



16816 - ULLYSES LMC O5 Giants - COS

Cycle: 29, Proposal Category: GO/DD

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Dr. Julia Christine Roman-Duval (PI) (Contact)	Space Telescope Science Institute
Dr. Kenneth Sembach (CoI)	Space Telescope Science Institute
Dr. TalaWanda R. Monroe (CoI)	Space Telescope Science Institute
Joanna Taylor (CoI)	Space Telescope Science Institute
Dr. Travis C Fischer (CoI) (ESA Member)	Space Telescope Science Institute - ESA
Dr. William J. Fischer (CoI)	Space Telescope Science Institute
Dr. Alexander W. Fullerton (CoI) (Contact)	Space Telescope Science Institute
Dr. Alessandra Aloisi (CoI)	Space Telescope Science Institute
Christopher Britt (CoI)	Space Telescope Science Institute
Dr. Thomas M. Brown (CoI)	Space Telescope Science Institute
Ivo Busko (CoI)	Space Telescope Science Institute
Dr. Joleen Carlberg (CoI)	Space Telescope Science Institute
Dr. Gisella De Rosa (CoI)	Space Telescope Science Institute
Elaine M Frazer (CoI)	Space Telescope Science Institute
Dr. Svea S Hernandez (CoI) (ESA Member)	Space Telescope Science Institute - ESA - JWST
Dr. Alec S. Hirschauer (CoI)	Space Telescope Science Institute
Dr. Bethan Lesley James (CoI) (ESA Member)	Space Telescope Science Institute - ESA - JWST
Robert Jedrzejewski (CoI)	Space Telescope Science Institute
Sean Lockwood (CoI)	Space Telescope Science Institute
Dr. Cristina Oliveira (CoI)	Space Telescope Science Institute
Rachel Plesha (CoI)	Space Telescope Science Institute
Dr. Charles R. Proffitt (CoI)	Space Telescope Science Institute

<i>Name</i>	<i>Institution</i>
Dr. I. Neill Reid (CoI)	Space Telescope Science Institute
Dr. Adric R. Riedel (CoI)	Space Telescope Science Institute
Dr. David J. Sahnou (CoI)	Space Telescope Science Institute
Dr. Ravi Sankrit (CoI) (Contact)	Space Telescope Science Institute
Dr. Richard Shaw (CoI)	Space Telescope Science Institute
Dr. Linda J. Smith (CoI)	Space Telescope Science Institute
Dr. Sangmo Tony Sohn (CoI)	Space Telescope Science Institute
Dr. Debopam Som (CoI)	Space Telescope Science Institute
Dr. Leonardo Ubeda (CoI)	Space Telescope Science Institute
Dr. Daniel E. Welty (CoI)	Space Telescope Science Institute
Dr. W. Van Dyke Dixon (CoI)	Space Telescope Science Institute

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) BI265	COS/FUV	2	25-May-2023 10:01:16.0	yes
AC	(1) BI265	COS/FUV	2	25-May-2023 10:01:18.0	yes
1D	(1) BI265	COS/FUV	1	25-May-2023 10:01:19.0	yes
2C	(2) SK-69D212	COS/FUV	2	25-May-2023 10:01:20.0	yes
2D	(2) SK-69D212	COS/FUV	1	25-May-2023 10:01:21.0	yes
3C	(3) VFTS-244	COS/FUV	2	25-May-2023 10:01:22.0	yes

10 Total Orbits Used

ABSTRACT

The Space Telescope Science Institute (STScI) Director has decided to devote up to 1000 orbits of Director's Discretionary time in observing Cycles 27-29 to a new Hubble Ultraviolet Legacy program focused on star formation and associated stellar physics. This new program, ULLYSES (UV Legacy Library of Young Stars as Essential Standards), will provide a UV spectroscopic reference sample of young (< 10 Myr) high- and low-mass stars. It will target over ~150 OB stars in the Magellanic Clouds and lower metallicity galaxies in the Local Group, and ~40 T Tauri stars and brown dwarfs in the Milky Way. In addition, ULLYSES will monitor 4 typical T Tauri stars over different rotational phases through at least three rotation periods, and over timescales of months to years. The resulting library will provide template spectra of massive stars at metallicities substantially

below the well studied, while the low mass sample will cover a wide range of ages, accretion rates, and masses, including objects down to well below $0.5 M_{\odot}$. The legacy of this large UV dataset on the first 10 Myr of stellar evolution will be enhanced by complementary datasets obtained by the scientific community. In addition to the core goals of the program related to stellar astrophysics of low and high mass stars, this data will also enable exciting science in the fields of ISM, CGM, jets, and exoplanets. ULLYSES will be modeled after the Frontier Fields program: all data obtained will be non-proprietary. The implementation team at STScI is developing high-level science data products and a sophisticated database and website for disseminating data from the ULLYSES program and ancillary datasets for the ULLYSES target sample from space and ground-based facilities.

OBSERVING DESCRIPTION

This proposal includes a subset of the massive ULLYSES stars being observed in the Magellanic clouds.

Depending on target brightness, the main FUV spectral range will generally use either the STIS E140M setting or the combination of the COS c1291 + c1611 settings. Sufficiently bright stars without good FUSE data in the archive will also be observed with the COS c1096 setting to provide coverage at shorter wavelengths. Where time permits, stars of type O9 or later will also be observed with STIS E230M/1978, while for supergiants of spectral type B5 or later E230M/2707 may also be included. Where possible, targets of a given spectral type were selected to span both a range in extinction and in rotation rates to support a variety of stellar and ISM studies.

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

COS/G130M/c1096: 20 / nine-pixel resel at 1080 Å

COS/G130M/c1291: 30 / six-pixel resel at 1150 Å

COS/G160M/c1611: 30 / six-pixel resel at 1590 Å

COS/G185M/c1953: 30 / three-pixel resel at 1860 Å

COS/G185M/c1986: 30 / three-pixel resel at 1980 Å

STIS/E140M/c1425: 20 / two-pixel resel at 1200 Å

STIS/E230M/c1978: 20 / two-pixel resel at 1800 Å

STIS/E230M/c2707: 20 / two-pixel resel at 2800 Å

The actual implemented exposure times may be adjusted to efficiently use HST orbits, but should always provide at least 80% of the desired time as defined by the above requirements.

Additional details about the scientific motivation and technical implementation strategy of the ULLYSES observations can be found at

Proposal 16816 (STScI Edit Number: 1, Created: Thursday, May 25, 2023 at 9:01:23 AM Eastern Standard Time) - Overview

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

Proposal 16816 - BI265-COS (1C) - ULLYSES LMC O5 Giants - COS

Thu May 25 14:01:23 GMT 2023

Visit

Proposal 16816, BI265-COS (1C), failed

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV

Special Requirements: SCHED 100%

Comments: vstatus; 1C; BI265; P/COS approved for submission; P/RS 29/08/22 ; intrev: complete ; P/AF 06/10/22
vcheck; Enter targ name & Inst. & Resp. Sci.; BI265 ; COS ; RS
vcheck; ETC numbers entered in APT?; Yes
vcheck; Any screening violations?; No ...
count-rate warning for irregularly variable sources in the c1291 spectral acquisition calculation
vcheck; S/N ETC calcs done & documented?; N/A
vcheck; Field images checked & saved?; Yes
vcheck; Selected ACQ strategy?; Yes spectroscopic acq using G130M/1291 ...
several stars in the field that are too bright for PSA while obtaining imaging acq
vcheck; Possible ACQ or Sci spoilers?; No
vcheck; Field BOT clear?; Yes ...
both the Zaritsky catalog and Gaia show that sources flagged unknown are safe
vcheck; Visual BOT check for stars not in catalog?; Okay
vcheck; Orbit packing finalized?; Yes
vcheck; Buffer times optimized?; Yes
vcheck; Verify visit grouping correct; N/A
vcheck; Is visit ready for int. review?; Yes
Allocated COS orbits = 2

