



16101 - ULLYSES SMC B1 Stars COS

Cycle: 27, Proposal Category: GO/DD

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
1C	(1) 2DFS-3694	COS/FUV	2	18-Dec-2020 12:00:47.0	yes
AC	(1) 2DFS-3694	COS/FUV	2	18-Dec-2020 12:00:49.0	yes
2C	(2) AV175	COS/FUV	3	18-Dec-2020 12:00:50.0	yes
3C	(3) AV224	COS/FUV	3	18-Dec-2020 12:00:52.0	yes
4C	(4) NGC346-ELS-35	COS/FUV	2	18-Dec-2020 12:00:54.0	yes
5C	(5) SK173	COS/FUV	2	18-Dec-2020 12:00:55.0	yes

14 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

Proposal 16101 (STScI Edit Number: 0, Created: Friday, December 18, 2020 at 12:00:56 PM Eastern Standard Time) - Overview

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 <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 16101 - 2DFS-3694-COS (1C) - ULLYSES SMC B1 Stars COS

Fri Dec 18 17:00:56 GMT 2020

Visit	Proposal 16101, 2DFS-3694-COS (1C), failed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV Special Requirements: SCHED 100% Comments: vstatus; 1C; 2DFS-3694; P/COS Approved for submission; P/RS 04/07/20 ; intrev: complete ; COS/CP 13/07/20 vcheck; Enter targ name & Inst. & Resp. Sci.; 2DFS-3694 ; 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?; COS G130M/1291 PSA Spectroscopic ACQ 1 s ... Imaging ACQ would need BOA, and be complicated by bright star in the field violating PSA health and safety. vcheck; Possible ACQ or Sci spoilers?; No vcheck; Field BOT clear?; Yes; 7 safe field sources reported. ... The target itself is listed as posing a safety issue for c1291 observations, but that is due to the assumption of an O5V source. Examination of the field, and the catalogs of Massey et al. (2002), Evans (2004) the 2dFS catalog, and Ramachandran et al. (2019) indicate that there is one other B0 star in the BOA macroaperture with a visual magnitude of 16.48. vcheck; Visual BOT check for stars not in catalog?; OK vcheck; Orbit packing finalized?; Done vcheck; Buffer times optimized?; Done vcheck; Verify visit grouping correct; None needed vcheck; Is visit ready for int. review?; Yes Allocated COS orbits = 2															
	<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>2DFS-3694</td><td>RA: 01 24 34.4448 (21.1435200d) Dec: -73 09 8.89 (-73.15247d) Equinox: J2000</td><td>Proper Motion RA: 1.230 mas/yr Proper Motion Dec: -1.270 mas/yr Epoch of Position: 2000</td><td>V=13.92 SpT=B1 IV; E(B-V)=0.07; U=1 2.8; B=13.7; V=13.9</td><td>Reference Frame: ICRS</td></tr> </table> Comments: 2DFS-3694 : [2dFS]-3694, [2dFS]_3694, 2dFS 3694 Previous name : [2dFS]-3694 Input file: SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv SIMBAD link (2dFS 3694): https://simbad.u-strasbg.fr/simbad/sim-id?Ident=2dFS+3694&submit=submit+id SpT = B1 IV COS/G130M/c1096 : rn(WM-Basic(B1 V, Z=0.004, Teff=26303, log_lum=4.45, log_g=4.00) (extinction smcbar=0.070), johnson U mag=12.800 vegamag) COS/G130M/c1291 : rn(WM-Basic(B1 V, Z=0.004, Teff=26303, log_lum=4.45, log_g=4.00) (extinction smcbar=0.070), johnson U mag=12.800 vegamag) COS/G160M/c1611 : rn(WM-Basic(B1 V, Z=0.004, Teff=26303, log_lum=4.45, log_g=4.00) (extinction smcbar=0.070), johnson U mag=12.800 vegamag) COS/G185M/c1921 : rn(WM-Basic(B1 V, Z=0.004, Teff=26303, log_lum=4.45, log_g=4.00) (extinction smcbar=0.070), johnson U mag=12.800 vegamag) COS/G185M/c1953 : rn(WM-Basic(B1 V, Z=0.004, Teff=26303, log_lum=4.45, log_g=4.00) (extinction smcbar=0.070), johnson U mag=12.800 vegamag) COS/G185M/c1986 : rn(WM-Basic(B1 V, Z=0.004, Teff=26303, log_lum=4.45, log_g=4.00) (extinction smcbar=0.070), johnson U mag=12.800 vegamag) STIS/E140M/c1425 : rn(WM-Basic(B1 V, Z=0.004, Teff=26303, log_lum=4.45, log_g=4.00) (extinction smcbar=0.070), johnson U mag=12.800 vegamag) STIS/E230M/c1978 : rn(WM-Basic(B1 V, Z=0.004, Teff=26303, log_lum=4.45, log_g=4.00) (extinction smcbar=0.070), johnson U mag=12.800 vegamag) STIS/E230M/c2707 : rn(WM-Basic(B1 V, Z=0.004, Teff=26303, log_lum=4.45, log_g=4.00) (extinction smcbar=0.070), johnson U mag=12.800 vegamag) Coordinate pedigree: Gaia v sin i = 120 Calculation performed 2020-02-24T17:51:02, v0.4 ----- tstatus; 2DFS-3694; P/COS Approved for submission ; S/ins not started; P/RS 28/06/20; S/xx DD/MM/YY tcheck; APT/SIMBAD target names: ; 2DFS-3694, 2dFS 3694, [M2002] SMC 81522 tcheck; Target info verification status?; Verified tcheck; Coordinates & P.M. updated?; Updated, GAIA DR2 tcheck; Adopted SED compared to Observations?; OK - No FUV data, matches photometry Category=EXT-STAR Description=[B0-B2 V-IV] Extended=NO					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	2DFS-3694	RA: 01 24 34.4448 (21.1435200d) Dec: -73 09 8.89 (-73.15247d) Equinox: J2000	Proper Motion RA: 1.230 mas/yr Proper Motion Dec: -1.270 mas/yr Epoch of Position: 2000	V=13.92 SpT=B1 IV; E(B-V)=0.07; U=1 2.8; B=13.7; V=13.9
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Proposal 16101 - 2DFS-3694-COS (1C) - ULLYSES SMC B1 Stars COS

