



16108 - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

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. TalaWanda R. Monroe (CoI) (Contact)	Space Telescope Science Institute	tmonroe@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. Charles R. Proffitt (CoI) (Contact)	Space Telescope Science Institute	proffitt@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	aloiisi@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) (Contact)	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) (Contact)	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

Proposal 16108 (STScI Edit Number: 1, Created: Tuesday, November 2, 2021 at 9:01:13 AM Eastern Standard Time) - Overview

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. Cristina Oliveira (CoI)	Space Telescope Science Institute	oliveira@stsci.edu
Rachel Plesha (CoI)	Space Telescope Science Institute	rplesha@stsci.edu
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
Brian York (CoI)	Space Telescope Science Institute	york@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) V-GM-AUR	COS/FUV COS/NUV	1	02-Nov-2021 10:00:49.0	yes
1D	(1) V-GM-AUR	COS/FUV COS/NUV	1	02-Nov-2021 10:00:50.0	yes
1E	(1) V-GM-AUR	COS/FUV COS/NUV	1	02-Nov-2021 10:00:52.0	yes
1F	(1) V-GM-AUR	COS/FUV COS/NUV	1	02-Nov-2021 10:00:53.0	yes
1G	(1) V-GM-AUR	COS/FUV COS/NUV	1	02-Nov-2021 10:00:55.0	yes
1H	(1) V-GM-AUR	COS/FUV COS/NUV	1	02-Nov-2021 10:00:56.0	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>
1I	(1) V-GM-AUR	COS/FUV COS/NUV	1	02-Nov-2021 10:00:57.0	yes
1J	(1) V-GM-AUR	COS/FUV COS/NUV	1	02-Nov-2021 10:00:59.0	yes
AJ	(1) V-GM-AUR	COS/FUV COS/NUV	1	02-Nov-2021 10:01:01.0	yes
1K	(1) V-GM-AUR	COS/FUV COS/NUV	1	02-Nov-2021 10:01:02.0	yes
AK	(1) V-GM-AUR	COS/FUV COS/NUV	1	02-Nov-2021 10:01:04.0	yes
1L	(1) V-GM-AUR	COS/FUV COS/NUV	1	02-Nov-2021 10:01:05.0	yes
AL	(1) V-GM-AUR	COS/FUV COS/NUV	1	02-Nov-2021 10:01:07.0	yes
1M	(1) V-GM-AUR	COS/FUV COS/NUV	1	02-Nov-2021 10:01:08.0	yes
AM	(1) V-GM-AUR	COS/FUV COS/NUV	1	02-Nov-2021 10:01:09.0	yes
1N	(1) V-GM-AUR	COS/FUV COS/NUV	1	02-Nov-2021 10:01:11.0	yes
AN	(1) V-GM-AUR	COS/FUV COS/NUV	1	02-Nov-2021 10:01:12.0	yes

17 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

Proposal 16108 (STScI Edit Number: 1, Created: Tuesday, November 2, 2021 at 9:01:13 AM Eastern Standard Time) - Overview stars. It will target ~165 OB stars in the Magellanic Clouds and lower metallicity galaxies in the Local Group, and ~67 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

Observations use COS NUV + FUV and all visits are single orbit with SCHED=100.

This target will be in the TESS field of view for Sectors 43 and 44. Furthermore, ground-based observers have requested that HST observations begin after October 1. For the purpose of coordinated observations, we set BETWEENs for all visits.

01 Oct 2021 00:00 - 11 Oct 2021 08:10

12 Oct 2021 17:00 - 24 Oct 2021 04:15

25 Oct 2021 17:20 - 05 Nov 2021 21:10

The rotation period of the target is 6.1 days = 92.2 orbits. We want to schedule 4 visits/period over three consecutive rotation periods, but we don't care about zero point shifts in the whole pattern. Ideal visit spacing would be 23.1 orbits. If we allow windows that are multiples of 23.1 +/- 4.1 orbits after visit 1 the required AFTER BY orbit values are as follows

Visit	2	3	4	5	6	7	8	9	10	11	12
Start	19.0	42.0	65.1	88.2	111.2	134.3	157.4	180.4	203.5	226.6	249.6
End	27.2	50.2	73.3	96.4	119.4	142.5	165.6	188.6	211.7	234.8	257.8

The windows could be widened a bit if needed to facilitate scheduling.

Proposal 16108 (STScI Edit Number: 1, Created: Tuesday, November 2, 2021 at 9:01:13 AM Eastern Standard Time) - Overview

If possible, we would like to schedule visits during the period from roughly 0h to 16h UT every day when the target will be visible from LCOGT telescopes. More precise windows can be provided, and these can be enforced manually instead of as rigid BETWEENs.

Proposal 16108 - V-GM-AUR-COS-1 (1C) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

Tue Nov 02 14:01:13 GMT 2021

Proposal 16108, V-GM-AUR-COS-1 (1C), completed

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%; BETWEEN 01-OCT-2021:00:00:00 AND 11-OCT-2021:08:10:00; BETWEEN 12-OCT-2021:17:00:00 AND 24-OCT-2021:04:15:00; BETWEEN 25-OCT-2021:17:20:00 AND 05-NOV-2021:21:10:00

Comments: vstatus; 1C; V-GM-AUR; P/COS approved for submission; P/AH 19/07/21 ; intrev: complete ; P/WF 19/07/21

vcheck; Enter targ name & Inst. & Resp. Sci.; GM Aur ; COS ; AH

vcheck; ETC numbers entered in APT?; Yes

vcheck; Any screening violations?; No

vcheck; M-dwarf check complete and added to box folder?; N/A

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

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

located at: box/ullyses_tech/ullyses_proposals/monitor/16018/images/

vcheck; Selected ACQ strategy?; Double ACQ/PeakXD+ACQ/PeakD, G230L, S/N = 40

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

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

vcheck; BETWEENS for coordinated observations added?; Yes ...

01 OCT 2021 00:00 to 11 OCT 2021 08:10 and 12 OCT 2021 17:00 to 24 OCT 2021 04:15 and 25 OCT 2021 17:20 to 05 NOV 2021 21:10

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

Allocated COS orbits = 12

Diagnosics

(V-GM-AUR-COS-1 (1C)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	V-GM-AUR Alt Name1: 2MASS-J04551098+3021595 Alt Name2: HBC-77	RA: 04 55 10.9860 (73.7957750d) Dec: +30 21 59.00 (30.36639d) Equinox: J2000	Proper Motion RA: 3.012635677084487E-4 sec of time/yr Proper Motion Dec: -0.02445099994474731 arcsec/yr Epoch of Position: 2015.5	V=12.242 SpT=K3, U=14.59, B=13.35, V=12.24, R=11.80, G=11.70, J=9.34, H=8.60, K=8.28	Reference Frame: ICRS

Fixed Targets

Comments: tstatus; V-GM-AUR ; P/COS approved for submission; S/ins not started; P/AH 19/07/21; S/xx DD/MM/YY

tcheck; APT/SIMBAD target names: ; V-GM-AUR ...

Default SIMBAD name is V GM Aur, aka 2MASS J04551098+3021595*

tcheck; Target info verification status?; OK ...

spectral type and magnitudes seem to be consistent

Flam(B) = 2.6e-10 at 4444 Angstroms and Flam(V) = 4.7e-10 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD

tcheck; Coordinates & P.M. verified, epoch checked?; OK ...

SIMBAD coordinates check out with what's here, SIMBAD PM values check out with what's here

tcheck; Adopted SED compared to Observations?; Yes ...

located at: box/ullyses_tech/ullyses_proposals/monitor/16018/seds/

Category=STAR

Description=[PRE-MAIN SEQUENCE STAR, T TAURI STAR]

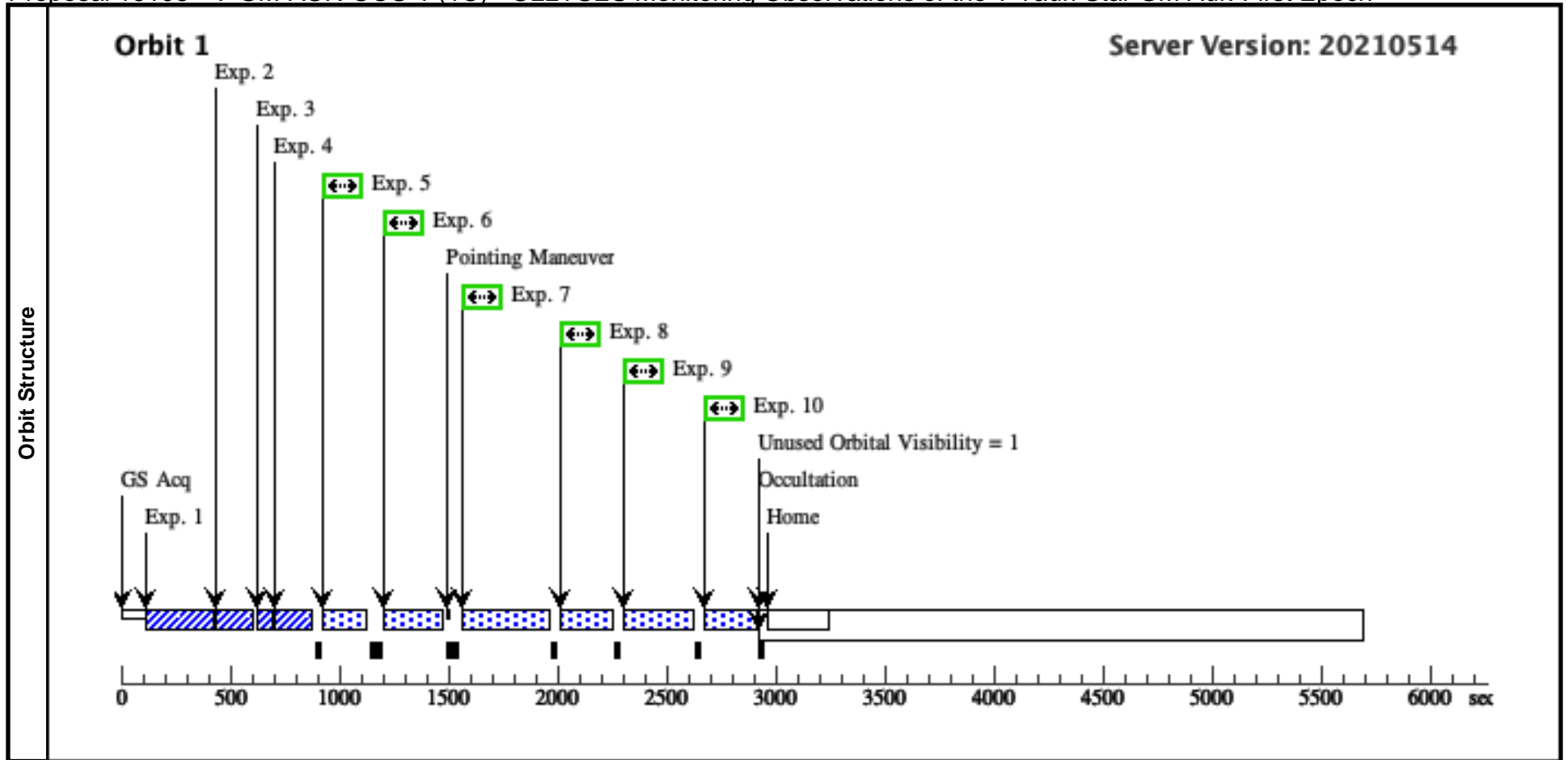
Extended=NO

Proposal 16108 - V-GM-AUR-COS-1 (1C) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF		5.8 Secs (5.8 Secs) [==>]	[1]	
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	2	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9			5.3 Secs (5.3 Secs) [==>]	[1]
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	3	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF			5.8 Secs (5.8 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
4	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9			5.3 Secs (5.3 Secs) [==>]	[1]	
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
5	G230L 2950 (COS.sp.152 2735)	(1) V-GM-AUR	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FP-POS=4; BUFFER-TIME=52 4			184 Secs (184 Secs) [==>]	[1]	
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522552). 362.4388 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 181.2194 seconds) to account for the other G230L cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522735) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522691) in order to determine bright object safety. Peak local rate of 5.943 counts per second and global rate of 2997.808, so it is safe. Buffer fill time = 786 seconds, and 2/3 of this is 524 seconds.</i></p>										

Proposal 16108 - V-GM-AUR-COS-1 (1C) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

6	G230L 2635 (1) V-GM-AUR (COS.sp.152 2737)	COS/NUV, TIME-TAG, PSA	G230L 2635 A	FP-POS=1; BUFFER-TIME=44 8	184 Secs (184 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522553). 364.1707 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 182.08535 seconds) to account for the other G230L cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522737) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522690) in order to determine bright object safety. Peak local rate of 5.927 counts per second and global rate of 2199.263, so it is safe. Buffer fill time = 672 seconds, and 2/3 of this is 448 seconds.</p>						
7	G160M 158 (1) V-GM-AUR 9-3 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=3; BUFFER-TIME=28 65	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</p>						
8	G160M 158 (1) V-GM-AUR 9-4 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=4; BUFFER-TIME=28 65	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</p>						
9	G160M 162 (1) V-GM-AUR 3-1 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; BUFFER-TIME=31 54	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</p>						
10	G160M 162 (1) V-GM-AUR 3-2 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=2; BUFFER-TIME=31 54	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</p>						



Proposal 16108 - V-GM-AUR-COS-2 (1D) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

Tue Nov 02 14:01:13 GMT 2021

Proposal 16108, V-GM-AUR-COS-2 (1D), completed

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%; AFTER 1C BY 19.0 Orbits TO 27.2 Orbits; BETWEEN 01-OCT-2021:00:00:00 AND 11-OCT-2021:08:10:00; BETWEEN 12-OCT-2021:17:00:00 AND 24-OCT-2021:04:15:00; BETWEEN 25-OCT-2021:17:20:00 AND 05-NOV-2021:21:10:00

Comments: vstatus; 1D: V-GM-AUR; P/COS approved for submission; P/AH 19/07/21 ; intrev: complete ; P/WF 19/07/21

vcheck; Enter targ name & Inst. & Resp. Sci.; GM Aur ; COS ; AH

vcheck; ETC numbers entered in APT?; Yes

vcheck; Any screening violations?; No

vcheck; M-dwarf check complete and added to box folder?; N/A

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

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

located at: box/ullyses_tech/ullyses_proposals/monitor/16018/images/

vcheck; Selected ACQ strategy?; Double ACQ/PeakXD+ACQ/PeakD, G230L, S/N = 40

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

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

vcheck; BETWEENS for coordinated observations added?; Yes ...

01 OCT 2021 00:00 to 11 OCT 2021 08:10 and 12 OCT 2021 17:00 to 24 OCT 2021 04:15 and 25 OCT 2021 17:20 to 05 NOV 2021 21:10

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

Allocated COS orbits = 12

Diagnosics (V-GM-AUR-COS-2 (1D)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

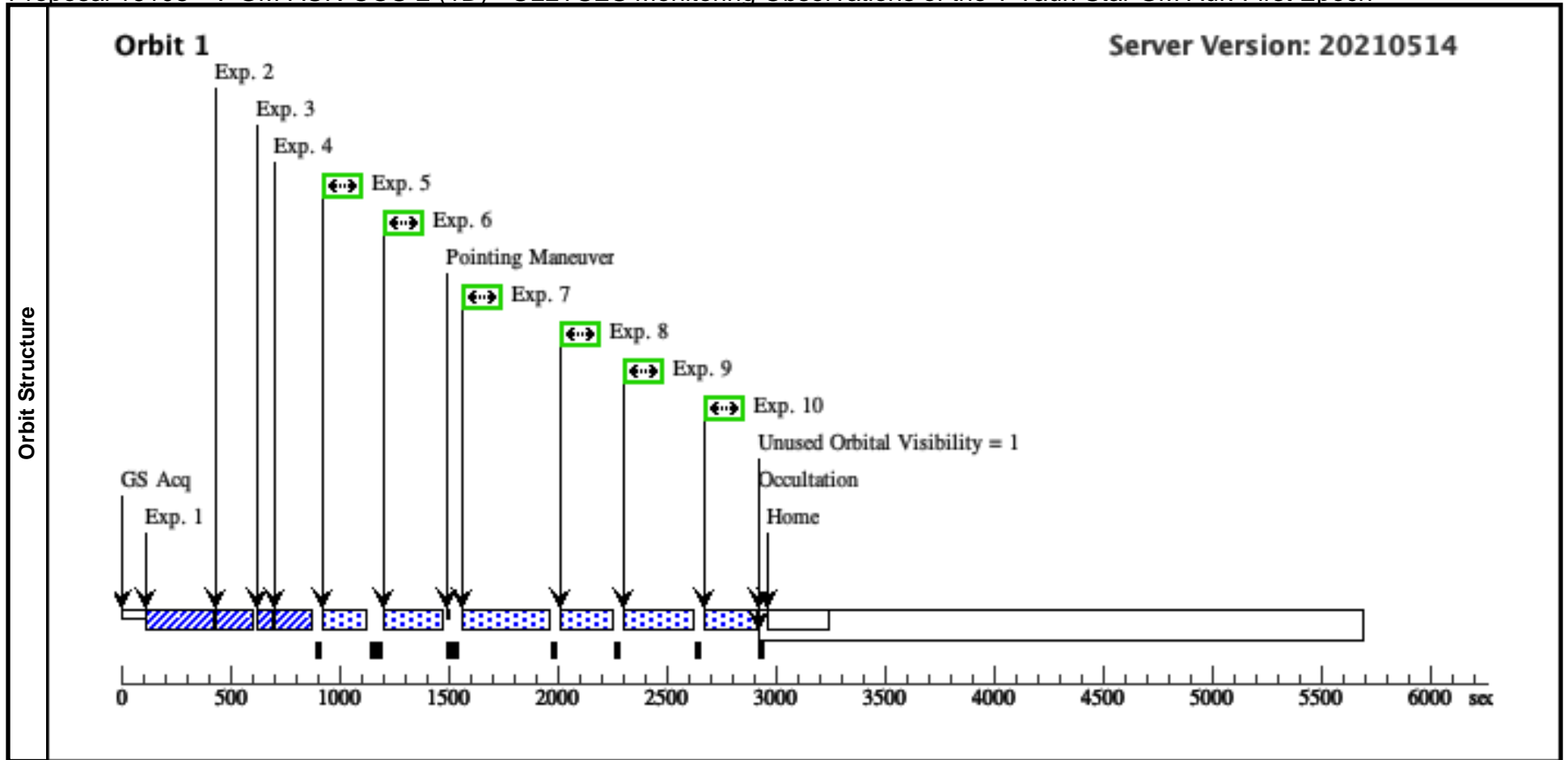
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	V-GM-AUR Alt Name1: 2MASS-J04551098+3021595 Alt Name2: HBC-77	RA: 04 55 10.9860 (73.7957750d) Dec: +30 21 59.00 (30.36639d) Equinox: J2000	Proper Motion RA: 3.012635677084487E-4 sec of time/yr Proper Motion Dec: -0.02445099994474731 arcsec/yr Epoch of Position: 2015.5	V=12.242 SpT=K3, U=14.59, B=13.35, V=12.24, R=11.80, G=11.70, J=9.34, H=8.60, K=8.28	Reference Frame: ICRS
<p><i>Comments: tstatus; V-GM-AUR ; P/COS approved for submission; S/ins not started; P/AH 19/07/21; S/xx DD/MM/YY</i></p> <p><i>tcheck; APT/SIMBAD target names: ; V-GM-AUR ...</i></p> <p><i>Default SIMBAD name is V* GM Aur, aka 2MASS J04551098+3021595</i></p> <p><i>tcheck; Target info verification status?; OK ...</i></p> <p><i>spectral type and magnitudes seem to be consistent</i></p> <p><i>Flam(B) = 2.6e-10 at 4444 Angstroms and Flam(V) = 4.7e-10 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD</i></p> <p><i>tcheck; Coordinates & P.M. verified, epoch checked?; OK ...</i></p> <p><i>SIMBAD coordinates check out with what's here, SIMBAD PM values check out with what's here</i></p> <p><i>tcheck; Adopted SED compared to Observations?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/monitor/16018/seds/</i></p> <p>Category=STAR</p> <p>Description=[PRE-MAIN SEQUENCE STAR, T TAURI STAR]</p> <p>Extended=NO</p>					