Fixed Targets

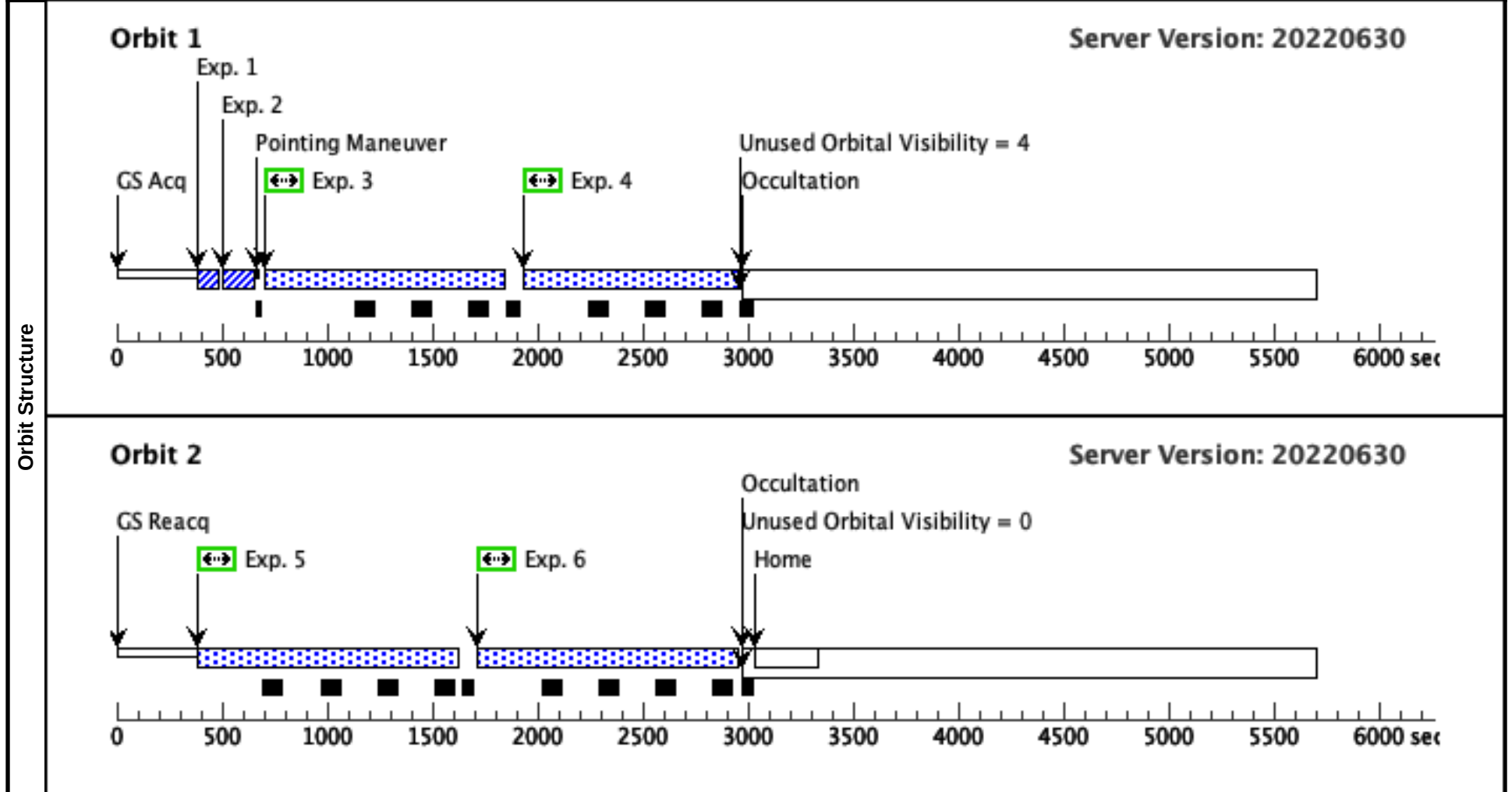
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	BI265	RA: 05 40 4.6247 (85.0192696d)	Proper Motion RA: 1.820 mas/yr	V=12.58	Reference Frame: ICRS
	Alt Name1: AAOMEGA-361	Dec: -69 39 50.68 (-69.66408d)	Proper Motion Dec: 0.873 mas/yr	SpT=O5 III(fc); E(B-V)=0.13; U=11.42; B=12.43; V=12.58; F1160=7.060e-13; F1360=5.780e-13; F1700=4.710e-13	
	Alt Name2: BI-265	Equinox: J2000	Parallax: 0"		
			Epoch of Position: 2000		
Comments: BI265 : AAOMEGA-361, BI 265 Previous name : BI265 Input file: ULLYSES_Cycle29_MassiveStar_ProgramInput_v5.csv SpT = O5 III(fc) COS/G130M/c1096 : rn(PoWR-OB-new(PoWR_40000_3.80_m7.00_Z0.50.fits, lmc-ob-i 40-38, Z=0.500 solar, Teff=40000, log_lum=5.64, log_g=3.80, log_mdots=-7.00) (extinction lmcavg=0.130), flux1160 +- 2.0A flux=7.1e-13 Flam) Coordinate pedigree: Gaia DR2 Calculation performed 2021-10-25T00:57:56, v0.9 ----- tstatus; BI265; P/COS approved for submission; S/ins not started; P/RS 29/08/22; S/xx DD/MM/YY tcheck; APT/SIMBAD target names: ; BI265 'BI 265' tcheck; Target info verification status?; OK tcheck; Coordinates & P.M. verified, epoch checked?; Yes Gaia DR3 tcheck; Adopted SED compared to Observations?; Yes ... BI265_adopted_sed.fits PoWR model matched to STIS and UBV Category=STAR Description=[GIANT O, OF] Extended=NO					

Proposal 16816 - BI265-COS (1C) - ULLYSES LMC O5 Giants - COS

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	FUV PEAK XD (COS.sa.182 0053)	(1) BI265	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A	CENTER=FLUX-W T; NUM-POS=3; STEP-SIZE=1.3			0.5 Secs (0.5 Secs) [==>]	[1]
	Comments: Exposure time calculated.									
	2	FUV PEAK D (COS.sa.182 0053)	(1) BI265	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9			0.5 Secs (0.5 Secs) [==>]	[1]
	Comments: Exposure time calculated.									
	3	G130M/109 6 (COS.sp.182 0054)	(1) BI265	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=27 2; FP-POS=1			967 Secs (967 Secs) [==>]	[1]
	Comments: rn(PoWR-OB-new(PoWR_40000_3.80_m7.00_Z0.50.fits, lmc-ob-i 40-38, Z=0.500 solar, Teff=40000, log_lum=5.64, log_g=3.80, log_mdots=-7.00) (extinction lmcavg=0.130), flux1160 +- 2.0A flux=7.1e-13 Flam); cos,fuv,g130m,c1096,psa,mjd#59670; fp-pos=None, segment=None) From file ULLYSES_Cycle29_MassiveStar_ProgramInput_v5.csv Spectral type: O5 III(fc) SED = BI265_COS_G130M_c1096_sed.fits For exptime=2774.1 s, spectral region: 1080.0 +- 0.5 A achieves SNR=20.0/resel global countrate (brightest segment): 7574.9 cts/s/segment brightest pixel: 0.153 cts/s/pix at 1220.0 A Calculation performed 2021-10-25T00:58:01, v0.9									
Exposures	4	G130M/109 6 (COS.sp.182 0054)	(1) BI265	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=27 2; FP-POS=2			967 Secs (967 Secs) [==>]	[1]
	Comments: rn(PoWR-OB-new(PoWR_40000_3.80_m7.00_Z0.50.fits, lmc-ob-i 40-38, Z=0.500 solar, Teff=40000, log_lum=5.64, log_g=3.80, log_mdots=-7.00) (extinction lmcavg=0.130), flux1160 +- 2.0A flux=7.1e-13 Flam); cos,fuv,g130m,c1096,psa,mjd#59670; fp-pos=None, segment=None) From file ULLYSES_Cycle29_MassiveStar_ProgramInput_v5.csv Spectral type: O5 III(fc) SED = BI265_COS_G130M_c1096_sed.fits For exptime=2774.1 s, spectral region: 1080.0 +- 0.5 A achieves SNR=20.0/resel global countrate (brightest segment): 7574.9 cts/s/segment brightest pixel: 0.153 cts/s/pix at 1220.0 A Calculation performed 2021-10-25T00:58:01, v0.9									
	5	G130M/109 6 (COS.sp.182 0054)	(1) BI265	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=27 2; FP-POS=3			1190 Secs (1190 Secs) [==>]	[2]
	Comments: rn(PoWR-OB-new(PoWR_40000_3.80_m7.00_Z0.50.fits, lmc-ob-i 40-38, Z=0.500 solar, Teff=40000, log_lum=5.64, log_g=3.80, log_mdots=-7.00) (extinction lmcavg=0.130), flux1160 +- 2.0A flux=7.1e-13 Flam); cos,fuv,g130m,c1096,psa,mjd#59670; fp-pos=None, segment=None) From file ULLYSES_Cycle29_MassiveStar_ProgramInput_v5.csv Spectral type: O5 III(fc) SED = BI265_COS_G130M_c1096_sed.fits For exptime=2774.1 s, spectral region: 1080.0 +- 0.5 A achieves SNR=20.0/resel global countrate (brightest segment): 7574.9 cts/s/segment brightest pixel: 0.153 cts/s/pix at 1220.0 A Calculation performed 2021-10-25T00:58:01, v0.9									

Proposal 16816 - BI265-COS (1C) - ULLYSES LMC O5 Giants - COS

6	G130M/109 (1) BI265 6 (COS.sp.182 0054)	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=27 2; FP-POS=4	1190 Secs (1190 Secs) [==>]	[2]
Comments: rn(PoWR-OB-new(PoWR_40000_3.80_m7.00_Z0.50.fits, lmc-ob-i 40-38, Z=0.500 solar, Teff=40000, log_lum=5.64, log_g=3.80, log_mdott=-7.00) (extinction lmcavg=0.130), flux1160 +/- 2.0A flux=7.1e-13 Flam); cos,fuv,g130m,c1096,psa,mjd#59670; fp-pos=None, segment=None) From file ULLYSES_Cycle29_MassiveStar_ProgramInput_v5.csv Spectral type: O5 III(fc) SED = BI265_COS_G130M_c1096_sed.fits For exptime=2774.1 s, spectral region: 1080.0 +/- 0.5 A achieves SNR=20.0/resel global countrate (brightest segment): 7574.9 cts/s/segment brightest pixel: 0.153 cts/s/pix at 1220.0 A Calculation performed 2021-10-25T00:58:01, v0.9						



