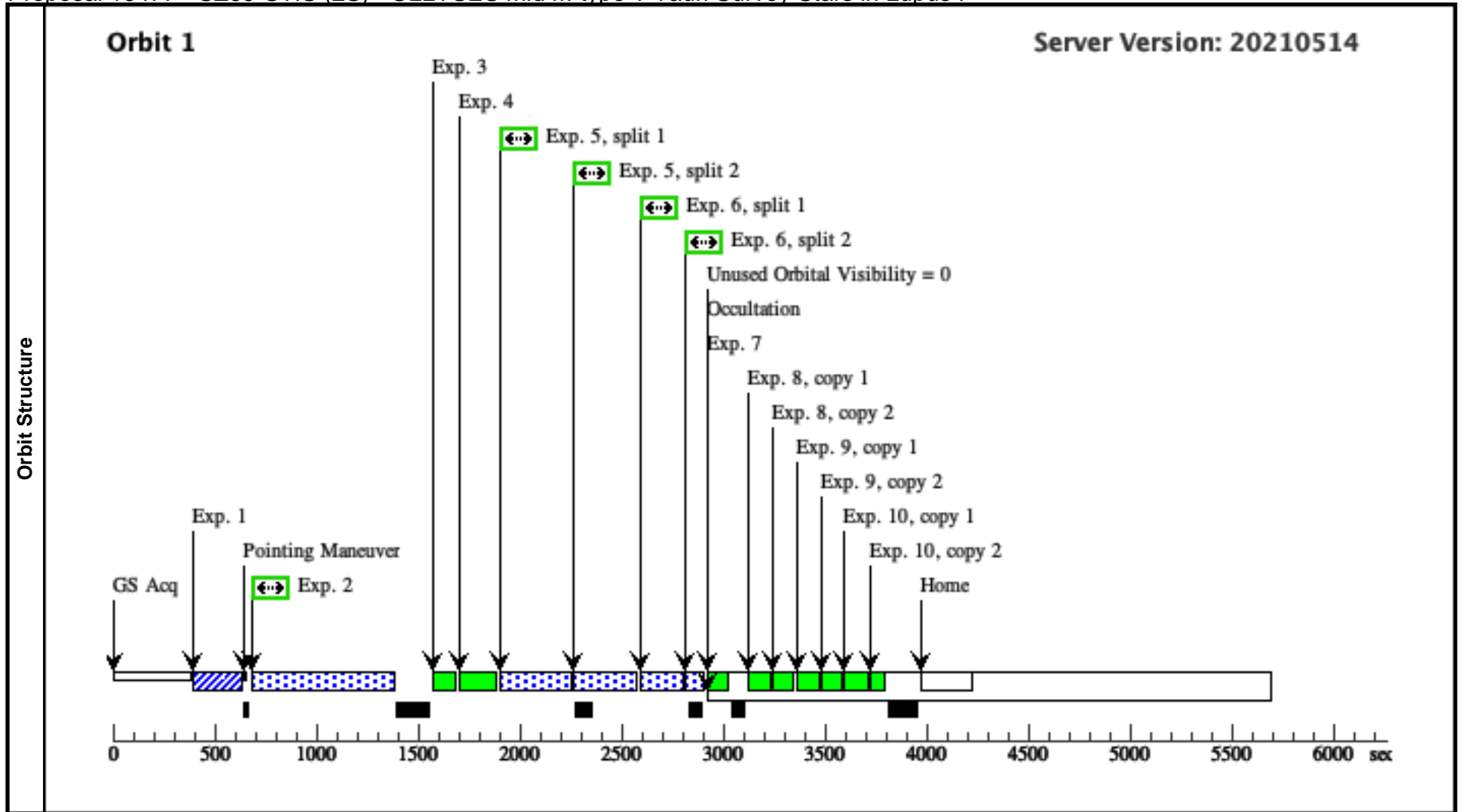
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	SZ69	RA: 15 45 17.3931 (236.3224713d)	Proper Motion RA: -15.05012054 mas/yr	V=16.25	Reference Frame: ICRS
	Alt Name1: HW-LUP	Dec: -34 18 28.64 (-34.30796d)	Proper Motion Dec: -22.14587899 mas/yr	SpT=M4.5; A_V=0.00; U=16.8;	
	Alt Name2: J15451741-3418283	Equinox: J2000	Parallax: 0.006470507371"	B=17.4; V=16.3; R=15.7; I=13.6	
			Epoch of Position: 2015.5	J=11.2	
<p><i>Comments: Sz69 : HW Lup, J15451741-3418283</i> <i>Region: Lupus I</i> <i>Simbad: https://simbad.u-strasbg.fr/simbad/sim-id?Ident=2MASS+J15451741-3418283&submit=submit+id</i> <i>Target coordinates are from Gaia DR2.</i> <i>Spectral type: M4.5 ; A_V: 0.0 ; Distance (pc): 150</i> <i>M*: 0.2 ; log(dm/dt): -9.51</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>sz69_lya2_etc_scaled_pAV0.50.txt</i> <i>Calculation performed 2021-02-12T16:28:32, v0.6</i></p> <hr/> <p><i>tstatus; SZ69; P/COS approved for submission; S/STIS approved for submission; P/DS 02/03/21; S/DS 02/03/21</i> <i>tcheck; APT/SIMBAD target names: ; SZ69 ...</i> <i>Default SIMBAD name is V* HW Lup, aka 2MASS J15451741-3418283, UCAC3 112-182467</i> <i>tcheck; Target info verification status?; OK ...</i> <i>Flam(B) = 1.13e-15 at 4440 Angstroms and Flam(V) = 4.7e-16 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD. R = 15.7 from NOMAD</i> <i>tcheck; Coordinates & P.M. verified, epoch checked?; Yes</i> <i>tcheck; Adopted SED compared to Observations?; Yes</i> Category=STAR Description=[T TAURI STAR, PRE-MAIN SEQUENCE STAR] Extended=NO</p>					

Proposal 16477 - SZ69-STIS (2S) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (2) SZ69 (STIS.ta.148 2400)		STIS/CCD, ACQ, F28X50LP	MIRROR				2.6 Secs (2.6 Secs) [==>]	[1]
<p>Comments: Calculation with baseline SED (scaled with additional A_V=0.50), normalized to R=15.66 vegamag, for STIS/CCD/F28X50LP with S/N=80: STIS.ta.1482400 BOP calculation with 4X baseline SED (without additional A_V=0.50), normalized to R=15.1 vegamag: STIS.ta.1482402</p>									
2	G230L/2376 (2) SZ69 (STIS.sp.14 82458)		STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	WAVECAL=NO; BUFFER-TIME=66 1			545.6 Secs (545.6 Secs) [==>]	[1]
<p>Comments: BOP calculation with 4X SED (without additional A_V=0.50): STIS.sp.1482458, B.P=7.112 Baseline SED (scaled with additional A_V=0.50) calculation for G230L: STIS.sp.1482457, B.P=0.734</p> <p>s:69_lya2_etc_scaled_pAV0.50.txt; stis,nuvmama,g230l,c2376,52x2,mjd#59305 Input file: spring-survey-todo-crp04feb21.csv Spectral type: M4.5 ; A_V: 0.0 ; Distance (pc): 150 M*: 0.2 ; log(dm/dt): -9.51 For exptime=111.3 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): 2384.2 cts/s/segment brightest pixel: 0.737 cts/s/pix at 2796.8 A Calculation performed 2021-02-12T16:28:32, v0.21</p>									
3	G230L/2376 WAVE WAVECAL		STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				[==>]	[1]
4	G430L/4300 WAVE WAVECAL		STIS/CCD, ACCUM, 52X0.1	G430L 4300 A				[==>]	[1]
5	G430L/4300 (2) SZ69 (STIS.sp.14 82413)		STIS/CCD, ACCUM, 52X2	G430L 4300 A	WAVECAL=NO; CR-SPLIT=2; GAIN=4			552 Secs (552 Secs) [==>(Split 1)] [==>(Split 2)]	[1]
<p>Comments: Calculation with baseline SED (scaled with additional A_V=0.50), normalized to Flam(B)=1.13e-15 ergs/s/cm^2/Ang, for G430L: STIS.sp.1482413, B.P=4.737 BOP calculation with 4X SED (without additional A_V=0.50) no normalization: STIS.sp.1482415, B.P=180.9</p> <p>s:69_lya2_etc_scaled_pAV0.50.txt; stis,ccd,g430l,c4300,52x2,mjd#59305 WARNING: operating mode = ACCUM Input file: spring-survey-todo-crp04feb21.csv Spectral type: M4.5 ; A_V: 0.0 ; Distance (pc): 150 M*: 0.2 ; log(dm/dt): -9.51 For exptime=44.1 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): 43123.0 cts/s/segment brightest pixel: 23.046 cts/s/pix at 4560.5 A Calculation performed 2021-02-12T16:28:32, v0.21</p>									

Proposal 16477 - SZ69-STIS (2S) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

6	G750L/7751 (2) SZ69 (STIS.sp.14 82452)	STIS/CCD, ACCUM, 52X2	G750L 7751 A	WAVECAL=NO; CR-SPLIT=2; GAIN=4	122 Secs (122 Secs)	
					[==>(Split 1)]	[1]
<p><i>Comments: Calculation with baseline SED (scaled with additional A_V=0.50), normalized to 16.3 vegmag in Johnson/V, for G750L: STIS.sp.1482452, B.P=17.0 BOP calculation with 4X SED (without additional A_V=0.50) and no normalization: STIS.sp.1482454, B.P=1261.9</i></p> <p><i>sz69_lya2_etc_scaled_pAV0.50.txt; stis.ccd,g750l,c7751,52x2,mjd#59305</i></p> <p><i>WARNING: operating mode = ACCUM</i></p> <p><i>Input file: spring-survey-todo-crp04feb21.csv</i></p> <p><i>Spectral type: M4.5 ; A_V: 0.0 ; Distance (pc): 150</i></p> <p><i>M*: 0.2 ; log(dm/dt): -9.51</i></p> <p><i>For exptime=4.4 s, n_reads=2, spectral region:</i></p> <p><i>5700.0 +- 5.0 A achieves SNR=20.0 / 2-pix-resel</i></p> <p><i>A factor of 2.0 has been applied to the exptime in each exposure.</i></p> <p><i>global countrate (brightest segment): 95324.0 cts/s/segment</i></p> <p><i>brightest pixel: 186.642 cts/s/pix at 6563.9 A</i></p> <p><i>Calculation performed 2021-02-12T16:28:32, v0.21</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]



Proposal 16477, SZ69-STIS (BS), completed

Diagnostic Status: No Diagnostics

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

Special Requirements: SCHED 100%; BETWEEN 12-MAY-2021:19:40 AND 31-JUL-2021:00:05; GROUP BS,BC,BD WITHIN 1D

Comments: vstatus; BS; SZ69; P/STIS approved for submission; P/DS 12/03/21 ; intrev: complete ; P/CP 18/03/21
vcheck; Enter targ name & Inst. & Resp. Sci.; SZ69 ; STIS ; DS
vcheck; ETC numbers entered in APT?; Yes
vcheck; Any screening violations?; No
vcheck; M-dwarf check complete and added to box folder?; Yes ...
located at: box/ullyses_tech/ullyses_proposals/survey/revise-mstar-bop.xls
vcheck; S/N ETC calcs done & documented?; Yes
vcheck; Field images checked & saved?; Yes ...
located at: box/ullyses_tech/ullyses_proposals/survey/16477/images/sz69/
vcheck; Selected ACQ strategy?; Yes ...
S/N = 80 using R mag with F28X50LP
vcheck; Possible ACQ or Sci spoilers?; No
vcheck; Field BOT clear?; Yes
vcheck; Visual BOT check for stars not in catalog?; Yes ...
The star ~30" north of target (only within G430L and G750L) has GAIA Gmag = 17.51 and bp-rp = 1.528
Should be safe
vcheck; Orbit packing finalized?; Yes
vcheck; Buffer times optimized?; Yes
vcheck; Verify visit grouping correct; Yes ...
STIS visit has GROUP 2S,2C,2D WITHIN 1D
vcheck; phase constraint for ground based observations added?; N/A
vcheck; BETWEENS for coordinated observations added?; Yes ...
29 APR 2021 09:00 to 11 May 2021 18:50 and 12 May 2021 19:40 - 26 May 2021 00:05
vcheck; Is visit ready for int. review?; Yes
Allocated STIS orbits = 1
Repeat of 2S under HOPR 92005

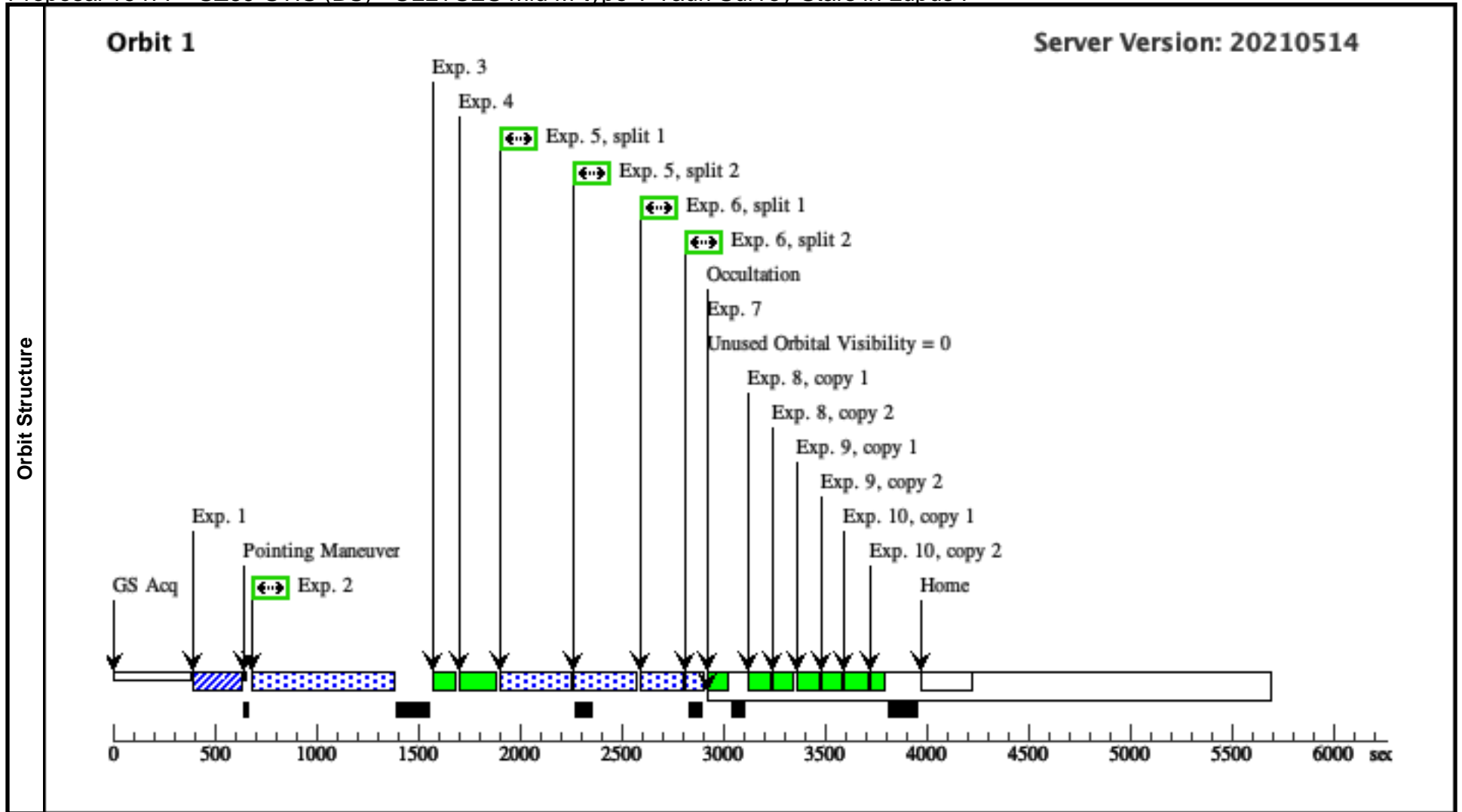
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	SZ69	RA: 15 45 17.3931 (236.3224713d)	Proper Motion RA: -15.05012054 mas/yr	V=16.25	Reference Frame: ICRS
	Alt Name1: HW-LUP	Dec: -34 18 28.64 (-34.30796d)	Proper Motion Dec: -22.14587899 mas/yr	SpT=M4.5; A_V=0.00; U=16.8;	
	Alt Name2: J15451741-3418283	Equinox: J2000	Parallax: 0.006470507371"	B=17.4; V=16.3; R=15.7; I=13.6	
			Epoch of Position: 2015.5	; J=11.2	
<p><i>Comments: Sz69 : HW Lup, J15451741-3418283</i> <i>Region: Lupus I</i> <i>Simbad: https://simbad.u-strasbg.fr/simbad/sim-id?Ident=2MASS+J15451741-3418283&submit=submit+id</i> <i>Target coordinates are from Gaia DR2.</i> <i>Spectral type: M4.5 ; A_V: 0.0 ; Distance (pc): 150</i> <i>M*: 0.2 ; log(dm/dt): -9.51</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>sz69_lya2_etc_scaled_pAV0.50.txt</i> <i>Calculation performed 2021-02-12T16:28:32, v0.6</i></p> <hr/> <p><i>tstatus: SZ69; P/COS approved for submission; S/STIS approved for submission; P/DS 02/03/21; S/DS 02/03/21</i> <i>tcheck; APT/SIMBAD target names: ; SZ69 ...</i> <i>Default SIMBAD name is V* HW Lup, aka 2MASS J15451741-3418283, UCAC3 112-182467</i> <i>tcheck; Target info verification status?; OK ...</i> <i>Flam(B) = 1.13e-15 at 4440 Angstroms and Flam(V) = 4.7e-16 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD. R = 15.7 from NOMAD</i> <i>tcheck; Coordinates & P.M. verified, epoch checked?; Yes</i> <i>tcheck; Adopted SED compared to Observations?; Yes</i> <i>Category=STAR</i> <i>Description=[T TAURI STAR, PRE-MAIN SEQUENCE STAR]</i> <i>Extended=NO</i></p>					