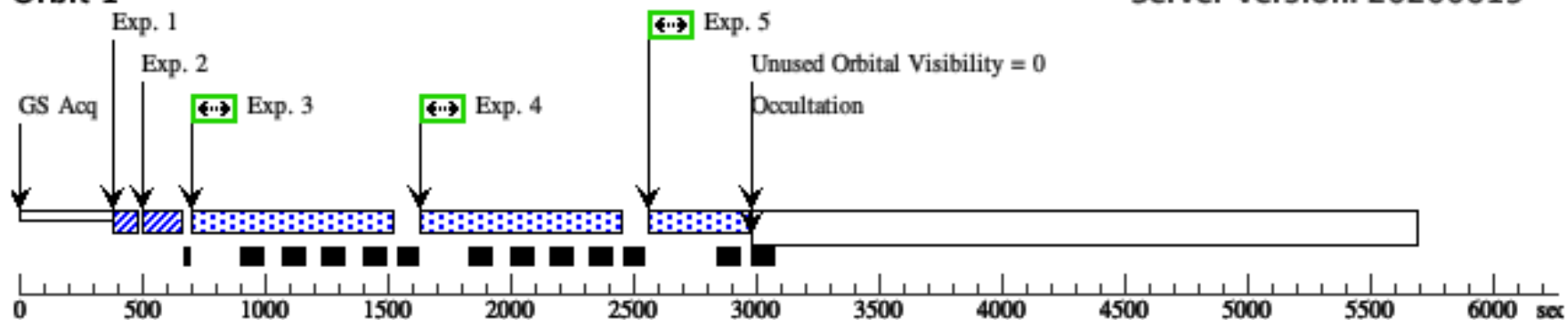
[illegible]