Proposal 16816 - BI265-COS (AC) - ULLYSES LMC O5 Giants - COS

Thu May 25 14:01:23 GMT 2023

Visit

Proposal 16816, BI265-COS (AC)

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV

Special Requirements: SCHED 100%

Comments: vstatus; 1C; BI265; P/COS approved for submission; P/RS 29/08/22 ; intrev: complete ; P/AF 06/10/22

vcheck; Enter targ name & Inst. & Resp. Sci.; BI265 ; COS ; RS

vcheck; ETC numbers entered in APT?; Yes

vcheck; Any screening violations?; No ...

count-rate warning for irregularly variable sources in the c1291 spectral acquisition calculation

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

vcheck; Field images checked & saved?; Yes

vcheck; Selected ACQ strategy?; Yes spectroscopic acq using G130M/1291 ...

several stars in the field that are too bright for PSA while obtaining imaging acq

vcheck; Possible ACQ or Sci spoilers?; No

vcheck; Field BOT clear?; Yes ...

both the Zaritsky catalog and Gaia show that sources flagged unknown are safe

vcheck; Visual BOT check for stars not in catalog?; Okay

vcheck; Orbit packing finalized?; Yes

vcheck; Buffer times optimized?; Yes

vcheck; Verify visit grouping correct; N/A

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

Allocated COS orbits = 2

Update May 25,2023 (AF): Visit AC is an exact copy of Visit 1C, as authorized by the TTRB in response to HOPR-92547.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	BI265	RA: 05 40 4.6247 (85.0192696d)	Proper Motion RA: 1.820 mas/yr	V=12.58	Reference Frame: ICRS
	Alt Name1: AAOMEGA-361	Dec: -69 39 50.68 (-69.66408d)	Proper Motion Dec: 0.873 mas/yr	SpT=O5 III(fc); E(B-V)=0.13; U=11.42; B=12.43; V=12.58; F1160=7.060e-13; F1360=5.780e-13; F1700=4.710e-13	
	Alt Name2: BI-265	Equinox: J2000	Parallax: 0"		
			Epoch of Position: 2000		

Comments: BI265 : AAOMEGA-361, BI 265

Previous name : BI265

Input file: ULLYSES_Cycle29_MassiveStar_ProgramInput_v5.csv

SpT = O5 III(fc)

COS/G130M/c1096 : rn(PoWR-OB-new(PoWR_40000_3.80_m7.00_Z0.50.fits, lmc-ob-i 40-38, Z=0.500 solar, Teff=40000, log_lum=5.64, log_g=3.80, log_mdots=-7.00) (extinction lmcavg=0.130), flux1160 +- 2.0A flux=7.1e-13 Flam)

Coordinate pedigree: Gaia DR2

Calculation performed 2021-10-25T00:57:56, v0.9

tstatus; BI265; P/COS approved for submission; S/ins not started; P/RS 29/08/22; S/xx DD/MM/YY

tcheck; APT/SIMBAD target names: ; BI265 'BI 265'

tcheck; Target info verification status?; OK

tcheck; Coordinates & P.M. verified, epoch checked?; Yes Gaia DR3

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

BI265_adopted_sed.fits PoWR model matched to STIS and UBV

Category=STAR

Description=[GIANT O, OF]