Proposal 16477 - SZ69-STIS (BS) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	ACQ (2) SZ69 (STIS.ta.148 2400)	STIS/CCD, ACQ, F28X50LP	MIRROR				2.6 Secs (2.6 Secs) [==>]	[1]
	<p>Comments: Calculation with baseline SED (scaled with additional A_V=0.50), normalized to R=15.66 vegamag, for STIS/CCD/F28X50LP with S/N=80: STIS.ta.1482400 BOP calculation with 4X baseline SED (without additional A_V=0.50), normalized to R=15.1 vegamag: STIS.ta.1482402</p>								
	2	G230L/2376 (2) SZ69 (STIS.sp.14 82458)	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	WAVECAL=NO; BUFFER-TIME=66 1			545.6 Secs (545.6 Secs) [==>]	[1]
	<p>Comments: BOP calculation with 4X SED (without additional A_V=0.50): STIS.sp.1482458, B.P=7.112 Baseline SED (scaled with additional A_V=0.50) calculation for G230L: STIS.sp.1482457, B.P=0.734</p> <p>s:z69_lya2_etc_scaled_pAV0.50.txt; stis,nuvmama,g230l,c2376,52x2,mjd#59305 Input file: spring-survey-todo-crp04feb21.csv Spectral type: M4.5 ; A_V: 0.0 ; Distance (pc): 150 M*: 0.2 ; log(dm/dt): -9.51 For exptime=111.3 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): 2384.2 cts/s/segment brightest pixel: 0.737 cts/s/pix at 2796.8 A Calculation performed 2021-02-12T16:28:32, v0.21</p>								
	3	G230L/2376 WAVE WAVECAL	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				[==>]	[1]
4	G430L/4300 WAVE WAVECAL	STIS/CCD, ACCUM, 52X0.1	G430L 4300 A				[==>]	[1]	
5	G430L/4300 (2) SZ69 (STIS.sp.14 82413)	STIS/CCD, ACCUM, 52X2	G430L 4300 A	WAVECAL=NO; CR-SPLIT=2; GAIN=4			552 Secs (552 Secs) [==>(Split 1)] [==>(Split 2)]	[1]	
<p>Comments: Calculation with baseline SED (scaled with additional A_V=0.50), normalized to Flam(B)=1.13e-15 ergs/s/cm^2/Ang, for G430L: STIS.sp.1482413, B.P=4.737 BOP calculation with 4X SED (without additional A_V=0.50) no normalization: STIS.sp.1482415, B.P=180.9</p> <p>s:z69_lya2_etc_scaled_pAV0.50.txt; stis,ccd,g430l,c4300,52x2,mjd#59305 WARNING: operating mode = ACCUM Input file: spring-survey-todo-crp04feb21.csv Spectral type: M4.5 ; A_V: 0.0 ; Distance (pc): 150 M*: 0.2 ; log(dm/dt): -9.51 For exptime=44.1 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): 43123.0 cts/s/segment brightest pixel: 23.046 cts/s/pix at 4560.5 A Calculation performed 2021-02-12T16:28:32, v0.21</p>									

Proposal 16477 - SZ69-STIS (BS) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

6	G750L/7751 (2) SZ69 (STIS.sp.14 82452)	STIS/CCD, ACCUM, 52X2	G750L 7751 A	WAVECAL=NO; CR-SPLIT=2; GAIN=4	122 Secs (122 Secs)	
					[==>(Split 1)]	[1]
<p><i>Comments: Calculation with baseline SED (scaled with additional A_V=0.50), normalized to 16.3 vegamag in Johnson/V, for G750L: STIS.sp.1482452, B.P=17.0 BOP calculation with 4X SED (without additional A_V=0.50) and no normalization: STIS.sp.1482454, B.P=1261.9</i></p> <p><i>sz69_lya2_etc_scaled_pAV0.50.txt; stis.ccd,g750l,c7751,52x2,mjd#59305</i></p> <p><i>WARNING: operating mode = ACCUM</i></p> <p><i>Input file: spring-survey-todo-crp04feb21.csv</i></p> <p><i>Spectral type: M4.5 ; A_V: 0.0 ; Distance (pc): 150</i></p> <p><i>M*: 0.2 ; log(dm/dt): -9.51</i></p> <p><i>For exptime=4.4 s, n_reads=2, spectral region:</i></p> <p><i>5700.0 +- 5.0 A achieves SNR=20.0 / 2-pix-resel</i></p> <p><i>A factor of 2.0 has been applied to the exptime in each exposure.</i></p> <p><i>global countrate (brightest segment): 95324.0 cts/s/segment</i></p> <p><i>brightest pixel: 186.642 cts/s/pix at 6563.9 A</i></p> <p><i>Calculation performed 2021-02-12T16:28:32, v0.21</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]



Proposal 16477 - SZ72-COS (3C) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

Tue Aug 03 18:01:08 GMT 2021

Visit	<p>Proposal 16477, SZ72-COS (3C), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 29-APR-2021:09:00 AND 11-MAY-2021:15:40; BETWEEN 12-MAY-2021:19:40 AND 25-MAY-2021:20:55</p> <p><i>Comments: vstatus; 3C; SZ72; P/COS approved for submission; P/DS 12/03/21 ; intrev: complete ; P/CP 18/03/21</i></p> <p><i>vcheck; Enter targ name & Inst. & Resp. Sci.; SZ72 ; COS ; DS</i></p> <p><i>vcheck; ETC numbers entered in APT?; Yes</i></p> <p><i>vcheck; Any screening violations?; No</i></p> <p><i>vcheck; M-dwarf check complete and added to box folder?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/survey/revised-mstar-bop.xls</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>located at: box/ullyses_tech/ullyses_proposals/survey/16477/images/sz72/</i></p> <p><i>vcheck; Selected ACQ strategy?; Yes ...</i></p> <p><i>PSA, MIRRORB, S/N=40</i></p> <p><i>vcheck; Possible ACQ or Sci spoilers?; No</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; Yes ...</i></p> <p><i>STIS visit has GROUP 3S,3C,3D WITHIN 1D</i></p> <p><i>vcheck; phase constraint for ground based observations added?; N.A</i></p> <p><i>vcheck; BETWEENS for coordinated observations added?; Yes ...</i></p> <p><i>29 APR 2021 09:00 to 11 May 2021 15:40 and 12 May 2021 19:40 - 25 May 2021 20:55</i></p> <p><i>vcheck; Is visit ready for int. review?; Yes</i></p> <p><i>Allocated COS orbits = 5</i></p>
--------------	---

Diagnostics	(SZ72-COS (3C)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
--------------------	---

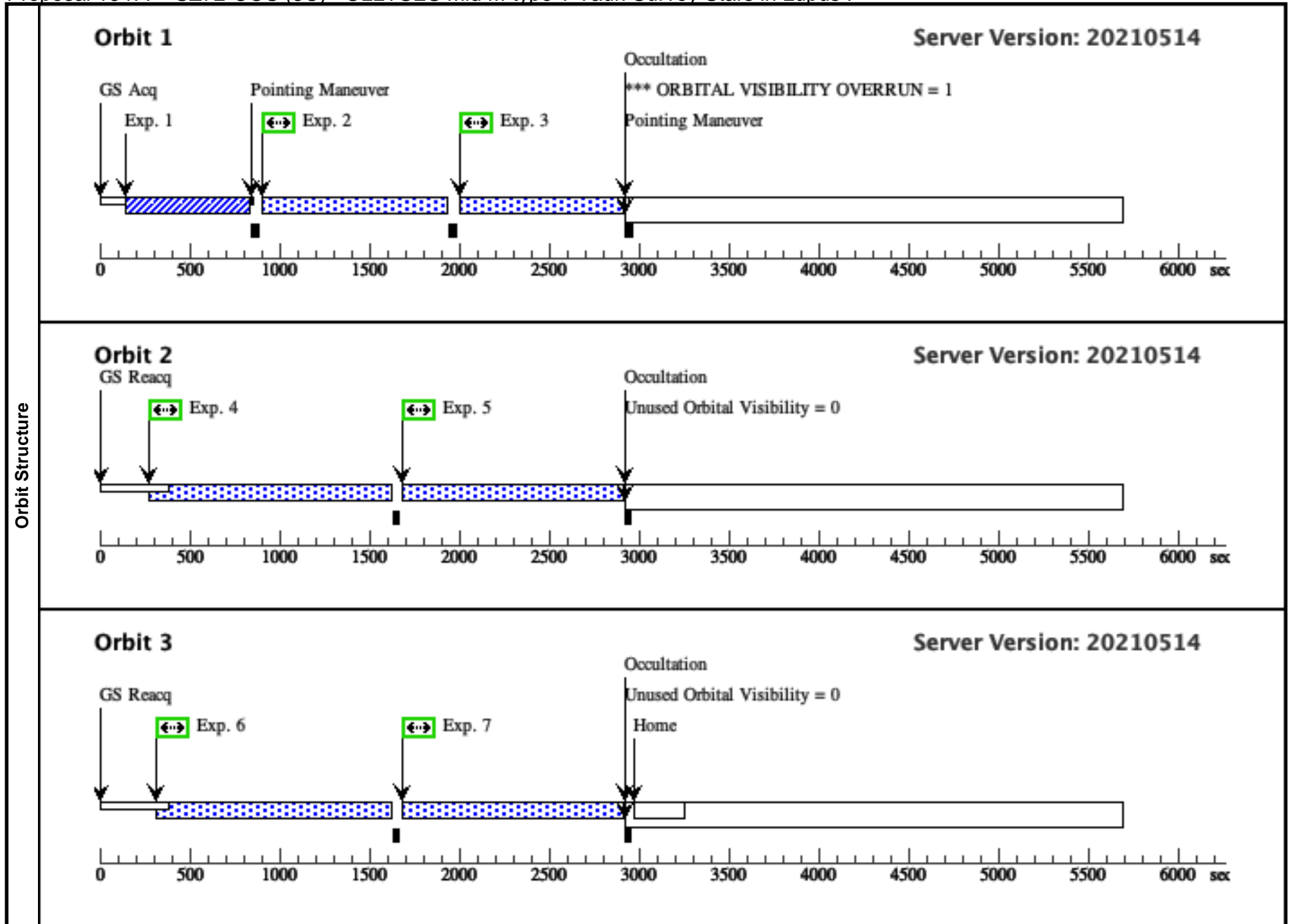
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	SZ72	RA: 15 47 50.6110 (236.9608792d)	Proper Motion RA: -14.26284379 mas/yr	V=14.79	Reference Frame: ICRS
	Alt Name1: HM-LUP	Dec: -35 28 35.76 (-35.47660d)	Proper Motion Dec: -23.1600053 mas/yr	SpT=M2; A_V=0.75; U=15.2; B=16.0; V=14.8; R=13.8; J=10.6	
	Alt Name2: J15475062-3528353	Equinox: J2000	Parallax: 0.00641481855"		
			Epoch of Position: 2015.5		
Fixed Targets	<p><i>Comments: Sz72 : HM Lup, J15475062-3528353</i></p> <p><i>Region: Lupus I</i></p> <p><i>Simbad: https://simbad.u-strasbg.fr/simbad/sim-id?Ident=2MASS+J15475062-3528353&submit=submit+id</i></p> <p><i>Target coordinates are from Gaia DR2.</i></p> <p><i>Spectral type: M2 ; A_V: 0.75 ; Distance (pc): 150</i></p> <p><i>M*: 0.37 ; log(dm/dt): -8.65</i></p> <p><i>Input file: spring-survey-todo-crp04feb21.csv</i></p> <p><i>sz72_lya2_etc_scaled_pAV0.50.txt</i></p> <p><i>Calculation performed 2021-02-12T16:28:22, v0.6</i></p> <hr/> <p><i>tstatus; SZ72; P/COS approved for submission; S/STIS approved for submission; P/DS 02/03/21; S/DS 02/03/21</i></p> <p><i>tcheck; APT/SIMBAD target names: ; SZ72 ...</i></p> <p><i>Default SIMBAD name is V* HM Lup, aka 2MASS J15475062-3528353, Gaia DR2 6011573266459331072</i></p> <p><i>tcheck; Target info verification status?; OK ...</i></p> <p><i>Flam(B) = 1.86e-15 at 4440 Angstroms (average) and Flam(V) = 3.8e-15 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD. R = 13.8 from NOMAD</i></p> <p><i>tcheck; Coordinates & P.M. verified, epoch checked?; Yes</i></p> <p><i>tcheck; Adopted SED compared to Observations?; Yes</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>				

Proposal 16477 - SZ72-COS (3C) - ULLYSES mid M-type T Tauri Survey Stars in Lupus 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 (3) SZ72 (COS.ta.148 2201)	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				190.2 Secs (190.2 Secs) [==>]	[1]
	<p>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.ta.1482201, B.P=12.161 Baseline SED (scaled with additional A_V=0.50) calculation for PSA/MIRRORB with S/N=40: COS.ta.1482199, B.P=1.183</p>								
	2	G130M/129 (3) SZ72 1-3 (COS.sp.148 4124)	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=36 73; FP-POS=3			858 Secs (858 Secs) [==>]	[1]
	<p>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1484124, B.P=0.095 Baseline SED (scaled with additional A_V=0.50) calculation for G130M/c1291: COS.sp.1484123, B.P=0.095. Total S/N achieved in 4 x G130M exposures ~11/resel @ 1239A</p> <p>sz72_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None) Input file: spring-survey-todo-crp04feb21.csv Spectral type: M2 ; A_V: 0.75 ; Distance (pc): 150 M*: 0.37 ; log(dm/dt): -8.65 For exptime=2046.6 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): 325.9 cts/s/segment brightest pixel: 0.015 cts/s/pix at 1304.8 A Calculation performed 2021-02-12T16:28:21, v0.21</p>								
3	G130M/129 (3) SZ72 1-4 (COS.sp.148 4124)	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=36 73; FP-POS=4			858 Secs (858 Secs) [==>]	[1]	
<p>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1484124, B.P=0.095 Baseline SED (scaled with additional A_V=0.50) calculation for G130M/c1291: COS.sp.1484123, B.P=0.095. Total S/N achieved in 4 x G130M exposures ~11/resel @ 1239A</p> <p>sz72_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None) Input file: spring-survey-todo-crp04feb21.csv Spectral type: M2 ; A_V: 0.75 ; Distance (pc): 150 M*: 0.37 ; log(dm/dt): -8.65 For exptime=2046.6 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): 325.9 cts/s/segment brightest pixel: 0.015 cts/s/pix at 1304.8 A Calculation performed 2021-02-12T16:28:21, v0.21</p>									
4	G160M/158 (3) SZ72 9-3 (COS.sp.148 4137)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=82 05; FP-POS=3			1177 Secs (1177 Secs) [==>]	[2]	
<p>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1484137, B.P=0.073 Baseline SED (scaled with additional A_V=0.50) calculation for G160M/c1589: COS.sp.1484136, B.P=0.005. Total S/N achieved in 6 x G160M exposures ~21/resel @ 1548.5A</p> <p>sz72_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1589,psa,mjd#59305; fp-pos=None, segment=None) Input file: spring-survey-todo-crp04feb21.csv Spectral type: M2 ; A_V: 0.75 ; Distance (pc): 150 M*: 0.37 ; log(dm/dt): -8.65 For exptime=1976.9 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): 90.0 cts/s/segment brightest pixel: 0.005 cts/s/pix at 1446.2 A Calculation performed 2021-02-12T16:28:17, v0.21</p>									

Proposal 16477 - SZ72-COS (3C) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

5	G160M/158 (3) SZ72 9-4 (COS.sp.148 4137)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=82 05; FP-POS=4	1177 Secs (1177 Secs) [==>]	[2]
<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1484137, B.P=0.073</i> <i>Baseline SED (scaled with additional A_V=0.50) calculation for G160M/c1589: COS.sp.1484136, B.P=0.005. Total S/N achieved in 6 x G160M exposures ~21/resel @1548.5A</i></p> <p><i>sz72_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1589,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M2 ; A_V: 0.75 ; Distance (pc): 150</i> <i>M*: 0.37 ; log(dm/dt): -8.65</i> <i>For exptime=1976.9 s, spectral region:</i> <i>1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623</i> <i>The exptime for this c1589 exposure has been halved because c1589 & c1623 target the same line.</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 90.0 cts/s/segment</i> <i>brightest pixel: 0.005 cts/s/pix at 1446.2 A</i> <i>Calculation performed 2021-02-12T16:28:17, v0.21</i></p>						
6	G160M/162 (3) SZ72 3-1 (COS.sp.148 4140)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=91 88; FP-POS=1	1178 Secs (1178 Secs) [==>]	[3]
<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1484140, B.P=0.071</i> <i>Baseline SED (scaled with additional A_V=0.50) calculation for G160M/c1623: COS.sp.1484139, B.P=0.005. Total S/N achieved in 6 x G160M exposures ~21/resel @1548.5A</i></p> <p><i>sz72_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1623,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M2 ; A_V: 0.75 ; Distance (pc): 150</i> <i>M*: 0.37 ; log(dm/dt): -8.65</i> <i>For exptime=2030.5 s, spectral region:</i> <i>1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623</i> <i>The exptime for this c1623 exposure has been halved because c1589 & c1623 target the same line.</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 87.8 cts/s/segment</i> <i>brightest pixel: 0.005 cts/s/pix at 1446.2 A</i> <i>Calculation performed 2021-02-12T16:28:19, v0.21</i></p>						
7	G160M/162 (3) SZ72 3-2 (COS.sp.148 4140)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=91 88; FP-POS=2	1178 Secs (1178 Secs) [==>]	[3]
<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1484140, B.P=0.071</i> <i>Baseline SED (scaled with additional A_V=0.50) calculation for G160M/c1623: COS.sp.1484139, B.P=0.005. Total S/N achieved in 6 x G160M exposures ~21/resel @1548.5A</i></p> <p><i>sz72_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1623,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M2 ; A_V: 0.75 ; Distance (pc): 150</i> <i>M*: 0.37 ; log(dm/dt): -8.65</i> <i>For exptime=2030.5 s, spectral region:</i> <i>1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623</i> <i>The exptime for this c1623 exposure has been halved because c1589 & c1623 target the same line.</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 87.8 cts/s/segment</i> <i>brightest pixel: 0.005 cts/s/pix at 1446.2 A</i> <i>Calculation performed 2021-02-12T16:28:19, v0.21</i></p>						