Proposal 16101 - 2DFS-3694-COS (1C) - ULLYSES SMC B1 Stars COS

6	G160M/161 (1) 2DFS-3694 1 (COS.sp.145 3877)	COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=43 0; FP-POS=ALL	585 Secs (2093 Secs)	
					[==>338.0 Secs (Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[2]
Comments: rn(WM-Basic(B1 V, Z=0.004, Teff=26303, log_lum=4.45, log_g=4.00) (extinction smcbar=0.070), johnson U mag=12.800 vegamag); cos,fuv,g160m,c1611,psa,mjd#59305; fp-pos=None, segment=None) From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv Spectral type: B1 IV --> B1 V SED = 2DFS-3694_COS_G160M_c1611_sed.fits For exptime=1362.8 s, spectral region: 1590.0 +- 0.5 A achieves SNR=30.0/resel global countrate (brightest segment): 2745.5 cts/s/segment brightest pixel: 0.046 cts/s/pix at 1435.0 A Calculation performed 2020-02-24T17:51:09, v0.4						

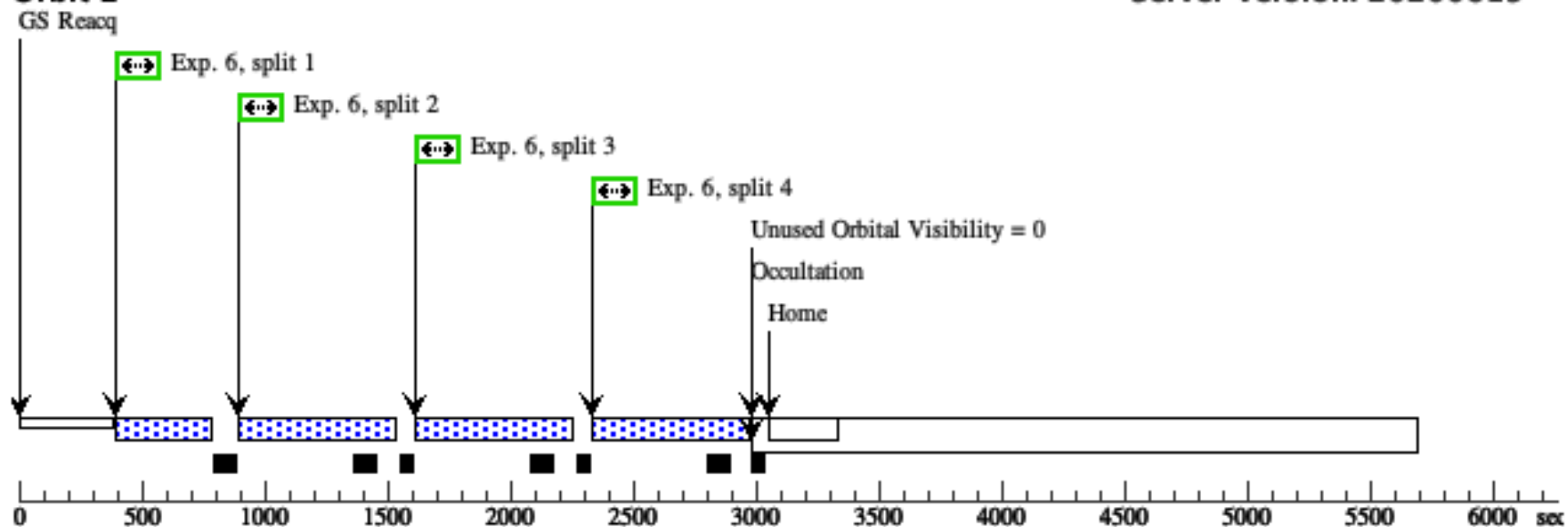
Orbit 1

Server Version: 20200619



Orbit 2

Server Version: 20200619



Proposal 16101 - 2DFS-3694-COS (AC) - ULLYSES SMC B1 Stars COS

Fri Dec 18 17:00:56 GMT 2020

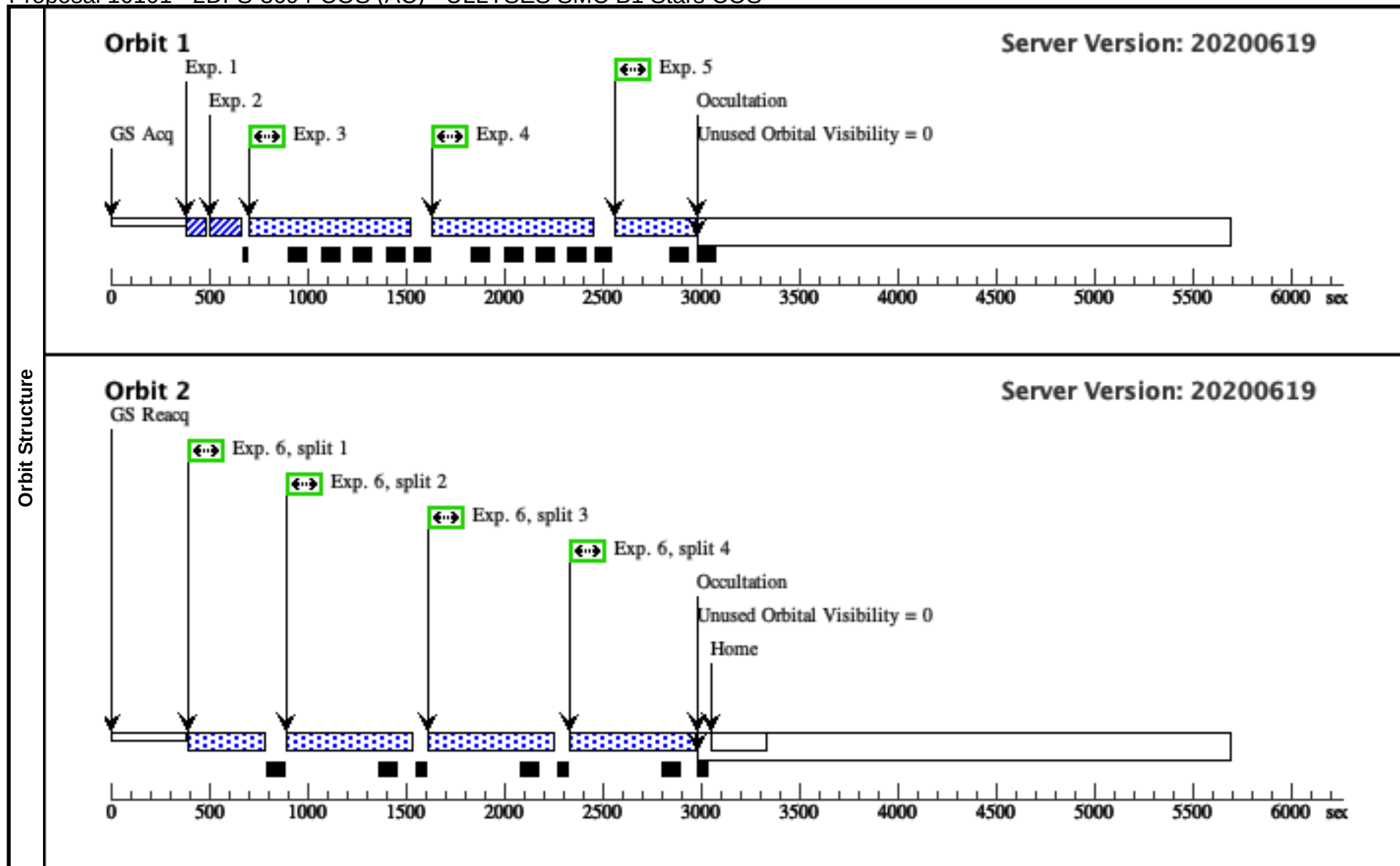