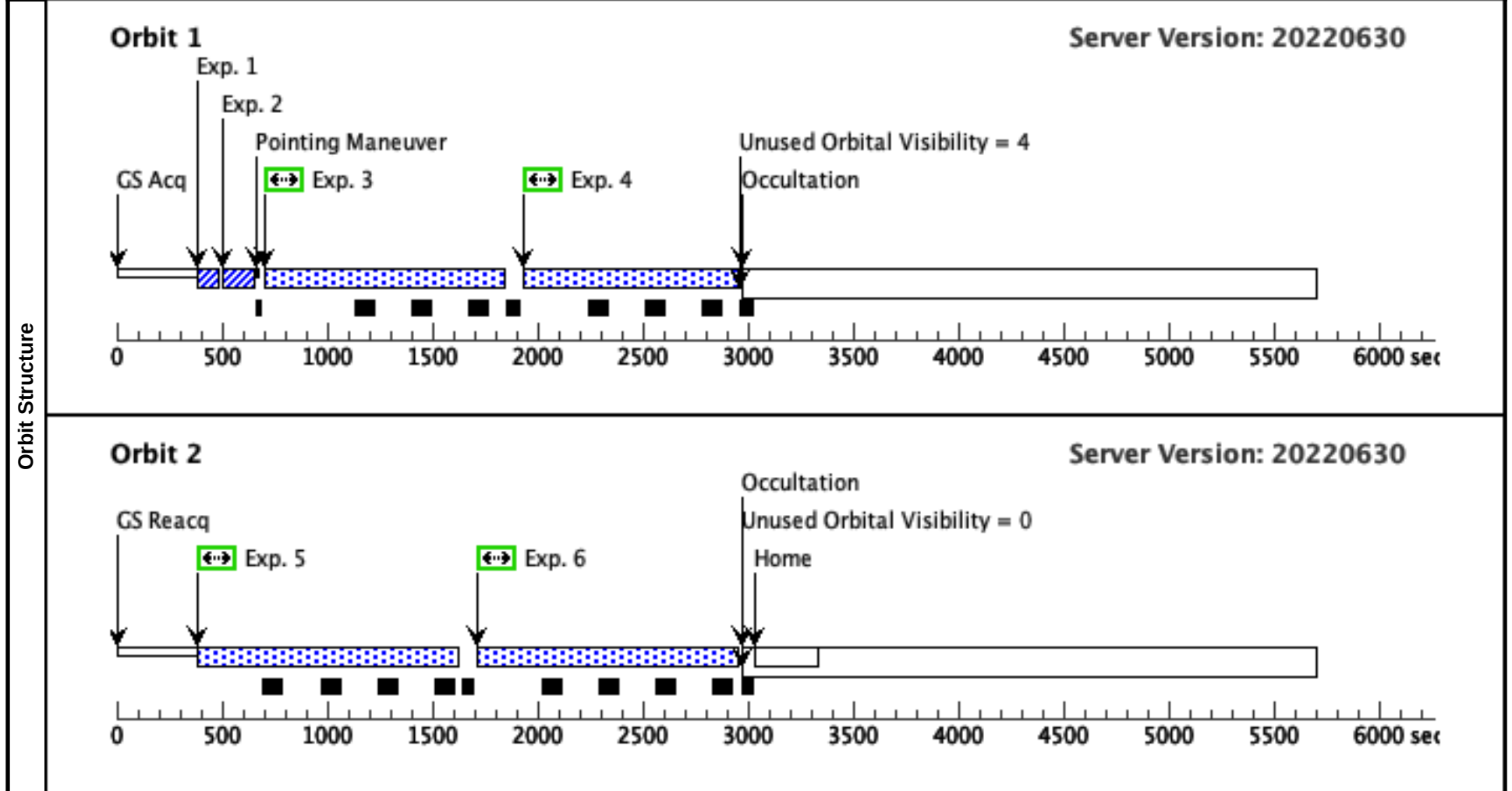
Extended=NO

Proposal 16816 - BI265-COS (AC) - ULLYSES LMC O5 Giants - COS

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	FUV PEAK XD (COS.sa.182 0053)	(1) BI265	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A	CENTER=FLUX-W T; NUM-POS=3; STEP-SIZE=1.3			0.5 Secs (0.5 Secs) [==>]	[1]
	Comments: Exposure time calculated.									
	2	FUV PEAK D (COS.sa.182 0053)	(1) BI265	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9			0.5 Secs (0.5 Secs) [==>]	[1]
	Comments: Exposure time calculated.									
	3	G130M/109 6 (COS.sp.182 0054)	(1) BI265	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=27 2; FP-POS=1			967 Secs (967 Secs) [==>]	[1]
	Comments: rn(PoWR-OB-new(PoWR_40000_3.80_m7.00_Z0.50.fits, lmc-ob-i 40-38, Z=0.500 solar, Teff=40000, log_lum=5.64, log_g=3.80, log_mdots=-7.00) (extinction lmcavg=0.130), flux1160 +- 2.0A flux=7.1e-13 Flam); cos,fuv,g130m,c1096,psa,mjd#59670; fp-pos=None, segment=None) From file ULLYSES_Cycle29_MassiveStar_ProgramInput_v5.csv Spectral type: O5 III(fc) SED = BI265_COS_G130M_c1096_sed.fits For exptime=2774.1 s, spectral region: 1080.0 +- 0.5 A achieves SNR=20.0/resel global countrate (brightest segment): 7574.9 cts/s/segment brightest pixel: 0.153 cts/s/pix at 1220.0 A Calculation performed 2021-10-25T00:58:01, v0.9									
	4	G130M/109 6 (COS.sp.182 0054)	(1) BI265	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=27 2; FP-POS=2			967 Secs (967 Secs) [==>]	[1]
	Comments: rn(PoWR-OB-new(PoWR_40000_3.80_m7.00_Z0.50.fits, lmc-ob-i 40-38, Z=0.500 solar, Teff=40000, log_lum=5.64, log_g=3.80, log_mdots=-7.00) (extinction lmcavg=0.130), flux1160 +- 2.0A flux=7.1e-13 Flam); cos,fuv,g130m,c1096,psa,mjd#59670; fp-pos=None, segment=None) From file ULLYSES_Cycle29_MassiveStar_ProgramInput_v5.csv Spectral type: O5 III(fc) SED = BI265_COS_G130M_c1096_sed.fits For exptime=2774.1 s, spectral region: 1080.0 +- 0.5 A achieves SNR=20.0/resel global countrate (brightest segment): 7574.9 cts/s/segment brightest pixel: 0.153 cts/s/pix at 1220.0 A Calculation performed 2021-10-25T00:58:01, v0.9									
	5	G130M/109 6 (COS.sp.182 0054)	(1) BI265	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=27 2; FP-POS=3			1190 Secs (1190 Secs) [==>]	[2]
	Comments: rn(PoWR-OB-new(PoWR_40000_3.80_m7.00_Z0.50.fits, lmc-ob-i 40-38, Z=0.500 solar, Teff=40000, log_lum=5.64, log_g=3.80, log_mdots=-7.00) (extinction lmcavg=0.130), flux1160 +- 2.0A flux=7.1e-13 Flam); cos,fuv,g130m,c1096,psa,mjd#59670; fp-pos=None, segment=None) From file ULLYSES_Cycle29_MassiveStar_ProgramInput_v5.csv Spectral type: O5 III(fc) SED = BI265_COS_G130M_c1096_sed.fits For exptime=2774.1 s, spectral region: 1080.0 +- 0.5 A achieves SNR=20.0/resel global countrate (brightest segment): 7574.9 cts/s/segment brightest pixel: 0.153 cts/s/pix at 1220.0 A Calculation performed 2021-10-25T00:58:01, v0.9									

Proposal 16816 - BI265-COS (AC) - ULLYSES LMC O5 Giants - COS

6	G130M/109 (1) BI265 6 (COS.sp.182 0054)	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=27 2; FP-POS=4	1190 Secs (1190 Secs) [==>]	[2]
Comments: rn(PoWR-OB-new(PoWR_40000_3.80_m7.00_Z0.50.fits, lmc-ob-i 40-38, Z=0.500 solar, Teff=40000, log_lum=5.64, log_g=3.80, log_mdots=-7.00) (extinction lmcavg=0.130), flux1160 +/- 2.0A flux=7.1e-13 Flam); cos,fuv,g130m,c1096,psa,mjd#59670; fp-pos=None, segment=None) From file ULLYSES_Cycle29_MassiveStar_ProgramInput_v5.csv Spectral type: O5 III(fc) SED = BI265_COS_G130M_c1096_sed.fits For exptime=2774.1 s, spectral region: 1080.0 +/- 0.5 A achieves SNR=20.0/resel global countrate (brightest segment): 7574.9 cts/s/segment brightest pixel: 0.153 cts/s/pix at 1220.0 A Calculation performed 2021-10-25T00:58:01, v0.9						



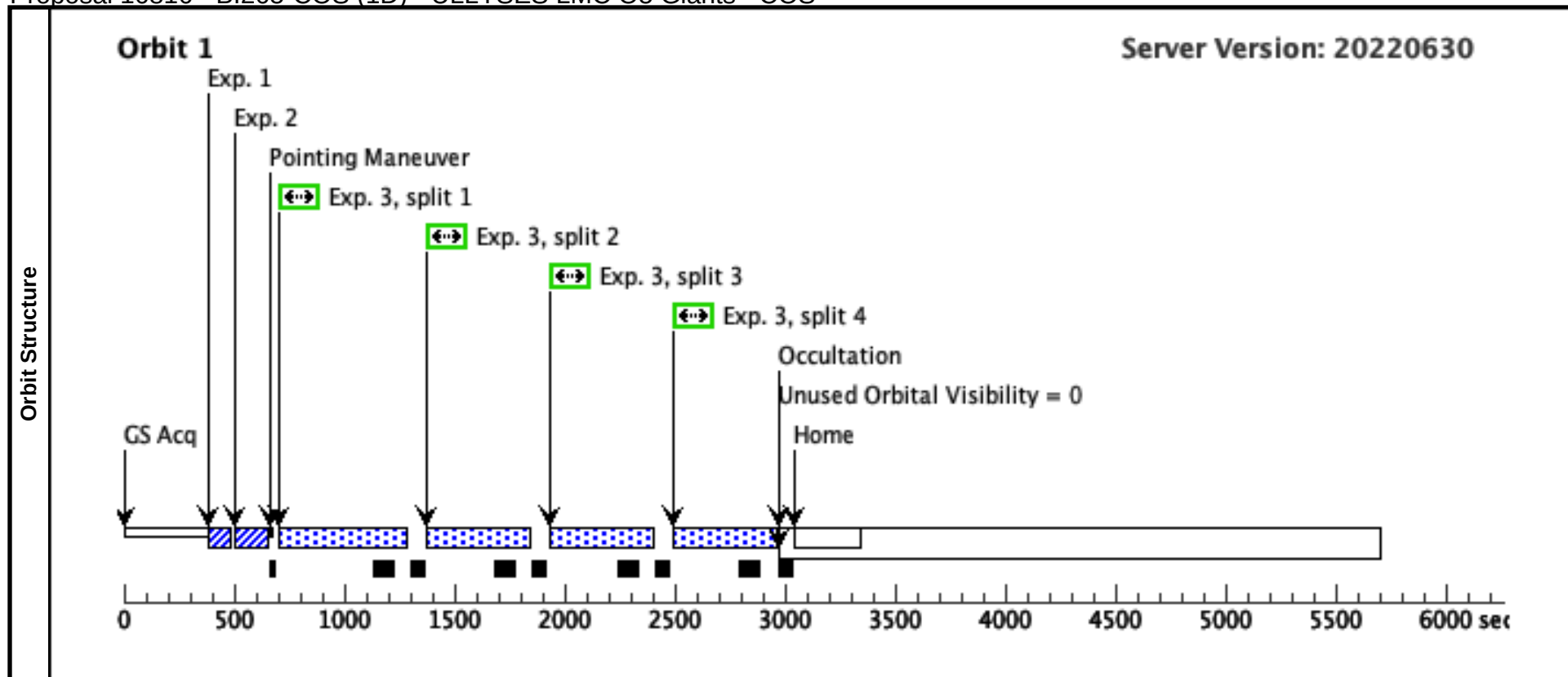
Proposal 16816 - BI265-COS (1D) - ULLYSES LMC O5 Giants - COS