Proposal 16108 - V-GM-AUR-COS-2 (1D) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF		5.8 Secs (5.8 Secs) [==>]	[1]	
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	2	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9			5.3 Secs (5.3 Secs) [==>]	[1]
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	3	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF			5.8 Secs (5.8 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
4	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9			5.3 Secs (5.3 Secs) [==>]	[1]	
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
5	G230L 2950 (COS.sp.152 2735)	(1) V-GM-AUR	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FP-POS=4; BUFFER-TIME=52 4			184 Secs (184 Secs) [==>]	[1]	
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522552). 362.4388 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 181.2194 seconds) to account for the other G230L cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522735) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522691) in order to determine bright object safety. Peak local rate of 5.943 counts per second and global rate of 2997.808, so it is safe. Buffer fill time = 786 seconds, and 2/3 of this is 524 seconds.</i></p>										

Proposal 16108 - V-GM-AUR-COS-2 (1D) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

6	G230L 2635 (1) V-GM-AUR (COS.sp.152 2737)	COS/NUV, TIME-TAG, PSA	G230L 2635 A	FP-POS=1; BUFFER-TIME=44 8	184 Secs (184 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522553). 364.1707 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 182.08535 seconds) to account for the other G230L cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522737) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522690) in order to determine bright object safety. Peak local rate of 5.927 counts per second and global rate of 2199.263, so it is safe. Buffer fill time = 672 seconds, and 2/3 of this is 448 seconds.</p>						
7	G160M 158 (1) V-GM-AUR 9-3 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=3; BUFFER-TIME=28 65	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</p>						
8	G160M 158 (1) V-GM-AUR 9-4 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=4; BUFFER-TIME=28 65	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</p>						
9	G160M 162 (1) V-GM-AUR 3-1 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; BUFFER-TIME=31 54	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</p>						
10	G160M 162 (1) V-GM-AUR 3-2 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=2; BUFFER-TIME=31 54	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</p>						



Proposal 16108 - V-GM-AUR-COS-3 (1E) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

Tue Nov 02 14:01:14 GMT 2021

Proposal 16108, V-GM-AUR-COS-3 (1E), completed

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%; AFTER 1C BY 42.0 Orbits TO 50.2 Orbits; BETWEEN 01-OCT-2021:00:00:00 AND 11-OCT-2021:08:10:00; BETWEEN 12-OCT-2021:17:00:00 AND 24-OCT-2021:04:15:00; BETWEEN 25-OCT-2021:17:20:00 AND 05-NOV-2021:21:10:00

Comments: vstatus; 1E; V-GM-AUR; P/COS approved for submission; P/AH 19/07/21 ; intrev: complete ; P/WF 19/07/21

vcheck; Enter targ name & Inst. & Resp. Sci.; GM Aur ; COS ; AH

vcheck; ETC numbers entered in APT?; Yes

vcheck; Any screening violations?; No

vcheck; M-dwarf check complete and added to box folder?; N/A

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

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

located at: box/ullyses_tech/ullyses_proposals/monitor/16018/images/

vcheck; Selected ACQ strategy?; Double ACQ/PeakXD+ACQ/PeakD, G230L, S/N = 40

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

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

vcheck; BETWEENS for coordinated observations added?; Yes ...

01 OCT 2021 00:00 to 11 OCT 2021 08:10 and 12 OCT 2021 17:00 to 24 OCT 2021 04:15 and 25 OCT 2021 17:20 to 05 NOV 2021 21:10

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

Allocated COS orbits = 12

Diagnosics (V-GM-AUR-COS-3 (1E)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

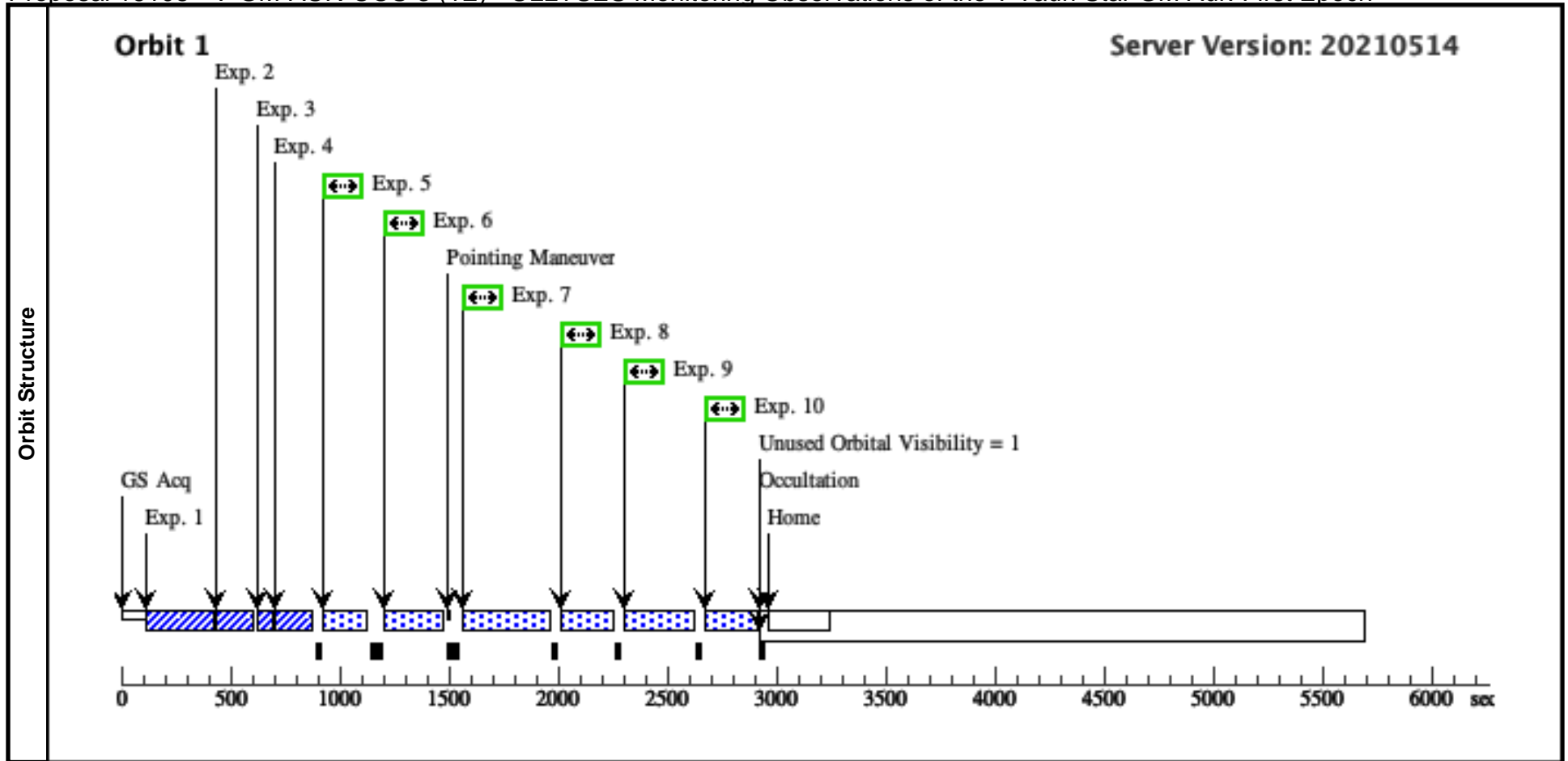
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	V-GM-AUR Alt Name1: 2MASS-J04551098+3021595 Alt Name2: HBC-77	RA: 04 55 10.9860 (73.7957750d) Dec: +30 21 59.00 (30.36639d) Equinox: J2000	Proper Motion RA: 3.012635677084487E-4 sec of time/yr Proper Motion Dec: -0.02445099994474731 arcsec/yr Epoch of Position: 2015.5	V=12.242 SpT=K3, U=14.59, B=13.35, V=12.24, R=11.80, G=11.70, J=9.34, H=8.60, K=8.28	Reference Frame: ICRS
<p><i>Comments: tstatus; V-GM-AUR ; P/COS approved for submission; S/ins not started; P/AH 19/07/21; S/xx DD/MM/YY</i></p> <p><i>tcheck; APT/SIMBAD target names: ; V-GM-AUR ...</i></p> <p><i>Default SIMBAD name is V* GM Aur, aka 2MASS J04551098+3021595</i></p> <p><i>tcheck; Target info verification status?; OK ...</i></p> <p><i>spectral type and magnitudes seem to be consistent</i></p> <p><i>Flam(B) = 2.6e-10 at 4444 Angstroms and Flam(V) = 4.7e-10 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD</i></p> <p><i>tcheck; Coordinates & P.M. verified, epoch checked?; OK ...</i></p> <p><i>SIMBAD coordinates check out with what's here, SIMBAD PM values check out with what's here</i></p> <p><i>tcheck; Adopted SED compared to Observations?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/monitor/16018/seds/</i></p> <p>Category=STAR Description=[PRE-MAIN SEQUENCE STAR, T TAURI STAR] Extended=NO</p>					

Proposal 16108 - V-GM-AUR-COS-3 (1E) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF		5.8 Secs (5.8 Secs) [==>]	[1]	
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	2	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9			5.3 Secs (5.3 Secs) [==>]	[1]
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	3	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF			5.8 Secs (5.8 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
4	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9			5.3 Secs (5.3 Secs) [==>]	[1]	
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
5	G230L 2950 (COS.sp.152 2735)	(1) V-GM-AUR	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FP-POS=4; BUFFER-TIME=52 4			184 Secs (184 Secs) [==>]	[1]	
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522552). 362.4388 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 181.2194 seconds) to account for the other G230L cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522735) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522691) in order to determine bright object safety. Peak local rate of 5.943 counts per second and global rate of 2997.808, so it is safe. Buffer fill time = 786 seconds, and 2/3 of this is 524 seconds.</i></p>										

Proposal 16108 - V-GM-AUR-COS-3 (1E) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

6	G230L 2635 (1) V-GM-AUR (COS.sp.152 2737)	COS/NUV, TIME-TAG, PSA	G230L 2635 A	FP-POS=1; BUFFER-TIME=44 8	184 Secs (184 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522553). 364.1707 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 182.08535 seconds) to account for the other G230L cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522737) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522690) in order to determine bright object safety. Peak local rate of 5.927 counts per second and global rate of 2199.263, so it is safe. Buffer fill time = 672 seconds, and 2/3 of this is 448 seconds.</p>						
7	G160M 158 (1) V-GM-AUR 9-3 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=3; BUFFER-TIME=28 65	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</p>						
8	G160M 158 (1) V-GM-AUR 9-4 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=4; BUFFER-TIME=28 65	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</p>						
9	G160M 162 (1) V-GM-AUR 3-1 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; BUFFER-TIME=31 54	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</p>						
10	G160M 162 (1) V-GM-AUR 3-2 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=2; BUFFER-TIME=31 54	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</p>						



Proposal 16108 - V-GM-AUR-COS-4 (1F) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

Tue Nov 02 14:01:14 GMT 2021

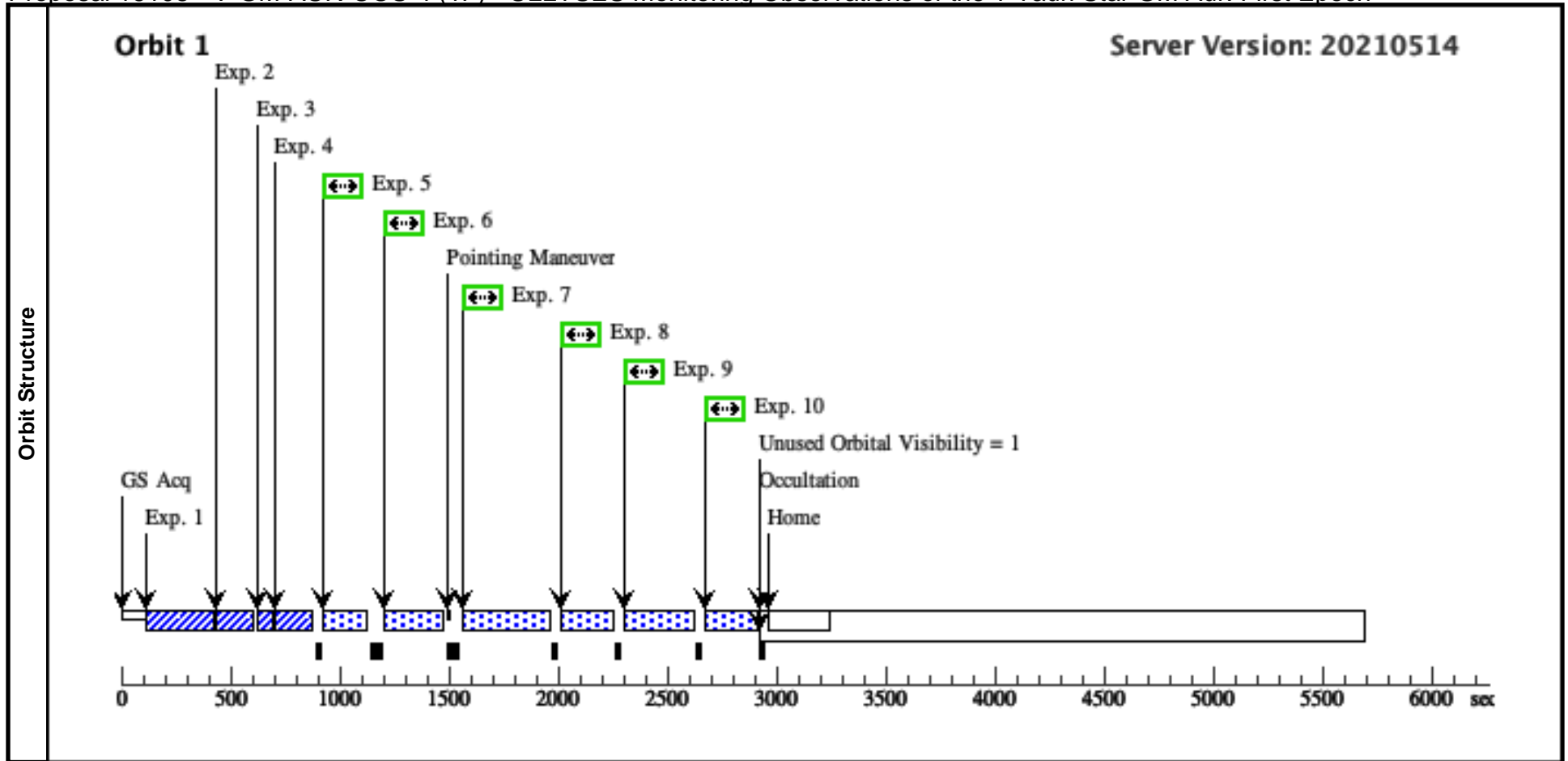
Visit	<p>Proposal 16108, V-GM-AUR-COS-4 (1F), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; AFTER 1C BY 65.1 Orbits TO 73.3 Orbits; BETWEEN 01-OCT-2021:00:00:00 AND 11-OCT-2021:08:10:00; BETWEEN 12-OCT-2021:17:00:00 AND 24-OCT-2021:04:15:00; BETWEEN 25-OCT-2021:17:20:00 AND 05-NOV-2021:21:10:00</p> <p><i>Comments: vstatus; 1F; V-GM-AUR; P/COS approved for submission; P/AH 19/07/21 ; intrev: complete ; P/WF 19/07/21</i></p> <p><i>vcheck; Enter targ name & Inst. & Resp. Sci.; GM Aur ; COS ; AH</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?; N/A</i></p> <p><i>vcheck; S/N ETC calcs done & documented?; Yes</i></p> <p><i>vcheck; Field images checked & saved?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/monitor/16018/images/</i></p> <p><i>vcheck; Selected ACQ strategy?; Double ACQ/PeakXD+ACQ/PeakD, G230L, 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>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>01 OCT 2021 00:00 to 11 OCT 2021 08:10 and 12 OCT 2021 17:00 to 24 OCT 2021 04:15 and 25 OCT 2021 17:20 to 05 NOV 2021 21:10</i></p> <p><i>vcheck; Is visit ready for int. review?; Yes</i></p> <p><i>Allocated COS orbits = 12</i></p>																													
	Diagnostics	<p>(V-GM-AUR-COS-4 (1F)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.</p>																												
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>V-GM-AUR</td> <td>RA: 04 55 10.9860 (73.7957750d)</td> <td>Proper Motion RA: 3.012635677084487E-4 sec of time/yr</td> <td>V=12.242</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td>Alt Name1: 2MASS-J04551098+3021595</td> <td>Dec: +30 21 59.00 (30.36639d)</td> <td>Proper Motion Dec: -0.02445099994474731 arcsec/yr</td> <td>SpT=K3, U=14.59,</td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: HBC-77</td> <td>Equinox: J2000</td> <td>Epoch of Position: 2015.5</td> <td>B=13.35, V=12.24, R=11.80, G=11.70, J=9.34, H=8.60, K=8.28</td> <td></td> </tr> </tbody> </table>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	V-GM-AUR	RA: 04 55 10.9860 (73.7957750d)	Proper Motion RA: 3.012635677084487E-4 sec of time/yr	V=12.242	Reference Frame: ICRS		Alt Name1: 2MASS-J04551098+3021595	Dec: +30 21 59.00 (30.36639d)	Proper Motion Dec: -0.02445099994474731 arcsec/yr	SpT=K3, U=14.59,			Alt Name2: HBC-77	Equinox: J2000	Epoch of Position: 2015.5	B=13.35, V=12.24, R=11.80, G=11.70, J=9.34, H=8.60, K=8.28	
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	<p><i>Comments: tstatus; V-GM-AUR ; P/COS approved for submission; S/ins not started; P/AH 19/07/21; S/xx DD/MM/YY</i></p> <p><i>tcheck; APT/SIMBAD target names: ; V-GM-AUR ...</i></p> <p><i>Default SIMBAD name is V* GM Aur, aka 2MASS J04551098+3021595</i></p> <p><i>tcheck; Target info verification status?; OK ...</i></p> <p><i>spectral type and magnitudes seem to be consistent</i></p> <p><i>Flam(B) = 2.6e-10 at 4444 Angstroms and Flam(V) = 4.7e-10 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD</i></p> <p><i>tcheck; Coordinates & P.M. verified, epoch checked?; OK ...</i></p> <p><i>SIMBAD coordinates check out with what's here, SIMBAD PM values check out with what's here</i></p> <p><i>tcheck; Adopted SED compared to Observations?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/monitor/16018/seds/</i></p> <p>Category=STAR</p> <p>Description=[PRE-MAIN SEQUENCE STAR, T TAURI STAR]</p> <p>Extended=NO</p>																													

Proposal 16108 - V-GM-AUR-COS-4 (1F) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF		5.8 Secs (5.8 Secs) [==>]	[1]	
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	2	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9		5.3 Secs (5.3 Secs) [==>]	[1]	
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	3	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF		5.8 Secs (5.8 Secs) [==>]	[1]	
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
4	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9		5.3 Secs (5.3 Secs) [==>]	[1]		
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
5	G230L 2950 (COS.sp.152 2735)	(1) V-GM-AUR	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FP-POS=4; BUFFER-TIME=52 4		184 Secs (184 Secs) [==>]	[1]		
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522552). 362.4388 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 181.2194 seconds) to account for the other G230L cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522735) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522691) in order to determine bright object safety. Peak local rate of 5.943 counts per second and global rate of 2997.808, so it is safe. Buffer fill time = 786 seconds, and 2/3 of this is 524 seconds.</i></p>										

Proposal 16108 - V-GM-AUR-COS-4 (1F) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

6	G230L 2635 (1) V-GM-AUR (COS.sp.152 2737)	COS/NUV, TIME-TAG, PSA	G230L 2635 A	FP-POS=1; BUFFER-TIME=44 8	184 Secs (184 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522553). 364.1707 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 182.08535 seconds) to account for the other G230L cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522737) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522690) in order to determine bright object safety. Peak local rate of 5.927 counts per second and global rate of 2199.263, so it is safe. Buffer fill time = 672 seconds, and 2/3 of this is 448 seconds.</p>						
7	G160M 158 (1) V-GM-AUR 9-3 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=3; BUFFER-TIME=28 65	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</p>						
8	G160M 158 (1) V-GM-AUR 9-4 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=4; BUFFER-TIME=28 65	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</p>						
9	G160M 162 (1) V-GM-AUR 3-1 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; BUFFER-TIME=31 54	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</p>						
10	G160M 162 (1) V-GM-AUR 3-2 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=2; BUFFER-TIME=31 54	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</p>						



Proposal 16108 - V-GM-AUR-COS-5 (1G) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

Tue Nov 02 14:01:14 GMT 2021

Proposal 16108, V-GM-AUR-COS-5 (1G), completed

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%; AFTER 1C BY 88.2 Orbits TO 96.4 Orbits; BETWEEN 01-OCT-2021:00:00:00 AND 11-OCT-2021:08:10:00; BETWEEN 12-OCT-2021:17:00:00 AND 24-OCT-2021:04:15:00; BETWEEN 25-OCT-2021:17:20:00 AND 05-NOV-2021:21:10:00

Comments: vstatus; 1G; V-GM-AUR; P/COS approved for submission; P/AH 19/07/21; intrev: complete; P/WF 19/07/21

vcheck; Enter targ name & Inst. & Resp. Sci.; GM Aur; COS; AH

vcheck; ETC numbers entered in APT?; Yes

vcheck; Any screening violations?; No

vcheck; M-dwarf check complete and added to box folder?; N/A

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

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

located at: box/ullyses_tech/ullyses_proposals/monitor/16018/images/

vcheck; Selected ACQ strategy?; Double ACQ/PeakXD+ACQ/PeakD, G230L, S/N = 40

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

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

vcheck; BETWEENS for coordinated observations added?; Yes ...