Visit	Proposal 16101, 2DFS-3694-COS (AC), implementation Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV Special Requirements: SCHED 100% Comments: vstatus; AC; 2DFS-3694; P/COS Approved for submission; P/RS 04/07/20 ; intrev: complete ; COS/CP 13/07/20 vcheck; Enter targ name & Inst. & Resp. Sci.; 2DFS-3694 ; 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?; COS G130M/1291 PSA Spectroscopic ACQ 1 s ... Imaging ACQ would need BOA, and be complicated by bright star in the field violating PSA health and safety. vcheck; Possible ACQ or Sci spoilers?; No vcheck; Field BOT clear?; Yes; 7 safe field sources reported. ... The target itself is listed as posing a safety issue for c1291 observations, but that is due to the assumption of an O5V source. Examination of the field, and the catalogs of Massey et al. (2002), Evans (2004) the 2dFS catalog, and Ramachandran et al. (2019) indicate that there is one other B0 star in the BOA macroaperture with a visual magnitude of 16.48. vcheck; Visual BOT check for stars not in catalog?; OK vcheck; Orbit packing finalized?; Done vcheck; Buffer times optimized?; Done vcheck; Verify visit grouping correct; None needed vcheck; Is visit ready for int. review?; Yes Allocated COS orbits = 2															
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Proposal 16101 - 2DFS-3694-COS (AC) - ULLYSES SMC B1 Stars COS