Proposal 16477 - SZ72-COS (3D) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

Tue Aug 03 18:01:08 GMT 2021

Visit	<p>Proposal 16477, SZ72-COS (3D), completed</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 29-APR-2021:09:00 AND 11-MAY-2021:17:15; BETWEEN 12-MAY-2021:19:40 AND 25-MAY-2021:22:30</p> <p><i>Comments: vstatus; 3D; SZ72; P/COS approved for submission; P/DS 12/03/21 ; intrev: complete ; P/CP 18/03/21</i></p> <p><i>vcheck; Enter targ name & Inst. & Resp. Sci.; SZ72 ; COS ; DS</i></p> <p><i>vcheck; ETC numbers entered in APT?; Yes</i></p> <p><i>vcheck; Any screening violations?; No</i></p> <p><i>vcheck; M-dwarf check complete and added to box folder?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/survey/revise-mstar-bop.xls</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>located at: box/ullyses_tech/ullyses_proposals/survey/16477/images/sz72/</i></p> <p><i>vcheck; Selected ACQ strategy?; Yes ...</i></p> <p><i>PSA, MIRRORB, S/N=40</i></p> <p><i>vcheck; Possible ACQ or Sci spoilers?; No</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; Yes ...</i></p> <p><i>STIS visit has GROUP 3S,3C,3D WITHIN 1D</i></p> <p><i>vcheck; phase constraint for ground based observations added?; N.A</i></p> <p><i>vcheck; BETWEENS for coordinated observations added?; Yes ...</i></p> <p><i>29 APR 2021 09:00 to 11 May 2021 17:15 and 12 May 2021 19:40 - 25 May 2021 22:30</i></p> <p><i>vcheck; Is visit ready for int. review?; Yes</i></p> <p><i>Allocated COS orbits = 5</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>(3)</td> <td>SZ72</td> <td>RA: 15 47 50.6110 (236.9608792d)</td> <td>Proper Motion RA: -14.26284379 mas/yr</td> <td>V=14.79</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td>Alt Name1: HM-LUP</td> <td>Dec: -35 28 35.76 (-35.47660d)</td> <td>Proper Motion Dec: -23.1600053 mas/yr</td> <td>SpT=M2; A_V=0.75; U=15.2; B=16.0; V=14.8; R=13.8; J=10.6</td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: J15475062-3528353</td> <td>Equinox: J2000</td> <td>Parallax: 0.00641481855"</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Epoch of Position: 2015.5</td> <td></td> <td></td> </tr> </tbody> </table> <p><i>Comments: Sz72 : HM Lup, J15475062-3528353</i></p> <p><i>Region: Lupus I</i></p> <p><i>Simbad: https://simbad.u-strasbg.fr/simbad/sim-id?Ident=2MASS+J15475062-3528353&submit=submit+id</i></p> <p><i>Target coordinates are from Gaia DR2.</i></p> <p><i>Spectral type: M2 ; A_V: 0.75 ; Distance (pc): 150</i></p> <p><i>M*: 0.37 ; log(dm/dt): -8.65</i></p> <p><i>Input file: spring-survey-todo-crp04feb21.csv</i></p> <p><i>sz72_lya2_etc_scaled_pAV0.50.txt</i></p> <p><i>Calculation performed 2021-02-12T16:28:22, v0.6</i></p> <p>-----</p> <p><i>tstatus: SZ72; P/COS approved for submission; S/STIS approved for submission; P/DS 02/03/21; S/DS 02/03/21</i></p> <p><i>tcheck; APT/SIMBAD target names: ; SZ72 ...</i></p> <p><i>Default SIMBAD name is V* HM Lup, aka 2MASS J15475062-3528353, Gaia DR2 6011573266459331072</i></p> <p><i>tcheck; Target info verification status?; OK ...</i></p> <p><i>Flam(B) = 1.86e-15 at 4440 Angstroms (average) and Flam(V) = 3.8e-15 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD. R = 13.8 from NOMAD</i></p> <p><i>tcheck; Coordinates & P.M. verified, epoch checked?; Yes</i></p> <p><i>tcheck; Adopted SED compared to Observations?; Yes</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	(3)	SZ72	RA: 15 47 50.6110 (236.9608792d)	Proper Motion RA: -14.26284379 mas/yr	V=14.79	Reference Frame: ICRS		Alt Name1: HM-LUP	Dec: -35 28 35.76 (-35.47660d)	Proper Motion Dec: -23.1600053 mas/yr	SpT=M2; A_V=0.75; U=15.2; B=16.0; V=14.8; R=13.8; J=10.6			Alt Name2: J15475062-3528353	Equinox: J2000	Parallax: 0.00641481855"						Epoch of Position: 2015.5	
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																														
(3)	SZ72	RA: 15 47 50.6110 (236.9608792d)	Proper Motion RA: -14.26284379 mas/yr	V=14.79	Reference Frame: ICRS																														
	Alt Name1: HM-LUP	Dec: -35 28 35.76 (-35.47660d)	Proper Motion Dec: -23.1600053 mas/yr	SpT=M2; A_V=0.75; U=15.2; B=16.0; V=14.8; R=13.8; J=10.6																															
	Alt Name2: J15475062-3528353	Equinox: J2000	Parallax: 0.00641481855"																																
			Epoch of Position: 2015.5																																
Fixed Targets																																			

Proposal 16477 - SZ72-COS (3D) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

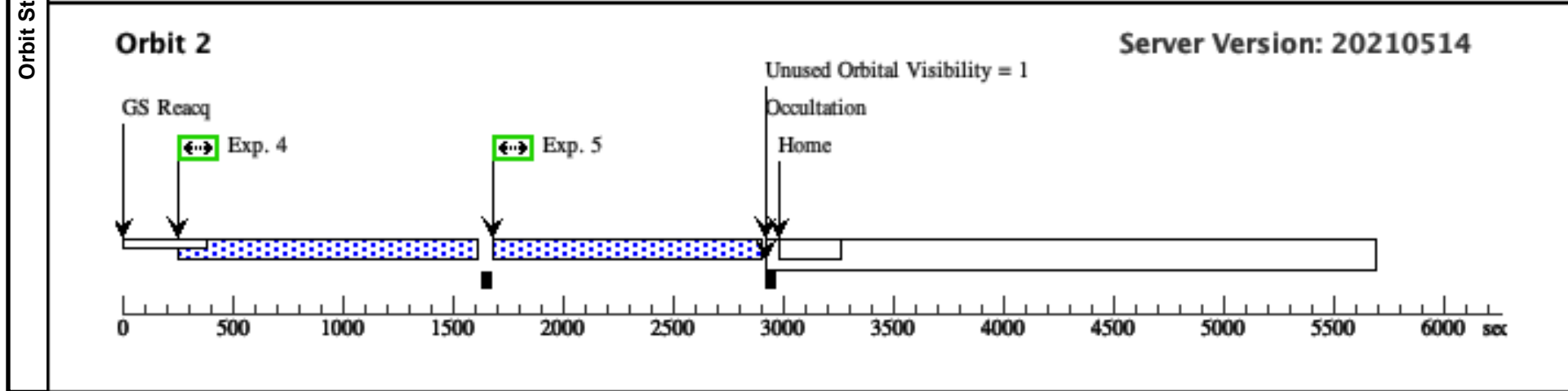
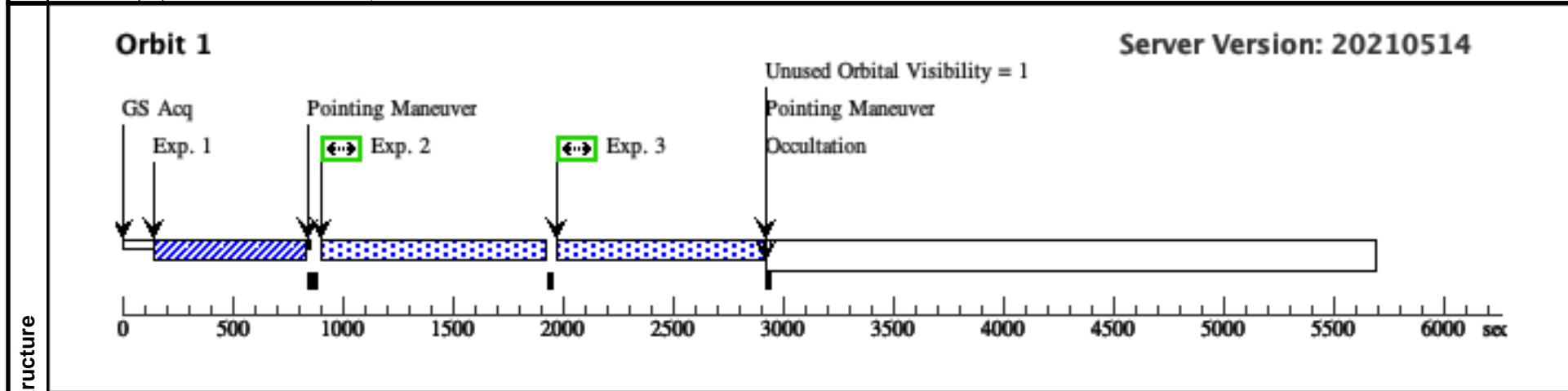
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	ACQ/Image (3) SZ72 (COS.ta.148 2201)	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				190.2 Secs (190.2 Secs) [==>]	[1]
	<p>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.ta.1482201, B.P=12.161 Baseline SED (scaled with additional A_V=0.50) calculation for PSA/MIRRORB with S/N=40: COS.ta.1482199, B.P=1.183</p>								
	2	G160M/158 (3) SZ72 9-4 (COS.sp.148 4146)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=82 05; FP-POS=4			806 Secs (806 Secs) [==>]	[1]
	<p>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1484146, B.P=0.073 Baseline SED (scaled with additional A_V=0.50) calculation for G160M/c1589: COS.sp.1484145, B.P=0.005. Total S/N achieved in 6 x G160M exposures ~21/resel @ 1548.5A</p> <p>sz72_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1589,psa,mjd#59305; fp-pos=None, segment=None) Input file: spring-survey-todo-crp04feb21.csv Spectral type: M2 ; A_V: 0.75 ; Distance (pc): 150 M*: 0.37 ; log(dm/dt): -8.65 For exptime=1976.9 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): 90.0 cts/s/segment brightest pixel: 0.005 cts/s/pix at 1446.2 A Calculation performed 2021-02-12T16:28:17, v0.21</p>								
3	G160M/162 (3) SZ72 3-1 (COS.sp.148 4144)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=91 88; FP-POS=1			806 Secs (806 Secs) [==>]	[1]	
<p>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1484144, B.P=0.071 Baseline SED (scaled with additional A_V=0.50) calculation for G160M/c1623: COS.sp.1484143, B.P=0.005. Total S/N achieved in 6 x G160M exposures ~21/resel @ 1548.5A</p> <p>sz72_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1623,psa,mjd#59305; fp-pos=None, segment=None) Input file: spring-survey-todo-crp04feb21.csv Spectral type: M2 ; A_V: 0.75 ; Distance (pc): 150 M*: 0.37 ; log(dm/dt): -8.65 For exptime=2030.5 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: 0.005 cts/s/pix at 1446.2 A Calculation performed 2021-02-12T16:28:19, v0.21</p>									
4	G130M/129 (3) SZ72 1-3 (COS.sp.148 4133)	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=36 73; FP-POS=3			1172 Secs (1172 Secs) [==>]	[2]	
<p>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1484133, B.P=0.095 Baseline SED (scaled with additional A_V=0.50) calculation for G130M/c1291: COS.sp.1484132, B.P=0.095. Total S/N achieved in 4 x G130M exposures ~11/resel @ 1239A</p> <p>sz72_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None) Input file: spring-survey-todo-crp04feb21.csv Spectral type: M2 ; A_V: 0.75 ; Distance (pc): 150 M*: 0.37 ; log(dm/dt): -8.65 For exptime=2046.6 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): 325.9 cts/s/segment brightest pixel: 0.015 cts/s/pix at 1304.8 A Calculation performed 2021-02-12T16:28:21, v0.21</p>									

Proposal 16477 - SZ72-COS (3D) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

5	G130M/129 (3) SZ72	COS/FUV, TIME-TAG, PSA	G130M	BUFFER-TIME=36	1172 Secs (1172 Secs)	
	1-4 (COS.sp.148 4133)		1291 A	73; FP-POS=4	[==>]	[2]

Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1484133, B.P=0.095
 Baseline SED (scaled with additional A_V=0.50) calculation for G130M/c1291: COS.sp.1484132, B.P=0.095. Total S/N achieved in 4 x G130M exposures ~11/resel @1239A

sz72_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None)
 Input file: spring-survey-todo-crp04feb21.csv
 Spectral type: M2 ; A_V: 0.75 ; Distance (pc): 150
 M*: 0.37 ; log(dm/dt): -8.65
 For exptime=2046.6 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): 325.9 cts/s/segment
 brightest pixel: 0.015 cts/s/pix at 1304.8 A
 Calculation performed 2021-02-12T16:28:21, v0.21



Proposal 16477 - SZ72-STIS (3S) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

Tue Aug 03 18:01:08 GMT 2021

Proposal 16477, SZ72-STIS (3S), completed
Diagnostic Status: No Diagnostics
 Scientific Instruments: STIS/NUV-MAMA, STIS/CCD
 Special Requirements: SCHED 100%; BETWEEN 29-APR-2021:09:00 AND 11-MAY-2021:18:50; BETWEEN 12-MAY-2021:19:40 AND 26-MAY-2021:00:05; GROUP 3S,3C,3D WITHIN 1D
Comments: vstatus; 3S; SZ72; P/STIS approved for submission; P/DS 12/03/21 ; intrev: complete ; P/CP 18/03/21
vcheck; Enter targ name & Inst. & Resp. Sci.; SZ72 ; STIS ; DS
vcheck; ETC numbers entered in APT?; Yes
vcheck; Any screening violations?; No
vcheck; M-dwarf check complete and added to box folder?; Yes ...
located at: box/ullyses_tech/ullyses_proposals/survey/revise-mstar-bop.xls
vcheck; S/N ETC calcs done & documented?; Yes
vcheck; Field images checked & saved?; Yes ...
located at: box/ullyses_tech/ullyses_proposals/survey/16477/images/sz69/
vcheck; Selected ACQ strategy?; Yes ...
S/N = 80 using R mag with F28X50LP
vcheck; Possible ACQ or Sci spoilers?; No
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; Yes ...
 STIS visit has GROUP 3S,3C,3D WITHIN 1D
vcheck; phase constraint for ground based observations added?; N.A
vcheck; BETWEENS for coordinated observations added?; Yes ...
 29 APR 2021 09:00 to 11 May 2021 18:50 and 12 May 2021 19:40 - 26 May 2021 00:05
vcheck; Is visit ready for int. review?; Yes
 Allocated STIS orbits = 1