01 OCT 2021 00:00 to 11 OCT 2021 08:10 and 12 OCT 2021 17:00 to 24 OCT 2021 04:15 and 25 OCT 2021 17:20 to 05 NOV 2021 21:10

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

Allocated COS orbits = 12

Diagnosics

(V-GM-AUR-COS-5 (1G)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

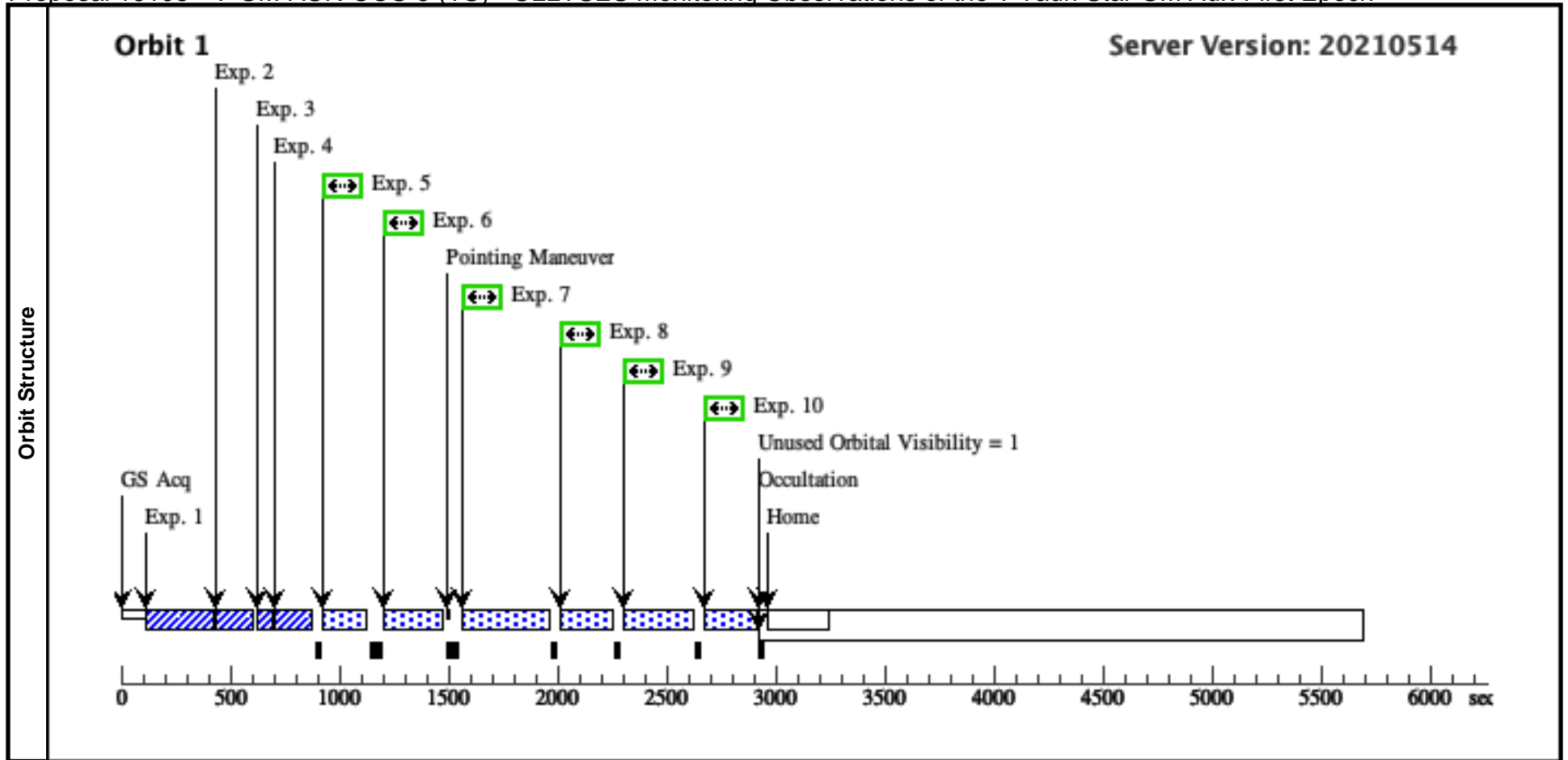
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	V-GM-AUR Alt Name1: 2MASS-J04551098+3021595 Alt Name2: HBC-77	RA: 04 55 10.9860 (73.7957750d) Dec: +30 21 59.00 (30.36639d) Equinox: J2000	Proper Motion RA: 3.012635677084487E-4 sec of time/yr Proper Motion Dec: -0.02445099994474731 arcsec/yr Epoch of Position: 2015.5	V=12.242 SpT=K3, U=14.59, B=13.35, V=12.24, R=11.80, G=11.70, J=9.34, H=8.60, K=8.28	Reference Frame: ICRS
<p><i>Comments: tstatus; V-GM-AUR; P/COS approved for submission; S/ins not started; P/AH 19/07/21; S/xx DD/MM/YY</i></p> <p><i>tcheck; APT/SIMBAD target names: ; V-GM-AUR ...</i></p> <p><i>Default SIMBAD name is V* GM Aur, aka 2MASS J04551098+3021595</i></p> <p><i>tcheck; Target info verification status?; OK ...</i></p> <p><i>spectral type and magnitudes seem to be consistent</i></p> <p><i>Flam(B) = 2.6e-10 at 4444 Angstroms and Flam(V) = 4.7e-10 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD</i></p> <p><i>tcheck; Coordinates & P.M. verified, epoch checked?; OK ...</i></p> <p><i>SIMBAD coordinates check out with what's here, SIMBAD PM values check out with what's here</i></p> <p><i>tcheck; Adopted SED compared to Observations?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/monitor/16018/seds/</i></p> <p>Category=STAR</p> <p>Description=[PRE-MAIN SEQUENCE STAR, T TAURI STAR]</p> <p>Extended=NO</p>					

Proposal 16108 - V-GM-AUR-COS-5 (1G) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF		5.8 Secs (5.8 Secs) [==>]	[1]	
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	2	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9		5.3 Secs (5.3 Secs) [==>]	[1]	
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	3	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF		5.8 Secs (5.8 Secs) [==>]	[1]	
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
4	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9		5.3 Secs (5.3 Secs) [==>]	[1]		
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
5	G230L 2950 (COS.sp.152 2735)	(1) V-GM-AUR	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FP-POS=4; BUFFER-TIME=52 4		184 Secs (184 Secs) [==>]	[1]		
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522552). 362.4388 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 181.2194 seconds) to account for the other G230L cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522735) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522691) in order to determine bright object safety. Peak local rate of 5.943 counts per second and global rate of 2997.808, so it is safe. Buffer fill time = 786 seconds, and 2/3 of this is 524 seconds.</i></p>										

Proposal 16108 - V-GM-AUR-COS-5 (1G) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

6	G230L 2635 (1) V-GM-AUR (COS.sp.152 2737)	COS/NUV, TIME-TAG, PSA	G230L 2635 A	FP-POS=1; BUFFER-TIME=44 8	184 Secs (184 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522553). 364.1707 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 182.08535 seconds) to account for the other G230L cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522737) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522690) in order to determine bright object safety. Peak local rate of 5.927 counts per second and global rate of 2199.263, so it is safe. Buffer fill time = 672 seconds, and 2/3 of this is 448 seconds.</p>						
7	G160M 158 (1) V-GM-AUR 9-3 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=3; BUFFER-TIME=28 65	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</p>						
8	G160M 158 (1) V-GM-AUR 9-4 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=4; BUFFER-TIME=28 65	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</p>						
9	G160M 162 (1) V-GM-AUR 3-1 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; BUFFER-TIME=31 54	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</p>						
10	G160M 162 (1) V-GM-AUR 3-2 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=2; BUFFER-TIME=31 54	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</p>						



Proposal 16108 - V-GM-AUR-COS-6 (1H) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

Tue Nov 02 14:01:14 GMT 2021

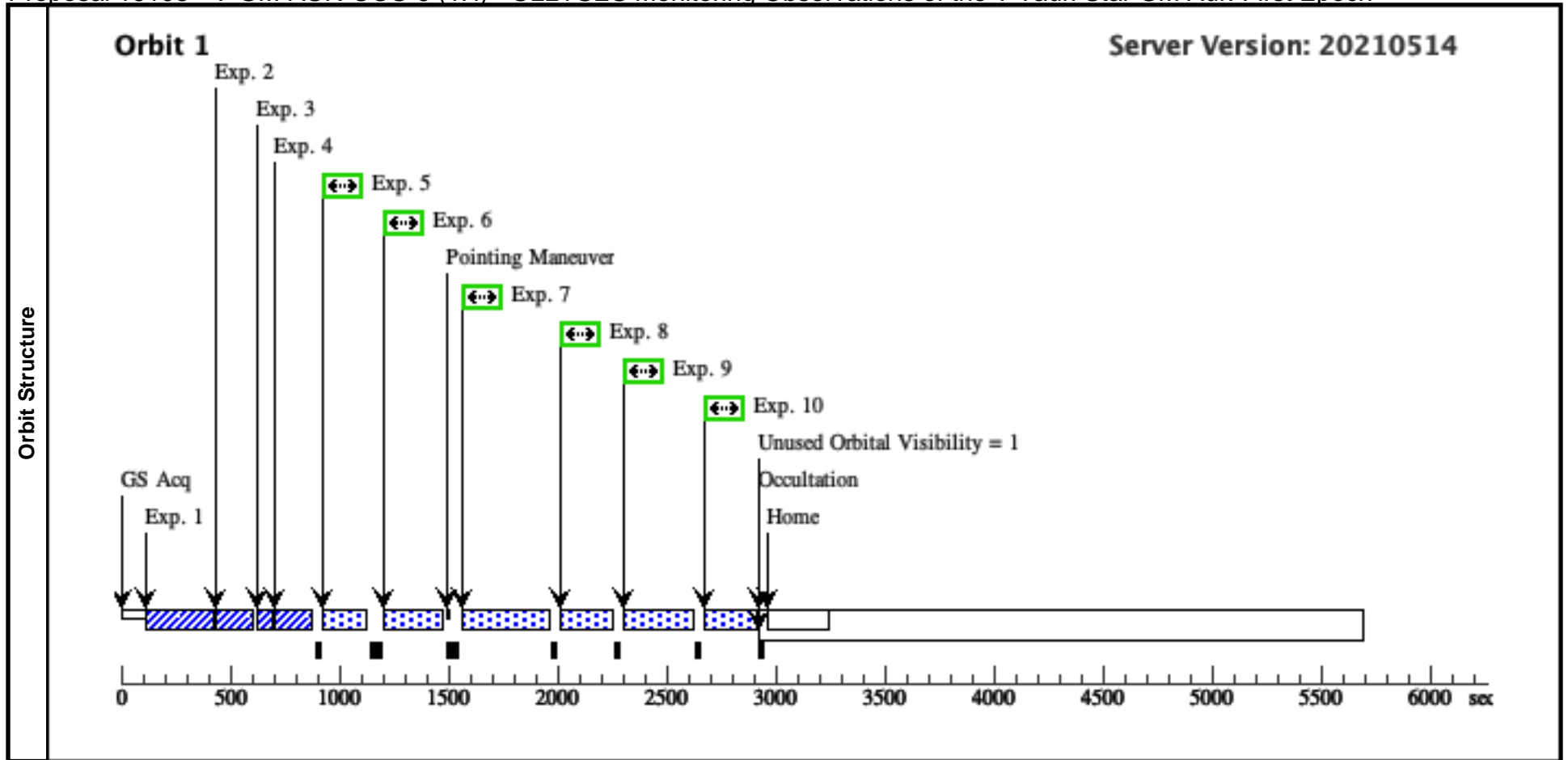
Visit	<p>Proposal 16108, V-GM-AUR-COS-6 (1H), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; AFTER 1C BY 111.2 Orbits TO 119.4 Orbits; BETWEEN 01-OCT-2021:00:00:00 AND 11-OCT-2021:08:10:00; BETWEEN 12-OCT-2021:17:00:00 AND 24-OCT-2021:04:15:00; BETWEEN 25-OCT-2021:17:20:00 AND 05-NOV-2021:21:10:00</p> <p><i>Comments: vstatus; 1H; V-GM-AUR; P/COS approved for submission; P/AH 19/07/21; intrev: complete; P/WF 19/07/21</i></p> <p><i>vcheck; Enter targ name & Inst. & Resp. Sci.; GM Aur; COS; AH</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?; N/A</i></p> <p><i>vcheck; S/N ETC calcs done & documented?; Yes</i></p> <p><i>vcheck; Field images checked & saved?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/monitor/16018/images/</i></p> <p><i>vcheck; Selected ACQ strategy?; Double ACQ/PeakXD+ACQ/PeakD, G230L, 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>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>01 OCT 2021 00:00 to 11 OCT 2021 08:10 and 12 OCT 2021 17:00 to 24 OCT 2021 04:15 and 25 OCT 2021 17:20 to 05 NOV 2021 21:10</i></p> <p><i>vcheck; Is visit ready for int. review?; Yes</i></p> <p><i>Allocated COS orbits = 12</i></p>																													
	Diagnostics	<p>(V-GM-AUR-COS-6 (1H)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.</p>																												
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>V-GM-AUR</td> <td>RA: 04 55 10.9860 (73.7957750d)</td> <td>Proper Motion RA: 3.012635677084487E-4 sec of time/yr</td> <td>V=12.242</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td>Alt Name1: 2MASS-J04551098+3021595</td> <td>Dec: +30 21 59.00 (30.36639d)</td> <td>Proper Motion Dec: -0.02445099994474731 arcsec/yr</td> <td>SpT=K3, U=14.59,</td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: HBC-77</td> <td>Equinox: J2000</td> <td>Epoch of Position: 2015.5</td> <td>B=13.35, V=12.24, R=11.80, G=11.70, J=9.34, H=8.60, K=8.28</td> <td></td> </tr> </tbody> </table>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	V-GM-AUR	RA: 04 55 10.9860 (73.7957750d)	Proper Motion RA: 3.012635677084487E-4 sec of time/yr	V=12.242	Reference Frame: ICRS		Alt Name1: 2MASS-J04551098+3021595	Dec: +30 21 59.00 (30.36639d)	Proper Motion Dec: -0.02445099994474731 arcsec/yr	SpT=K3, U=14.59,			Alt Name2: HBC-77	Equinox: J2000	Epoch of Position: 2015.5	B=13.35, V=12.24, R=11.80, G=11.70, J=9.34, H=8.60, K=8.28	
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	<p><i>Comments: tstatus; V-GM-AUR; P/COS approved for submission; S/ins not started; P/AH 19/07/21; S/xx DD/MM/YY</i></p> <p><i>tcheck; APT/SIMBAD target names: ; V-GM-AUR ...</i></p> <p><i>Default SIMBAD name is V* GM Aur, aka 2MASS J04551098+3021595</i></p> <p><i>tcheck; Target info verification status?; OK ...</i></p> <p><i>spectral type and magnitudes seem to be consistent</i></p> <p><i>Flam(B) = 2.6e-10 at 4444 Angstroms and Flam(V) = 4.7e-10 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD</i></p> <p><i>tcheck; Coordinates & P.M. verified, epoch checked?; OK ...</i></p> <p><i>SIMBAD coordinates check out with what's here, SIMBAD PM values check out with what's here</i></p> <p><i>tcheck; Adopted SED compared to Observations?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/monitor/16018/seds/</i></p> <p>Category=STAR</p> <p>Description=[PRE-MAIN SEQUENCE STAR, T TAURI STAR]</p> <p>Extended=NO</p>																													

Proposal 16108 - V-GM-AUR-COS-6 (1H) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF		5.8 Secs (5.8 Secs) [==>]	[1]	
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	2	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9			5.3 Secs (5.3 Secs) [==>]	[1]
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	3	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF			5.8 Secs (5.8 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
4	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9			5.3 Secs (5.3 Secs) [==>]	[1]	
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
5	G230L 2950 (COS.sp.152 2735)	(1) V-GM-AUR	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FP-POS=4; BUFFER-TIME=52 4			184 Secs (184 Secs) [==>]	[1]	
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522552). 362.4388 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 181.2194 seconds) to account for the other G230L cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522735) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522691) in order to determine bright object safety. Peak local rate of 5.943 counts per second and global rate of 2997.808, so it is safe. Buffer fill time = 786 seconds, and 2/3 of this is 524 seconds.</i></p>										

Proposal 16108 - V-GM-AUR-COS-6 (1H) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

6	G230L 2635 (1) V-GM-AUR (COS.sp.152 2737)	COS/NUV, TIME-TAG, PSA	G230L 2635 A	FP-POS=1; BUFFER-TIME=44 8	184 Secs (184 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522553). 364.1707 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 182.08535 seconds) to account for the other G230L cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522737) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522690) in order to determine bright object safety. Peak local rate of 5.927 counts per second and global rate of 2199.263, so it is safe. Buffer fill time = 672 seconds, and 2/3 of this is 448 seconds.</i></p>						
7	G160M 158 (1) V-GM-AUR 9-3 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=3; BUFFER-TIME=28 65	186 Secs (186 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</i></p>						
8	G160M 158 (1) V-GM-AUR 9-4 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=4; BUFFER-TIME=28 65	186 Secs (186 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</i></p>						
9	G160M 162 (1) V-GM-AUR 3-1 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; BUFFER-TIME=31 54	186 Secs (186 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</i></p>						
10	G160M 162 (1) V-GM-AUR 3-2 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=2; BUFFER-TIME=31 54	186 Secs (186 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</i></p>						



Proposal 16108 - V-GM-AUR-COS-7 (1I) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