Thu May 25 14:01:23 GMT 2023

Visit	Proposal 16816, BI265-COS (1D), completed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV Special Requirements: SCHED 100% Comments: vstatus; 1D; BI265; P/COS approved for submission; P/RS 29/08/22 ; intrev: complete ; P/AF 06/10/22 vcheck; Enter targ name & Inst. & Resp. Sci.; BI265 ; COS ; RS vcheck; ETC numbers entered in APT?; Yes vcheck; Any screening violations?; No ... count-rate warning for irregularly variable sources in the c1291 spectral acquisition calculation vcheck; S/N ETC calcs done & documented?; N/A vcheck; Field images checked & saved?; Yes vcheck; Selected ACQ strategy?; Yes spectroscopic acq using G130M/1291 ... several stars in the field that are too bright for PSA while obtaining imaging acq vcheck; Possible ACQ or Sci spoilers?; No vcheck; Field BOT clear?; Yes ... both the Zaritsky catalog and Gaia show that sources flagged unknown are safe vcheck; Visual BOT check for stars not in catalog?; Okay vcheck; Orbit packing finalized?; Yes vcheck; Buffer times optimized?; Yes vcheck; Verify visit grouping correct; N/A vcheck; Is visit ready for int. review?; Yes Allocated COS orbits = 2 7/3/23 AF: Visit 1D provides 1 orbit of additional exposure time with the COS G130M/1096 configuration. To implement Visit 1D: - the dispersed light target acquisition from Visit 1C was copied "as is" - the exposure time for FP-POS=ALL was adjusted to fit the single-orbit allocation: 413 s per FP-POS. A re-optimized value of the buffer time was found to be 272 s.																																	
	<table> <tr> <th>#</th><th>Name</th><th>Target Coordinates</th><th>Targ. Coord. Corrections</th><th>Fluxes</th><th>Miscellaneous</th></tr> <tr> <td>(1)</td><td>BI265</td><td>RA: 05 40 4.6247 (85.0192696d)</td><td>Proper Motion RA: 1.820 mas/yr</td><td>V=12.58</td><td>Reference Frame: ICRS</td></tr> <tr> <td></td><td>Alt Name1: AAOMEGA-361</td><td>Dec: -69 39 50.68 (-69.66408d)</td><td>Proper Motion Dec: 0.873 mas/yr</td><td>SpT=O5 III(fc); E(B-V)=0.13; U=11.42; B=12.43; V=12.58; F1160=7.060e-13; F1360=5.780e-13; F1700=4.710e-13</td><td></td></tr> <tr> <td></td><td>Alt Name2: BI-265</td><td>Equinox: J2000</td><td>Parallax: 0"</td><td></td><td></td></tr> <tr> <td></td><td></td><td></td><td>Epoch of Position: 2000</td><td></td><td></td></tr> </table> Comments: BI265 : AAOMEGA-361, BI 265 Previous name : BI265 Input file: ULLYSES_Cycle29_MassiveStar_ProgramInput_v5.csv SpT = O5 III(fc) COS/G130M/c1096 : rn(PoWR-OB-new(PoWR_40000_3.80_m7.00_Z0.50.fits, lmc-ob-i 40-38, Z=0.500 solar, Teff=40000, log_lum=5.64, log_g=3.80, log_mdot=-7.00) (extinction lmcavg=0.130), flux1160 +- 2.0A flux=7.1e-13 Flam) Coordinate pedigree: Gaia DR2 Calculation performed 2021-10-25T00:57:56, v0.9 tstatus; BI265; P/COS approved for submission; S/ins not started; P/RS 29/08/22; S/xx DD/MM/YY tcheck; APT/SIMBAD target names: ; BI265 'BI 265' tcheck; Target info verification status?; OK tcheck; Coordinates & P.M. verified, epoch checked?; Yes Gaia DR3 tcheck; Adopted SED compared to Observations?; Yes ... BI265_adopted_sed.fits PoWR model matched to STIS and UBV Category=STAR Description=[GIANT O, OF] Extended=NO					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	BI265	RA: 05 40 4.6247 (85.0192696d)	Proper Motion RA: 1.820 mas/yr	V=12.58	Reference Frame: ICRS		Alt Name1: AAOMEGA-361	Dec: -69 39 50.68 (-69.66408d)	Proper Motion Dec: 0.873 mas/yr	SpT=O5 III(fc); E(B-V)=0.13; U=11.42; B=12.43; V=12.58; F1160=7.060e-13; F1360=5.780e-13; F1700=4.710e-13			Alt Name2: BI-265	Equinox: J2000	Parallax: 0"						Epoch of Position: 2000	
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																													
(1)	BI265	RA: 05 40 4.6247 (85.0192696d)	Proper Motion RA: 1.820 mas/yr	V=12.58	Reference Frame: ICRS																													
	Alt Name1: AAOMEGA-361	Dec: -69 39 50.68 (-69.66408d)	Proper Motion Dec: 0.873 mas/yr	SpT=O5 III(fc); E(B-V)=0.13; U=11.42; B=12.43; V=12.58; F1160=7.060e-13; F1360=5.780e-13; F1700=4.710e-13																														
	Alt Name2: BI-265	Equinox: J2000	Parallax: 0"																															
			Epoch of Position: 2000																															

Proposal 16816 - BI265-COS (1D) - ULLYSES LMC O5 Giants - COS

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	FUV PEAK XD (COS.sa.182 0053)	(1) BI265	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A	CENTER=FLUX-W T; NUM-POS=3; STEP-SIZE=1.3			0.5 Secs (0.5 Secs) [==>]	[1]
	Comments: Exposure time calculated.									
	2	FUV PEAK D (COS.sa.182 0053)	(1) BI265	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9			0.5 Secs (0.5 Secs) [==>]	[1]
Exposures	Comments: Exposure time calculated.									
	3	G130M/109 6 (COS.sp.182 0054)	(1) BI265	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=27 2; FP-POS=ALL			413 Secs (1652 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]
	Comments: rn(PoWR-OB-new(PoWR_40000_3.80_m7.00_Z0.50.fits, lmc-ob-i 40-38, Z=0.500 solar, Teff=40000, log_lum=5.64, log_g=3.80, log_mdots=-7.00) (extinction lmcavg=0.130), flux1160 +- 2.0A flux=7.1e-13 Flam); cos,fuv,g130m,c1096,psa,mjd#59670; fp-pos=None, segment=None) From file ULLYSES_Cycle29_MassiveStar_ProgramInput_v5.csv Spectral type: O5 III(fc) SED = BI265_COS_G130M_c1096_sed.fits For exptime=2774.1 s, spectral region: 1080.0 +- 0.5 A achieves SNR=20.0/resel global countrate (brightest segment): 7574.9 cts/s/segment brightest pixel: 0.153 cts/s/pix at 1220.0 A Calculation performed 2021-10-25T00:58:01, v0.9									



Proposal 16816 - SK-69D212-COS (2C) - ULLYSES LMC O5 Giants - COS

Thu May 25 14:01:23 GMT 2023

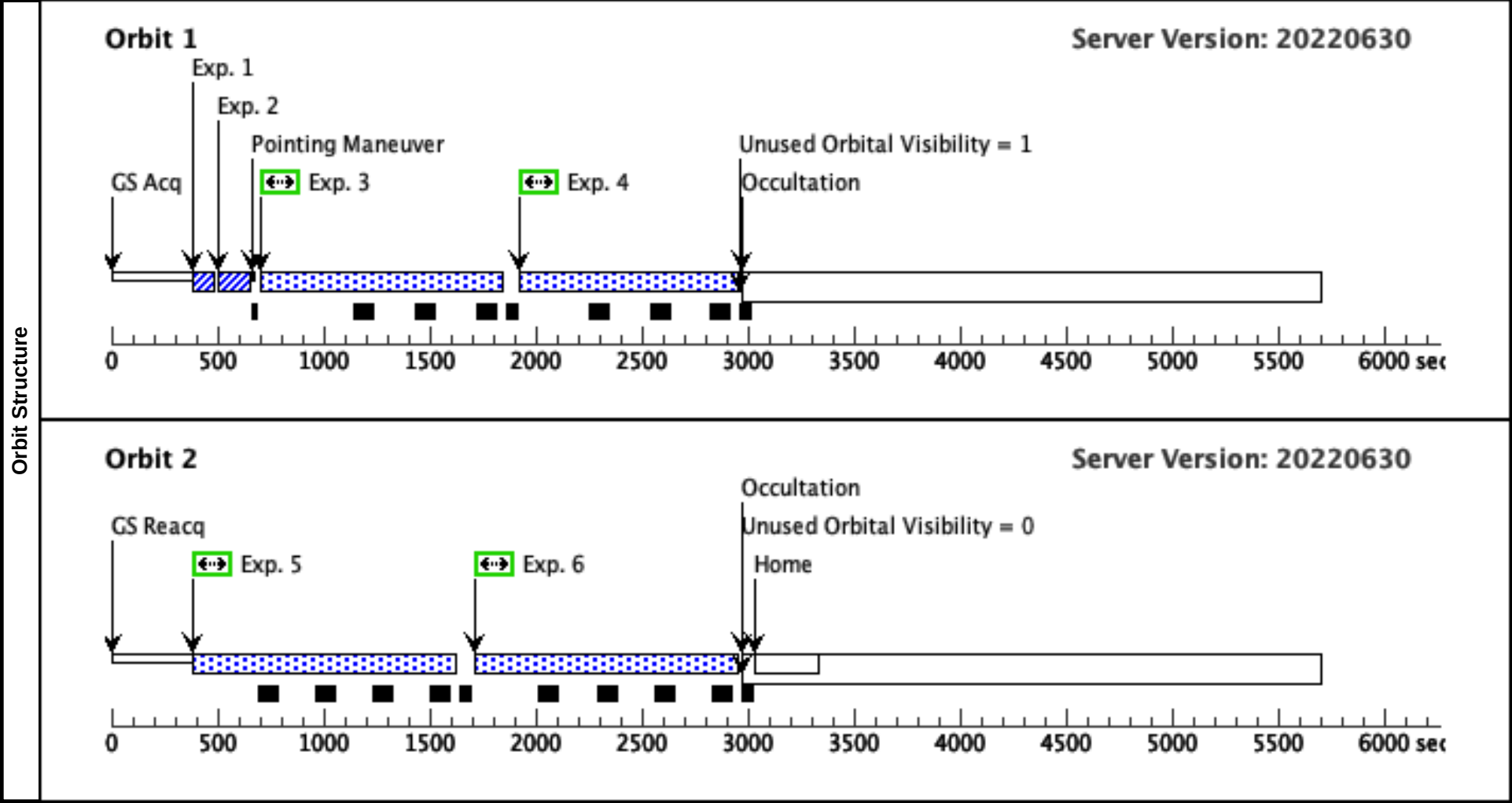
Visit	Proposal 16816, SK-69D212-COS (2C), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV Special Requirements: SCHED 100% Comments: vstatus; 2C; SK-69D212; P/COS approved for submission; P/RS 29/08/22 ; intrev: complete ; P/AF 06/10/22 vcheck; Enter targ name & Inst. & Resp. Sci.; SK-69D212 ; COS ; RS vcheck; ETC numbers entered in APT?; Yes vcheck; Any screening violations?; No ... count-rate warning for irregularly variable sources in the c1291 spectral acquisition calculation vcheck; S/N ETC calcs done & documented?; N/A vcheck; Field images checked & saved?; Yes vcheck; Selected ACQ strategy?; Yes spectroscopic acq with G130M/1291 ... several stars in the field that would be too bright for PSA if imaging acq is used vcheck; Possible ACQ or Sci spoilers?; No vcheck; Field BOT clear?; Yes ... there are a few bright stars within 8 arcsec of the target, one is a known O7V star [ST-92]2-51 which is about 4.65 arcsec away and has V=14.9 ... there is another uncataloged star at about the same distance and same V mag, these two stars are 5 and 7 in gaiaBOT ... even under the assumption that these are O5V stars the countrates are below the bright-object limit for the modes being used (COS.sp.1821390 and 1821391) vcheck; Visual BOT check for stars not in catalog?; Okay vcheck; Orbit packing finalized?; Yes vcheck; Buffer times optimized?; Yes vcheck; Verify visit grouping correct; N/A vcheck; Is visit ready for int. review?; Yes Allocated COS orbits = 2					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
Fixed Targets	(2)	SK-69D212	RA: 05 36 6.3756 (84.0265650d)	Proper Motion RA: 1.797 mas/yr	V=12.31	Reference Frame: ICRS
		Alt Name1: SK-69-212	Dec: -69 11 47.54 (-69.19654d)	Proper Motion Dec: 0.542 mas/yr	SpT=O5 In(f)p; E(B-V)=0.23; U=11.31; B=12.26; V=12.31; F1160=5.460e-13; F1360=4.930e-13; F1700=4.570e-13	
			Equinox: J2000	Parallax: 0"		
				Epoch of Position: 2000		
	Comments: SK-69D212 : SK -69 212 Previous name : Sk -69 212 Input file: ULLYSES_Cycle29_MassiveStar_ProgramInput_v5.csv SpT = O5 In(f)p COS/G130M/c1096 : rn(PoWR-OB-new(PoWR_39000_3.80_m7.00_Z0.50.fits, lmc-ob-i 39-38, Z=0.500 solar, Teff=39000, log_lum=5.54, log_g=3.80, log_mdot=-7.00) (extinction lmcavg=0.230), flux1160 +- 2.0A flux=5.5e-13 Flam) Coordinate pedigree: Gaia DR2 Calculation performed 2021-10-25T00:57:37, v0.9					
	----- tstatus; SK-69D212; P/COS approved for submission; S/ins not started; P/RS 29/08/22; S/xx DD/MM/YY tcheck; APT/SIMBAD target names: ; SK-69D212 'SK -69 212' tcheck; Target info verification status?; OK tcheck; Coordinates & P.M. verified, epoch checked?; Yes Gaia DR3 tcheck; Adopted SED compared to Observations?; Yes ... SK-69D212_adopted_sed.fits PoWR model matching STIS and UBV Category=STAR Description=[SUPERGIANT O, OF] Extended=NO					