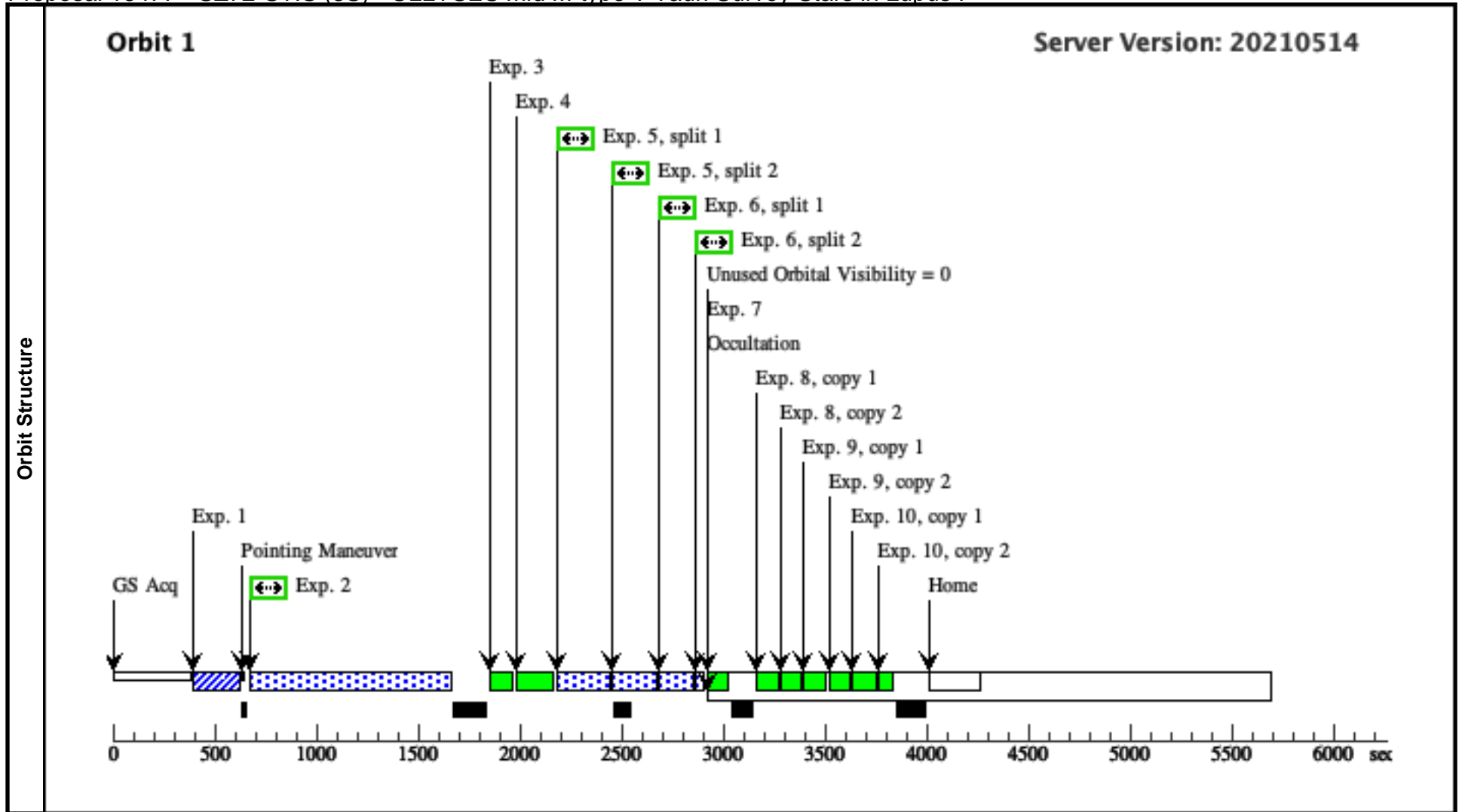
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	SZ72	RA: 15 47 50.6110 (236.9608792d)	Proper Motion RA: -14.26284379 mas/yr	V=14.79	Reference Frame: ICRS
	Alt Name1: HM-LUP	Dec: -35 28 35.76 (-35.47660d)	Proper Motion Dec: -23.1600053 mas/yr	SpT=M2; A_V=0.75; U=15.2; B=16.0; V=14.8; R=13.8; J=10.6	
	Alt Name2: J15475062-3528353	Equinox: J2000	Parallax: 0.00641481855"		
			Epoch of Position: 2015.5		
<p><i>Comments: Sz72 : HM Lup, J15475062-3528353</i> Region: Lupus I Simbad: https://simbad.u-strasbg.fr/simbad/sim-id?Ident=2MASS+J15475062-3528353&submit=submit+id Target coordinates are from Gaia DR2. Spectral type: M2 ; A_V: 0.75 ; Distance (pc): 150 M*: 0.37 ; log(dm/dt): -8.65 Input file: spring-survey-todo-crp04feb21.csv sz72_lya2_etc_scaled_pAV0.50.txt Calculation performed 2021-02-12T16:28:22, v0.6</p> <hr/> <p><i>tstatus: SZ72; P/COS approved for submission; S/STIS approved for submission; P/DS 02/03/21; S/DS 02/03/21</i> <i>tcheck; APT/SIMBAD target names: ; SZ72 ...</i> Default SIMBAD name is V* HM Lup, aka 2MASS J15475062-3528353, Gaia DR2 6011573266459331072 <i>tcheck; Target info verification status?; OK ...</i> Flam(B) = 1.86e-15 at 4440 Angstroms (average) and Flam(V) = 3.8e-15 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD. R = 13.8 from NOMAD <i>tcheck; Coordinates & P.M. verified, epoch checked?; Yes</i> <i>tcheck; Adopted SED compared to Observations?; Yes</i> Category=STAR Description=[T TAURI STAR, PRE-MAIN SEQUENCE STAR] Extended=NO</p>					

Proposal 16477 - SZ72-STIS (3S) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ (3) SZ72 (STIS.ta.148 2715)	STIS/CCD, ACQ, F28X50LP	MIRROR				0.5 Secs (0.5 Secs) [==>]	[1]	
	<p>Comments: Calculation with baseline SED (scaled with additional A_V=0.50), normalized to R=13.8 vegamag, for STIS/CCD/F28X50LP with S/N=80: STIS.ta.1482715 BOP calculation with 4X baseline SED (without additional A_V=0.50), normalized to R=12.3 vegamag: STIS.ta.1482718</p>									
	2	G230L/2376 (3) SZ72 (STIS.sp.14 82747)	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	WAVECAL=NO; BUFFER-TIME=62 7			833.6 Secs (833.6 Secs) [==>]	[1]	
	<p>Comments: BOP calculation with 4X SED (without additional A_V=0.50): STIS.sp.1482747, B.P=7.048 Baseline SED (scaled with additional A_V=0.50) calculation for G230L: STIS.sp.1482746, B.P=0.728</p> <p>sz72_lya2_etc_scaled_pAV0.50.txt; stis,nuvmama,g230l,c2376,52x2,mjd#59305 Input file: spring-survey-todo-crp04feb21.csv Spectral type: M2 ; A_V: 0.75 ; Distance (pc): 150 M*: 0.37 ; log(dm/dt): -8.65 For exptime=112.3 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): 2401.0 cts/s/segment brightest pixel: 0.731 cts/s/pix at 2796.8 A Calculation performed 2021-02-12T16:28:22, v0.21</p>									
	3	G230L/2376 WAVE WAVECAL	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				[==>]	[1]	
4	G430L/4300 WAVE WAVECAL	STIS/CCD, ACCUM, 52X0.1	G430L 4300 A				[==>]	[1]		
5	G430L/4300 (3) SZ72 (STIS.sp.14 82734)	STIS/CCD, ACCUM, 52X2	G430L 4300 A	WAVECAL=NO; CR-SPLIT=2; GAIN=4			370 Secs (370 Secs) [==>(Split 1)] [==>(Split 2)]	[1]		
<p>Comments: Calculation with baseline SED (scaled with additional A_V=0.50), normalized to Flam(B)=1.86e-15 ergs/s/cm^2/Ang, for G430L: STIS.sp.1482734, B.P=7.727 BOP calculation with 4X SED (without additional A_V=0.50) no normalization: STIS.sp.1482736, B.P=235.9</p> <p>sz72_lya2_etc_scaled_pAV0.50.txt; stis,ccd,g430l,c4300,52x2,mjd#59305 WARNING: operating mode = ACCUM Input file: spring-survey-todo-crp04feb21.csv Spectral type: M2 ; A_V: 0.75 ; Distance (pc): 150 M*: 0.37 ; log(dm/dt): -8.65 For exptime=37.4 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): 49162.9 cts/s/segment brightest pixel: 30.033 cts/s/pix at 4560.5 A Calculation performed 2021-02-12T16:28:22, v0.21</p>										

Proposal 16477 - SZ72-STIS (3S) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

6	G750L/7751 (3) SZ72 (STIS.sp.14 82739)	STIS/CCD, ACCUM, 52X2	G750L 7751 A	WAVECAL=NO; CR-SPLIT=2; GAIN=1	24 Secs (24 Secs)	
					[==>(Split 1)]	[1]
<p><i>Comments: Calculation with baseline SED (scaled with additional A_V=0.50), normalized to Flam(V)=3.8e-15 ergs/s/cm^2/Ang, for G750L: STIS.sp.1482739, B.P=55.8 BOP calculation with 4X SED (without additional A_V=0.50) and no normalization: STIS.sp.1482740, B.P=1674.6</i></p> <p><i>sz72_lya2_etc_scaled_pAV0.50.txt; stis.ccd,g750l,c7751,52x2,mjd#59305</i></p> <p><i>WARNING: operating mode = ACCUM</i></p> <p><i>Input file: spring-survey-todo-crp04feb21.csv</i></p> <p><i>Spectral type: M2 ; A_V: 0.75 ; Distance (pc): 150</i></p> <p><i>M*: 0.37 ; log(dm/dt): -8.65</i></p> <p><i>For exptime=2.7 s, n_reads=2, spectral region:</i></p> <p><i>5700.0 +- 5.0 A achieves SNR=20.0 / 2-pix-resel</i></p> <p><i>A factor of 2.0 has been applied to the exptime in each exposure.</i></p> <p><i>global countrate (brightest segment): 126944.8 cts/s/segment</i></p> <p><i>brightest pixel: 247.683 cts/s/pix at 6563.9 A</i></p> <p><i>Calculation performed 2021-02-12T16:28:22, v0.21</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]



Proposal 16477 - SZ76-COS (4C) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

Tue Aug 03 18:01:08 GMT 2021

Visit	<p>Proposal 16477, SZ76-COS (4C), failed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 29-APR-2021:09:00 AND 11-MAY-2021:17:15; BETWEEN 12-MAY-2021:19:40 AND 25-MAY-2021:22:30</p> <p><i>Comments: vstatus; 4C; SZ76; P/COS approved for submission; P/DS 12/03/21 ; intrev: complete ; P/CP 18/03/21</i></p> <p><i>vcheck; Enter targ name & Inst. & Resp. Sci.; SZ76 ; COS ; DS</i></p> <p><i>vcheck; ETC numbers entered in APT?; Yes</i></p> <p><i>vcheck; Any screening violations?; No</i></p> <p><i>vcheck; M-dwarf check complete and added to box folder?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/survey/revise-mstar-bop.xls</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>located at: box/ullyses_tech/ullyses_proposals/survey/16477/images/sz76/</i></p> <p><i>vcheck; Selected ACQ strategy?; Yes ...</i></p> <p><i>BOP clearing recommended BOA/MirrorA too expensive. Adopted PSA/MirrorA w/ S/N = 40 ACQ on offset star</i></p> <p><i>This offset acquisition target for SZ76 is ~21.4" away from SZ69 and GAIA G mag and colors for this target is consistent with a reddened F2V star.</i></p> <p><i>SIMBAD type is RR Lyr and the G-band peak-to-peak variability is ~0.33 mag. 2MASS color not consistent with M</i></p> <p><i>Anders+2019 reports $A_V=1.82$, $(E(B-V)=0.5882)$, $T_{\text{eff}}=6808.8$, $\log g=3.66$, $Fe/H=-0.22$</i></p> <p><i>$V = 16.33$ from $G = 16.25$ with $G - V = -0.080$; $B = 16.7$ from $V = 16.33$ with $B - V = 0.37$</i></p> <p><i>For O3V scenario (screening): $V = 16.4$ from $G = 16.25$ with $G - V = -0.11$; $B = 16.8$ from $V = 16.4$ with $B - V = 0.44$ - Counttrate equals max allowable.</i></p> <p><i>BOT warning with assumption of O5V with $V = 16.6$ but likely without extinction</i></p> <p><i>vcheck; Possible ACQ or Sci spoilers?; No</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; Yes ...</i></p> <p><i>STIS visit has GROUP 4S,4C,4D WITHIN 1D</i></p> <p><i>vcheck; phase constraint for ground based observations added?; N.A</i></p> <p><i>vcheck; BETWEENS for coordinated observations added?; Yes ...</i></p> <p><i>29 APR 2021 09:00 to 11 May 2021 17:15 and 12 May 2021 19:40 - 25 May 2021 22:30</i></p> <p><i>vcheck; Is visit ready for int. review?; Yes</i></p> <p><i>Allocated COS orbits = 4</i></p>
Diagnostics	<p>(SZ76-COS (4C)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>

Proposal 16477 - SZ76-COS (4C) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	
Fixed Targets	(4)	SZ76 Alt Name1: J15493074-3549514	RA: 15 49 30.7192 (237.3779967d) Dec: -35 49 51.78 (-35.83105d) Equinox: J2000	Proper Motion RA: -12.76686764 mas/yr Proper Motion Dec: -23.36982347 mas/yr Parallax: 0.006268147727000001" Epoch of Position: 2015.5	V=15.18 SpT=M4; A_V=0.20; U=15.7; B=16.44; V=15.2; R=13.8; J=11.0	Reference Frame: ICRS
	<p>Comments: Sz76 : J15493074-3549514 Region: Lupus I Simbad: https://simbad.u-strasbg.fr/simbad/sim-id?Ident=2MASS+J15493074-3549514&submit=submit+id Target coordinates are from Gaia DR2. Spectral type: M4 ; A_V: 0.2 ; Distance (pc): 150 M*: 0.23 ; log(dm/dt): -9.26 Input file: spring-survey-todo-crp04feb21.csv sz76_lya2_etc_scaled_pAV0.50.txt Calculation performed 2021-02-12T16:28:42, v0.6</p> <hr/> <p>tstatus: SZ76; P/COS approved for submission; S/STISapproved for submission; P/DS 02/03/21; S/DS 02/03/21 tcheck; APT/SIMBAD target names: ; SZ76 ... Default SIMBAD name is SZ 76, aka 2MASS J15493074-3549514, Gaia DR2 6011500389453302272 tcheck; Target info verification status?; OK ... Flam(B) = 1.47e-15 at 4440 Angstroms and Flam(V) = 3.27e-15 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD. R = 13.8 from NOMAD tcheck; Coordinates & P.M. verified, epoch checked?; Yes tcheck; Adopted SED compared to Observations?; Yes Category=STAR Description=[T TAURI STAR, PRE-MAIN SEQUENCE STAR] Extended=NO</p>					
	(6)	SZ76-OFFSET Alt Name1: GAIA-DR2-6011500217654606208	RA: 15 49 32.2400 (237.3843333d) Dec: -35 50 2.64 (-35.83407d) Equinox: J2000	Proper Motion RA: -2.406511078089502 mas/yr Proper Motion Dec: -0.9232954790095951 mas/yr Parallax: 1.4054081756989434E-04" Epoch of Position: 2015.5	V=16.3 SpT = F2V; A_v = 1.8, G = 16.3; Bp - Rp = 0.49; B = 16.7; V = 16.3	Reference Frame: ICRS
	<p>Comments: COS offset target acq star for SZ76 ~21.4" away from SZ76 Colors not-consistent with M star; SIMBAD type RR Lyr variable with peak-to-peak G band variability ~0.33 mag</p> <p>Anders+2019 reports Av=1.82, (E(B-V)=0.5882), Teff=6808.8, logg=3.66, Fe/H=-0.22 Interpolated photometry for target SpT F2V: V = 16.33 from G = 16.25 with G - V = -0.08 B = 16.70 from V = 16.33 with B - V = 0.37</p> <p>Interpolated photometry for O3V scenario (screening): V = 16.36 from G = 16.25 with G - V = -0.10 B = 16.80 from V = 16.36 with B - V = 0.44 Category=STAR Description=[RR LYRAE STAR] Extended=NO</p>					

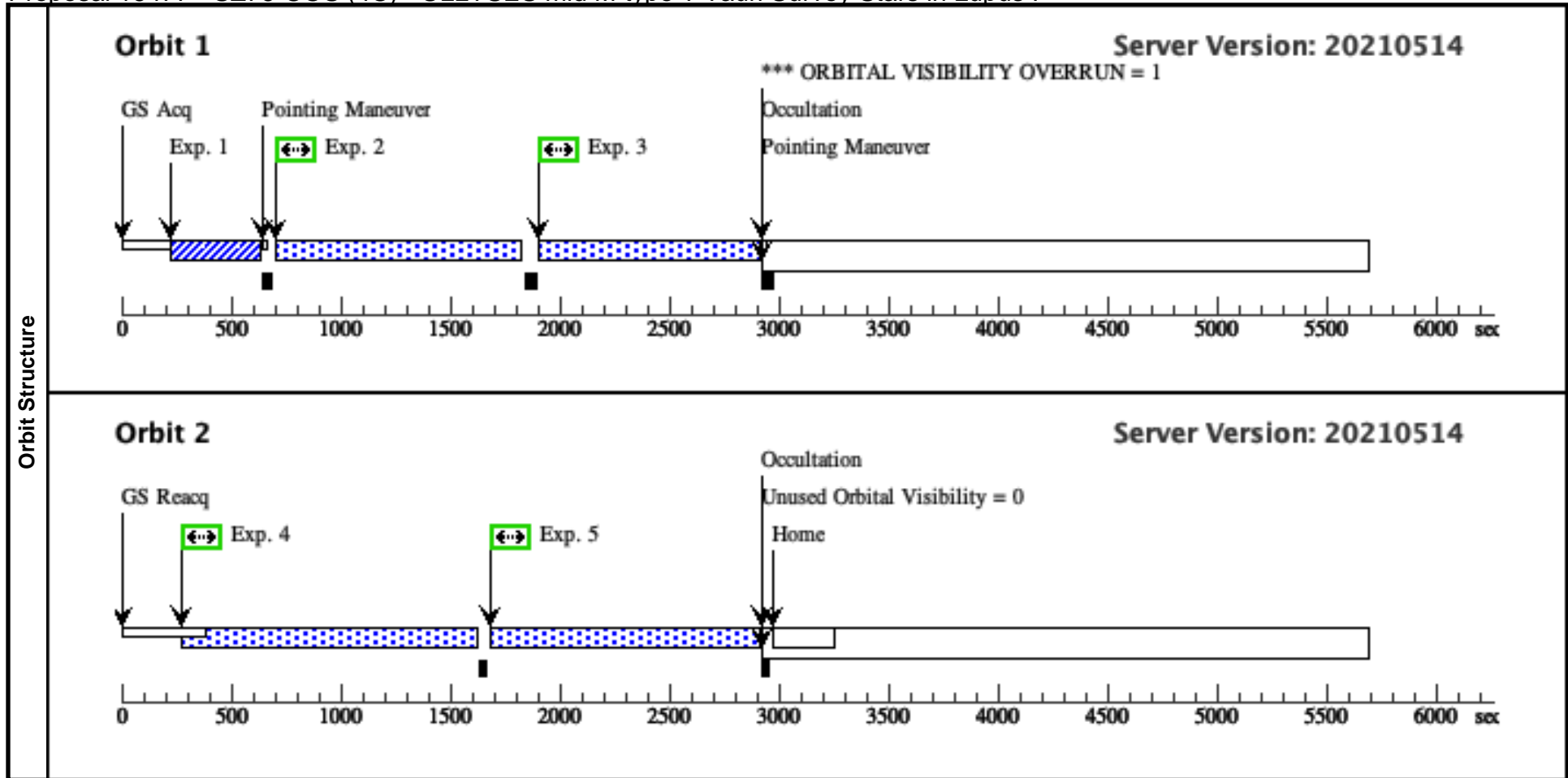
Proposal 16477 - SZ76-COS (4C) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