Tue Nov 02 14:01:14 GMT 2021

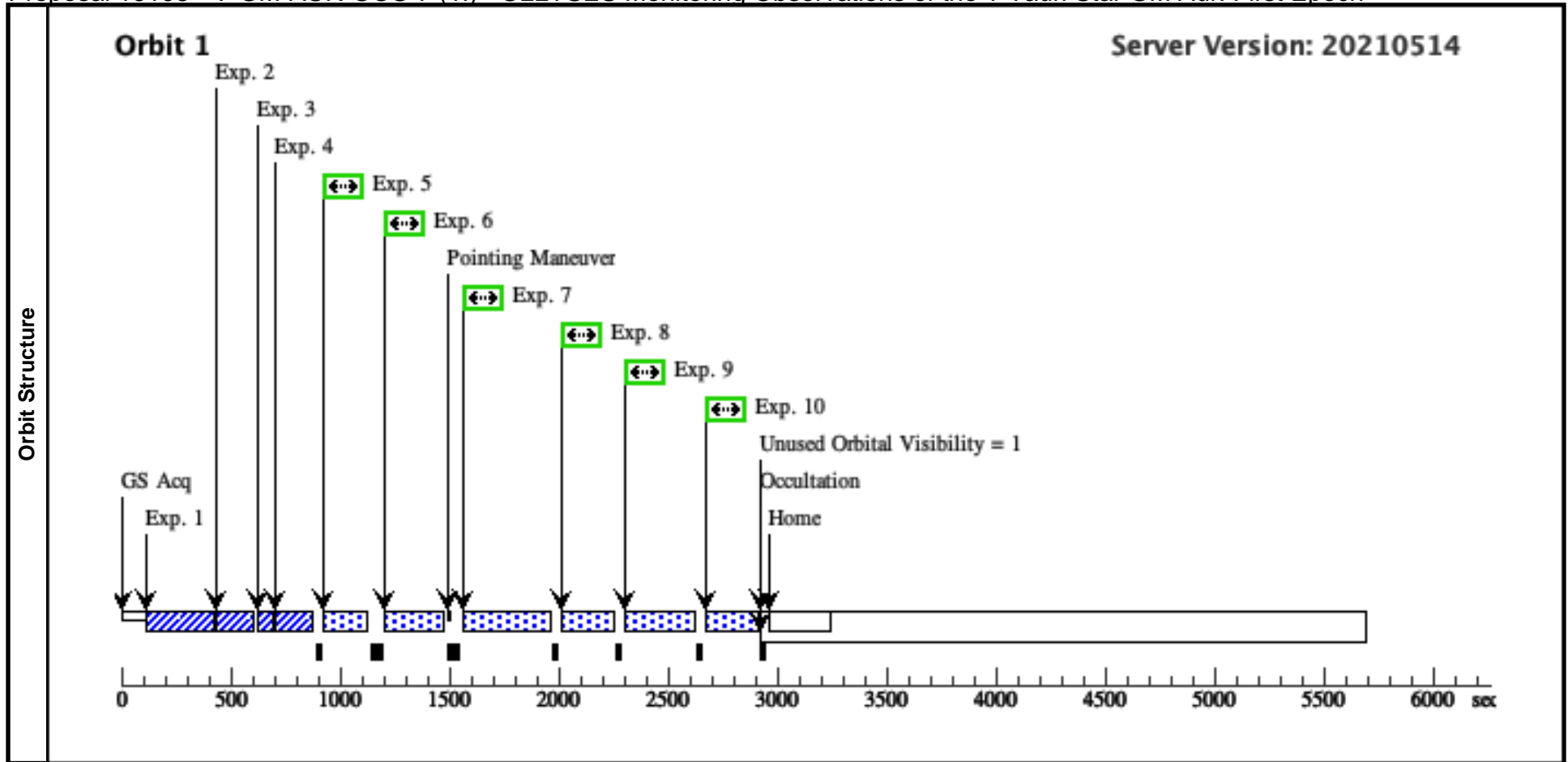
Visit	<p>Proposal 16108, V-GM-AUR-COS-7 (1I), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; AFTER 1C BY 134.3 Orbits TO 142.5 Orbits; BETWEEN 01-OCT-2021:00:00:00 AND 11-OCT-2021:08:10:00; BETWEEN 12-OCT-2021:17:00:00 AND 24-OCT-2021:04:15:00; BETWEEN 25-OCT-2021:17:20:00 AND 05-NOV-2021:21:10:00</p> <p><i>Comments: vstatus; 1I; V-GM-AUR; P/COS approved for submission; P/AH 19/07/21 ; intrev: complete ; P/WF 19/07/21</i></p> <p><i>vcheck; Enter targ name & Inst. & Resp. Sci.; GM Aur ; COS ; AH</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?; N/A</i></p> <p><i>vcheck; S/N ETC calcs done & documented?; Yes</i></p> <p><i>vcheck; Field images checked & saved?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/monitor/16018/images/</i></p> <p><i>vcheck; Selected ACQ strategy?; Double ACQ/PeakXD+ACQ/PeakD, G230L, 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>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>01 OCT 2021 00:00 to 11 OCT 2021 08:10 and 12 OCT 2021 17:00 to 24 OCT 2021 04:15 and 25 OCT 2021 17:20 to 05 NOV 2021 21:10</i></p> <p><i>vcheck; Is visit ready for int. review?; Yes</i></p> <p><i>Allocated COS orbits = 12</i></p>																													
	Diagnostics	<p>(V-GM-AUR-COS-7 (1I)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.</p>																												
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>V-GM-AUR</td> <td>RA: 04 55 10.9860 (73.7957750d)</td> <td>Proper Motion RA: 3.012635677084487E-4 sec of time/yr</td> <td>V=12.242</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td>Alt Name1: 2MASS-J04551098+3021595</td> <td>Dec: +30 21 59.00 (30.36639d)</td> <td>Proper Motion Dec: -0.02445099994474731 arcsec/yr</td> <td>SpT=K3, U=14.59,</td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: HBC-77</td> <td>Equinox: J2000</td> <td>Epoch of Position: 2015.5</td> <td>B=13.35, V=12.24, R=11.80, G=11.70, J=9.34, H=8.60, K=8.28</td> <td></td> </tr> </tbody> </table>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	V-GM-AUR	RA: 04 55 10.9860 (73.7957750d)	Proper Motion RA: 3.012635677084487E-4 sec of time/yr	V=12.242	Reference Frame: ICRS		Alt Name1: 2MASS-J04551098+3021595	Dec: +30 21 59.00 (30.36639d)	Proper Motion Dec: -0.02445099994474731 arcsec/yr	SpT=K3, U=14.59,			Alt Name2: HBC-77	Equinox: J2000	Epoch of Position: 2015.5	B=13.35, V=12.24, R=11.80, G=11.70, J=9.34, H=8.60, K=8.28	
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	<p><i>Comments: tstatus; V-GM-AUR ; P/COS approved for submission; S/ins not started; P/AH 19/07/21; S/xx DD/MM/YY</i></p> <p><i>tcheck; APT/SIMBAD target names: ; V-GM-AUR ...</i></p> <p><i>Default SIMBAD name is V* GM Aur, aka 2MASS J04551098+3021595</i></p> <p><i>tcheck; Target info verification status?; OK ...</i></p> <p><i>spectral type and magnitudes seem to be consistent</i></p> <p><i>Flam(B) = 2.6e-10 at 4444 Angstroms and Flam(V) = 4.7e-10 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD</i></p> <p><i>tcheck; Coordinates & P.M. verified, epoch checked?; OK ...</i></p> <p><i>SIMBAD coordinates check out with what's here, SIMBAD PM values check out with what's here</i></p> <p><i>tcheck; Adopted SED compared to Observations?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/monitor/16018/seds/</i></p> <p>Category=STAR</p> <p>Description=[PRE-MAIN SEQUENCE STAR, T TAURI STAR]</p> <p>Extended=NO</p>																													

Proposal 16108 - V-GM-AUR-COS-7 (1I) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF		5.8 Secs (5.8 Secs) [==>]	[1]	
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	2	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9			5.3 Secs (5.3 Secs) [==>]	[1]
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	3	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF			5.8 Secs (5.8 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
4	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9			5.3 Secs (5.3 Secs) [==>]	[1]	
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
5	G230L 2950 (COS.sp.152 2735)	(1) V-GM-AUR	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FP-POS=4; BUFFER-TIME=52 4			184 Secs (184 Secs) [==>]	[1]	
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522552). 362.4388 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 181.2194 seconds) to account for the other G230L cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522735) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522691) in order to determine bright object safety. Peak local rate of 5.943 counts per second and global rate of 2997.808, so it is safe. Buffer fill time = 786 seconds, and 2/3 of this is 524 seconds.</i></p>										

Proposal 16108 - V-GM-AUR-COS-7 (1I) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

6	G230L 2635 (1) V-GM-AUR (COS.sp.152 2737)	COS/NUV, TIME-TAG, PSA	G230L 2635 A	FP-POS=1; BUFFER-TIME=44 8	184 Secs (184 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522553). 364.1707 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 182.08535 seconds) to account for the other G230L cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522737) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522690) in order to determine bright object safety. Peak local rate of 5.927 counts per second and global rate of 2199.263, so it is safe. Buffer fill time = 672 seconds, and 2/3 of this is 448 seconds.</p>						
7	G160M 158 (1) V-GM-AUR 9-3 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=3; BUFFER-TIME=28 65	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</p>						
8	G160M 158 (1) V-GM-AUR 9-4 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=4; BUFFER-TIME=28 65	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</p>						
9	G160M 162 (1) V-GM-AUR 3-1 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; BUFFER-TIME=31 54	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</p>						
10	G160M 162 (1) V-GM-AUR 3-2 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=2; BUFFER-TIME=31 54	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</p>						



Proposal 16108 - V-GM-AUR-COS-8 (1J) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

Tue Nov 02 14:01:14 GMT 2021

Proposal 16108, V-GM-AUR-COS-8 (1J), failed

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%; AFTER 1C BY 157.4 Orbits TO 165.6 Orbits; BETWEEN 01-OCT-2021:00:00:00 AND 11-OCT-2021:08:10:00; BETWEEN 12-OCT-2021:17:00:00 AND 24-OCT-2021:04:15:00; BETWEEN 25-OCT-2021:17:20:00 AND 05-NOV-2021:21:10:00

Comments: vstatus; 1J; V-GM-AUR; P/COS approved for submission; P/AH 19/07/21 ; intrev: complete ; P/WF 19/07/21

vcheck; Enter targ name & Inst. & Resp. Sci.; GM Aur ; COS ; AH

vcheck; ETC numbers entered in APT?; Yes

vcheck; Any screening violations?; No

vcheck; M-dwarf check complete and added to box folder?; N/A

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

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

located at: box/ullyses_tech/ullyses_proposals/monitor/16018/images/

vcheck; Selected ACQ strategy?; Double ACQ/PeakXD+ACQ/PeakD, G230L, S/N = 40

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

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

vcheck; BETWEENS for coordinated observations added?; Yes ...

01 OCT 2021 00:00 to 11 OCT 2021 08:10 and 12 OCT 2021 17:00 to 24 OCT 2021 04:15 and 25 OCT 2021 17:20 to 05 NOV 2021 21:10

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

Allocated COS orbits = 12

Diagnosics (V-GM-AUR-COS-8 (1J)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

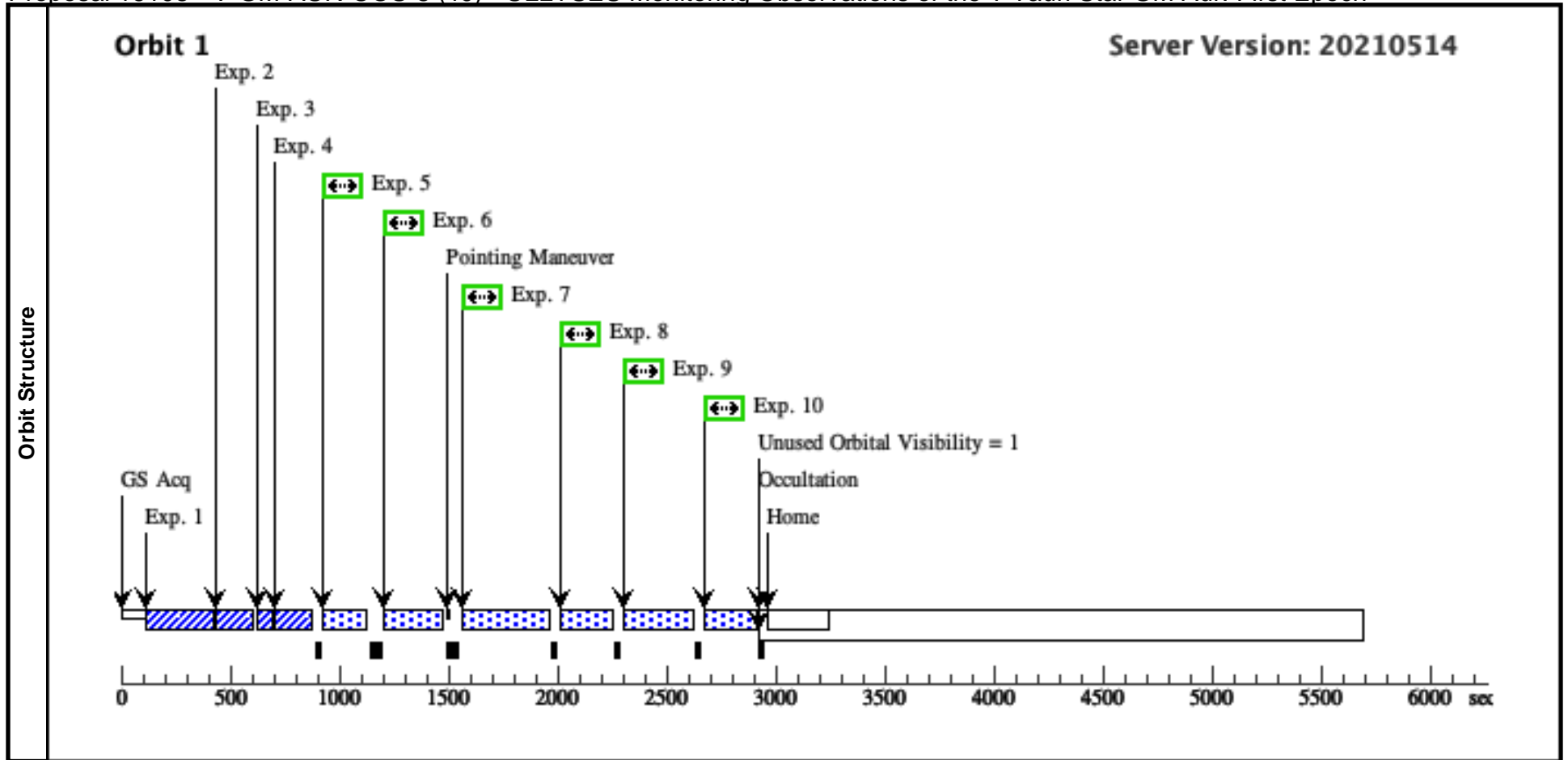
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	V-GM-AUR Alt Name1: 2MASS-J04551098+3021595 Alt Name2: HBC-77	RA: 04 55 10.9860 (73.7957750d) Dec: +30 21 59.00 (30.36639d) Equinox: J2000	Proper Motion RA: 3.012635677084487E-4 sec of time/yr Proper Motion Dec: -0.02445099994474731 arcsec/yr Epoch of Position: 2015.5	V=12.242 SpT=K3, U=14.59, B=13.35, V=12.24, R=11.80, G=11.70, J=9.34, H=8.60, K=8.28	Reference Frame: ICRS
<p><i>Comments: tstatus; V-GM-AUR ; P/COS approved for submission; S/ins not started; P/AH 19/07/21; S/xx DD/MM/YY</i></p> <p><i>tcheck; APT/SIMBAD target names: ; V-GM-AUR ...</i></p> <p><i>Default SIMBAD name is V* GM Aur, aka 2MASS J04551098+3021595</i></p> <p><i>tcheck; Target info verification status?; OK ...</i></p> <p><i>spectral type and magnitudes seem to be consistent</i></p> <p><i>Flam(B) = 2.6e-10 at 4444 Angstroms and Flam(V) = 4.7e-10 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD</i></p> <p><i>tcheck; Coordinates & P.M. verified, epoch checked?; OK ...</i></p> <p><i>SIMBAD coordinates check out with what's here, SIMBAD PM values check out with what's here</i></p> <p><i>tcheck; Adopted SED compared to Observations?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/monitor/16018/seds/</i></p> <p>Category=STAR</p> <p>Description=[PRE-MAIN SEQUENCE STAR, T TAURI STAR]</p> <p>Extended=NO</p>					

Proposal 16108 - V-GM-AUR-COS-8 (1J) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF		5.8 Secs (5.8 Secs) [==>]	[1]	
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	2	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9		5.3 Secs (5.3 Secs) [==>]	[1]	
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	3	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF		5.8 Secs (5.8 Secs) [==>]	[1]	
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
4	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9		5.3 Secs (5.3 Secs) [==>]	[1]		
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
5	G230L 2950 (COS.sp.152 2735)	(1) V-GM-AUR	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FP-POS=4; BUFFER-TIME=52 4		184 Secs (184 Secs) [==>]	[1]		
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522552). 362.4388 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 181.2194 seconds) to account for the other G230L cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522735) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522691) in order to determine bright object safety. Peak local rate of 5.943 counts per second and global rate of 2997.808, so it is safe. Buffer fill time = 786 seconds, and 2/3 of this is 524 seconds.</i></p>										

Proposal 16108 - V-GM-AUR-COS-8 (1J) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

6	G230L 2635 (1) V-GM-AUR (COS.sp.152 2737)	COS/NUV, TIME-TAG, PSA	G230L 2635 A	FP-POS=1; BUFFER-TIME=44 8	184 Secs (184 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522553). 364.1707 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 182.08535 seconds) to account for the other G230L cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522737) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522690) in order to determine bright object safety. Peak local rate of 5.927 counts per second and global rate of 2199.263, so it is safe. Buffer fill time = 672 seconds, and 2/3 of this is 448 seconds.</i></p>						
7	G160M 158 (1) V-GM-AUR 9-3 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=3; BUFFER-TIME=28 65	186 Secs (186 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</i></p>						
8	G160M 158 (1) V-GM-AUR 9-4 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=4; BUFFER-TIME=28 65	186 Secs (186 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</i></p>						
9	G160M 162 (1) V-GM-AUR 3-1 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; BUFFER-TIME=31 54	186 Secs (186 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</i></p>						
10	G160M 162 (1) V-GM-AUR 3-2 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=2; BUFFER-TIME=31 54	186 Secs (186 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</i></p>						



Proposal 16108 - V-GM-AUR-COS-8 (AJ) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