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/PEAK XD (COS.sa.145 3875)	(1) 2DFS-3694	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A	CENTER=FLUX-W T; NUM-POS=3; STEP-SIZE=1.3; SEGMENT=BOTH			1.0 Secs (1 Secs) [==>]	[1]
	2	ACQ/PEAK D (COS.sa.145 3875)	(1) 2DFS-3694	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9; SEGMENT=BOTH			1.0 Secs (1 Secs) [==>]	[1]
	3	G130M/129 1-3 (COS.sp.145 3876)	(1) 2DFS-3694	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=16 4; FP-POS=3			767.0 Secs (767 Secs) [==>]	[1]
	Comments: rn(WM-Basic(B1 V, Z=0.004, Teff=26303, log_lum=4.45, log_g=4.00) (extinction smcbar=0.070), johnson U mag=12.800 vegamag); cos,fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None) From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv Spectral type: B1 IV --> B1 V SED = 2DFS-3694_COS_G130M_c1291_sed.fits For exptime=887.3 s, spectral region: 1150.0 +- 0.5 A achieves SNR=30.0/resel global countrate (brightest segment): 4562.4 cts/s/segment brightest pixel: 0.072 cts/s/pix at 1265.0 A Calculation performed 2020-02-24T17:51:06, v0.4									
Exposures	4	G130M/129 1-4 (COS.sp.145 3876)	(1) 2DFS-3694	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=16 4; FP-POS=4			767.0 Secs (767 Secs) [==>]	[1]
	Comments: rn(WM-Basic(B1 V, Z=0.004, Teff=26303, log_lum=4.45, log_g=4.00) (extinction smcbar=0.070), johnson U mag=12.800 vegamag); cos,fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None) From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv Spectral type: B1 IV --> B1 V SED = 2DFS-3694_COS_G130M_c1291_sed.fits For exptime=887.3 s, spectral region: 1150.0 +- 0.5 A achieves SNR=30.0/resel global countrate (brightest segment): 4562.4 cts/s/segment brightest pixel: 0.072 cts/s/pix at 1265.0 A Calculation performed 2020-02-24T17:51:06, v0.4									
	5	G160M/161 1 (COS.sp.145 3877)	(1) 2DFS-3694	COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=13 3; FP-POS=1			243 Secs (243 Secs) [==>]	[1]
	Comments: rn(WM-Basic(B1 V, Z=0.004, Teff=26303, log_lum=4.45, log_g=4.00) (extinction smcbar=0.070), johnson U mag=12.800 vegamag); cos,fuv,g160m,c1611,psa,mjd#59305; fp-pos=None, segment=None) From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv Spectral type: B1 IV --> B1 V SED = 2DFS-3694_COS_G160M_c1611_sed.fits For exptime=1362.8 s, spectral region: 1590.0 +- 0.5 A achieves SNR=30.0/resel global countrate (brightest segment): 2745.5 cts/s/segment brightest pixel: 0.046 cts/s/pix at 1435.0 A Calculation performed 2020-02-24T17:51:09, v0.4									