#	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.151 3095)	(6) SZ76-OFFSET	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				90 Secs (90 Secs)	
								[==>]	[1]
								<p><i>Comments: This offset acquisition target for SZ76 is ~21.4" away from SZ76. SIMBAD designation is RR Lyr variable. Peak-to-peak G-band variability is ~0.33 mag. GAIA G mag and 2MASS colors for this target are not consistent with M type.</i></p> <p><i>Anders+2019 (Starhorse catalog) reports Av=1.82, (E(B-V)=0.5882), Teff=6808.8, logg=3.66, Fe/H=-0.22</i></p> <p><i>Interpolated photometry for target SpT K0V: Interpolated photometry for target SpT F2V: V = 16.33 from G = 16.25 with G - V = -0.08 B = 16.70 from V = 16.33 with B - V = 0.37 For S/N = 40 with PSA/MirrorA, ETC calculation using Castelli-Kurucz Model F2V 7000 4.0, normalized to Johnson B = 16.7 Vegamag with E(B-V) = 0.59: COS.ta.1513095, B.P = 2.665</i></p> <p><i>Interpolated photometry for O3V scenario (screening): V = 16.36 from G = 16.25 with G - V = -0.10 B = 16.80 from V = 16.36 with B - V = 0.44 ETC calculation using Castelli-Kurucz Model O3V 45000 4.5, normalized to Johnson B = 16.8 Vegamag with E(B-V) = 0.59: COS.ta.1513098, B.P = 49.975 BOT warning assuming O5V star with V = 16.61 and B-V=0.65 but likely without the extinction</i></p>	
2	G130M/129 1-3 (COS.sp.151 3120)	(4) SZ76	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=27 67; FP-POS=3			954 Secs (954 Secs)	
								[==>]	[1]
								<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1513120, B.P=0.095 Baseline SED (scaled with additional A_V=0.50) calculation for G130M/c1291: COS.sp.1513119, B.P=0.095. Total S/N achieved in 4 x G130M exposures ~14/resel @1239A</i></p> <p><i>sz76_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M4 ; A_V: 0.2 ; Distance (pc): 150</i> <i>M*: 0.23 ; log(dm/dt): -9.26</i> <i>For exptime=1217.6 s, spectral region: 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): 342.6 cts/s/segment</i> <i>brightest pixel: 0.021 cts/s/pix at 1304.8 A</i> <i>Calculation performed 2021-02-12T16:28:42, v0.21</i></p>	
3	G130M/129 1-4 (COS.sp.151 3120)	(4) SZ76	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=27 67; FP-POS=4			954 Secs (954 Secs)	
								[==>]	[1]
								<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1513120, B.P=0.095 Baseline SED (scaled with additional A_V=0.50) calculation for G130M/c1291: COS.sp.1513119, B.P=0.095. Total S/N achieved in 4 x G130M exposures ~14/resel @1239A</i></p> <p><i>sz76_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M4 ; A_V: 0.2 ; Distance (pc): 150</i> <i>M*: 0.23 ; log(dm/dt): -9.26</i> <i>For exptime=1217.6 s, spectral region: 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): 342.6 cts/s/segment</i> <i>brightest pixel: 0.021 cts/s/pix at 1304.8 A</i> <i>Calculation performed 2021-02-12T16:28:42, v0.21</i></p>	

Exposures

Proposal 16477 - SZ76-COS (4C) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

4	G160M/158 (4) SZ76 9-3 (COS.sp.148 3156)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=72 74; FP-POS=3	1177 Secs (1177 Secs)	[2]
<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1483156, B.P=0.079</i> <i>Baseline SED (scaled with additional A_V=0.50) calculation for G160M/c1589: COS.sp.1483155, B.P=0.006. Total S/N achieved in 4 x G160M exposures ~22/resel @1548.5A</i></p> <p><i>sz76_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1589,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M4 ; A_V: 0.2 ; Distance (pc): 150</i> <i>M*: 0.23 ; log(dm/dt): -9.26</i> <i>For exptime=1390.8 s, spectral region:</i> <i>1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623</i> <i>The exptime for this c1589 exposure has been halved because c1589 & c1623 target the same line.</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 92.8 cts/s/segment</i> <i>brightest pixel: 0.006 cts/s/pix at 1446.2 A</i> <i>Calculation performed 2021-02-12T16:28:37, v0.21</i></p>						
5	G160M/158 (4) SZ76 9-4 (COS.sp.148 3156)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=72 74; FP-POS=4	1177 Secs (1177 Secs)	[2]
<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1483156, B.P=0.079</i> <i>Baseline SED (scaled with additional A_V=0.50) calculation for G160M/c1589: COS.sp.1483155, B.P=0.006. Total S/N achieved in 4 x G160M exposures ~22/resel @1548.5A</i></p> <p><i>sz76_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1589,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M4 ; A_V: 0.2 ; Distance (pc): 150</i> <i>M*: 0.23 ; log(dm/dt): -9.26</i> <i>For exptime=1390.8 s, spectral region:</i> <i>1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623</i> <i>The exptime for this c1589 exposure has been halved because c1589 & c1623 target the same line.</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 92.8 cts/s/segment</i> <i>brightest pixel: 0.006 cts/s/pix at 1446.2 A</i> <i>Calculation performed 2021-02-12T16:28:37, v0.21</i></p>						



Proposal 16477 - SZ76-COS (DC) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

Tue Aug 03 18:01:08 GMT 2021

Visit	<p>Proposal 16477, SZ76-COS (DC), scheduled</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 12-MAY-2021:19:40 AND 01-SEP-2021:00:00</p> <p><i>Comments: vstatus; DC; SZ76; P/COS approved for submission; P/DS 12/03/21 ; intrev: complete ; P/CP 18/03/21 vcheck; Enter targ name & Inst. & Resp. Sci.; SZ76 ; COS ; DS vcheck; ETC numbers entered in APT?; Yes vcheck; Any screening violations?; No vcheck; M-dwarf check complete and added to box folder?; Yes ... located at: box/ullyses_tech/ullyses_proposals/survey/revise-mstar-bop.xls vcheck; S/N ETC calcs done & documented?; Yes vcheck; Field images checked & saved?; Yes ... located at: box/ullyses_tech/ullyses_proposals/survey/16477/images/sz76/ vcheck; Selected ACQ strategy?; Yes ... BOP clearing recommended BOA/MirrorA too expensive. Adopted PSA/MirrorA w/ S/N = 40 ACQ on offset star This offset acquisition target for SZ76 is ~21.4" away from SZ69 and GAIA G mag and colors for this target is consistent with a reddened F2V star. SIMBAD type is RR Lyr and the G-band peak-to-peak variability is ~0.33 mag. 2MASS color not consistent with M Anders+2019 reports $A_V=1.82$, $(E(B-V)=0.5882)$, $T_{\text{eff}}=6808.8$, $\log g=3.66$, $Fe/H=-0.22$ $V = 16.33$ from $G = 16.25$ with $G - V = -0.080$; $B = 16.7$ from $V = 16.33$ with $B - V = 0.37$ For O3V scenario (screening): $V = 16.4$ from $G = 16.25$ with $G - V = -0.11$; $B = 16.8$ from $V = 16.4$ with $B - V = 0.44$ - Counttrate equals max allowable. BOT warning with assumption of O5V with $V = 16.6$ but likely without extinction vcheck; Possible ACQ or Sci spoilers?; No 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; Yes ... STIS visit has GROUP 4S,4C,4D WITHIN 1D vcheck; phase constraint for ground based observations added?; N.A vcheck; BETWEENS for coordinated observations added?; Yes ... 29 APR 2021 09:00 to 11 May 2021 17:15 and 12 May 2021 19:40 - 25 May 2021 22:30 vcheck; Is visit ready for int. review?; Yes Allocated COS orbits = 4 Repeat of 4C under HOPR 92006</i></p>
Diagnostics	<p>(SZ76-COS (DC)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>

Proposal 16477 - SZ76-COS (DC) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	SZ76	RA: 15 49 30.7192 (237.3779967d)	Proper Motion RA: -12.76686764 mas/yr	V=15.18	Reference Frame: ICRS
	Alt Name1: J15493074-3549514	Dec: -35 49 51.78 (-35.83105d) Equinox: J2000	Proper Motion Dec: -23.36982347 mas/yr Parallax: 0.006268147727000001" Epoch of Position: 2015.5	SpT=M4; A_V=0.20; U=15.7; B=16.44; V=15.2; R=13.8; J=11.0	
<p><i>Comments: Sz76 : J15493074-3549514</i> <i>Region: Lupus I</i> <i>Simbad: https://simbad.u-strasbg.fr/simbad/sim-id?Ident=2MASS+J15493074-3549514&submit=submit+id</i> <i>Target coordinates are from Gaia DR2.</i> <i>Spectral type: M4 ; A_V: 0.2 ; Distance (pc): 150</i> <i>M*: 0.23 ; log(dm/dt): -9.26</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>sz76_lya2_etc_scaled_pAV0.50.txt</i> <i>Calculation performed 2021-02-12T16:28:42, v0.6</i></p> <hr/> <p><i>tstatus: SZ76; P/COS approved for submission; S/STISapproved for submission; P/DS 02/03/21; S/DS 02/03/21</i> <i>tcheck; APT/SIMBAD target names: ; SZ76 ...</i> <i>Default SIMBAD name is SZ 76, aka 2MASS J15493074-3549514, Gaia DR2 6011500389453302272</i> <i>tcheck; Target info verification status?: OK ...</i> <i>Flam(B) = 1.47e-15 at 4440 Angstroms and Flam(V) = 3.27e-15 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD. R = 13.8 from NOMAD</i> <i>tcheck; Coordinates & P.M. verified, epoch checked?: Yes</i> <i>tcheck; Adopted SED compared to Observations?: Yes</i> <i>Category=STAR</i> <i>Description=[T TAURI STAR, PRE-MAIN SEQUENCE STAR]</i> <i>Extended=NO</i></p>					
(6)	SZ76-OFFSET	RA: 15 49 32.2400 (237.3843333d)	Proper Motion RA: -2.406511078089502 mas/yr	V=16.3	Reference Frame: ICRS
	Alt Name1: GAIA-DR2-6011500217654606208	Dec: -35 50 2.64 (-35.83407d) Equinox: J2000	Proper Motion Dec: -0.9232954790095951 mas/yr Parallax: 1.4054081756989434E-04" Epoch of Position: 2015.5	SpT = F2V; A_v = 1.8, G = 16.3; Bp - Rp = 0.49; B = 16.7; V = 16.3	
<p><i>Comments: COS offset target acq star for SZ76</i> <i>~21.4" away from SZ76</i> <i>Colors not-consistent with M star; SIMBAD type RR Lyr variable with peak-to-peak G band variability ~0.33 mag</i></p> <p><i>Anders+2019 reports Av=1.82, (E(B-V)=0.5882), Teff=6808.8, logg=3.66, Fe/H=-0.22</i> <i>Interpolated photometry for target SpT F2V:</i> <i>V = 16.33 from G = 16.25 with G - V = -0.08</i> <i>B = 16.70 from V = 16.33 with B - V = 0.37</i></p> <p><i>Interpolated photometry for O3V scenario (screening):</i> <i>V = 16.36 from G = 16.25 with G - V = -0.10</i> <i>B = 16.80 from V = 16.36 with B - V = 0.44</i> <i>Category=STAR</i> <i>Description=[RR LYRAE STAR]</i> <i>Extended=NO</i></p>					

Fixed Targets

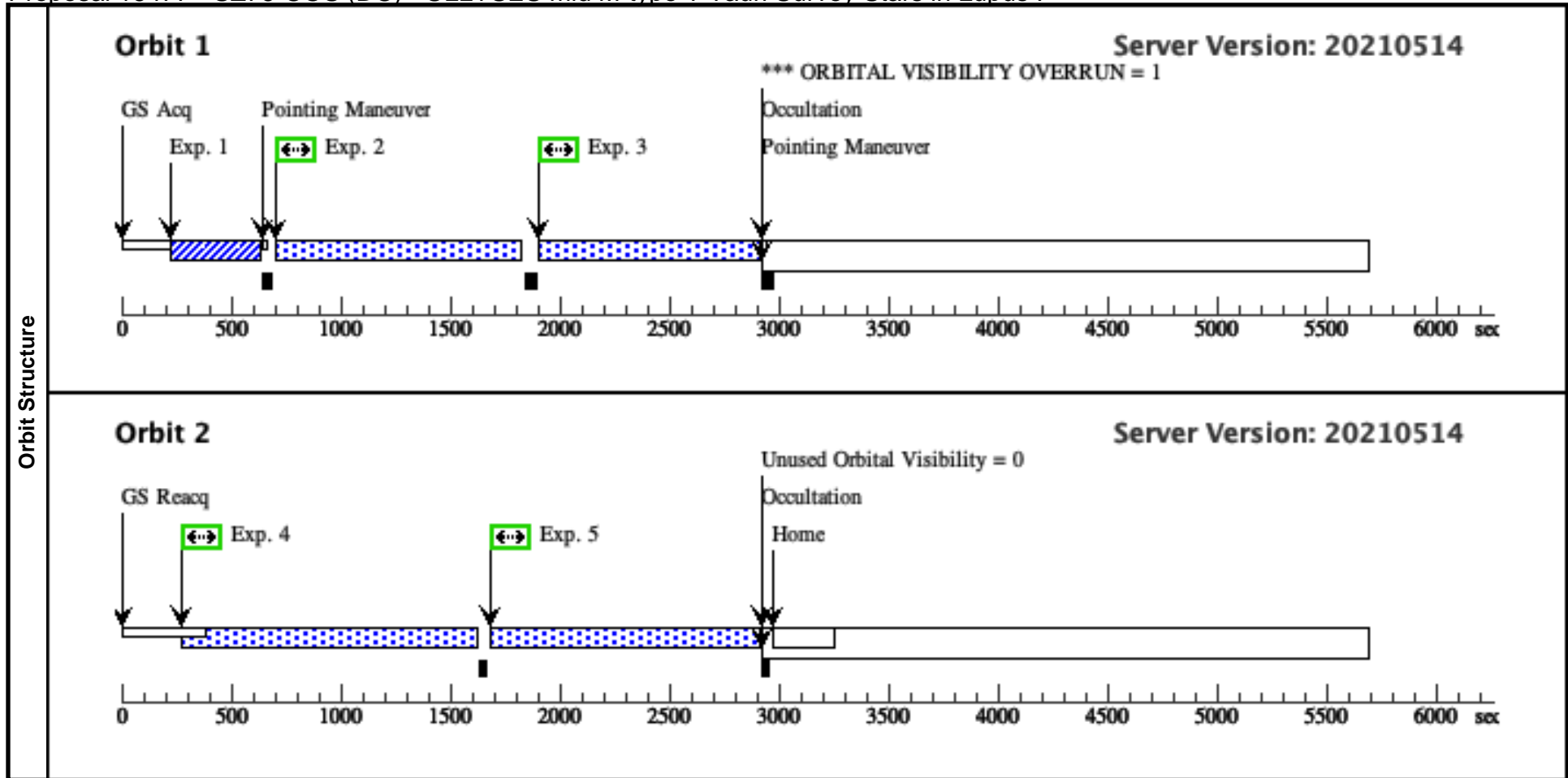
Proposal 16477 - SZ76-COS (DC) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

#	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.151 3095)	(6) SZ76-OFFSET	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				90 Secs (90 Secs)	
								[==>]	[1]
								<p><i>Comments: This offset acquisition target for SZ76 is ~21.4" away from SZ76. SIMBAD designation is RR Lyr variable. Peak-to-peak G-band variability is ~0.33 mag. GAIA G mag and 2MASS colors for this target are not consistent with M type.</i></p> <p><i>Anders+2019 (Starhorse catalog) reports Av=1.82, (E(B-V)=0.5882), Teff=6808.8, logg=3.66, Fe/H=-0.22</i></p> <p><i>Interpolated photometry for target SpT K0V: Interpolated photometry for target SpT F2V: V = 16.33 from G = 16.25 with G - V = -0.08 B = 16.70 from V = 16.33 with B - V = 0.37 For S/N = 40 with PSA/MirrorA, ETC calculation using Castelli-Kurucz Model F2V 7000 4.0, normalized to Johnson B = 16.7 Vegamag with E(B-V) = 0.59: COS.ta.1513095, B.P = 2.665</i></p> <p><i>Interpolated photometry for O3V scenario (screening): V = 16.36 from G = 16.25 with G - V = -0.10 B = 16.80 from V = 16.36 with B - V = 0.44 ETC calculation using Castelli-Kurucz Model O3V 45000 4.5, normalized to Johnson B = 16.8 Vegamag with E(B-V) = 0.59: COS.ta.1513098, B.P = 49.975 BOT warning assuming O5V star with V = 16.61 and B-V=0.65 but likely without the extinction</i></p>	
2	G130M/129 1-3 (COS.sp.151 3120)	(4) SZ76	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=27 67; FP-POS=3			954 Secs (954 Secs)	
								[==>]	[1]
								<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1513120, B.P=0.095 Baseline SED (scaled with additional A_V=0.50) calculation for G130M/c1291: COS.sp.1513119, B.P=0.095. Total S/N achieved in 4 x G130M exposures ~14/resel @1239A</i></p> <p><i>sz76_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M4 ; A_V: 0.2 ; Distance (pc): 150</i> <i>M*: 0.23 ; log(dm/dt): -9.26</i> <i>For exptime=1217.6 s, spectral region: 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): 342.6 cts/s/segment</i> <i>brightest pixel: 0.021 cts/s/pix at 1304.8 A</i> <i>Calculation performed 2021-02-12T16:28:42, v0.21</i></p>	
3	G130M/129 1-4 (COS.sp.151 3120)	(4) SZ76	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=27 67; FP-POS=4			954 Secs (954 Secs)	
								[==>]	[1]
								<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1513120, B.P=0.095 Baseline SED (scaled with additional A_V=0.50) calculation for G130M/c1291: COS.sp.1513119, B.P=0.095. Total S/N achieved in 4 x G130M exposures ~14/resel @1239A</i></p> <p><i>sz76_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M4 ; A_V: 0.2 ; Distance (pc): 150</i> <i>M*: 0.23 ; log(dm/dt): -9.26</i> <i>For exptime=1217.6 s, spectral region: 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): 342.6 cts/s/segment</i> <i>brightest pixel: 0.021 cts/s/pix at 1304.8 A</i> <i>Calculation performed 2021-02-12T16:28:42, v0.21</i></p>	