Tue Nov 02 14:01:14 GMT 2021

Visit	<p>Proposal 16108, V-GM-AUR-COS-8 (AJ)</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 25-OCT-2021:17:20:00 AND 15-DEC-2021:21:10:00</p> <p><i>Comments: vstatus; 1J; V-GM-AUR; P/COS approved for submission; P/AH 19/07/21 ; intrev: complete ; P/WF 19/07/21 vcheck; Enter targ name & Inst. & Resp. Sci.; GM Aur ; COS ; AH vcheck; ETC numbers entered in APT?; Yes vcheck; Any screening violations?; No vcheck; M-dwarf check complete and added to box folder?; N/A vcheck; S/N ETC calcs done & documented?; Yes vcheck; Field images checked & saved?; Yes ... located at: box/ullyses_tech/ullyses_proposals/monitor/16018/images/ vcheck; Selected ACQ strategy?; Double ACQ/PeakXD+ACQ/PeakD, G230L, S/N = 40 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 vcheck; phase constraint for ground based observations added?; N/A vcheck; BETWEENS for coordinated observations added?; Yes ... 01 OCT 2021 00:00 to 11 OCT 2021 08:10 and 12 OCT 2021 17:00 to 24 OCT 2021 04:15 and 25 OCT 2021 17:20 to 05 NOV 2021 21:10 vcheck; Is visit ready for int. review?; Yes Allocated COS orbits = 12</i></p>
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Diagnostics	<p>(V-GM-AUR-COS-8 (AJ)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.</p>
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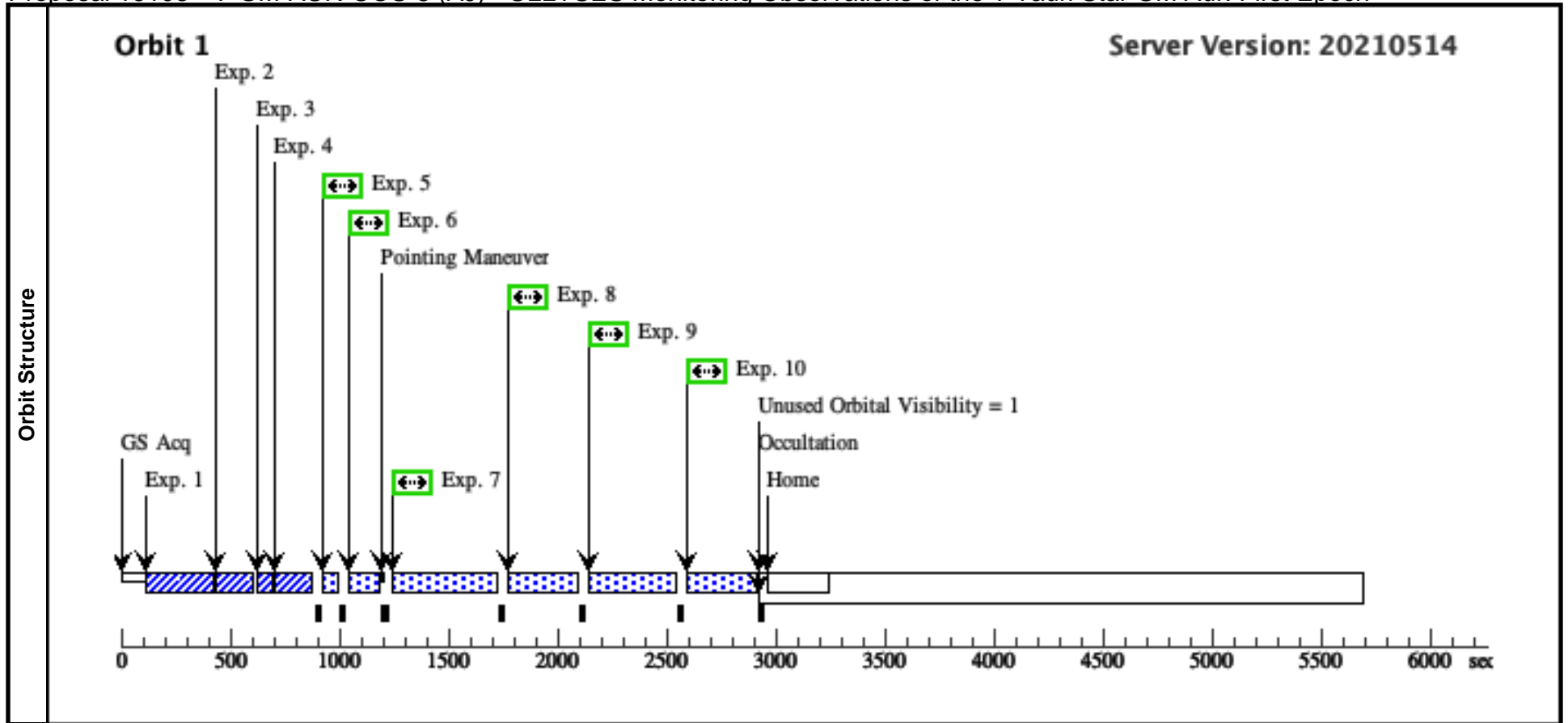
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>V-GM-AUR Alt Name1: 2MASS-J04551098+3021595 Alt Name2: HBC-77</td> <td>RA: 04 55 10.9860 (73.7957750d) Dec: +30 21 59.00 (30.36639d) Equinox: J2000</td> <td>Proper Motion RA: 3.012635677084487E-4 sec of time/yr Proper Motion Dec: -0.02445099994474731 arcsec/yr Epoch of Position: 2015.5</td> <td>V=12.242 SpT=K3, U=14.59, B=13.35, V=12.24, R=11.80, G=11.70, J=9.34, H=8.60, K=8.28</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: tstatus; V-GM-AUR ; P/COS approved for submission; S/ins not started; P/AH 19/07/21; S/xx DD/MM/YY tcheck; APT/SIMBAD target names: ; V-GM-AUR ... Default SIMBAD name is V* GM Aur, aka 2MASS J04551098+3021595 tcheck; Target info verification status?; OK ... spectral type and magnitudes seem to be consistent Flam(B) = 2.6e-10 at 4444 Angstroms and Flam(V) = 4.7e-10 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD tcheck; Coordinates & P.M. verified, epoch checked?; OK ... SIMBAD coordinates check out with what's here, SIMBAD PM values check out with what's here tcheck; Adopted SED compared to Observations?; Yes ... located at: box/ullyses_tech/ullyses_proposals/monitor/16018/seds/ Category=STAR Description=[PRE-MAIN SEQUENCE STAR, T TAURI STAR] Extended=NO</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	V-GM-AUR Alt Name1: 2MASS-J04551098+3021595 Alt Name2: HBC-77	RA: 04 55 10.9860 (73.7957750d) Dec: +30 21 59.00 (30.36639d) Equinox: J2000	Proper Motion RA: 3.012635677084487E-4 sec of time/yr Proper Motion Dec: -0.02445099994474731 arcsec/yr Epoch of Position: 2015.5	V=12.242 SpT=K3, U=14.59, B=13.35, V=12.24, R=11.80, G=11.70, J=9.34, H=8.60, K=8.28	Reference Frame: ICRS
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous								
(1)	V-GM-AUR Alt Name1: 2MASS-J04551098+3021595 Alt Name2: HBC-77	RA: 04 55 10.9860 (73.7957750d) Dec: +30 21 59.00 (30.36639d) Equinox: J2000	Proper Motion RA: 3.012635677084487E-4 sec of time/yr Proper Motion Dec: -0.02445099994474731 arcsec/yr Epoch of Position: 2015.5	V=12.242 SpT=K3, U=14.59, B=13.35, V=12.24, R=11.80, G=11.70, J=9.34, H=8.60, K=8.28	Reference Frame: ICRS								

Proposal 16108 - V-GM-AUR-COS-8 (AJ) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF		5.8 Secs (5.8 Secs) [==>]	[1]	
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	2	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9		5.3 Secs (5.3 Secs) [==>]	[1]	
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	3	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF		5.8 Secs (5.8 Secs) [==>]	[1]	
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
4	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9		5.3 Secs (5.3 Secs) [==>]	[1]		
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
5	G230L 2950 (COS.sp.152 2735)	(1) V-GM-AUR	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FP-POS=4; BUFFER-TIME=52 4		50 Secs (50 Secs) [==>]	[1]		
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522552). 362.4388 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 181.2194 seconds) to account for the other G230L cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522735) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522691) in order to determine bright object safety. Peak local rate of 5.943 counts per second and global rate of 2997.808, so it is safe. Buffer fill time = 786 seconds, and 2/3 of this is 524 seconds.</i></p>										

Proposal 16108 - V-GM-AUR-COS-8 (AJ) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

6	G230L 2635 (1) V-GM-AUR (COS.sp.152 2737)	COS/NUV, TIME-TAG, PSA	G230L 2635 A	FP-POS=1; BUFFER-TIME=44 8	50 Secs (50 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522553). 364.1707 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 182.08535 seconds) to account for the other G230L cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522737) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522690) in order to determine bright object safety. Peak local rate of 5.927 counts per second and global rate of 2199.263, so it is safe. Buffer fill time = 672 seconds, and 2/3 of this is 448 seconds.</i></p>						
7	G160M 158 (1) V-GM-AUR 9-3 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=3; BUFFER-TIME=28 65	265 Secs (265 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</i></p>						
8	G160M 158 (1) V-GM-AUR 9-4 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=4; BUFFER-TIME=28 65	265 Secs (265 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</i></p>						
9	G160M 162 (1) V-GM-AUR 3-1 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; BUFFER-TIME=31 54	265 Secs (265 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</i></p>						
10	G160M 162 (1) V-GM-AUR 3-2 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=2; BUFFER-TIME=31 54	265 Secs (265 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</i></p>						



Proposal 16108 - V-GM-AUR-COS-9 (1K) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

Tue Nov 02 14:01:14 GMT 2021

Proposal 16108, V-GM-AUR-COS-9 (1K), failed
Diagnostic Status: Warning
 Scientific Instruments: COS/FUV, COS/NUV
 Special Requirements: SCHED 100%; AFTER 1C BY 180.4 Orbits TO 188.6 Orbits; BETWEEN 01-OCT-2021:00:00:00 AND 11-OCT-2021:08:10:00; BETWEEN 12-OCT-2021:17:00:00 AND 24-OCT-2021:04:15:00; BETWEEN 25-OCT-2021:17:20:00 AND 05-NOV-2021:21:10:00
 Comments: vstatus; 1K; V-GM-AUR; P/COS approved for submission; P/AH 19/07/21 ; intrev: complete ; P/WF 19/07/21
 vcheck; Enter targ name & Inst. & Resp. Sci.; GM Aur ; COS ; AH
 vcheck; ETC numbers entered in APT?; Yes
 vcheck; Any screening violations?; No
 vcheck; M-dwarf check complete and added to box folder?; N/A
 vcheck; S/N ETC calcs done & documented?; Yes
 vcheck; Field images checked & saved?; Yes ...
 located at: box/ullyses_tech/ullyses_proposals/monitor/16018/images/
 vcheck; Selected ACQ strategy?; Double ACQ/PeakXD+ACQ/PeakD, G230L, S/N = 40
 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
 vcheck; phase constraint for ground based observations added?; N/A
 vcheck; BETWEENS for coordinated observations added?; Yes ...
 01 OCT 2021 00:00 to 11 OCT 2021 08:10 and 12 OCT 2021 17:00 to 24 OCT 2021 04:15 and 25 OCT 2021 17:20 to 05 NOV 2021 21:10
 vcheck; Is visit ready for int. review?; Yes
 Allocated COS orbits = 12

Diagnosics
 (V-GM-AUR-COS-9 (1K)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

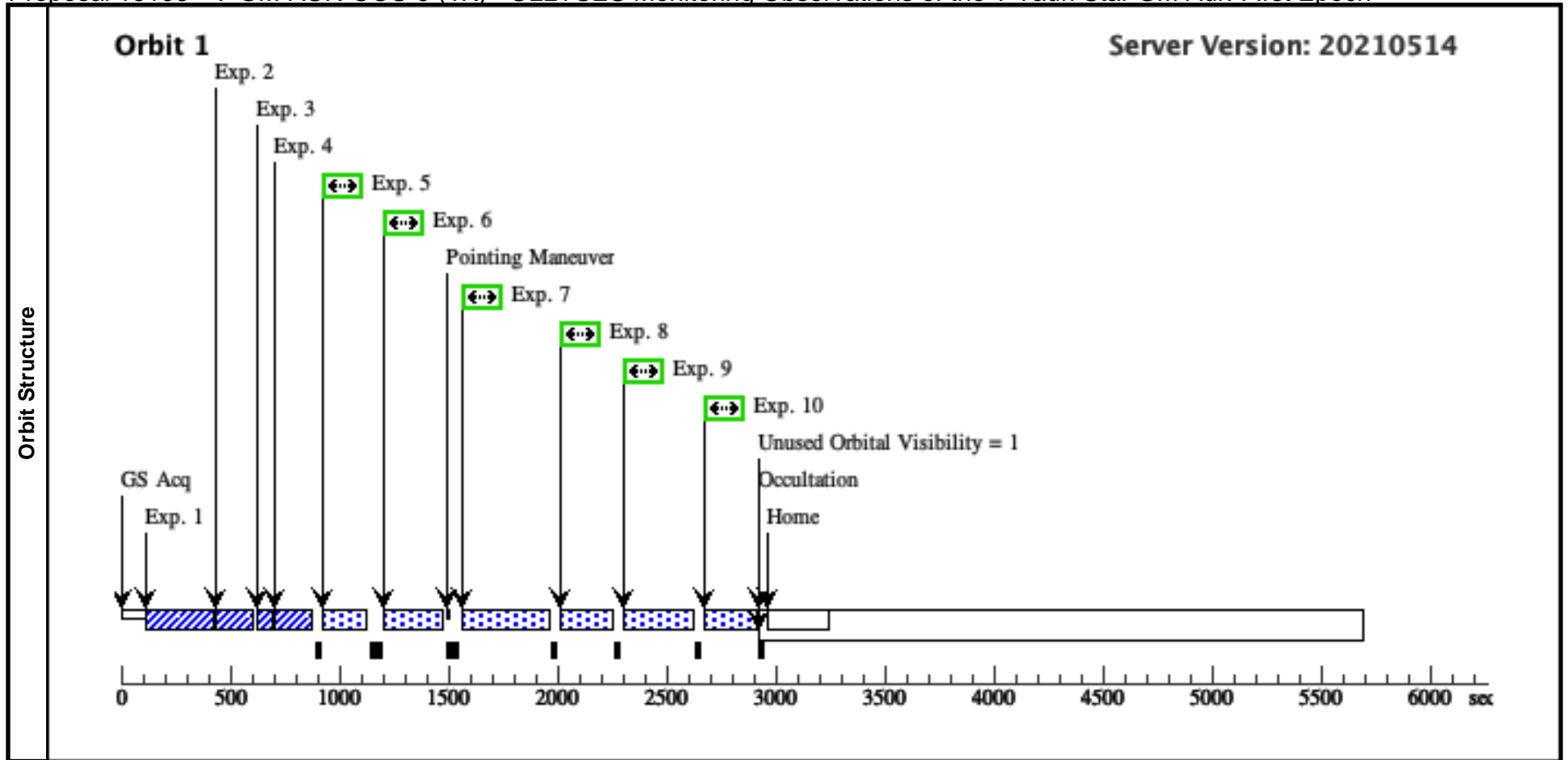
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	V-GM-AUR Alt Name1: 2MASS-J04551098+3021595 Alt Name2: HBC-77	RA: 04 55 10.9860 (73.7957750d) Dec: +30 21 59.00 (30.36639d) Equinox: J2000	Proper Motion RA: 3.012635677084487E-4 sec of time/yr Proper Motion Dec: -0.02445099994474731 arcsec/yr Epoch of Position: 2015.5	V=12.242 SpT=K3, U=14.59, B=13.35, V=12.24, R=11.80, G=11.70, J=9.34, H=8.60, K=8.28	Reference Frame: ICRS
<p>Comments: tstatus; V-GM-AUR ; P/COS approved for submission; S/ins not started; P/AH 19/07/21; S/xx DD/MM/YY tcheck; APT/SIMBAD target names: ; V-GM-AUR ... Default SIMBAD name is V* GM Aur, aka 2MASS J04551098+3021595 tcheck; Target info verification status?; OK ... spectral type and magnitudes seem to be consistent Flam(B) = 2.6e-10 at 4444 Angstroms and Flam(V) = 4.7e-10 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD tcheck; Coordinates & P.M. verified, epoch checked?; OK ... SIMBAD coordinates check out with what's here, SIMBAD PM values check out with what's here tcheck; Adopted SED compared to Observations?; Yes ... located at: box/ullyses_tech/ullyses_proposals/monitor/16018/seds/ Category=STAR Description=[PRE-MAIN SEQUENCE STAR, T TAURI STAR] Extended=NO</p>					

Proposal 16108 - V-GM-AUR-COS-9 (1K) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF		5.8 Secs (5.8 Secs) [==>]	[1]	
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	2	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9			5.3 Secs (5.3 Secs) [==>]	[1]
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	3	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF			5.8 Secs (5.8 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
4	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9			5.3 Secs (5.3 Secs) [==>]	[1]	
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
5	G230L 2950 (COS.sp.152 2735)	(1) V-GM-AUR	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FP-POS=4; BUFFER-TIME=52 4			184 Secs (184 Secs) [==>]	[1]	
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522552). 362.4388 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 181.2194 seconds) to account for the other G230L cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522735) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522691) in order to determine bright object safety. Peak local rate of 5.943 counts per second and global rate of 2997.808, so it is safe. Buffer fill time = 786 seconds, and 2/3 of this is 524 seconds.</i></p>										

Proposal 16108 - V-GM-AUR-COS-9 (1K) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

6	G230L 2635 (1) V-GM-AUR (COS.sp.152 2737)	COS/NUV, TIME-TAG, PSA	G230L 2635 A	FP-POS=1; BUFFER-TIME=44 8	184 Secs (184 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522553). 364.1707 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 182.08535 seconds) to account for the other G230L cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522737) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522690) in order to determine bright object safety. Peak local rate of 5.927 counts per second and global rate of 2199.263, so it is safe. Buffer fill time = 672 seconds, and 2/3 of this is 448 seconds.</p>						
7	G160M 158 (1) V-GM-AUR 9-3 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=3; BUFFER-TIME=28 65	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</p>						
8	G160M 158 (1) V-GM-AUR 9-4 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=4; BUFFER-TIME=28 65	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</p>						
9	G160M 162 (1) V-GM-AUR 3-1 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; BUFFER-TIME=31 54	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</p>						
10	G160M 162 (1) V-GM-AUR 3-2 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=2; BUFFER-TIME=31 54	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</p>						



Proposal 16108 - V-GM-AUR-COS-9 (AK) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