Proposal 16101 - 2DFS-3694-COS (AC) - ULLYSES SMC B1 Stars COS

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						[==>338.0 Secs (Split 1)]	
						[==>(Split 2)]	
						[==>(Split 3)]	
						[==>(Split 4)]	
Comments: rn(WM-Basic(B1 V, Z=0.004, Teff=26303, log_lum=4.45, log_g=4.00) (extinction smcbar=0.070), johnson U mag=12.800 vegamag); cos,fuv,g160m,c1611,psa,mjd#59305; fp-pos=None, segment=None) From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv Spectral type: B1 IV --> B1 V SED = 2DFS-3694_COS_G160M_c1611_sed.fits For exptime=1362.8 s, spectral region: 1590.0 +- 0.5 A achieves SNR=30.0/resel global countrate (brightest segment): 2745.5 cts/s/segment brightest pixel: 0.046 cts/s/pix at 1435.0 A Calculation performed 2020-02-24T17:51:09, v0.4							



Proposal 16101 - AV175-COS (2C) - ULLYSES SMC B1 Stars COS

Visit	Proposal 16101, AV175-COS (2C), completed					
	Fri Dec 18 17:00:56 GMT 2020					
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: COS/FUV					
	Special Requirements: SCHED 100%					
	Comments: vstatus; 2C; AV175; P/COS Approved for submission; P/RS 05/07/20 ; intrev: complete ; COS/CP 13/07/20					
	vcheck; Enter targ name & Inst. & Resp. Sci.; AV175 ; 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?; G130M/1291 Spectroscopic ACQ ...					
	Several stars in larger macro-aperture that pose a safety issue for PSA observations.					
	vcheck; Possible ACQ or Sci spoilers?; No					
	vcheck; Field BOT clear?; Yes ; 19 safe and 1 unknown reported ...					
	Zaritsky et al. (2002) shows the presence of a V=17.14 star within the PSA macro-aperture, and several sources with V between 17 and 18th magnitude in the BOA macro-aperture.					
	vcheck; Visual BOT check for stars not in catalog?; Okay					
	vcheck; Orbit packing finalized?; Done					
	vcheck; Buffer times optimized?; Done					
	vcheck; Verify visit grouping correct; None needed					
	vcheck; Is visit ready for int. review?; Yes					
	Allocated COS orbits = 3					
	</					