Proposal 16816 - SK-69D212-COS (2C) - ULLYSES LMC O5 Giants - COS

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	FUV PEAK XD (COS.sa.182 0056)	(2) SK-69D212	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A	CENTER=FLUX-W T; NUM-POS=3; STEP-SIZE=1.3			0.5 Secs (0.5 Secs) [==>]	[1]
Comments: Exposure time calculated.									
2	FUV PEAK D (COS.sa.182 0056)	(2) SK-69D212	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9			0.5 Secs (0.5 Secs) [==>]	[1]
Comments: Exposure time calculated.									
3	G130M/109 6 (COS.sp.182 0057)	(2) SK-69D212	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=28 7; FP-POS=1			973 Secs (973 Secs) [==>]	[1]
Comments: rn(PoWR-OB-new(PoWR_39000_3.80_m7.00_Z0.50.fits, lmc-ob-i 39-38, Z=0.500 solar, Teff=39000, log_lum=5.54, log_g=3.80, log_mdots=-7.00) (extinction lmcavg=0.230), flux1160 +- 2.0A flux=5.5e-13 Flam); cos,fuv,g130m,c1096,psa,mjd#59670; fp-pos=None, segment=None) From file ULLYSES_Cycle29_MassiveStar_ProgramInput_v5.csv Spectral type: O5 In(f)p SED = SK-69D212_COS_G130M_c1096_sed.fits For exptime=4240.5 s, spectral region: 1080.0 +- 0.5 A achieves SNR=20.0/resel global countrate (brightest segment): 6007.9 cts/s/segment brightest pixel: 0.132 cts/s/pix at 1226.5 A Calculation performed 2021-10-25T00:57:43, v0.9									
4	G130M/109 6 (COS.sp.182 0057)	(2) SK-69D212	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=28 7; FP-POS=2			973 Secs (973 Secs) [==>]	[1]
Comments: rn(PoWR-OB-new(PoWR_39000_3.80_m7.00_Z0.50.fits, lmc-ob-i 39-38, Z=0.500 solar, Teff=39000, log_lum=5.54, log_g=3.80, log_mdots=-7.00) (extinction lmcavg=0.230), flux1160 +- 2.0A flux=5.5e-13 Flam); cos,fuv,g130m,c1096,psa,mjd#59670; fp-pos=None, segment=None) From file ULLYSES_Cycle29_MassiveStar_ProgramInput_v5.csv Spectral type: O5 In(f)p SED = SK-69D212_COS_G130M_c1096_sed.fits For exptime=4240.5 s, spectral region: 1080.0 +- 0.5 A achieves SNR=20.0/resel global countrate (brightest segment): 6007.9 cts/s/segment brightest pixel: 0.132 cts/s/pix at 1226.5 A Calculation performed 2021-10-25T00:57:43, v0.9									
5	G130M/109 6 (COS.sp.182 0057)	(2) SK-69D212	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=27 0; FP-POS=3			1190 Secs (1190 Secs) [==>]	[2]
Comments: rn(PoWR-OB-new(PoWR_39000_3.80_m7.00_Z0.50.fits, lmc-ob-i 39-38, Z=0.500 solar, Teff=39000, log_lum=5.54, log_g=3.80, log_mdots=-7.00) (extinction lmcavg=0.230), flux1160 +- 2.0A flux=5.5e-13 Flam); cos,fuv,g130m,c1096,psa,mjd#59670; fp-pos=None, segment=None) From file ULLYSES_Cycle29_MassiveStar_ProgramInput_v5.csv Spectral type: O5 In(f)p SED = SK-69D212_COS_G130M_c1096_sed.fits For exptime=4240.5 s, spectral region: 1080.0 +- 0.5 A achieves SNR=20.0/resel global countrate (brightest segment): 6007.9 cts/s/segment brightest pixel: 0.132 cts/s/pix at 1226.5 A Calculation performed 2021-10-25T00:57:43, v0.9									

Proposal 16816 - SK-69D212-COS (2C) - ULLYSES LMC O5 Giants - COS

6	G130M/109 (2) SK-69D212 6 (COS.sp.182 0057)	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=27 0; FP-POS=4	1190 Secs (1190 Secs) [==>]	[2]
Comments: rn(PoWR-OB-new(PoWR_39000_3.80_m7.00_Z0.50.fits, lmc-ob-i 39-38, Z=0.500 solar, Teff=39000, log_lum=5.54, log_g=3.80, log_mdott=-7.00) (extinction lmcavg=0.230), flux1160 +- 2.0A flux=5.5e-13 Flam); cos,fuv,g130m,c1096,psa,mjd#59670; fp-pos=None, segment=None) From file ULLYSES_Cycle29_MassiveStar_ProgramInput_v5.csv Spectral type: O5 In(f)p SED = SK-69D212_COS_G130M_c1096_sed.fits For exptime=4240.5 s, spectral region: 1080.0 +- 0.5 A achieves SNR=20.0/resel global countrate (brightest segment): 6007.9 cts/s/segment brightest pixel: 0.132 cts/s/pix at 1226.5 A Calculation performed 2021-10-25T00:57:43, v0.9						