Tue Nov 02 14:01:14 GMT 2021

Visit	<p>Proposal 16108, V-GM-AUR-COS-9 (AK)</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; AFTER AJ BY 19 Orbits TO 27.2 Orbits; BETWEEN 25-OCT-2021:17:20:00 AND 15-DEC-2021:21:10:00</p> <p><i>Comments: vstatus; 1K; V-GM-AUR; P/COS approved for submission; P/AH 19/07/21 ; intrev: complete ; P/WF 19/07/21</i></p> <p><i>vcheck; Enter targ name & Inst. & Resp. Sci.; GM Aur ; COS ; AH</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?; N/A</i></p> <p><i>vcheck; S/N ETC calcs done & documented?; Yes</i></p> <p><i>vcheck; Field images checked & saved?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/monitor/16018/images/</i></p> <p><i>vcheck; Selected ACQ strategy?; Double ACQ/PeakXD+ACQ/PeakD, G230L, 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>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>01 OCT 2021 00:00 to 11 OCT 2021 08:10 and 12 OCT 2021 17:00 to 24 OCT 2021 04:15 and 25 OCT 2021 17:20 to 05 NOV 2021 21:10</i></p> <p><i>vcheck; Is visit ready for int. review?; Yes</i></p> <p><i>Allocated COS orbits = 12</i></p>
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Diagnostics	<p>(V-GM-AUR-COS-9 (AK)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.</p>
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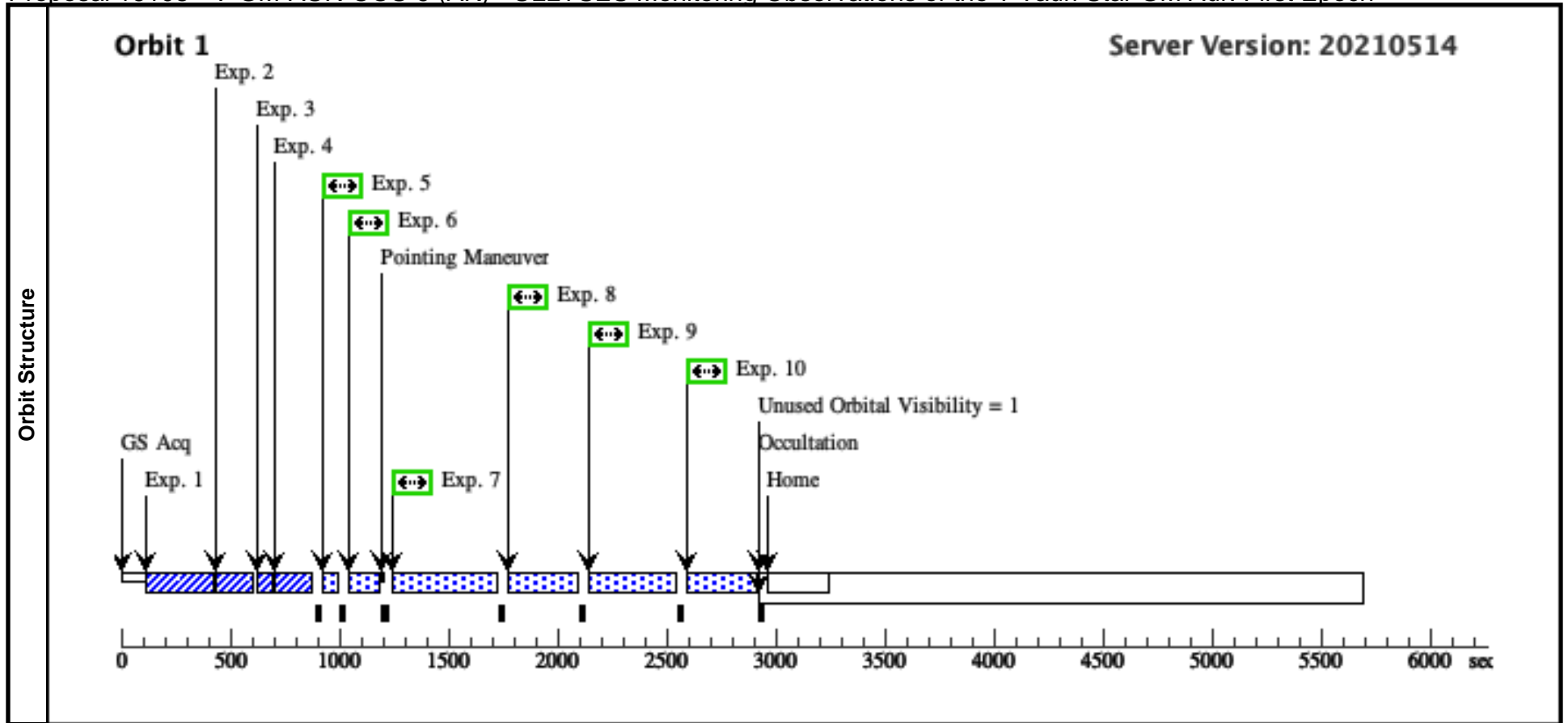
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>V-GM-AUR</td> <td>RA: 04 55 10.9860 (73.7957750d)</td> <td>Proper Motion RA: 3.012635677084487E-4 sec of time/yr</td> <td>V=12.242</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td>Alt Name1: 2MASS-J04551098+3021595</td> <td>Dec: +30 21 59.00 (30.36639d)</td> <td>Proper Motion Dec: -0.02445099994474731 arcsec/yr</td> <td>SpT=K3, U=14.59,</td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: HBC-77</td> <td>Equinox: J2000</td> <td>Epoch of Position: 2015.5</td> <td>B=13.35, V=12.24, R=11.80, G=11.70, J=9.34, H=8.60, K=8.28</td> <td></td> </tr> </tbody> </table> <p><i>Comments: tstatus; V-GM-AUR ; P/COS approved for submission; S/ins not started; P/AH 19/07/21; S/xx DD/MM/YY</i></p> <p><i>tcheck; APT/SIMBAD target names: ; V-GM-AUR ...</i></p> <p><i>Default SIMBAD name is V* GM Aur, aka 2MASS J04551098+3021595</i></p> <p><i>tcheck; Target info verification status?; OK ...</i></p> <p><i>spectral type and magnitudes seem to be consistent</i></p> <p><i>Flam(B) = 2.6e-10 at 4444 Angstroms and Flam(V) = 4.7e-10 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD</i></p> <p><i>tcheck; Coordinates & P.M. verified, epoch checked?; OK ...</i></p> <p><i>SIMBAD coordinates check out with what's here, SIMBAD PM values check out with what's here</i></p> <p><i>tcheck; Adopted SED compared to Observations?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/monitor/16018/seds/</i></p> <p><i>Category=STAR</i></p> <p><i>Description=[PRE-MAIN SEQUENCE STAR, T TAURI STAR]</i></p> <p><i>Extended=NO</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	V-GM-AUR	RA: 04 55 10.9860 (73.7957750d)	Proper Motion RA: 3.012635677084487E-4 sec of time/yr	V=12.242	Reference Frame: ICRS		Alt Name1: 2MASS-J04551098+3021595	Dec: +30 21 59.00 (30.36639d)	Proper Motion Dec: -0.02445099994474731 arcsec/yr	SpT=K3, U=14.59,			Alt Name2: HBC-77	Equinox: J2000	Epoch of Position: 2015.5	B=13.35, V=12.24, R=11.80, G=11.70, J=9.34, H=8.60, K=8.28	
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																				
(1)	V-GM-AUR	RA: 04 55 10.9860 (73.7957750d)	Proper Motion RA: 3.012635677084487E-4 sec of time/yr	V=12.242	Reference Frame: ICRS																				
	Alt Name1: 2MASS-J04551098+3021595	Dec: +30 21 59.00 (30.36639d)	Proper Motion Dec: -0.02445099994474731 arcsec/yr	SpT=K3, U=14.59,																					
	Alt Name2: HBC-77	Equinox: J2000	Epoch of Position: 2015.5	B=13.35, V=12.24, R=11.80, G=11.70, J=9.34, H=8.60, K=8.28																					

Proposal 16108 - V-GM-AUR-COS-9 (AK) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF		5.8 Secs (5.8 Secs) [==>]	[1]	
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	2	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9			5.3 Secs (5.3 Secs) [==>]	[1]
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	3	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF			5.8 Secs (5.8 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
4	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9			5.3 Secs (5.3 Secs) [==>]	[1]	
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
5	G230L 2950 (COS.sp.152 2735)	(1) V-GM-AUR	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FP-POS=4; BUFFER-TIME=52 4			50 Secs (50 Secs) [==>]	[1]	
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522552). 362.4388 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 181.2194 seconds) to account for the other G230L cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522735) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522691) in order to determine bright object safety. Peak local rate of 5.943 counts per second and global rate of 2997.808, so it is safe. Buffer fill time = 786 seconds, and 2/3 of this is 524 seconds.</i></p>										

Proposal 16108 - V-GM-AUR-COS-9 (AK) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

6	G230L 2635 (1) V-GM-AUR (COS.sp.152 2737)	COS/NUV, TIME-TAG, PSA	G230L 2635 A	FP-POS=1; BUFFER-TIME=44 8	50 Secs (50 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522553). 364.1707 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 182.08535 seconds) to account for the other G230L cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522737) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522690) in order to determine bright object safety. Peak local rate of 5.927 counts per second and global rate of 2199.263, so it is safe. Buffer fill time = 672 seconds, and 2/3 of this is 448 seconds.</i></p>						
7	G160M 158 (1) V-GM-AUR 9-3 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=3; BUFFER-TIME=28 65	265 Secs (265 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</i></p>						
8	G160M 158 (1) V-GM-AUR 9-4 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=4; BUFFER-TIME=28 65	265 Secs (265 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</i></p>						
9	G160M 162 (1) V-GM-AUR 3-1 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; BUFFER-TIME=31 54	265 Secs (265 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</i></p>						
10	G160M 162 (1) V-GM-AUR 3-2 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=2; BUFFER-TIME=31 54	265 Secs (265 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</i></p>						



Proposal 16108 - V-GM-AUR-COS-10 (1L) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

Tue Nov 02 14:01:14 GMT 2021

Proposal 16108, V-GM-AUR-COS-10 (1L), failed
Diagnostic Status: Warning
 Scientific Instruments: COS/FUV, COS/NUV
 Special Requirements: SCHED 100%; AFTER 1C BY 203.5 Orbits TO 213.2 Orbits; BETWEEN 01-OCT-2021:00:00:00 AND 11-OCT-2021:08:10:00; BETWEEN 12-OCT-2021:17:00:00 AND 24-OCT-2021:04:15:00; BETWEEN 25-OCT-2021:17:20:00 AND 05-NOV-2021:21:10:00
Comments: vstatus; 1L; V-GM-AUR; P/COS approved for submission; P/AH 19/07/21 ; intrev: complete ; P/WF 19/07/21
vcheck; Enter targ name & Inst. & Resp. Sci.; GM Aur ; COS ; AH
vcheck; ETC numbers entered in APT?; Yes
vcheck; Any screening violations?; No
vcheck; M-dwarf check complete and added to box folder?; N/A
vcheck; S/N ETC calcs done & documented?; Yes
vcheck; Field images checked & saved?; Yes ...
located at: box/ullyses_tech/ullyses_proposals/monitor/16018/images/
vcheck; Selected ACQ strategy?; Double ACQ/PeakXD+ACQ/PeakD, G230L, S/N = 40
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
vcheck; phase constraint for ground based observations added?; N/A
vcheck; BETWEENS for coordinated observations added?; Yes ...
01 OCT 2021 00:00 to 11 OCT 2021 08:10 and 12 OCT 2021 17:00 to 24 OCT 2021 04:15 and 25 OCT 2021 17:20 to 05 NOV 2021 21:10
vcheck; Is visit ready for int. review?; Yes
Allocated COS orbits = 12

Diagnosics
 (V-GM-AUR-COS-10 (1L)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

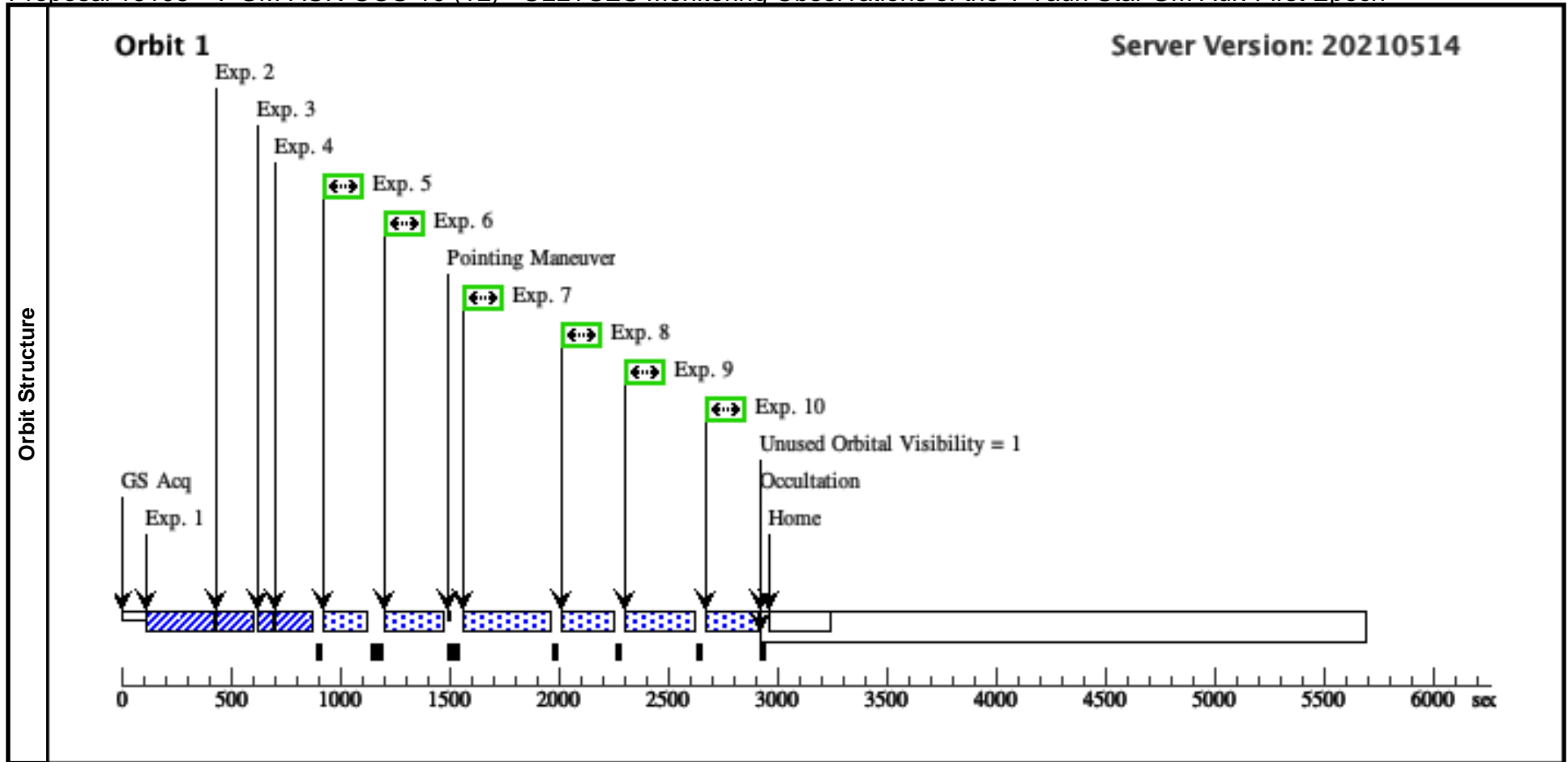
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	V-GM-AUR Alt Name1: 2MASS-J04551098+3021595 Alt Name2: HBC-77	RA: 04 55 10.9860 (73.7957750d) Dec: +30 21 59.00 (30.36639d) Equinox: J2000	Proper Motion RA: 3.012635677084487E-4 sec of time/yr Proper Motion Dec: -0.02445099994474731 arcsec/yr Epoch of Position: 2015.5	V=12.242 SpT=K3, U=14.59, B=13.35, V=12.24, R=11.80, G=11.70, J=9.34, H=8.60, K=8.28	Reference Frame: ICRS
<p><i>Comments: tstatus; V-GM-AUR ; P/COS approved for submission; S/ins not started; P/AH 19/07/21; S/xx DD/MM/YY</i> <i>tcheck; APT/SIMBAD target names: ; V-GM-AUR ...</i> <i>Default SIMBAD name is V* GM Aur, aka 2MASS J04551098+3021595</i> <i>tcheck; Target info verification status?; OK ...</i> <i>spectral type and magnitudes seem to be consistent</i> <i>Flam(B) = 2.6e-10 at 4444 Angstroms and Flam(V) = 4.7e-10 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD</i> <i>tcheck; Coordinates & P.M. verified, epoch checked?; OK ...</i> <i>SIMBAD coordinates check out with what's here, SIMBAD PM values check out with what's here</i> <i>tcheck; Adopted SED compared to Observations?; Yes ...</i> <i>located at: box/ullyses_tech/ullyses_proposals/monitor/16018/seds/</i> Category=STAR Description=[PRE-MAIN SEQUENCE STAR, T TAURI STAR] Extended=NO</p>					

Proposal 16108 - V-GM-AUR-COS-10 (1L) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF		5.8 Secs (5.8 Secs) [==>]	[1]	
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	2	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9		5.3 Secs (5.3 Secs) [==>]	[1]	
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	3	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF		5.8 Secs (5.8 Secs) [==>]	[1]	
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
4	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9		5.3 Secs (5.3 Secs) [==>]	[1]		
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
5	G230L 2950 (COS.sp.152 2735)	(1) V-GM-AUR	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FP-POS=4; BUFFER-TIME=52 4		184 Secs (184 Secs) [==>]	[1]		
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522552). 362.4388 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 181.2194 seconds) to account for the other G230L cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522735) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522691) in order to determine bright object safety. Peak local rate of 5.943 counts per second and global rate of 2997.808, so it is safe. Buffer fill time = 786 seconds, and 2/3 of this is 524 seconds.</i></p>										

Proposal 16108 - V-GM-AUR-COS-10 (1L) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

6	G230L 2635 (1) V-GM-AUR (COS.sp.152 2737)	COS/NUV, TIME-TAG, PSA	G230L 2635 A	FP-POS=1; BUFFER-TIME=44 8	184 Secs (184 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522553). 364.1707 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 182.08535 seconds) to account for the other G230L cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522737) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522690) in order to determine bright object safety. Peak local rate of 5.927 counts per second and global rate of 2199.263, so it is safe. Buffer fill time = 672 seconds, and 2/3 of this is 448 seconds.</p>						
7	G160M 158 (1) V-GM-AUR 9-3 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=3; BUFFER-TIME=28 65	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</p>						
8	G160M 158 (1) V-GM-AUR 9-4 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=4; BUFFER-TIME=28 65	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</p>						
9	G160M 162 (1) V-GM-AUR 3-1 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; BUFFER-TIME=31 54	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</p>						
10	G160M 162 (1) V-GM-AUR 3-2 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=2; BUFFER-TIME=31 54	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</p>						



Proposal 16108 - V-GM-AUR-COS-10 (AL) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

Tue Nov 02 14:01:14 GMT 2021

Visit	<p>Proposal 16108, V-GM-AUR-COS-10 (AL)</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; AFTER AJ BY 42 Orbits TO 50.2 Orbits; BETWEEN 25-OCT-2021:17:20:00 AND 15-DEC-2021:21:10:00</p> <p><i>Comments: vstatus; 1L; V-GM-AUR; P/COS approved for submission; P/AH 19/07/21 ; intrev: complete ; P/WF 19/07/21</i></p> <p><i>vcheck; Enter targ name & Inst. & Resp. Sci.; GM Aur ; COS ; AH</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?; N/A</i></p> <p><i>vcheck; S/N ETC calcs done & documented?; Yes</i></p> <p><i>vcheck; Field images checked & saved?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/monitor/16018/images/</i></p> <p><i>vcheck; Selected ACQ strategy?; Double ACQ/PeakXD+ACQ/PeakD, G230L, 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>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>01 OCT 2021 00:00 to 11 OCT 2021 08:10 and 12 OCT 2021 17:00 to 24 OCT 2021 04:15 and 25 OCT 2021 17:20 to 05 NOV 2021 21:10</i></p> <p><i>vcheck; Is visit ready for int. review?; Yes</i></p> <p><i>Allocated COS orbits = 12</i></p>
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Diagnostics	<p>(V-GM-AUR-COS-10 (AL)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.</p>
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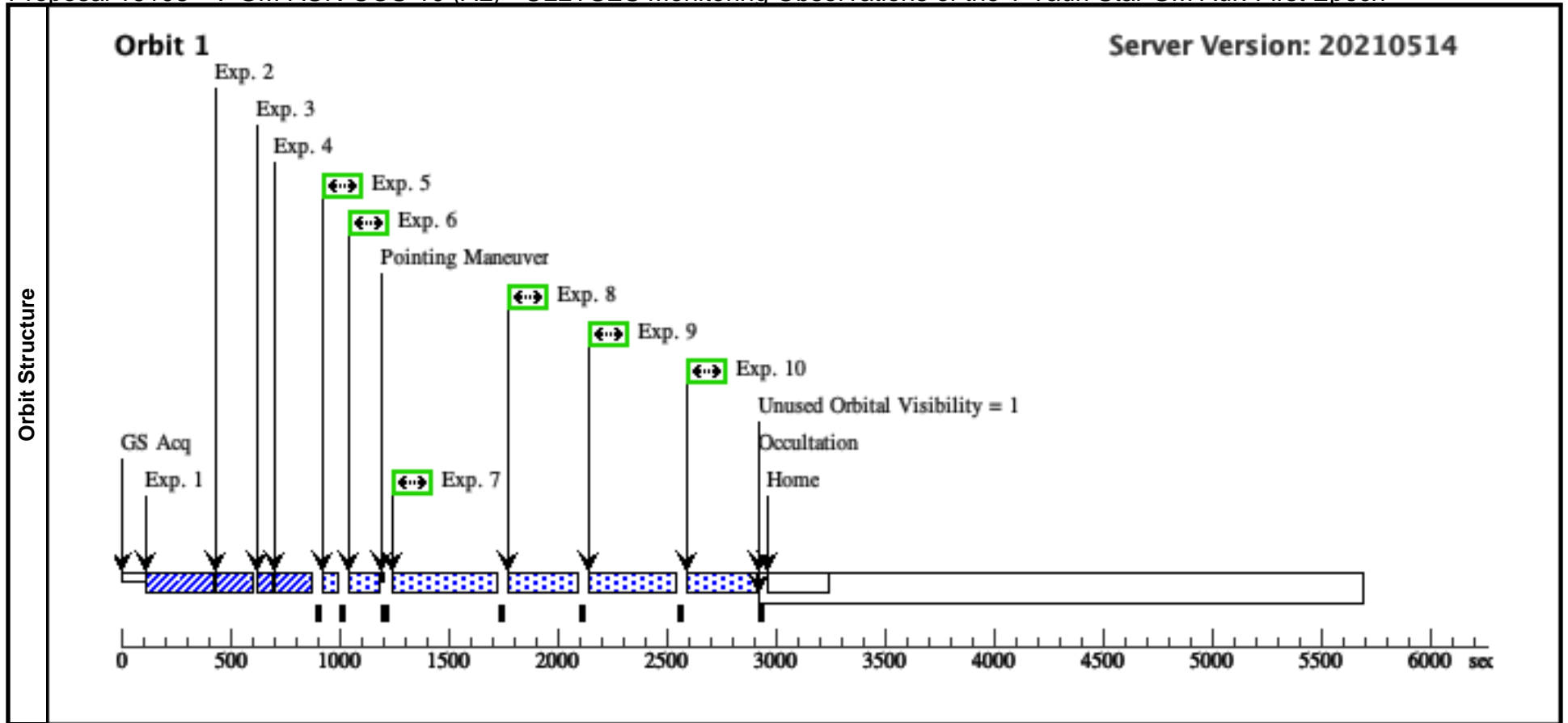
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	V-GM-AUR	RA: 04 55 10.9860 (73.7957750d)	Proper Motion RA: 3.012635677084487E-4 sec of time/yr	V=12.242	Reference Frame: ICRS
		Alt Name1: 2MASS-J04551098+3021595	Dec: +30 21 59.00 (30.36639d)	Proper Motion Dec: -0.02445099994474731 arcsec/yr	SpT=K3, U=14.59,	
		Alt Name2: HBC-77	Equinox: J2000	Epoch of Position: 2015.5	B=13.35, V=12.24, R=11.80, G=11.70, J=9.34, H=8.60, K=8.28	
	<p><i>Comments: tstatus; V-GM-AUR ; P/COS approved for submission; S/ins not started; P/AH 19/07/21; S/xx DD/MM/YY</i></p> <p><i>tcheck; APT/SIMBAD target names: ; V-GM-AUR ...</i></p> <p><i>Default SIMBAD name is V* GM Aur, aka 2MASS J04551098+3021595</i></p> <p><i>tcheck; Target info verification status?; OK ...</i></p> <p><i>spectral type and magnitudes seem to be consistent</i></p> <p><i>Flam(B) = 2.6e-10 at 4444 Angstroms and Flam(V) = 4.7e-10 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD</i></p> <p><i>tcheck; Coordinates & P.M. verified, epoch checked?; OK ...</i></p> <p><i>SIMBAD coordinates check out with what's here, SIMBAD PM values check out with what's here</i></p> <p><i>tcheck; Adopted SED compared to Observations?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/monitor/16018/seds/</i></p> <p><i>Category=STAR</i></p> <p><i>Description=[PRE-MAIN SEQUENCE STAR, T TAURI STAR]</i></p> <p><i>Extended=NO</i></p>					