Exposures

Proposal 16477 - SZ76-COS (DC) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

4	G160M/158 (4) SZ76 9-3 (COS.sp.148 3156)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=72 74; FP-POS=3	1177 Secs (1177 Secs)	[2]
<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1483156, B.P=0.079</i> <i>Baseline SED (scaled with additional A_V=0.50) calculation for G160M/c1589: COS.sp.1483155, B.P=0.006. Total S/N achieved in 4 x G160M exposures ~22/resel @1548.5A</i></p> <p><i>sz76_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1589,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M4 ; A_V: 0.2 ; Distance (pc): 150</i> <i>M*: 0.23 ; log(dm/dt): -9.26</i> <i>For exptime=1390.8 s, spectral region:</i> <i>1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623</i> <i>The exptime for this c1589 exposure has been halved because c1589 & c1623 target the same line.</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 92.8 cts/s/segment</i> <i>brightest pixel: 0.006 cts/s/pix at 1446.2 A</i> <i>Calculation performed 2021-02-12T16:28:37, v0.21</i></p>						
5	G160M/158 (4) SZ76 9-4 (COS.sp.148 3156)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	BUFFER-TIME=72 74; FP-POS=4	1177 Secs (1177 Secs)	[2]
<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1483156, B.P=0.079</i> <i>Baseline SED (scaled with additional A_V=0.50) calculation for G160M/c1589: COS.sp.1483155, B.P=0.006. Total S/N achieved in 4 x G160M exposures ~22/resel @1548.5A</i></p> <p><i>sz76_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1589,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M4 ; A_V: 0.2 ; Distance (pc): 150</i> <i>M*: 0.23 ; log(dm/dt): -9.26</i> <i>For exptime=1390.8 s, spectral region:</i> <i>1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623</i> <i>The exptime for this c1589 exposure has been halved because c1589 & c1623 target the same line.</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 92.8 cts/s/segment</i> <i>brightest pixel: 0.006 cts/s/pix at 1446.2 A</i> <i>Calculation performed 2021-02-12T16:28:37, v0.21</i></p>						



Proposal 16477 - SZ76-COS (4D) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

Tue Aug 03 18:01:08 GMT 2021

Visit	<p>Proposal 16477, SZ76-COS (4D), failed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 29-APR-2021:09:00 AND 11-MAY-2021:17:15; BETWEEN 12-MAY-2021:19:40 AND 25-MAY-2021:22:30</p> <p><i>Comments: vstatus; 4D; SZ76; P/COS approved for submission; P/DS 12/03/21 ; intrev: complete ; P/CP 18/03/21</i></p> <p><i>vcheck; Enter targ name & Inst. & Resp. Sci.; SZ76 ; COS ; DS</i></p> <p><i>vcheck; ETC numbers entered in APT?; Yes</i></p> <p><i>vcheck; Any screening violations?; No</i></p> <p><i>vcheck; M-dwarf check complete and added to box folder?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/survey/revise-mstar-bop.xls</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>located at: box/ullyses_tech/ullyses_proposals/survey/16477/images/sz76/</i></p> <p><i>vcheck; Selected ACQ strategy?; Yes ...</i></p> <p><i>This offset acquisition target for SZ76 is ~21.4" away from SZ69 and GAIA G mag and colors for this target is consistent with a reddened F2V star.</i></p> <p><i>SIMBAD type is RR Lyr and the G-band peak-to-peak variability is ~0.33 mag. 2MASS color not consistent with M</i></p> <p><i>Anders+2019 reports Av=1.82, (E(B-V)=0.5882), Teff=6808.8, logg=3.66, Fe/H=-0.22</i></p> <p><i>V = 16.33 from G = 16.25 with G - V = -0.080; B = 16.7 from V = 16.33 with B - V = 0.37</i></p> <p><i>For O3V scenario (screening): V = 16.4 from G = 16.25 with G - V = -0.11; B = 16.8 from V = 16.4 with B - V = 0.44 - Counttrate equals max allowable.</i></p> <p><i>BOT warning with assumption of O5V with V = 16.6 but likely without extinction</i></p> <p><i>vcheck; Possible ACQ or Sci spoilers?; No</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; Yes ...</i></p> <p><i>STIS visit has GROUP 4S,4C,4D WITHIN 1D</i></p> <p><i>vcheck; phase constraint for ground based observations added?; N.A</i></p> <p><i>vcheck; BETWEENS for coordinated observations added?; Yes ...</i></p> <p><i>29 APR 2021 09:00 to 11 May 2021 17:15 and 12 May 2021 19:40 - 25 May 2021 22:30</i></p> <p><i>vcheck; Is visit ready for int. review?; Yes</i></p> <p><i>Allocated COS orbits = 4</i></p>
Diagnostics	<p>(SZ76-COS (4D)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>

Proposal 16477 - SZ76-COS (4D) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	
Fixed Targets	(4)	SZ76 Alt Name1: J15493074-3549514	RA: 15 49 30.7192 (237.3779967d) Dec: -35 49 51.78 (-35.83105d) Equinox: J2000	Proper Motion RA: -12.76686764 mas/yr Proper Motion Dec: -23.36982347 mas/yr Parallax: 0.006268147727000001" Epoch of Position: 2015.5	V=15.18 SpT=M4; A_V=0.20; U=15.7; B=16.44; V=15.2; R=13.8; J=11.0	Reference Frame: ICRS
	<p>Comments: Sz76 : J15493074-3549514 Region: Lupus I Simbad: https://simbad.u-strasbg.fr/simbad/sim-id?Ident=2MASS+J15493074-3549514&submit=submit+id Target coordinates are from Gaia DR2. Spectral type: M4 ; A_V: 0.2 ; Distance (pc): 150 M*: 0.23 ; log(dm/dt): -9.26 Input file: spring-survey-todo-crp04feb21.csv sz76_lya2_etc_scaled_pAV0.50.txt Calculation performed 2021-02-12T16:28:42, v0.6</p> <hr/> <p>tstatus: SZ76; P/COS approved for submission; S/STISapproved for submission; P/DS 02/03/21; S/DS 02/03/21 tcheck; APT/SIMBAD target names: ; SZ76 ... Default SIMBAD name is SZ 76, aka 2MASS J15493074-3549514, Gaia DR2 6011500389453302272 tcheck; Target info verification status?: OK ... Flam(B) = 1.47e-15 at 4440 Angstroms and Flam(V) = 3.27e-15 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD. R = 13.8 from NOMAD tcheck; Coordinates & P.M. verified, epoch checked?: Yes tcheck; Adopted SED compared to Observations?: Yes Category=STAR Description=[T TAURI STAR, PRE-MAIN SEQUENCE STAR] Extended=NO</p>					
	(6)	SZ76-OFFSET Alt Name1: GAIA-DR2-6011500217654606208	RA: 15 49 32.2400 (237.3843333d) Dec: -35 50 2.64 (-35.83407d) Equinox: J2000	Proper Motion RA: -2.406511078089502 mas/yr Proper Motion Dec: -0.9232954790095951 mas/yr Parallax: 1.4054081756989434E-04" Epoch of Position: 2015.5	V=16.3 SpT = F2V; A_v = 1.8, G = 16.3; Bp - Rp = 0.49; B = 16.7; V = 16.3	Reference Frame: ICRS
	<p>Comments: COS offset target acq star for SZ76 ~21.4" away from SZ76 Colors not-consistent with M star; SIMBAD type RR Lyr variable with peak-to-peak G band variability ~0.33 mag</p> <p>Anders+2019 reports Av=1.82, (E(B-V)=0.5882), Teff=6808.8, logg=3.66, Fe/H=-0.22 Interpolated photometry for target SpT F2V: V = 16.33 from G = 16.25 with G - V = -0.08 B = 16.70 from V = 16.33 with B - V = 0.37</p> <p>Interpolated photometry for O3V scenario (screening): V = 16.36 from G = 16.25 with G - V = -0.10 B = 16.80 from V = 16.36 with B - V = 0.44 Category=STAR Description=[RR LYRAE STAR] Extended=NO</p>					

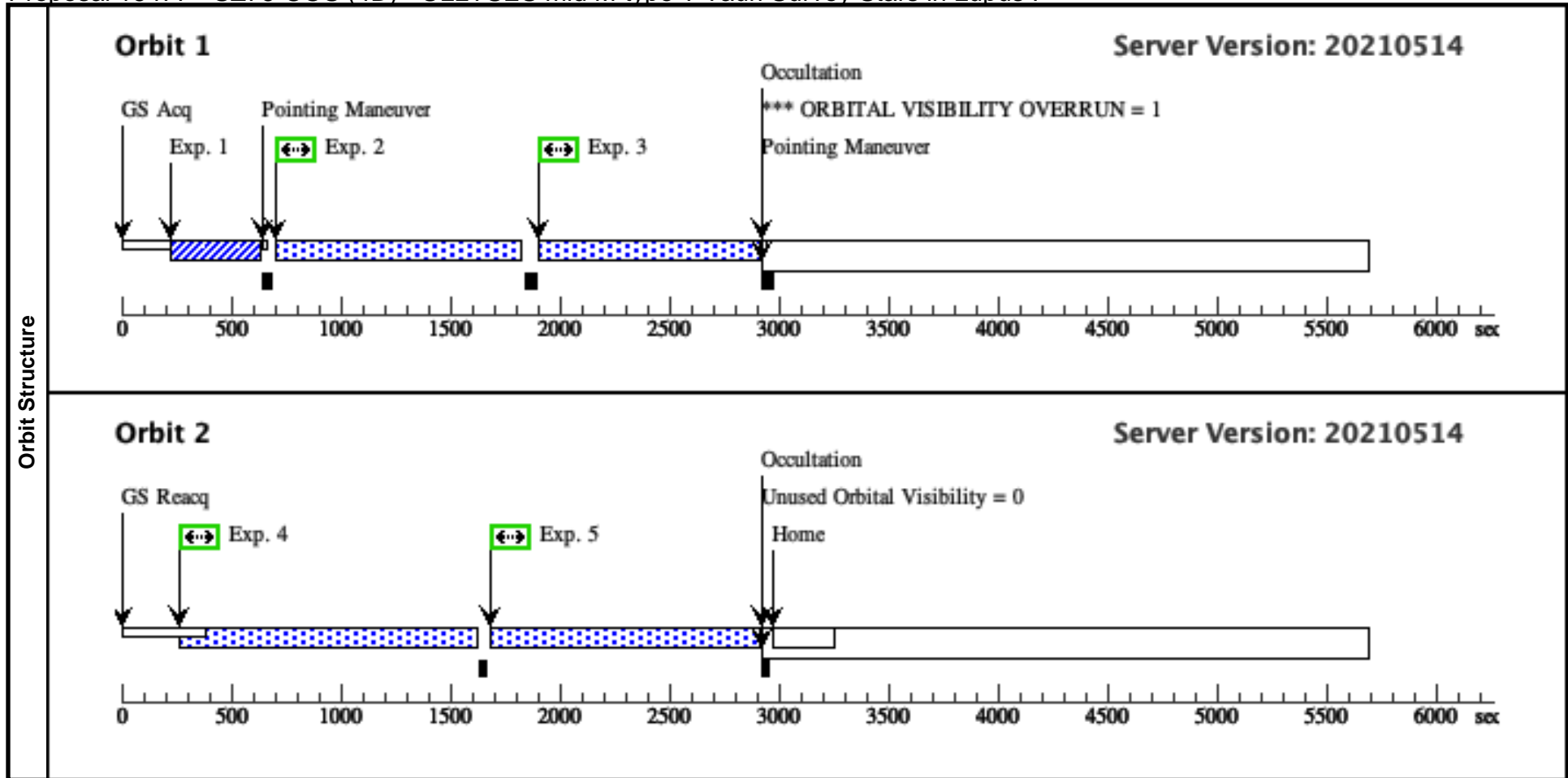
Proposal 16477 - SZ76-COS (4D) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

#	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.151 3095)	(6) SZ76-OFFSET	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				90 Secs (90 Secs)	
								[==>]	[1]
								<p><i>Comments: This offset acquisition target for SZ76 is ~21.4" away from SZ76. SIMBAD designation is RR Lyr variable. Peak-to-peak G-band variability is ~0.33 mag. GAIA G mag and 2MASS colors for this target are not consistent with M type.</i></p> <p><i>Anders+2019 (Starhorse catalog) reports Av=1.82, (E(B-V)=0.5882), Teff=6808.8, logg=3.66, Fe/H=-0.22</i></p> <p><i>Interpolated photometry for target SpT K0V: Interpolated photometry for target SpT F2V: V = 16.33 from G = 16.25 with G - V = -0.08 B = 16.70 from V = 16.33 with B - V = 0.37 For S/N = 40 with PSA/MirrorA, ETC calculation using Castelli-Kurucz Model F2V 7000 4.0, normalized to Johnson B = 16.7 Vegamag with E(B-V) = 0.59: COS.ta.1513095, B.P = 2.665</i></p> <p><i>Interpolated photometry for O3V scenario (screening): V = 16.36 from G = 16.25 with G - V = -0.10 B = 16.80 from V = 16.36 with B - V = 0.44 ETC calculation using Castelli-Kurucz Model O3V 45000 4.5, normalized to Johnson B = 16.8 Vegamag with E(B-V) = 0.59: COS.ta.1513098, B.P = 49.975 BOT warning assuming O5V star with V = 16.61 and B-V=0.65 but likely without the extinction</i></p>	
2	G130M/129 1-3 (COS.sp.151 3120)	(4) SZ76	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=27 67; FP-POS=3			954 Secs (954 Secs)	
								[==>]	[1]
								<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1513120, B.P=0.095 Baseline SED (scaled with additional A_V=0.50) calculation for G130M/c1291: COS.sp.1513119, B.P=0.095. Total S/N achieved in 4 x G130M exposures ~14/resel @1239A</i></p> <p><i>sz76_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M4 ; A_V: 0.2 ; Distance (pc): 150</i> <i>M*: 0.23 ; log(dm/dt): -9.26</i> <i>For exptime=1217.6 s, spectral region: 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): 342.6 cts/s/segment</i> <i>brightest pixel: 0.021 cts/s/pix at 1304.8 A</i> <i>Calculation performed 2021-02-12T16:28:42, v0.21</i></p>	
3	G130M/129 1-4 (COS.sp.151 3120)	(4) SZ76	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=27 67; FP-POS=4			954 Secs (954 Secs)	
								[==>]	[1]
								<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1513120, B.P=0.095 Baseline SED (scaled with additional A_V=0.50) calculation for G130M/c1291: COS.sp.1513119, B.P=0.095. Total S/N achieved in 4 x G130M exposures ~14/resel @1239A</i></p> <p><i>sz76_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M4 ; A_V: 0.2 ; Distance (pc): 150</i> <i>M*: 0.23 ; log(dm/dt): -9.26</i> <i>For exptime=1217.6 s, spectral region: 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): 342.6 cts/s/segment</i> <i>brightest pixel: 0.021 cts/s/pix at 1304.8 A</i> <i>Calculation performed 2021-02-12T16:28:42, v0.21</i></p>	

Exposures

Proposal 16477 - SZ76-COS (4D) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

4	G160M/162 (4) SZ76 3-1 (COS.sp.148 3157)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=84 04; FP-POS=1	1177 Secs (1177 Secs) [==>]	[2]
<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1483157, B.P=0.078</i> <i>Baseline SED (scaled with additional A_V=0.50) calculation for G160M/c1623: COS.sp.1483158, B.P=0.005. Total S/N achieved in 4 x G160M exposures ~22/resel @1548.5A</i></p> <p><i>sz76_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1623,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M4 ; A_V: 0.2 ; Distance (pc): 150</i> <i>M*: 0.23 ; log(dm/dt): -9.26</i> <i>For exptime=1428.3 s, spectral region:</i> <i>1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623</i> <i>The exptime for this c1623 exposure has been halved because c1589 & c1623 target the same line.</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 89.7 cts/s/segment</i> <i>brightest pixel: 0.005 cts/s/pix at 1446.2 A</i> <i>Calculation performed 2021-02-12T16:28:39, v0.21</i></p>						
5	G160M/162 (4) SZ76 3-2 (COS.sp.148 3157)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=84 04; FP-POS=2	1177 Secs (1177 Secs) [==>]	[2]
<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1483157, B.P=0.078</i> <i>Baseline SED (scaled with additional A_V=0.50) calculation for G160M/c1623: COS.sp.1483158, B.P=0.005. Total S/N achieved in 4 x G160M exposures ~22/resel @1548.5A</i></p> <p><i>sz76_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1623,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M4 ; A_V: 0.2 ; Distance (pc): 150</i> <i>M*: 0.23 ; log(dm/dt): -9.26</i> <i>For exptime=1428.3 s, spectral region:</i> <i>1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623</i> <i>The exptime for this c1623 exposure has been halved because c1589 & c1623 target the same line.</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 89.7 cts/s/segment</i> <i>brightest pixel: 0.005 cts/s/pix at 1446.2 A</i> <i>Calculation performed 2021-02-12T16:28:39, v0.21</i></p>						