Proposal 16101 - AV175-COS (2C) - ULLYSES SMC B1 Stars COS

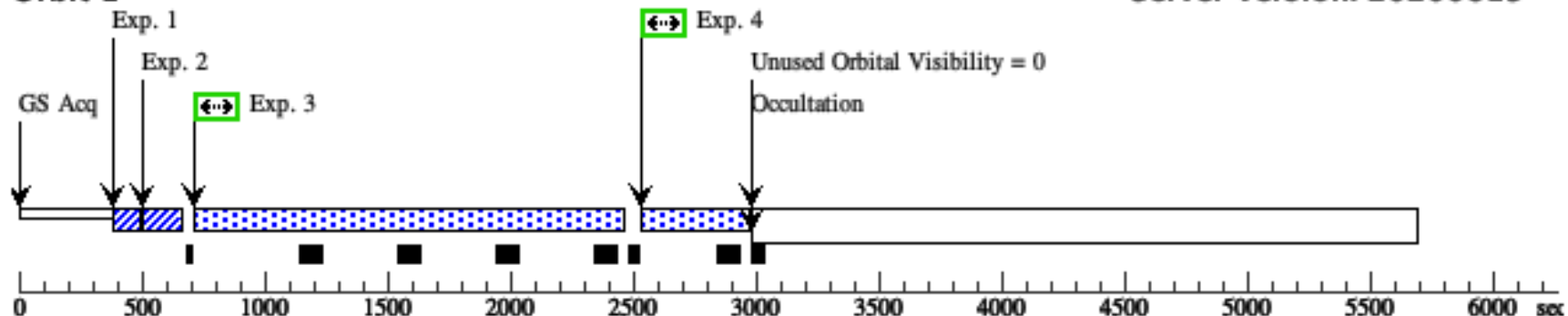
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/PEAK XD (COS.sa.145 3994)	(2) AV175	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A	CENTER=FLUX-W T; NUM-POS=3; STEP-SIZE=1.3; SEGMENT=BOTH			2.0 Secs (2 Secs) [==>]	[1]
	2	ACQ/PEAK D (COS.sa.145 3994)	(2) AV175	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9; SEGMENT=BOTH			2.0 Secs (2 Secs) [==>]	[1]
	3	G130M/129 1-3 (COS.sp.145 3995)	(2) AV175	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=39 7; FP-POS=3			1700.0 Secs (1700 Secs) [==>]	[1]
	Comments: rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.160), flux1360 +- 30.0A flux=1.4e-13 Flam); cos,fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None) From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv Spectral type: B1 IIW --> B0.5 I SED = AV175_COS_G130M_c1291_sed.fits For exptime=2597.2 s, spectral region: 1150.0 +- 0.5 A achieves SNR=30.0/resel global countrate (brightest segment): 2065.4 cts/s/segment brightest pixel: 0.033 cts/s/pix at 1275.0 A Calculation performed 2020-02-24T17:50:05, v0.4									
	4	G130M/129 1-4 (COS.sp.145 3995)	(2) AV175	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=27 4; FP-POS=4			384.0 Secs (384 Secs) [==>]	[1]
	Comments: rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.160), flux1360 +- 30.0A flux=1.4e-13 Flam); cos,fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None) From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv Spectral type: B1 IIW --> B0.5 I SED = AV175_COS_G130M_c1291_sed.fits For exptime=2597.2 s, spectral region: 1150.0 +- 0.5 A achieves SNR=30.0/resel global countrate (brightest segment): 2065.4 cts/s/segment brightest pixel: 0.033 cts/s/pix at 1275.0 A Calculation performed 2020-02-24T17:50:05, v0.4									
	5	G130M/129 1-4 (COS.sp.145 3995)	(2) AV175	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=40 2; FP-POS=4			1316.0 Secs (1316 Secs) [==>]	[2]
Comments: rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.160), flux1360 +- 30.0A flux=1.4e-13 Flam); cos,fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None) From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv Spectral type: B1 IIW --> B0.5 I SED = AV175_COS_G130M_c1291_sed.fits For exptime=2597.2 s, spectral region: 1150.0 +- 0.5 A achieves SNR=30.0/resel global countrate (brightest segment): 2065.4 cts/s/segment brightest pixel: 0.033 cts/s/pix at 1275.0 A Calculation performed 2020-02-24T17:50:05, v0.4										

Proposal 16101 - AV175-COS (2C) - ULLYSES SMC B1 Stars COS

6	G160M/161 (2) AV175 1 (COS.sp.145 3996)	COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=64 0; FP-POS=ALL	750 Secs (3279 Secs)	
					[==>978.0 Secs (Split 1)]	[2]
					[==>767.0 Secs (Split 2)]	[3]
					[==>767.0 Secs (Split 3)]	
					[==>767.0 Secs (Split 4)]	
Comments: rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.160), flux1700 +- 5.0A flux=1.2e-13 Flam); cos,fuv,g160m,c1611,psa,mjd#59305; fp-pos=None, segment=None) From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv Spectral type: B1 IIW --> B0.5 I SED = AV175_COS_G160M_c1611_sed.fits For exptime=2479.5 s, spectral region: 1590.0 +- 0.5 A achieves SNR=30.0/resel global countrate (brightest segment): 1428.1 cts/s/segment brightest pixel: 0.022 cts/s/pix at 1435.0 A Calculation performed 2020-02-24T17:50:08, v0.4						