Proposal 16108 - V-GM-AUR-COS-10 (AL) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF		5.8 Secs (5.8 Secs) [==>]	[1]	
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	2	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9			5.3 Secs (5.3 Secs) [==>]	[1]
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	3	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF			5.8 Secs (5.8 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
4	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9			5.3 Secs (5.3 Secs) [==>]	[1]	
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
5	G230L 2950 (COS.sp.152 2735)	(1) V-GM-AUR	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FP-POS=4; BUFFER-TIME=52 4			50 Secs (50 Secs) [==>]	[1]	
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522552). 362.4388 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 181.2194 seconds) to account for the other G230L cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522735) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522691) in order to determine bright object safety. Peak local rate of 5.943 counts per second and global rate of 2997.808, so it is safe. Buffer fill time = 786 seconds, and 2/3 of this is 524 seconds.</i></p>										

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6	G230L 2635 (1) V-GM-AUR (COS.sp.152 2737)	COS/NUV, TIME-TAG, PSA	G230L 2635 A	FP-POS=1; BUFFER-TIME=44 8	50 Secs (50 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522553). 364.1707 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 182.08535 seconds) to account for the other G230L cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522737) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522690) in order to determine bright object safety. Peak local rate of 5.927 counts per second and global rate of 2199.263, so it is safe. Buffer fill time = 672 seconds, and 2/3 of this is 448 seconds.</p>						
7	G160M 158 (1) V-GM-AUR 9-3 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=3; BUFFER-TIME=28 65	265 Secs (265 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</p>						
8	G160M 158 (1) V-GM-AUR 9-4 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=4; BUFFER-TIME=28 65	265 Secs (265 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</p>						
9	G160M 162 (1) V-GM-AUR 3-1 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; BUFFER-TIME=31 54	265 Secs (265 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</p>						
10	G160M 162 (1) V-GM-AUR 3-2 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=2; BUFFER-TIME=31 54	265 Secs (265 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</p>						



Proposal 16108 - V-GM-AUR-COS-11 (1M) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

Tue Nov 02 14:01:14 GMT 2021

Proposal 16108, V-GM-AUR-COS-11 (1M), failed

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%; AFTER 1C BY 226.6 Orbits TO 234.8 Orbits; BETWEEN 01-OCT-2021:00:00:00 AND 11-OCT-2021:08:10:00; BETWEEN 12-OCT-2021:17:00:00 AND 24-OCT-2021:04:15:00; BETWEEN 25-OCT-2021:17:20:00 AND 05-NOV-2021:21:10:00

Comments: vstatus; 1M; V-GM-AUR; P/COS approved for submission; P/AH 19/07/21 ; intrev: complete ; P/WF 19/07/21

vcheck; Enter targ name & Inst. & Resp. Sci.; GM Aur ; COS ; AH

vcheck; ETC numbers entered in APT?; Yes

vcheck; Any screening violations?; No

vcheck; M-dwarf check complete and added to box folder?; N/A

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

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

located at: box/ullyses_tech/ullyses_proposals/monitor/16018/images/

vcheck; Selected ACQ strategy?; Double ACQ/PeakXD+ACQ/PeakD, G230L, S/N = 40

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

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

vcheck; BETWEENS for coordinated observations added?; Yes ...

01 OCT 2021 00:00 to 11 OCT 2021 08:10 and 12 OCT 2021 17:00 to 24 OCT 2021 04:15 and 25 OCT 2021 17:20 to 05 NOV 2021 21:10

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

Allocated COS orbits = 12

Diagnosics

(V-GM-AUR-COS-11 (1M)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

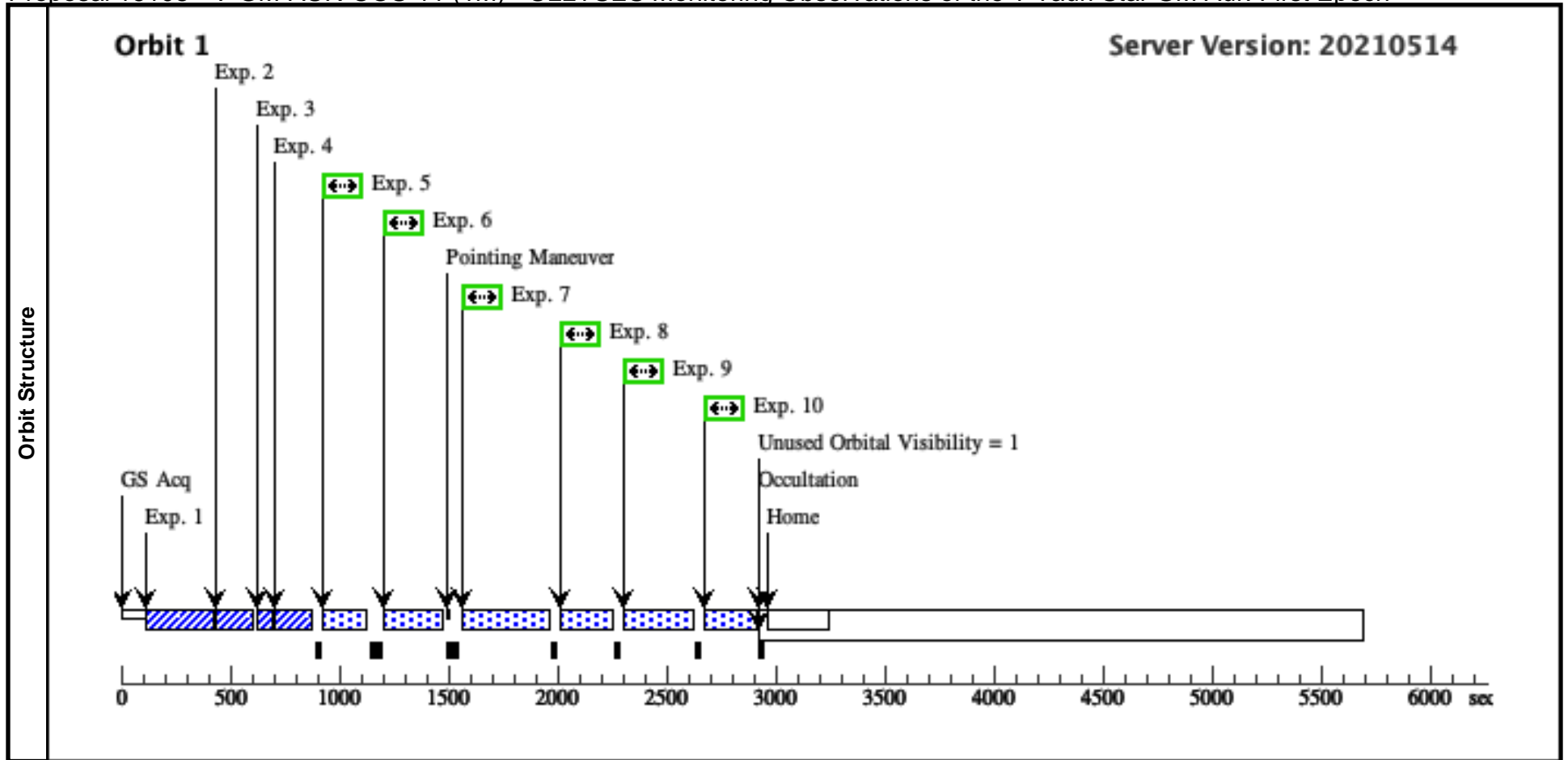
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	V-GM-AUR Alt Name1: 2MASS-J04551098+3021595 Alt Name2: HBC-77	RA: 04 55 10.9860 (73.7957750d) Dec: +30 21 59.00 (30.36639d) Equinox: J2000	Proper Motion RA: 3.012635677084487E-4 sec of time/yr Proper Motion Dec: -0.02445099994474731 arcsec/yr Epoch of Position: 2015.5	V=12.242 SpT=K3, U=14.59, B=13.35, V=12.24, R=11.80, G=11.70, J=9.34, H=8.60, K=8.28	Reference Frame: ICRS
<p><i>Comments: tstatus; V-GM-AUR ; P/COS approved for submission; S/ins not started; P/AH 19/07/21; S/xx DD/MM/YY</i></p> <p><i>tcheck; APT/SIMBAD target names: ; V-GM-AUR ...</i></p> <p><i>Default SIMBAD name is V* GM Aur, aka 2MASS J04551098+3021595</i></p> <p><i>tcheck; Target info verification status?; OK ...</i></p> <p><i>spectral type and magnitudes seem to be consistent</i></p> <p><i>Flam(B) = 2.6e-10 at 4444 Angstroms and Flam(V) = 4.7e-10 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD</i></p> <p><i>tcheck; Coordinates & P.M. verified, epoch checked?; OK ...</i></p> <p><i>SIMBAD coordinates check out with what's here, SIMBAD PM values check out with what's here</i></p> <p><i>tcheck; Adopted SED compared to Observations?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/monitor/16018/seds/</i></p> <p>Category=STAR</p> <p>Description=[PRE-MAIN SEQUENCE STAR, T TAURI STAR]</p> <p>Extended=NO</p>					

Proposal 16108 - V-GM-AUR-COS-11 (1M) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF		5.8 Secs (5.8 Secs) [==>]	[1]	
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	2	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9			5.3 Secs (5.3 Secs) [==>]	[1]
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	3	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF			5.8 Secs (5.8 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
4	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9			5.3 Secs (5.3 Secs) [==>]	[1]	
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
5	G230L 2950 (COS.sp.152 2735)	(1) V-GM-AUR	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FP-POS=4; BUFFER-TIME=52 4			184 Secs (184 Secs) [==>]	[1]	
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522552). 362.4388 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 181.2194 seconds) to account for the other G230L cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522735) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522691) in order to determine bright object safety. Peak local rate of 5.943 counts per second and global rate of 2997.808, so it is safe. Buffer fill time = 786 seconds, and 2/3 of this is 524 seconds.</i></p>										

Proposal 16108 - V-GM-AUR-COS-11 (1M) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

6	G230L 2635 (1) V-GM-AUR (COS.sp.152 2737)	COS/NUV, TIME-TAG, PSA	G230L 2635 A	FP-POS=1; BUFFER-TIME=44 8	184 Secs (184 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522553). 364.1707 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 182.08535 seconds) to account for the other G230L cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522737) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522690) in order to determine bright object safety. Peak local rate of 5.927 counts per second and global rate of 2199.263, so it is safe. Buffer fill time = 672 seconds, and 2/3 of this is 448 seconds.</p>						
7	G160M 158 (1) V-GM-AUR 9-3 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=3; BUFFER-TIME=28 65	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</p>						
8	G160M 158 (1) V-GM-AUR 9-4 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=4; BUFFER-TIME=28 65	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</p>						
9	G160M 162 (1) V-GM-AUR 3-1 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; BUFFER-TIME=31 54	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</p>						
10	G160M 162 (1) V-GM-AUR 3-2 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=2; BUFFER-TIME=31 54	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</p>						



Proposal 16108 - V-GM-AUR-COS-11 (AM) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

Tue Nov 02 14:01:14 GMT 2021

Visit	<p>Proposal 16108, V-GM-AUR-COS-11 (AM)</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; AFTER AJ BY 65.1 Orbits TO 73.3 Orbits; BETWEEN 25-OCT-2021:17:20:00 AND 15-DEC-2021:21:10:00</p> <p><i>Comments: vstatus; 1M; V-GM-AUR; P/COS approved for submission; P/AH 19/07/21 ; intrev: complete ; P/WF 19/07/21</i></p> <p><i>vcheck; Enter targ name & Inst. & Resp. Sci.; GM Aur ; COS ; AH</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?; N/A</i></p> <p><i>vcheck; S/N ETC calcs done & documented?; Yes</i></p> <p><i>vcheck; Field images checked & saved?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/monitor/16018/images/</i></p> <p><i>vcheck; Selected ACQ strategy?; Double ACQ/PeakXD+ACQ/PeakD, G230L, 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>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>01 OCT 2021 00:00 to 11 OCT 2021 08:10 and 12 OCT 2021 17:00 to 24 OCT 2021 04:15 and 25 OCT 2021 17:20 to 05 NOV 2021 21:10</i></p> <p><i>vcheck; Is visit ready for int. review?; Yes</i></p> <p><i>Allocated COS orbits = 12</i></p>
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Diagnostics	<p>(V-GM-AUR-COS-11 (AM)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.</p>
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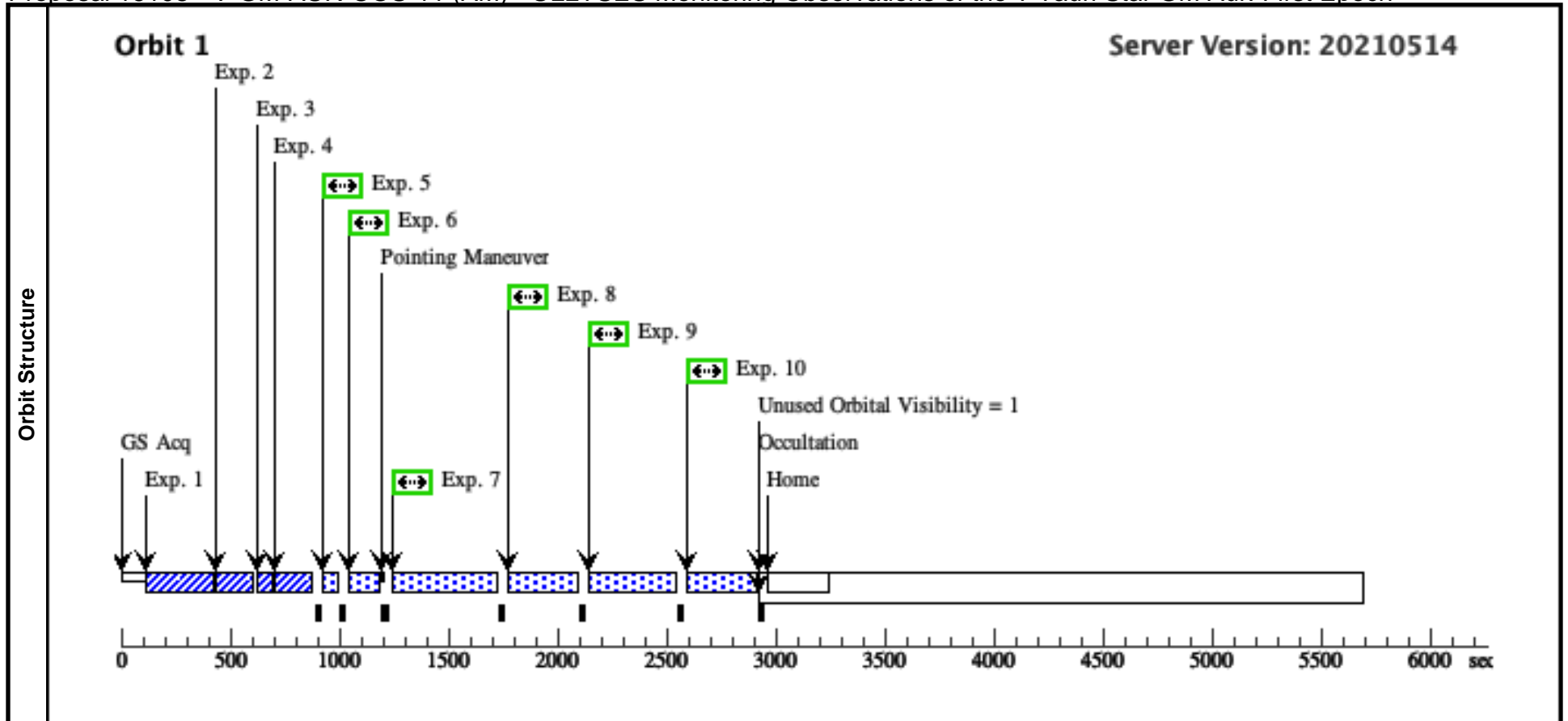
Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>V-GM-AUR</td> <td>RA: 04 55 10.9860 (73.7957750d)</td> <td>Proper Motion RA: 3.012635677084487E-4 sec of time/yr</td> <td>V=12.242</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td>Alt Name1: 2MASS-J04551098+3021595</td> <td>Dec: +30 21 59.00 (30.36639d)</td> <td>Proper Motion Dec: -0.02445099994474731 arcsec/yr</td> <td>SpT=K3, U=14.59,</td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: HBC-77</td> <td>Equinox: J2000</td> <td>Epoch of Position: 2015.5</td> <td>B=13.35, V=12.24, R=11.80, G=11.70, J=9.34, H=8.60, K=8.28</td> <td></td> </tr> </tbody> </table> <p><i>Comments: tstatus; V-GM-AUR ; P/COS approved for submission; S/ins not started; P/AH 19/07/21; S/xx DD/MM/YY</i></p> <p><i>tcheck; APT/SIMBAD target names: ; V-GM-AUR ...</i></p> <p><i>Default SIMBAD name is V* GM Aur, aka 2MASS J04551098+3021595</i></p> <p><i>tcheck; Target info verification status?; OK ...</i></p> <p><i>spectral type and magnitudes seem to be consistent</i></p> <p><i>Flam(B) = 2.6e-10 at 4444 Angstroms and Flam(V) = 4.7e-10 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD</i></p> <p><i>tcheck; Coordinates & P.M. verified, epoch checked?; OK ...</i></p> <p><i>SIMBAD coordinates check out with what's here, SIMBAD PM values check out with what's here</i></p> <p><i>tcheck; Adopted SED compared to Observations?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/monitor/16018/seds/</i></p> <p><i>Category=STAR</i></p> <p><i>Description=[PRE-MAIN SEQUENCE STAR, T TAURI STAR]</i></p> <p><i>Extended=NO</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	V-GM-AUR	RA: 04 55 10.9860 (73.7957750d)	Proper Motion RA: 3.012635677084487E-4 sec of time/yr	V=12.242	Reference Frame: ICRS		Alt Name1: 2MASS-J04551098+3021595	Dec: +30 21 59.00 (30.36639d)	Proper Motion Dec: -0.02445099994474731 arcsec/yr	SpT=K3, U=14.59,			Alt Name2: HBC-77	Equinox: J2000	Epoch of Position: 2015.5	B=13.35, V=12.24, R=11.80, G=11.70, J=9.34, H=8.60, K=8.28	
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																				
(1)	V-GM-AUR	RA: 04 55 10.9860 (73.7957750d)	Proper Motion RA: 3.012635677084487E-4 sec of time/yr	V=12.242	Reference Frame: ICRS																				
	Alt Name1: 2MASS-J04551098+3021595	Dec: +30 21 59.00 (30.36639d)	Proper Motion Dec: -0.02445099994474731 arcsec/yr	SpT=K3, U=14.59,																					
	Alt Name2: HBC-77	Equinox: J2000	Epoch of Position: 2015.5	B=13.35, V=12.24, R=11.80, G=11.70, J=9.34, H=8.60, K=8.28																					