Proposal 16477 - SZ76-COS (DD) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

Tue Aug 03 18:01:08 GMT 2021

Visit	<p>Proposal 16477, SZ76-COS (DD), scheduled</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 12-MAY-2021:19:40 AND 01-SEP-2021:00:00</p> <p><i>Comments: vstatus; DD; SZ76; P/COS approved for submission; P/DS 12/03/21 ; intrev: complete ; P/CP 18/03/21 vcheck; Enter targ name & Inst. & Resp. Sci.; SZ76 ; COS ; DS vcheck; ETC numbers entered in APT?; Yes vcheck; Any screening violations?; No vcheck; M-dwarf check complete and added to box folder?; Yes ... located at: box/ullyses_tech/ullyses_proposals/survey/revise-mstar-bop.xls vcheck; S/N ETC calcs done & documented?; Yes vcheck; Field images checked & saved?; Yes ... located at: box/ullyses_tech/ullyses_proposals/survey/16477/images/sz76/ vcheck; Selected ACQ strategy?; Yes ... This offset acquisition target for SZ76 is ~21.4" away from SZ69 and GAIA G mag and colors for this target is consistent with a reddened F2V star. SIMBAD type is RR Lyr and the G-band peak-to-peak variability is ~0.33 mag. 2MASS color not consistent with M Anders+2019 reports Av=1.82, (E(B-V)=0.5882), Teff=6808.8, logg=3.66, Fe/H=-0.22 V = 16.33 from G = 16.25 with G - V = -0.080; B = 16.7 from V = 16.33 with B - V = 0.37 For O3V scenario (screening): V = 16.4 from G = 16.25 with G - V = -0.11; B = 16.8 from V = 16.4 with B - V = 0.44 - Counttrate equals max allowable. BOT warning with assumption of O5V with V = 16.6 but likely without extinction vcheck; Possible ACQ or Sci spoilers?; No 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; Yes ... STIS visit has GROUP 4S,4C,4D WITHIN 1D vcheck; phase constraint for ground based observations added?; N.A vcheck; BETWEENS for coordinated observations added?; Yes ... 29 APR 2021 09:00 to 11 May 2021 17:15 and 12 May 2021 19:40 - 25 May 2021 22:30 vcheck; Is visit ready for int. review?; Yes Allocated COS orbits = 4 Repeat of 4D under HOPR 92006</i></p>
Diagnostics	<p>(SZ76-COS (DD)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>

Proposal 16477 - SZ76-COS (DD) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	
Fixed Targets	(4)	SZ76 Alt Name1: J15493074-3549514	RA: 15 49 30.7192 (237.3779967d) Dec: -35 49 51.78 (-35.83105d) Equinox: J2000	Proper Motion RA: -12.76686764 mas/yr Proper Motion Dec: -23.36982347 mas/yr Parallax: 0.006268147727000001" Epoch of Position: 2015.5	V=15.18 SpT=M4; A_V=0.20; U=15.7; B=16.44; V=15.2; R=13.8; J=11.0	Reference Frame: ICRS
	<p>Comments: Sz76 : J15493074-3549514 Region: Lupus I Simbad: https://simbad.u-strasbg.fr/simbad/sim-id?Ident=2MASS+J15493074-3549514&submit=submit+id Target coordinates are from Gaia DR2. Spectral type: M4 ; A_V: 0.2 ; Distance (pc): 150 M*: 0.23 ; log(dm/dt): -9.26 Input file: spring-survey-todo-crp04feb21.csv sz76_lya2_etc_scaled_pAV0.50.txt Calculation performed 2021-02-12T16:28:42, v0.6</p> <hr/> <p>tstatus: SZ76; P/COS approved for submission; S/STISapproved for submission; P/DS 02/03/21; S/DS 02/03/21 tcheck; APT/SIMBAD target names: ; SZ76 ... Default SIMBAD name is SZ 76, aka 2MASS J15493074-3549514, Gaia DR2 6011500389453302272 tcheck; Target info verification status?; OK ... Flam(B) = 1.47e-15 at 4440 Angstroms and Flam(V) = 3.27e-15 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD. R = 13.8 from NOMAD tcheck; Coordinates & P.M. verified, epoch checked?; Yes tcheck; Adopted SED compared to Observations?; Yes Category=STAR Description=[T TAURI STAR, PRE-MAIN SEQUENCE STAR] Extended=NO</p>					
	(6)	SZ76-OFFSET Alt Name1: GAIA-DR2-6011500217654606208	RA: 15 49 32.2400 (237.3843333d) Dec: -35 50 2.64 (-35.83407d) Equinox: J2000	Proper Motion RA: -2.406511078089502 mas/yr Proper Motion Dec: -0.9232954790095951 mas/yr Parallax: 1.4054081756989434E-04" Epoch of Position: 2015.5	V=16.3 SpT = F2V; A_v = 1.8, G = 16.3; Bp - Rp = 0.49; B = 16.7; V = 16.3	Reference Frame: ICRS
	<p>Comments: COS offset target acq star for SZ76 ~21.4" away from SZ76 Colors not-consistent with M star; SIMBAD type RR Lyr variable with peak-to-peak G band variability ~0.33 mag</p> <p>Anders+2019 reports Av=1.82, (E(B-V)=0.5882), Teff=6808.8, logg=3.66, Fe/H=-0.22 Interpolated photometry for target SpT F2V: V = 16.33 from G = 16.25 with G - V = -0.08 B = 16.70 from V = 16.33 with B - V = 0.37</p> <p>Interpolated photometry for O3V scenario (screening): V = 16.36 from G = 16.25 with G - V = -0.10 B = 16.80 from V = 16.36 with B - V = 0.44 Category=STAR Description=[RR LYRAE STAR] Extended=NO</p>					

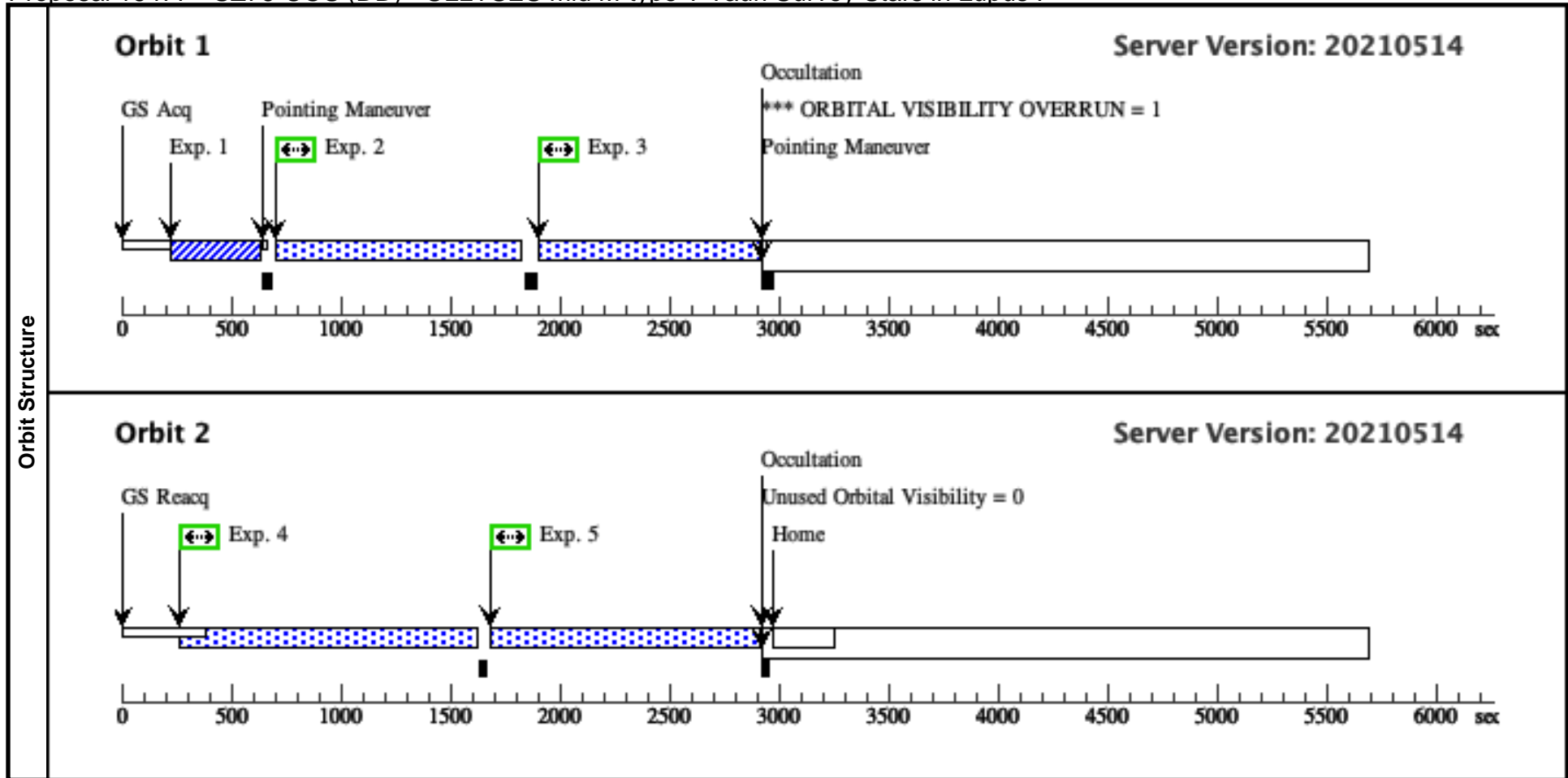
Proposal 16477 - SZ76-COS (DD) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

#	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.151 3095)	(6) SZ76-OFFSET	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				90 Secs (90 Secs)	
								[==>]	[1]
								<p><i>Comments: This offset acquisition target for SZ76 is ~21.4" away from SZ76. SIMBAD designation is RR Lyr variable. Peak-to-peak G-band variability is ~0.33 mag. GAIA G mag and 2MASS colors for this target are not consistent with M type.</i></p> <p><i>Anders+2019 (Starhorse catalog) reports Av=1.82, (E(B-V)=0.5882), Teff=6808.8, logg=3.66, Fe/H=-0.22</i></p> <p><i>Interpolated photometry for target SpT K0V: Interpolated photometry for target SpT F2V: V = 16.33 from G = 16.25 with G - V = -0.08 B = 16.70 from V = 16.33 with B - V = 0.37 For S/N = 40 with PSA/MirrorA, ETC calculation using Castelli-Kurucz Model F2V 7000 4.0, normalized to Johnson B = 16.7 Vegamag with E(B-V) = 0.59: COS.ta.1513095, B.P = 2.665</i></p> <p><i>Interpolated photometry for O3V scenario (screening): V = 16.36 from G = 16.25 with G - V = -0.10 B = 16.80 from V = 16.36 with B - V = 0.44 ETC calculation using Castelli-Kurucz Model O3V 45000 4.5, normalized to Johnson B = 16.8 Vegamag with E(B-V) = 0.59: COS.ta.1513098, B.P = 49.975 BOT warning assuming O5V star with V = 16.61 and B-V=0.65 but likely without the extinction</i></p>	
2	G130M/129 1-3 (COS.sp.151 3120)	(4) SZ76	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=27 67; FP-POS=3			954 Secs (954 Secs)	
								[==>]	[1]
								<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1513120, B.P=0.095 Baseline SED (scaled with additional A_V=0.50) calculation for G130M/c1291: COS.sp.1513119, B.P=0.095. Total S/N achieved in 4 x G130M exposures ~14/resel @1239A</i></p> <p><i>sz76_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M4 ; A_V: 0.2 ; Distance (pc): 150</i> <i>M*: 0.23 ; log(dm/dt): -9.26</i> <i>For exptime=1217.6 s, spectral region: 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): 342.6 cts/s/segment</i> <i>brightest pixel: 0.021 cts/s/pix at 1304.8 A</i> <i>Calculation performed 2021-02-12T16:28:42, v0.21</i></p>	
3	G130M/129 1-4 (COS.sp.151 3120)	(4) SZ76	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=27 67; FP-POS=4			954 Secs (954 Secs)	
								[==>]	[1]
								<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1513120, B.P=0.095 Baseline SED (scaled with additional A_V=0.50) calculation for G130M/c1291: COS.sp.1513119, B.P=0.095. Total S/N achieved in 4 x G130M exposures ~14/resel @1239A</i></p> <p><i>sz76_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M4 ; A_V: 0.2 ; Distance (pc): 150</i> <i>M*: 0.23 ; log(dm/dt): -9.26</i> <i>For exptime=1217.6 s, spectral region: 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): 342.6 cts/s/segment</i> <i>brightest pixel: 0.021 cts/s/pix at 1304.8 A</i> <i>Calculation performed 2021-02-12T16:28:42, v0.21</i></p>	

Exposures

Proposal 16477 - SZ76-COS (DD) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

4	G160M/162 (4) SZ76 3-1 (COS.sp.148 3157)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=84 04; FP-POS=1	1177 Secs (1177 Secs)	[2]
<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1483157, B.P=0.078</i> <i>Baseline SED (scaled with additional A_V=0.50) calculation for G160M/c1623: COS.sp.1483158, B.P=0.005. Total S/N achieved in 4 x G160M exposures ~22/resel @1548.5A</i></p> <p><i>sz76_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1623,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M4 ; A_V: 0.2 ; Distance (pc): 150</i> <i>M*: 0.23 ; log(dm/dt): -9.26</i> <i>For exptime=1428.3 s, spectral region:</i> <i>1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623</i> <i>The exptime for this c1623 exposure has been halved because c1589 & c1623 target the same line.</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 89.7 cts/s/segment</i> <i>brightest pixel: 0.005 cts/s/pix at 1446.2 A</i> <i>Calculation performed 2021-02-12T16:28:39, v0.21</i></p>						
5	G160M/162 (4) SZ76 3-2 (COS.sp.148 3157)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=84 04; FP-POS=2	1177 Secs (1177 Secs)	[2]
<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): COS.sp.1483157, B.P=0.078</i> <i>Baseline SED (scaled with additional A_V=0.50) calculation for G160M/c1623: COS.sp.1483158, B.P=0.005. Total S/N achieved in 4 x G160M exposures ~22/resel @1548.5A</i></p> <p><i>sz76_lya2_etc_scaled_pAV0.50.txt; cos.fuv,g160m,c1623,psa,mjd#59305; fp-pos=None, segment=None)</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M4 ; A_V: 0.2 ; Distance (pc): 150</i> <i>M*: 0.23 ; log(dm/dt): -9.26</i> <i>For exptime=1428.3 s, spectral region:</i> <i>1549.0 +- 1.0 A achieves SNR=20.0 / 6-pix-resel for combined c1589 & c1623</i> <i>The exptime for this c1623 exposure has been halved because c1589 & c1623 target the same line.</i> <i>A factor of 2.0 has been applied to the exptime in each exposure.</i> <i>global countrate (brightest segment): 89.7 cts/s/segment</i> <i>brightest pixel: 0.005 cts/s/pix at 1446.2 A</i> <i>Calculation performed 2021-02-12T16:28:39, v0.21</i></p>						



Proposal 16477 - SZ76-STIS (4S) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

Tue Aug 03 18:01:08 GMT 2021

Proposal 16477, SZ76-STIS (4S), failed
Diagnostic Status: No Diagnostics
 Scientific Instruments: STIS/NUV-MAMA, STIS/CCD
 Special Requirements: SCHED 100%; BETWEEN 29-APR-2021:09:00 AND 11-MAY-2021:18:50; BETWEEN 12-MAY-2021:19:40 AND 26-MAY-2021:00:05; GROUP 4S,4C,4D WITHIN 1D
Comments: vstatus; 4S; SZ76; P/STIS approved for submission; P/DS 12/03/21 ; intrev: complete ; P/CP 18/03/21
vcheck; Enter targ name & Inst. & Resp. Sci.; SZ76 ; STIS ; DS
vcheck; ETC numbers entered in APT?; Yes
vcheck; Any screening violations?; No
vcheck; M-dwarf check complete and added to box folder?; Yes ...
located at: box/ullyses_tech/ullyses_proposals/survey/revise-mstar-bop.xls
vcheck; S/N ETC calcs done & documented?; Yes
vcheck; Field images checked & saved?; Yes
vcheck; Selected ACQ strategy?; Yes ...
S/N = 80 using R mag with F28X50LP
vcheck; Possible ACQ or Sci spoilers?; No
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; Yes ...
STIS visit has GROUP 4S,4C,4D WITHIN 1D
vcheck; phase constraint for ground based observations added?; N/A
vcheck; BETWEENS for coordinated observations added?; Yes ...
29 APR 2021 09:00 to 11 May 2021 18:50 and 12 May 2021 19:40 - 26 May 2021 00:05
vcheck; Is visit ready for int. review?; Yes
 Allocated STIS orbits = 1