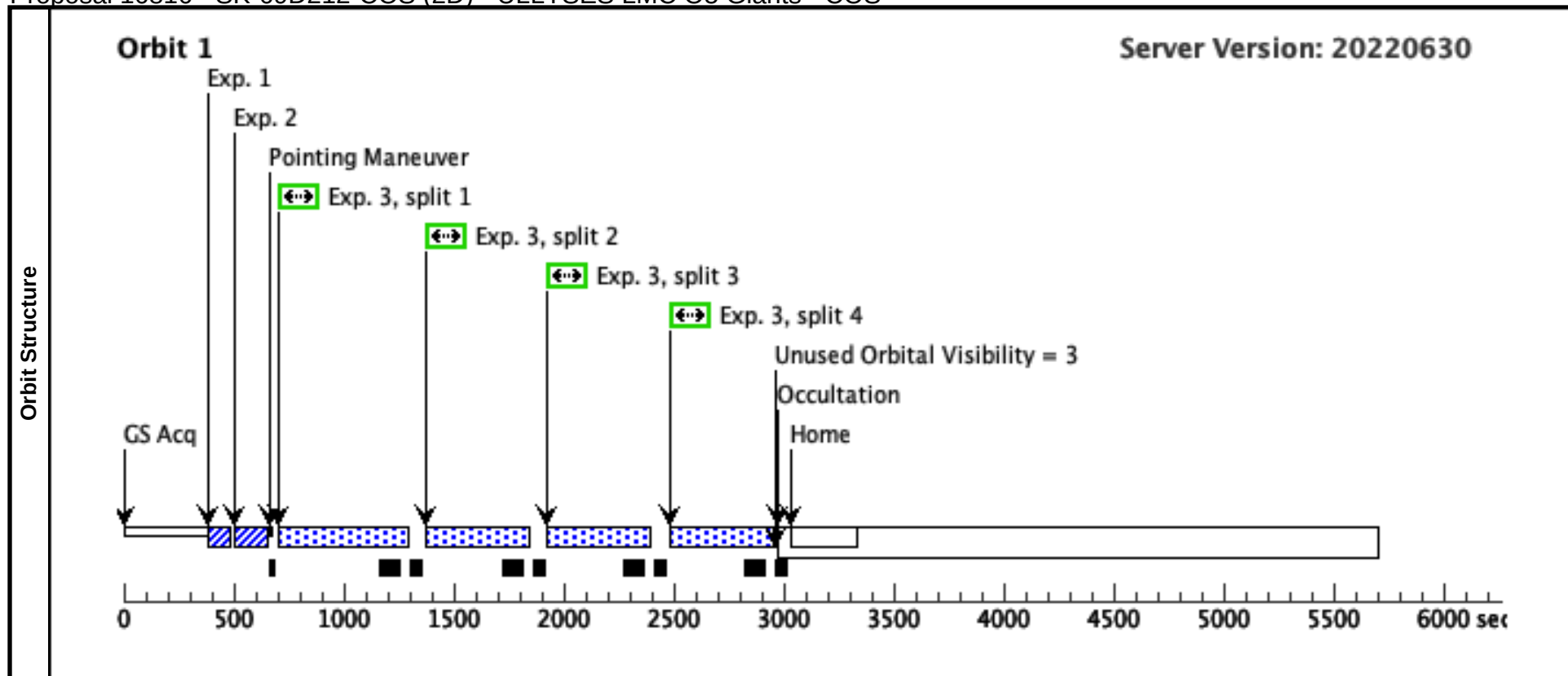
Proposal 16816 - SK-69D212-COS (2D) - ULLYSES LMC O5 Giants - COS

Thu May 25 14:01:23 GMT 2023

Visit	Proposal 16816, SK-69D212-COS (2D), completed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV Special Requirements: SCHED 100% Comments: vstatus; 2D; SK-69D212; P/COS approved for submission; P/RS 29/08/22 ; intrev: complete ; P/AF 06/10/22 vcheck; Enter targ name & Inst. & Resp. Sci.; SK-69D212 ; COS ; RS vcheck; ETC numbers entered in APT?; Yes vcheck; Any screening violations?; No ... count-rate warning for irregularly variable sources in the c1291 spectral acquisition calculation vcheck; S/N ETC calcs done & documented?; N/A vcheck; Field images checked & saved?; Yes vcheck; Selected ACQ strategy?; Yes spectroscopic acq with G130M/1291 ... several stars in the field that would be too bright for PSA if imaging acq is used vcheck; Possible ACQ or Sci spoilers?; No vcheck; Field BOT clear?; Yes ... there are a few bright stars within 8 arcsec of the target, one is a known O7V star [ST-92]2-51 which is about 4.65 arcsec away and has V=14.9 ... there is another uncataloged star at about the same distance and same V mag, these two stars are 5 and 7 in gaiaBOT ... even under the assumption that these are O5V stars the countrates are below the bright-object limit for the modes being used (COS.sp.1821390 and 1821391) vcheck; Visual BOT check for stars not in catalog?; Okay vcheck; Orbit packing finalized?; Yes vcheck; Buffer times optimized?; Yes vcheck; Verify visit grouping correct; N/A vcheck; Is visit ready for int. review?; Yes Allocated COS orbits = 2 7/3/23 AF: Visit 2D provides 1 orbit of additional exposure time with the COS G130M/1096 configuration. To implement Visit 2D: - the dispersed light target acquisition from Visit 2C was copied "as is" - the exposure time for FP-POS=ALL was adjusted to fit the single-orbit allocation: 419 s per FP-POS. A re-optimized value of the buffer time was found to be 309 s.					
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
Fixed Targets	(2)	SK-69D212	RA: 05 36 6.3756 (84.0265650d)	Proper Motion RA: 1.797 mas/yr	V=12.31	Reference Frame: ICRS
		Alt Name1: SK-69-212	Dec: -69 11 47.54 (-69.19654d) Equinox: J2000	Proper Motion Dec: 0.542 mas/yr Parallax: 0" Epoch of Position: 2000	SpT=O5 In(f)p; E(B-V)=0.23; U=11.31; B=12.26; V=12.31; F1160=5.460e-13; F1360=4.930e-13; F1700=4.570e-13	
Fixed Targets	Comments: SK-69D212 : SK -69 212 Previous name : Sk -69 212 Input file: ULLYSES_Cycle29_MassiveStar_ProgramInput_v5.csv SpT = O5 In(f)p COS/G130M/c1096 : rn(PoWR-OB-new(PoWR_39000_3.80_m7.00_Z0.50.fits, lmc-ob-i 39-38, Z=0.500 solar, Teff=39000, log_lum=5.54, log_g=3.80, log_mdod=-7.00) (extinction lmcavg=0.230), flux1160 +- 2.0A flux=5.5e-13 Flam) Coordinate pedigree: Gaia DR2 Calculation performed 2021-10-25T00:57:37, v0.9 ----- tstatus; SK-69D212; P/COS approved for submission; S/ins not started; P/RS 29/08/22; S/xx DD/MM/YY tcheck; APT/SIMBAD target names: ; SK-69D212 'SK -69 212' tcheck; Target info verification status?; OK tcheck; Coordinates & P.M. verified, epoch checked?; Yes Gaia DR3 tcheck; Adopted SED compared to Observations?; Yes ... SK-69D212_adopted_sed.fits PoWR model matching STIS and UBV Category=STAR Description=[SUPERGIANT O, OF] Extended=NO					

Proposal 16816 - SK-69D212-COS (2D) - ULLYSES LMC O5 Giants - COS

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	FUV PEAK XD (COS.sa.182 0056)	(2) SK-69D212	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A	CENTER=FLUX-W T; NUM-POS=3; STEP-SIZE=1.3			0.5 Secs (0.5 Secs) [==>]	[1]
	Comments: Exposure time calculated.									
	2	FUV PEAK D (COS.sa.182 0056)	(2) SK-69D212	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9			0.5 Secs (0.5 Secs) [==>]	[1]
Exposures	Comments: Exposure time calculated.									
	3	G130M/1096 (COS.sp.182 0057)	(2) SK-69D212	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=30 9; FP-POS=ALL			419 Secs (1676 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]
	Comments: rn(PoWR-OB-new(PoWR_39000_3.80_m7.00_Z0.50.fits, lmc-ob-i 39-38, Z=0.500 solar, Teff=39000, log_lum=5.54, log_g=3.80, log_mdots=-7.00) (extinction lmcavg=0.230), flux1160 +- 2.0A flux=5.5e-13 Flam); cos,fuv,g130m,c1096,psa,mjd#59670; fp-pos=None, segment=None) From file ULLYSES_Cycle29_MassiveStar_ProgramInput_v5.csv Spectral type: O5 In(f)p SED = SK-69D212_COS_G130M_c1096_sed.fits For exptime=4240.5 s, spectral region: 1080.0 +- 0.5 A achieves SNR=20.0/resel global countrate (brightest segment): 6007.9 cts/s/segment brightest pixel: 0.132 cts/s/pix at 1226.5 A Calculation performed 2021-10-25T00:57:43, v0.9									