Proposal 16108 - V-GM-AUR-COS-11 (AM) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF		5.8 Secs (5.8 Secs) [==>]	[1]	
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	2	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9		5.3 Secs (5.3 Secs) [==>]	[1]	
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	3	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF		5.8 Secs (5.8 Secs) [==>]	[1]	
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
4	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9		5.3 Secs (5.3 Secs) [==>]	[1]		
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
5	G230L 2950 (COS.sp.152 2735)	(1) V-GM-AUR	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FP-POS=4; BUFFER-TIME=52 4		50 Secs (50 Secs) [==>]	[1]		
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522552). 362.4388 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 181.2194 seconds) to account for the other G230L cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522735) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522691) in order to determine bright object safety. Peak local rate of 5.943 counts per second and global rate of 2997.808, so it is safe. Buffer fill time = 786 seconds, and 2/3 of this is 524 seconds.</i></p>										

Proposal 16108 - V-GM-AUR-COS-11 (AM) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

6	G230L 2635 (1) V-GM-AUR (COS.sp.152 2737)	COS/NUV, TIME-TAG, PSA	G230L 2635 A	FP-POS=1; BUFFER-TIME=44 8	50 Secs (50 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522553). 364.1707 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 182.08535 seconds) to account for the other G230L cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522737) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522690) in order to determine bright object safety. Peak local rate of 5.927 counts per second and global rate of 2199.263, so it is safe. Buffer fill time = 672 seconds, and 2/3 of this is 448 seconds.</p>						
7	G160M 158 (1) V-GM-AUR 9-3 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=3; BUFFER-TIME=28 65	265 Secs (265 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</p>						
8	G160M 158 (1) V-GM-AUR 9-4 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=4; BUFFER-TIME=28 65	265 Secs (265 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</p>						
9	G160M 162 (1) V-GM-AUR 3-1 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; BUFFER-TIME=31 54	265 Secs (265 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</p>						
10	G160M 162 (1) V-GM-AUR 3-2 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=2; BUFFER-TIME=31 54	265 Secs (265 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</p>						



Proposal 16108 - V-GM-AUR-COS-12 (1N) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

Tue Nov 02 14:01:14 GMT 2021

Proposal 16108, V-GM-AUR-COS-12 (1N), failed

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%; AFTER 1C BY 249.6 Orbits TO 257.8 Orbits; BETWEEN 01-OCT-2021:00:00:00 AND 11-OCT-2021:08:10:00; BETWEEN 12-OCT-2021:17:00:00 AND 24-OCT-2021:04:15:00; BETWEEN 25-OCT-2021:17:20:00 AND 05-NOV-2021:21:10:00

Comments: vstatus; 1N; V-GM-AUR; P/COS approved for submission; P/AH 19/07/21 ; intrev: complete ; P/WF 19/07/21

vcheck; Enter targ name & Inst. & Resp. Sci.; GM Aur ; COS ; AH

vcheck; ETC numbers entered in APT?; Yes

vcheck; Any screening violations?; No

vcheck; M-dwarf check complete and added to box folder?; N/A

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

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

located at: box/ullyses_tech/ullyses_proposals/monitor/16018/images/

vcheck; Selected ACQ strategy?; Double ACQ/PeakXD+ACQ/PeakD, G230L, S/N = 40

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

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

vcheck; BETWEENS for coordinated observations added?; Yes ...

01 OCT 2021 00:00 to 11 OCT 2021 08:10 and 12 OCT 2021 17:00 to 24 OCT 2021 04:15 and 25 OCT 2021 17:20 to 05 NOV 2021 21:10

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

Allocated COS orbits = 12

Diagnosics

(V-GM-AUR-COS-12 (1N)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

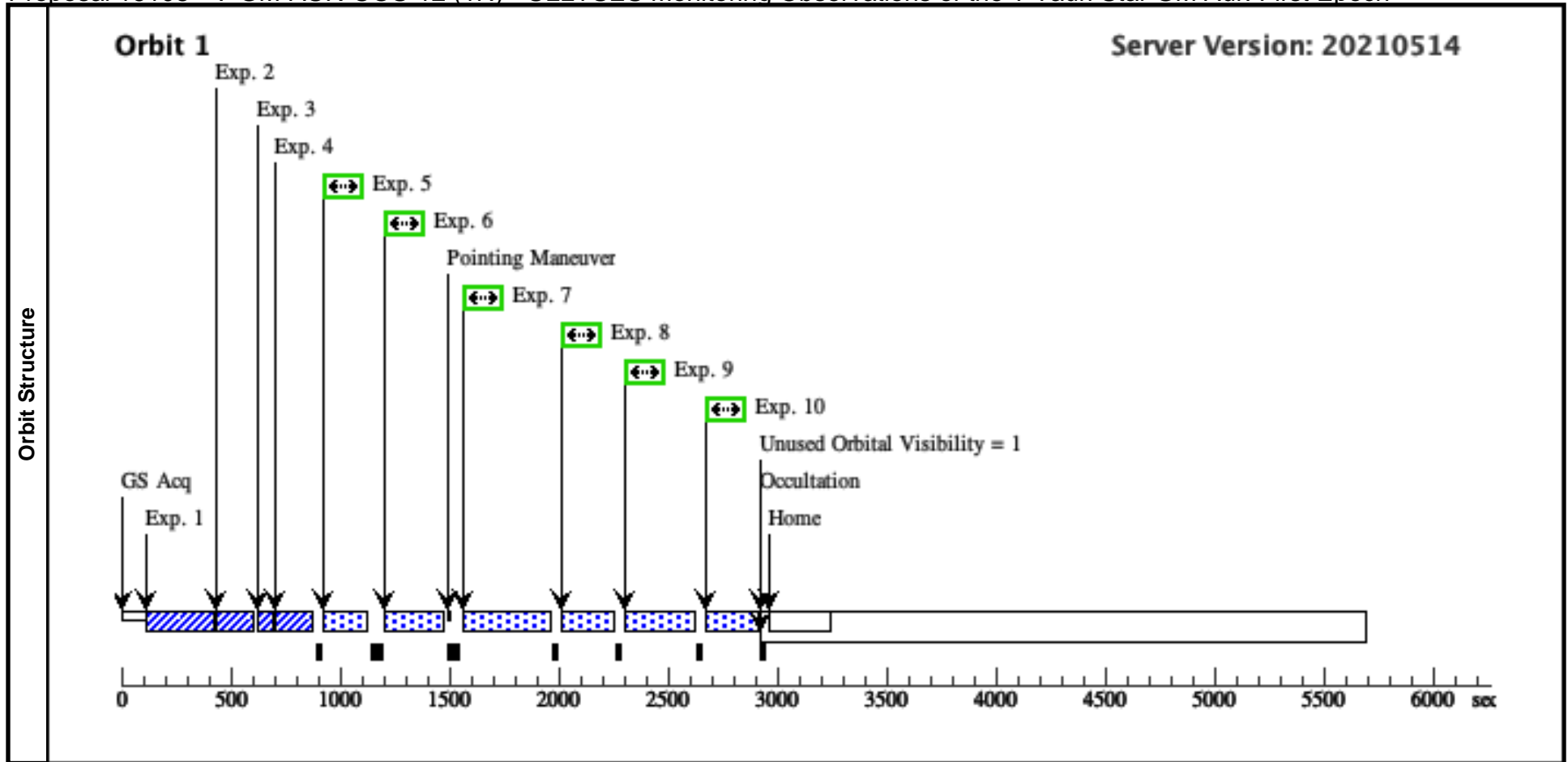
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	V-GM-AUR Alt Name1: 2MASS-J04551098+3021595 Alt Name2: HBC-77	RA: 04 55 10.9860 (73.7957750d) Dec: +30 21 59.00 (30.36639d) Equinox: J2000	Proper Motion RA: 3.012635677084487E-4 sec of time/yr Proper Motion Dec: -0.02445099994474731 arcsec/yr Epoch of Position: 2015.5	V=12.242 SpT=K3, U=14.59, B=13.35, V=12.24, R=11.80, G=11.70, J=9.34, H=8.60, K=8.28	Reference Frame: ICRS
<p><i>Comments: tstatus; V-GM-AUR ; P/COS approved for submission; S/ins not started; P/AH 19/07/21; S/xx DD/MM/YY</i></p> <p><i>tcheck; APT/SIMBAD target names: ; V-GM-AUR ...</i></p> <p><i>Default SIMBAD name is V* GM Aur, aka 2MASS J04551098+3021595</i></p> <p><i>tcheck; Target info verification status?; OK ...</i></p> <p><i>spectral type and magnitudes seem to be consistent</i></p> <p><i>Flam(B) = 2.6e-10 at 4444 Angstroms and Flam(V) = 4.7e-10 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD</i></p> <p><i>tcheck; Coordinates & P.M. verified, epoch checked?; OK ...</i></p> <p><i>SIMBAD coordinates check out with what's here, SIMBAD PM values check out with what's here</i></p> <p><i>tcheck; Adopted SED compared to Observations?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/monitor/16018/seds/</i></p> <p>Category=STAR</p> <p>Description=[PRE-MAIN SEQUENCE STAR, T TAURI STAR]</p> <p>Extended=NO</p>					

Proposal 16108 - V-GM-AUR-COS-12 (1N) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF		5.8 Secs (5.8 Secs) [==>]	[1]	
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	2	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9		5.3 Secs (5.3 Secs) [==>]	[1]	
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	3	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF		5.8 Secs (5.8 Secs) [==>]	[1]	
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
4	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9		5.3 Secs (5.3 Secs) [==>]	[1]		
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
5	G230L 2950 (COS.sp.152 2735)	(1) V-GM-AUR	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FP-POS=4; BUFFER-TIME=52 4		184 Secs (184 Secs) [==>]	[1]		
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522552). 362.4388 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 181.2194 seconds) to account for the other G230L cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522735) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522691) in order to determine bright object safety. Peak local rate of 5.943 counts per second and global rate of 2997.808, so it is safe. Buffer fill time = 786 seconds, and 2/3 of this is 524 seconds.</i></p>										

Proposal 16108 - V-GM-AUR-COS-12 (1N) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

6	G230L 2635 (1) V-GM-AUR (COS.sp.152 2737)	COS/NUV, TIME-TAG, PSA	G230L 2635 A	FP-POS=1; BUFFER-TIME=44 8	184 Secs (184 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522553). 364.1707 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 182.08535 seconds) to account for the other G230L cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522737) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522690) in order to determine bright object safety. Peak local rate of 5.927 counts per second and global rate of 2199.263, so it is safe. Buffer fill time = 672 seconds, and 2/3 of this is 448 seconds.</p>						
7	G160M 158 (1) V-GM-AUR 9-3 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=3; BUFFER-TIME=28 65	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</p>						
8	G160M 158 (1) V-GM-AUR 9-4 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=4; BUFFER-TIME=28 65	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</p>						
9	G160M 162 (1) V-GM-AUR 3-1 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; BUFFER-TIME=31 54	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</p>						
10	G160M 162 (1) V-GM-AUR 3-2 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=2; BUFFER-TIME=31 54	186 Secs (186 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</p>						



Proposal 16108 - V-GM-AUR-COS-12 (AN) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

Tue Nov 02 14:01:14 GMT 2021

Visit	<p>Proposal 16108, V-GM-AUR-COS-12 (AN)</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; AFTER AJ BY 88.2 Orbits TO 96.4 Orbits; BETWEEN 25-OCT-2021:17:20:00 AND 15-DEC-2021:21:10:00</p> <p><i>Comments: vstatus; IN; V-GM-AUR; P/COS approved for submission; P/AH 19/07/21 ; intrev: complete ; P/WF 19/07/21</i></p> <p><i>vcheck; Enter targ name & Inst. & Resp. Sci.; GM Aur ; COS ; AH</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?; N/A</i></p> <p><i>vcheck; S/N ETC calcs done & documented?; Yes</i></p> <p><i>vcheck; Field images checked & saved?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/monitor/16018/images/</i></p> <p><i>vcheck; Selected ACQ strategy?; Double ACQ/PeakXD+ACQ/PeakD, G230L, 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>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>01 OCT 2021 00:00 to 11 OCT 2021 08:10 and 12 OCT 2021 17:00 to 24 OCT 2021 04:15 and 25 OCT 2021 17:20 to 05 NOV 2021 21:10</i></p> <p><i>vcheck; Is visit ready for int. review?; Yes</i></p> <p><i>Allocated COS orbits = 12</i></p>
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Diagnostics	<p>(V-GM-AUR-COS-12 (AN)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.</p>
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Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>V-GM-AUR</td> <td>RA: 04 55 10.9860 (73.7957750d)</td> <td>Proper Motion RA: 3.012635677084487E-4 sec of time/yr</td> <td>V=12.242</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td>Alt Name1: 2MASS-J04551098+3021595</td> <td>Dec: +30 21 59.00 (30.36639d)</td> <td>Proper Motion Dec: -0.02445099994474731 arcsec/yr</td> <td>SpT=K3, U=14.59,</td> <td></td> </tr> <tr> <td></td> <td>Alt Name2: HBC-77</td> <td>Equinox: J2000</td> <td>Epoch of Position: 2015.5</td> <td>B=13.35, V=12.24, R=11.80, G=11.70, J=9.34, H=8.60, K=8.28</td> <td></td> </tr> </tbody> </table> <p><i>Comments: tstatus; V-GM-AUR ; P/COS approved for submission; S/ins not started; P/AH 19/07/21; S/xx DD/MM/YY</i></p> <p><i>tcheck; APT/SIMBAD target names: ; V-GM-AUR ...</i></p> <p><i>Default SIMBAD name is V* GM Aur, aka 2MASS J04551098+3021595</i></p> <p><i>tcheck; Target info verification status?; OK ...</i></p> <p><i>spectral type and magnitudes seem to be consistent</i></p> <p><i>Flam(B) = 2.6e-10 at 4444 Angstroms and Flam(V) = 4.7e-10 at 5540 Angstroms from Vizier photometry viewer linked from SIMBAD</i></p> <p><i>tcheck; Coordinates & P.M. verified, epoch checked?; OK ...</i></p> <p><i>SIMBAD coordinates check out with what's here, SIMBAD PM values check out with what's here</i></p> <p><i>tcheck; Adopted SED compared to Observations?; Yes ...</i></p> <p><i>located at: box/ullyses_tech/ullyses_proposals/monitor/16018/seds/</i></p> <p><i>Category=STAR</i></p> <p><i>Description=[PRE-MAIN SEQUENCE STAR, T TAURI STAR]</i></p> <p><i>Extended=NO</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	V-GM-AUR	RA: 04 55 10.9860 (73.7957750d)	Proper Motion RA: 3.012635677084487E-4 sec of time/yr	V=12.242	Reference Frame: ICRS		Alt Name1: 2MASS-J04551098+3021595	Dec: +30 21 59.00 (30.36639d)	Proper Motion Dec: -0.02445099994474731 arcsec/yr	SpT=K3, U=14.59,			Alt Name2: HBC-77	Equinox: J2000	Epoch of Position: 2015.5	B=13.35, V=12.24, R=11.80, G=11.70, J=9.34, H=8.60, K=8.28	
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																				
(1)	V-GM-AUR	RA: 04 55 10.9860 (73.7957750d)	Proper Motion RA: 3.012635677084487E-4 sec of time/yr	V=12.242	Reference Frame: ICRS																				
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	Alt Name2: HBC-77	Equinox: J2000	Epoch of Position: 2015.5	B=13.35, V=12.24, R=11.80, G=11.70, J=9.34, H=8.60, K=8.28																					

Proposal 16108 - V-GM-AUR-COS-12 (AN) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF		5.8 Secs (5.8 Secs) [==>]	[1]	
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	2	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9			5.3 Secs (5.3 Secs) [==>]	[1]
	<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the first of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>									
	3	G230L PEA KXD (COS.sa.152 2537)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKXD, PSA	G230L 2950 A	STRIPE=DEF			5.8 Secs (5.8 Secs) [==>]	[1]
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522537) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKXD with PSA takes 5.8 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522540) in order to determine bright object safety. ACQ/PEAKXD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
4	G230L PEA KD (COS.sa.152 2538)	(1) V-GM-AUR	COS/NUV, ACQ/PEAKD, PSA	G230L 2950 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9			5.3 Secs (5.3 Secs) [==>]	[1]	
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC (COS.sa.1522538) in order to determine exposure times. This is the one listed as the ETC run for the exposure. ACQ/PEAKD with PSA takes 5.3 seconds for S/N=40.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sa.1522541) in order to determine bright object safety. ACQ/PEAKD with PSA has peak pixel rate of 5.943 counts per second and global rate of 2997.808, so it is safe.</i></p> <p><i>This is the second of two ACQ/PEAKXD+ACQ/PEAKD used in order to improve the likelihood of a successful acquisition.</i></p>										
5	G230L 2950 (COS.sp.152 2735)	(1) V-GM-AUR	COS/NUV, TIME-TAG, PSA	G230L 2950 A	FP-POS=4; BUFFER-TIME=52 4			50 Secs (50 Secs) [==>]	[1]	
<p><i>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522552). 362.4388 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 181.2194 seconds) to account for the other G230L cenwave also observing this spectral feature.</i></p> <p><i>The listed ETC Run # for this exposure (COS.sp.1522735) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</i></p> <p><i>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522691) in order to determine bright object safety. Peak local rate of 5.943 counts per second and global rate of 2997.808, so it is safe. Buffer fill time = 786 seconds, and 2/3 of this is 524 seconds.</i></p>										

Proposal 16108 - V-GM-AUR-COS-12 (AN) - ULLYSES Monitoring Observations of the T Tauri Star GM Aur: First Epoch

6	G230L 2635 (1) V-GM-AUR (COS.sp.152 2737)	COS/NUV, TIME-TAG, PSA	G230L 2635 A	FP-POS=1; BUFFER-TIME=44 8	50 Secs (50 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522553). 364.1707 seconds to achieve S/N = 20 at 2825 A. This time is halved (= 182.08535 seconds) to account for the other G230L cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522737) uses the expanded exposure time to fill the orbit (184 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is minimal.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522690) in order to determine bright object safety. Peak local rate of 5.927 counts per second and global rate of 2199.263, so it is safe. Buffer fill time = 672 seconds, and 2/3 of this is 448 seconds.</p>						
7	G160M 158 (1) V-GM-AUR 9-3 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=3; BUFFER-TIME=28 65	265 Secs (265 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</p>						
8	G160M 158 (1) V-GM-AUR 9-4 (COS.sp.152 2739)	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=4; BUFFER-TIME=28 65	265 Secs (265 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522544). 376.7304 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 94.1826 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522739) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522682) in order to determine bright object safety. Peak local rate of 0.315 counts per second and global rate of 548.875, so it is safe. Buffer fill time = 4297 seconds, and 2/3 of this is 2864.667 seconds.</p>						
9	G160M 162 (1) V-GM-AUR 3-1 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; BUFFER-TIME=31 54	265 Secs (265 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</p>						
10	G160M 162 (1) V-GM-AUR 3-2 (COS.sp.152 2741)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=2; BUFFER-TIME=31 54	265 Secs (265 Secs) [==>]	[1]
<p>Comments: Used model spectrum gmaur_lya2_etc.txt in the ETC in order to determine exposure times (COS.sp.1522545). 393.2034 seconds to achieve S/N = 30 at 1548.5 A. This time is quartered (= 98.30085 seconds) to account for both the other G160M cenwave and the two FP-POS settings per cenwave also observing this spectral feature.</p> <p>The listed ETC Run # for this exposure (COS.sp.1522741) uses the expanded exposure time to fill the orbit (186 seconds). The G160M exposures received priority for Unused Orbital Visibility, so the increased exposure time here is significant compared to the G230L exposures.</p> <p>Used model spectrum gmaur_lya2_x4.00_etc.txt in the ETC (COS.sp.1522683) in order to determine bright object safety. Peak local rate of 0.317 counts per second and global rate of 498.525, so it is safe. Buffer fill time = 4731 seconds, and 2/3 of this is 3154 seconds.</p>						