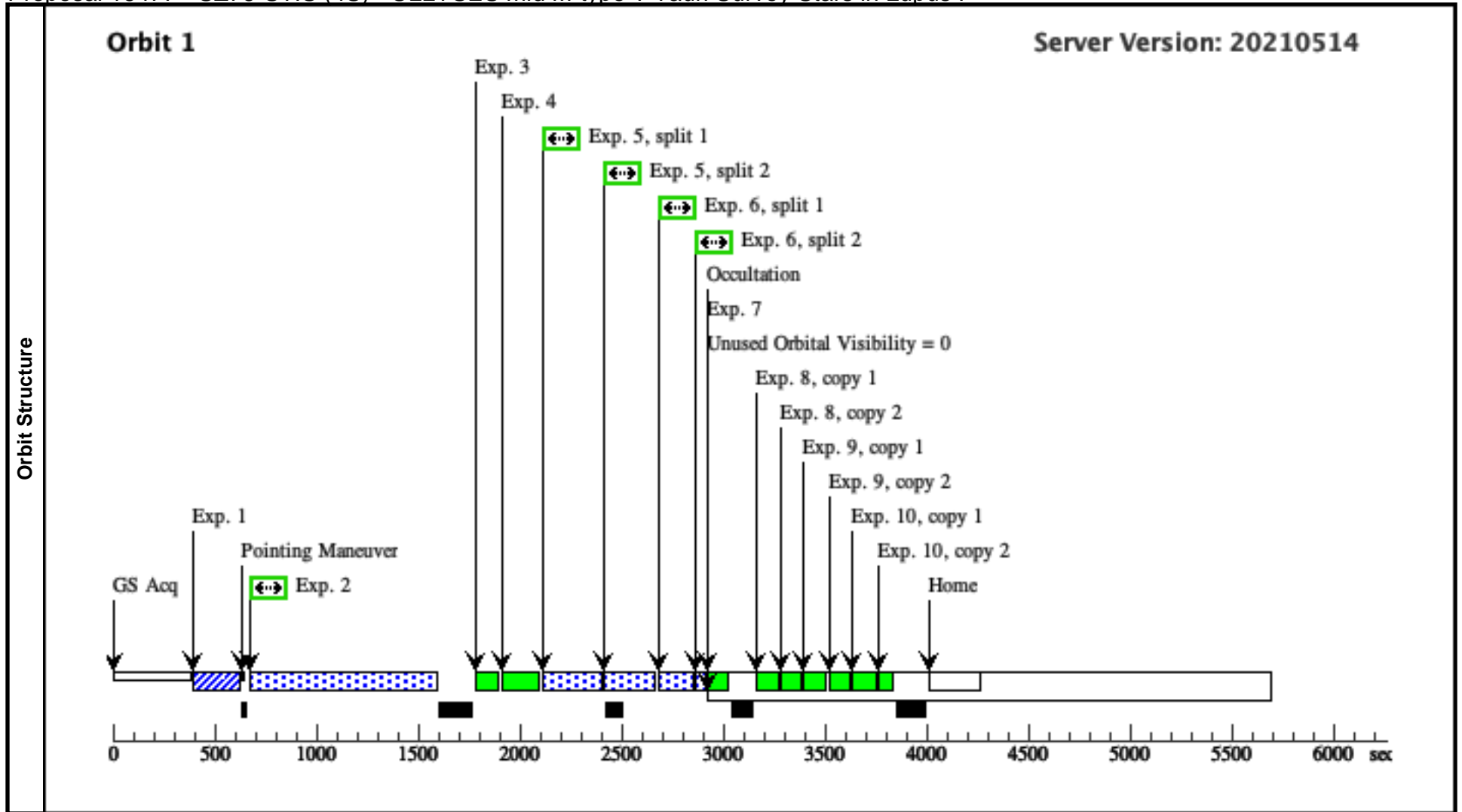
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	SZ76	RA: 15 49 30.7192 (237.3779967d)	Proper Motion RA: -12.76686764 mas/yr	V=15.18	Reference Frame: ICRS
	Alt Name1: J15493074-3549514	Dec: -35 49 51.78 (-35.83105d) Equinox: J2000	Proper Motion Dec: -23.36982347 mas/yr Parallax: 0.006268147727000001" Epoch of Position: 2015.5	SpT=M4; A_V=0.20; U=15.7; B=16.44; V=15.2; R=13.8; J=11.0	
<p><i>Comments: Sz76 : J15493074-3549514</i> Region: Lupus I Simbad: https://simbad.u-strasbg.fr/simbad/sim-id?Ident=2MASS+J15493074-3549514&submit=submit+id Target coordinates are from Gaia DR2. Spectral type: M4 ; A_V: 0.2 ; Distance (pc): 150 M*: 0.23 ; log(dm/dt): -9.26 Input file: spring-survey-todo-crp04feb21.csv sz76_lya2_etc_scaled_pAV0.50.txt Calculation performed 2021-02-12T16:28:42, v0.6</p> <hr/> <p><i>tstatus; SZ76; P/COS approved for submission; S/STIS approved for submission; P/DS 02/03/21; S/DS 02/03/21</i> <i>tcheck; APT/SIMBAD target names: ; SZ76 ...</i> Default SIMBAD name is SZ 76, aka 2MASS J15493074-3549514, Gaia DR2 6011500389453302272 <i>tcheck; Target info verification status?; OK ...</i> Flam(B) = 1.47e-15 at 4440 Angstroms and Flam(V) = 3.27e-15 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD. R = 13.8 from NOMAD <i>tcheck; Coordinates & P.M. verified, epoch checked?; Yes</i> <i>tcheck; Adopted SED compared to Observations?; Yes</i> Category=STAR Description=[T TAURI STAR, PRE-MAIN SEQUENCE STAR] Extended=NO</p>					

Proposal 16477 - SZ76-STIS (4S) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	ACQ (4) SZ76 (STIS.ta.148 2696)	STIS/CCD, ACQ, F28X50LP	MIRROR				0.5 Secs (0.5 Secs) [==>]	[1]
	<p><i>Comments: Calculation with baseline SED (scaled with additional A_V=0.50), normalized to R=13.8 vegamag, for STIS/CCD/F28X50LP with S/N=80: STIS.ta.1482696</i> <i>BOP calculation with 4X baseline SED (without additional A_V=0.50), normalized to R=12.3 vegamag: STIS.ta.1482699</i></p>								
	2	G230L/2376 (4) SZ76 (STIS.sp.14 82711)	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	WAVECAL=NO; BUFFER-TIME=64 2			763.8 Secs (763.8 Secs) [==>]	[1]
	<p><i>Comments: BOP calculation with 4X SED (without additional A_V=0.50): STIS.sp.1482711, B.P=7.507</i> <i>Baseline SED (scaled with additional A_V=0.50) calculation for G230L: STIS.sp.1482710, B.P=0.775</i></p> <p><i>sz76_lya2_etc_scaled_pAV0.50.txt; stis,nuvmama,g230l,c2376,52x2,mjd#5930</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M4 ; A_V: 0.2 ; Distance (pc): 150</i> <i>M*: 0.23 ; log(dm/dt): -9.26</i> <i>For exptime=105.4 s, spectral region:</i> <i>2800.0 +- 15.0 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): 2393.0 cts/s/segment</i> <i>brightest pixel: 0.778 cts/s/pix at 2796.8 A</i> <i>Calculation performed 2021-02-12T16:28:42, v0.21</i></p>								
	3	G230L/2376 WAVE WAVECAL	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				[==>]	[1]
4	G430L/4300 WAVE WAVECAL	STIS/CCD, ACCUM, 52X0.1	G430L 4300 A				[==>]	[1]	
5	G430L/4300 (4) SZ76 (STIS.sp.14 82702)	STIS/CCD, ACCUM, 52X2	G430L 4300 A	WAVECAL=NO; CR-SPLIT=2; GAIN=4			432 Secs (432 Secs) [==>(Split 1)] [==>(Split 2)]	[1]	
<p><i>Comments: Calculation with baseline SED (scaled with additional A_V=0.50), normalized to Flam(B)=1.47e-15 ergs/s/cm^2/Ang, for G430L: STIS.sp.1482702, B.P=6.145</i> <i>BOP calculation with 4X SED (without additional A_V=0.50) no normalization: STIS.sp.1482703, B.P=202.7</i></p> <p><i>sz76_lya2_etc_scaled_pAV0.50.txt; stis,ccd,g430l,c4300,52x2,mjd#59305</i> <i>WARNING: operating mode = ACCUM</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M4 ; A_V: 0.2 ; Distance (pc): 150</i> <i>M*: 0.23 ; log(dm/dt): -9.26</i> <i>For exptime=40.3 s, n_reads=2, spectral region:</i> <i>4000.0 +- 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): 45183.4 cts/s/segment</i> <i>brightest pixel: 25.818 cts/s/pix at 4560.5 A</i> <i>Calculation performed 2021-02-12T16:28:42, v0.21</i></p>									

Proposal 16477 - SZ76-STIS (4S) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

6	G750L/7751 (4) SZ76 (STIS.sp.14 82706)	STIS/CCD, ACCUM, 52X2	G750L 7751 A	WAVECAL=NO; CR-SPLIT=2; GAIN=1	32 Secs (32 Secs)	
					[==>(Split 1)]	[1]
					[==>(Split 2)]	
<p><i>Comments: Calculation with baseline SED (scaled with additional A_V=0.50), normalized to Flam(V)=3.27e-15 ergs/s/cm^2/Ang, for G750L: STIS.sp.1482706, B.P=50.094</i> <i>BOP calculation with 4X SED (without additional A_V=0.50) and no normalization: STIS.sp.1482707, B.P=1402.9</i></p> <p><i>sz76_lya2_etc_scaled_pAV0.50.txt; stis.ccd,g750l,c7751,52x2,mjd#59305</i> <i>WARNING: operating mode = ACCUM</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M4 ; A_V: 0.2 ; Distance (pc): 150</i> <i>M*: 0.23 ; log(dm/dt): -9.26</i> <i>For exptime=3.7 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): 104679.0 cts/s/segment</i> <i>brightest pixel: 207.490 cts/s/pix at 6563.9 A</i> <i>Calculation performed 2021-02-12T16:28:42, v0.21</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]



Proposal 16477 - SZ76-STIS (DS) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

Tue Aug 03 18:01:08 GMT 2021

Proposal 16477, SZ76-STIS (DS), scheduled
Diagnostic Status: No Diagnostics
 Scientific Instruments: STIS/NUV-MAMA, STIS/CCD
 Special Requirements: SCHED 100%; BETWEEN 12-MAY-2021:19:40 AND 01-SEP-2021:00:00; GROUP DS,DC,DD WITHIN 1D
Comments: vstatus; DS; SZ76; P/STIS approved for submission; P/DS 12/03/21 ; intrev: complete ; P/CP 18/03/21
vcheck; Enter targ name & Inst. & Resp. Sci.; SZ76 ; STIS ; DS
vcheck; ETC numbers entered in APT?; Yes
vcheck; Any screening violations?; No
vcheck; M-dwarf check complete and added to box folder?; Yes ...
located at: box/ullyses_tech/ullyses_proposals/survey/revise-mstar-bop.xls
vcheck; S/N ETC calcs done & documented?; Yes
vcheck; Field images checked & saved?; Yes
vcheck; Selected ACQ strategy?; Yes ...
S/N = 80 using R mag with F28X50LP
vcheck; Possible ACQ or Sci spoilers?; No
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; Yes ...
STIS visit has GROUP 4S,4C,4D WITHIN 1D
vcheck; phase constraint for ground based observations added?; N/A
vcheck; BETWEENS for coordinated observations added?; Yes ...
29 APR 2021 09:00 to 11 May 2021 18:50 and 12 May 2021 19:40 - 26 May 2021 00:05
vcheck; Is visit ready for int. review?; Yes
 Allocated STIS orbits = 1
 Repeat of 4S under HOPR 92006

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	SZ76	RA: 15 49 30.7192 (237.3779967d)	Proper Motion RA: -12.76686764 mas/yr	V=15.18	Reference Frame: ICRS
	Alt Name1: J15493074-3549514	Dec: -35 49 51.78 (-35.83105d) Equinox: J2000	Proper Motion Dec: -23.36982347 mas/yr Parallax: 0.006268147727000001" Epoch of Position: 2015.5	SpT=M4; A_V=0.20; U=15.7; B=16.44; V=15.2; R=13.8; J=11.0	
<p><i>Comments: Sz76 : J15493074-3549514</i> Region: Lupus I Simbad: https://simbad.u-strasbg.fr/simbad/sim-id?Ident=2MASS+J15493074-3549514&submit=submit+id Target coordinates are from Gaia DR2. Spectral type: M4 ; A_V: 0.2 ; Distance (pc): 150 M*: 0.23 ; log(dm/dt): -9.26 Input file: spring-survey-todo-crp04feb21.csv sz76_lya2_etc_scaled_pAV0.50.txt Calculation performed 2021-02-12T16:28:42, v0.6</p> <hr/> <p><i>tstatus: SZ76; P/COS approved for submission; S/STISapproved for submission; P/DS 02/03/21; S/DS 02/03/21</i> <i>tcheck; APT/SIMBAD target names: ; SZ76 ...</i> Default SIMBAD name is SZ 76, aka 2MASS J15493074-3549514, Gaia DR2 6011500389453302272 <i>tcheck; Target info verification status?; OK ...</i> <i>Flam(B) = 1.47e-15 at 4440 Angstroms and Flam(V) = 3.27e-15 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD. R = 13.8 from NOMAD</i> <i>tcheck; Coordinates & P.M. verified, epoch checked?; Yes</i> <i>tcheck; Adopted SED compared to Observations?; Yes</i> Category=STAR Description=[T TAURI STAR, PRE-MAIN SEQUENCE STAR] Extended=NO</p>					

Proposal 16477 - SZ76-STIS (DS) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	ACQ (4) SZ76 (STIS.ta.148 2696)	STIS/CCD, ACQ, F28X50LP	MIRROR				0.5 Secs (0.5 Secs) [==>]	[1]
	<p>Comments: Calculation with baseline SED (scaled with additional A_V=0.50), normalized to R=13.8 vegamag, for STIS/CCD/F28X50LP with S/N=80: STIS.ta.1482696 BOP calculation with 4X baseline SED (without additional A_V=0.50), normalized to R=12.3 vegamag: STIS.ta.1482699</p>								
	2	G230L/2376 (4) SZ76 (STIS.sp.14 82711)	STIS/NUV-MAMA, TIME-TAG, 52X2	G230L 2376 A	WAVECAL=NO; BUFFER-TIME=64 2			763.8 Secs (763.8 Secs) [==>]	[1]
	<p>Comments: BOP calculation with 4X SED (without additional A_V=0.50): STIS.sp.1482711, B.P=7.507 Baseline SED (scaled with additional A_V=0.50) calculation for G230L: STIS.sp.1482710, B.P=0.775</p> <p>sz76_lya2_etc_scaled_pAV0.50.txt; stis,nuvmama,g230l,c2376,52x2,mjd#5930 Input file: spring-survey-todo-crp04feb21.csv Spectral type: M4 ; A_V: 0.2 ; Distance (pc): 150 M*: 0.23 ; log(dm/dt): -9.26 For exptime=105.4 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): 2393.0 cts/s/segment brightest pixel: 0.778 cts/s/pix at 2796.8 A Calculation performed 2021-02-12T16:28:42, v0.21</p>								
	3	G230L/2376 WAVE WAVECAL	STIS/NUV-MAMA, ACCUM, 52X0.1	G230L 2376 A				[==>]	[1]
4	G430L/4300 WAVE WAVECAL	STIS/CCD, ACCUM, 52X0.1	G430L 4300 A				[==>]	[1]	
5	G430L/4300 (4) SZ76 (STIS.sp.14 82702)	STIS/CCD, ACCUM, 52X2	G430L 4300 A	WAVECAL=NO; CR-SPLIT=2; GAIN=4			432 Secs (432 Secs) [==>(Split 1)] [==>(Split 2)]	[1]	
<p>Comments: Calculation with baseline SED (scaled with additional A_V=0.50), normalized to Flam(B)=1.47e-15 ergs/s/cm^2/Ang, for G430L: STIS.sp.1482702, B.P=6.145 BOP calculation with 4X SED (without additional A_V=0.50) no normalization: STIS.sp.1482703, B.P=202.7</p> <p>sz76_lya2_etc_scaled_pAV0.50.txt; stis,ccd,g430l,c4300,52x2,mjd#59305 WARNING: operating mode = ACCUM Input file: spring-survey-todo-crp04feb21.csv Spectral type: M4 ; A_V: 0.2 ; Distance (pc): 150 M*: 0.23 ; log(dm/dt): -9.26 For exptime=40.3 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): 45183.4 cts/s/segment brightest pixel: 25.818 cts/s/pix at 4560.5 A Calculation performed 2021-02-12T16:28:42, v0.21</p>									

Proposal 16477 - SZ76-STIS (DS) - ULLYSES mid M-type T Tauri Survey Stars in Lupus I

6	G750L/7751 (4) SZ76 (STIS.sp.14 82706)	STIS/CCD, ACCUM, 52X2	G750L 7751 A	WAVECAL=NO; CR-SPLIT=2; GAIN=1	32 Secs (32 Secs)	
					[==>(Split 1)]	[1]
					[==>(Split 2)]	
<p><i>Comments: Calculation with baseline SED (scaled with additional A_V=0.50), normalized to Flam(V)=3.27e-15 ergs/s/cm^2/Ang, for G750L: STIS.sp.1482706, B.P=50.094</i> <i>BOP calculation with 4X SED (without additional A_V=0.50) and no normalization: STIS.sp.1482707, B.P=1402.9</i></p> <p><i>sz76_lya2_etc_scaled_pAV0.50.txt; stis.ccd,g750l,c7751,52x2,mjd#59305</i> <i>WARNING: operating mode = ACCUM</i> <i>Input file: spring-survey-todo-crp04feb21.csv</i> <i>Spectral type: M4 ; A_V: 0.2 ; Distance (pc): 150</i> <i>M*: 0.23 ; log(dm/dt): -9.26</i> <i>For exptime=3.7 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): 104679.0 cts/s/segment</i> <i>brightest pixel: 207.490 cts/s/pix at 6563.9 A</i> <i>Calculation performed 2021-02-12T16:28:42, v0.21</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]