Proposal 16816 - VFTS-244-COS (3C) - ULLYSES LMC O5 Giants - COS

Thu May 25 14:01:23 GMT 2023

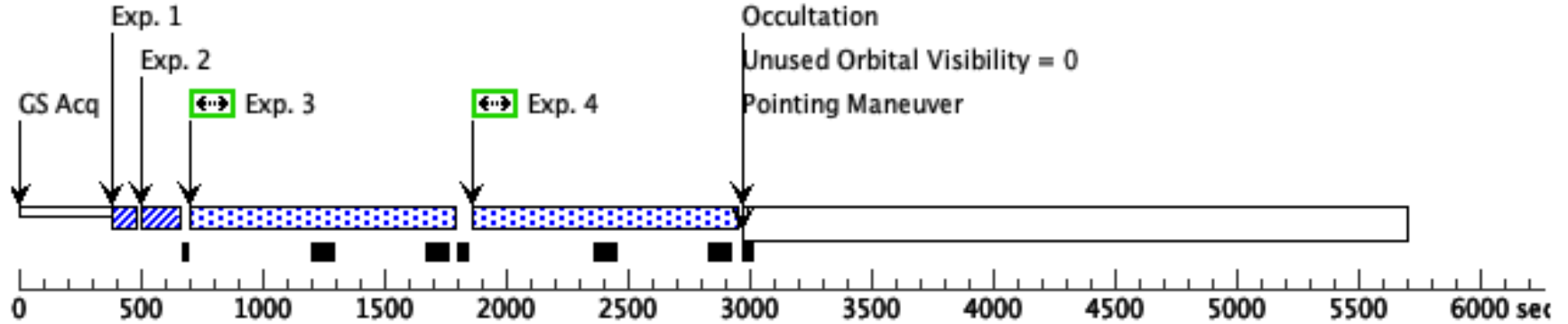
Visit	Proposal 16816, VFTS-244-COS (3C), scheduled					Thu May 25 14:01:23 GMT 2023																	
	Diagnostic Status: Warning Scientific Instruments: COS/FUV Special Requirements: SCHED 100% Comments: vstatus; 3C; VFTS-244; P/COS approved for submission; P/RS 29/08/22 ; intrev: complete ; P/AF 06/10/22 vcheck; Enter targ name & Inst. & Resp. Sci.; VFTS-244 ; COS ; RS vcheck; ETC numbers entered in APT?; Yes vcheck; Any screening violations?; No vcheck; S/N ETC calcs done & documented?; N/A vcheck; Field images checked & saved?; Yes vcheck; Selected ACQ strategy?; Yes spectroscopic acq with G130M/1291 ... several stars in the field that would be too bright for PSA if imaging acq is used vcheck; Possible ACQ or Sci spoilers?; No vcheck; Field BOT clear?; Yes vcheck; Visual BOT check for stars not in catalog?; Yes okay vcheck; Orbit packing finalized?; Yes vcheck; Buffer times optimized?; Yes vcheck; Verify visit grouping correct; N/A vcheck; Is visit ready for int. review?; Yes Allocated COS orbits = 2																						
Diagnostics	(VFTS-244-COS (3C)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions when observing at a given COS cenwave. See the COS Instrument Handbook for exceptions that may apply to observations with G130M/1291 or G160M.																						
Fixed Targets	<table><tr><th>#</th><th>Name</th><th>Target Coordinates</th><th>Targ. Coord. Corrections</th><th>Fluxes</th><th>Miscellaneous</th></tr><tr><td>(3)</td><td>VFTS-244</td><td>RA: 05 38 8.4092 (84.5350383d)</td><td>Proper Motion RA: 1.612 mas/yr</td><td>V=14.04</td><td>Reference Frame: ICRS</td></tr><tr><td></td><td>Alt Name1: 2MASS-J05380840-6905446</td><td>Dec: -69 05 44.49 (-69.09569d) Equinox: J2000</td><td>Proper Motion Dec: 0.522 mas/yr Parallax: 0" Epoch of Position: 2000</td><td>SpT=O5 III(n)(fc); E(B-V)=0.18 ; B=13.94; V=14.04; F1160=1.1 10e-13; F1360=1.050e-13; F170 0=1.020e-13</td><td></td></tr></table>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(3)	VFTS-244	RA: 05 38 8.4092 (84.5350383d)	Proper Motion RA: 1.612 mas/yr	V=14.04	Reference Frame: ICRS		Alt Name1: 2MASS-J05380840-6905446	Dec: -69 05 44.49 (-69.09569d) Equinox: J2000	Proper Motion Dec: 0.522 mas/yr Parallax: 0" Epoch of Position: 2000	SpT=O5 III(n)(fc); E(B-V)=0.18 ; B=13.94; V=14.04; F1160=1.1 10e-13; F1360=1.050e-13; F170 0=1.020e-13	
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	Comments: VFTS-244 : VFTS 244 Previous name : VFTS-244 Input file: ULLYSES_Cycle29_MassiveStar_ProgramInput_v5.csv SpT = O5 III(n)(fc) Note: Some exptime deducted due to outside program(s). COS/G130M/c1291 : rn(PoWR-OB-new(PoWR_41000_3.80_m7.00_Z0.50.fits, lmc-ob-i 41-38, Z=0.500 solar, Teff=41000, log_lum=5.73, log_g=3.80, log_mdor=-7.00) (extinction lmc30dor=0.180), flux1360 +- 2.0A flux=1e-13 Flam) COS/G160M/c1611 : rn(PoWR-OB-new(PoWR_41000_3.80_m7.00_Z0.50.fits, lmc-ob-i 41-38, Z=0.500 solar, Teff=41000, log_lum=5.73, log_g=3.80, log_mdor=-7.00) (extinction lmc30dor=0.180), flux1700 +- 2.0A flux=1e-13 Flam) Coordinate pedigree: Gaia DR2 Calculation performed 2021-10-25T00:57:46, v0.9 ----- tstatus; VFTS-244; P/COS approved for submission; S/ins not started; P/RS 29/08/22; S/xx DD/MM/YY tcheck; APT/SIMBAD target names: ; VFTS-244 'VFTS 244' tcheck; Target info verification status?; OK tcheck; Coordinates & P.M. verified, epoch checked?; Yes Gaia DR3 tcheck; Adopted SED compared to Observations?; Yes ... VFTS-244_adopted_sed.fits PoWR model matched to STIS, F336W and UBV Category=STAR Description=[GIANT O, OF] Extended=NO																						

Proposal 16816 - VFTS-244-COS (3C) - ULLYSES LMC O5 Giants - COS

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	FUV PEAK XD (COS.sa.182 0068)	(3) VFTS-244	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A	CENTER=FLUX-W T; NUM-POS=3; STEP-SIZE=1.3			1.0 Secs (1 Secs) [==>]	[1]
	Comments: Exposure time calculated.									
	2	FUV PEAK D (COS.sa.182 0068)	(3) VFTS-244	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9			1.0 Secs (1 Secs) [==>]	[1]
	Comments: Exposure time calculated.									
	3	G130M/129 1-3 (COS.sp.182 0069)	(3) VFTS-244	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=46 3; FP-POS=3			1036 Secs (1036 Secs) [==>]	[1]
	Comments: rn(PoWR-OB-new(PoWR_41000_3.80_m7.00_Z0.50.fits, lmc-ob-i 41-38, Z=0.500 solar, Teff=41000, log_lum=5.73, log_g=3.80, log_mdor=-7.00) (extinction lmc30dor=0.180), flux1360 +- 2.0A flux=1e-13 Flam); cos,fuv,g130m,c1291.psa,mjd#59670; fp-pos=None, segment=None) From file ULLYSES_Cycle29_MassiveStar_ProgramInput_v5.csv Spectral type: O5 III(n)(fc) SED = VFTS-244_COS_G130M_c1291_sed.fits For exptime=1590.5 s, spectral region: 1150.0 +- 0.5 A achieves SNR=30.0/resel global countrate (brightest segment): 2083.6 cts/s/segment brightest pixel: 0.046 cts/s/pix at 1243.5 A Calculation performed 2021-10-25T00:57:49, v0.9									
	4	G130M/129 1-4 (COS.sp.182 0069)	(3) VFTS-244	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=46 4; FP-POS=4			1037 Secs (1037 Secs) [==>]	[1]
	Comments: rn(PoWR-OB-new(PoWR_41000_3.80_m7.00_Z0.50.fits, lmc-ob-i 41-38, Z=0.500 solar, Teff=41000, log_lum=5.73, log_g=3.80, log_mdor=-7.00) (extinction lmc30dor=0.180), flux1360 +- 2.0A flux=1e-13 Flam); cos,fuv,g130m,c1291.psa,mjd#59670; fp-pos=None, segment=None) From file ULLYSES_Cycle29_MassiveStar_ProgramInput_v5.csv Spectral type: O5 III(n)(fc) SED = VFTS-244_COS_G130M_c1291_sed.fits For exptime=1590.5 s, spectral region: 1150.0 +- 0.5 A achieves SNR=30.0/resel global countrate (brightest segment): 2083.6 cts/s/segment brightest pixel: 0.046 cts/s/pix at 1243.5 A Calculation performed 2021-10-25T00:57:49, v0.9									
	5	G160M/161 1 (COS.sp.182 0070)	(3) VFTS-244	COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=42 5; FP-POS=ALL			535 Secs (2140 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[2]
	Comments: rn(PoWR-OB-new(PoWR_41000_3.80_m7.00_Z0.50.fits, lmc-ob-i 41-38, Z=0.500 solar, Teff=41000, log_lum=5.73, log_g=3.80, log_mdor=-7.00) (extinction lmc30dor=0.180), flux1700 +- 2.0A flux=1e-13 Flam); cos,fuv,g160m,c1611.psa,mjd#59670; fp-pos=None, segment=None) From file ULLYSES_Cycle29_MassiveStar_ProgramInput_v5.csv Spectral type: O5 III(n)(fc) SED = VFTS-244_COS_G160M_c1611_sed.fits For exptime=2058.0 s, spectral region: 1590.0 +- 0.5 A achieves SNR=30.0/resel global countrate (brightest segment): 1631.7 cts/s/segment brightest pixel: 0.027 cts/s/pix at 1423.5 A Calculation performed 2021-10-25T00:57:51, v0.9									

Orbit 1

Server Version: 20220630



Orbit 2

Server Version: 20220630