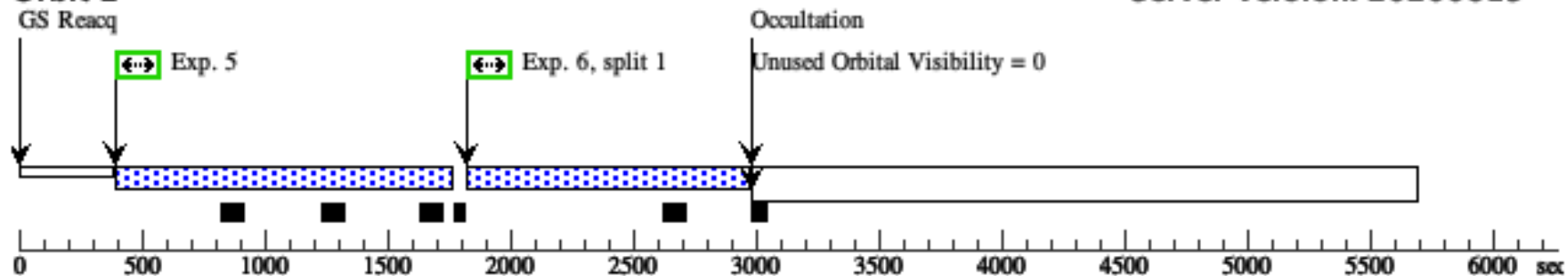
Orbit 1

Server Version: 20200619



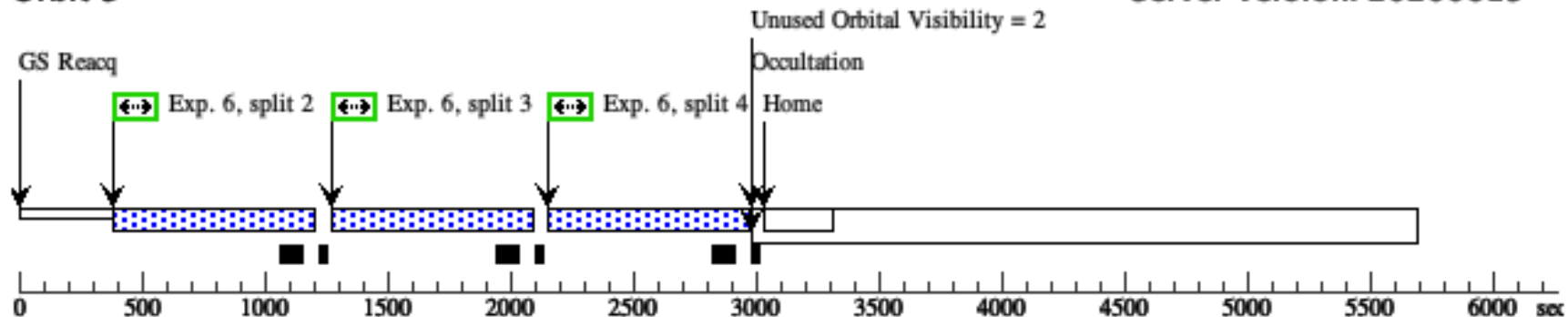
Orbit 2

Server Version: 20200619



Orbit 3

Server Version: 20200619



Proposal 16101 - AV224-COS (3C) - ULLYSES SMC B1 Stars COS

Fri Dec 18 17:00:56 GMT 2020

Visit	Proposal 16101, AV224-COS (3C), completed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV Special Requirements: SCHED 100% Comments: vstatus; 3C; AV224; P/COS Approved for submission ; P/RS 05/07/20 ; intrev: complete ; COS/CP 13/07/20 vcheck; Enter targ name & Inst. & Resp. Sci.; AV224 ; 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?; G130M/1291 spectroscopic ACQ ... Several stars in larger macro-aperture that pose a safety issue for PSA observations. vcheck; Possible ACQ or Sci spoilers?; No vcheck; Field BOT clear?; Yes ; Health and safety violation reported for target in c1291 observations because of O5V assumption, and 16 safe targets in the field ... Zaritsky et al (2002) reports a V=18.6 star in the smaller macro-aperture, and several stars between V=16.5 and 18.0 in the larger macro-aperture. vcheck; Visual BOT check for stars not in catalog?; Okay vcheck; Orbit packing finalized?; Done ... The c1611 exposures were separated into individual FPPOS with two FPPOS=2 exposures to pack the orbits vcheck; Buffer times optimized?; Done vcheck; Verify visit grouping correct; None needed vcheck; Is visit ready for int. review?; Yes Allocated COS orbits = 3																											
	<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>AV224</td><td>RA: 00 59 16.0387 (14.8168279d)</td><td>Proper Motion RA: 0.874 mas/yr</td><td>V=14.12</td><td>Reference Frame: ICRS</td></tr> <tr> <td></td><td>Alt Name1: M2002-45809</td><td>Dec: -72 04 44.51 (-72.07903d)</td><td>Proper Motion Dec: -1.390 mas/yr</td><td>SpT=B1 III; E(B-V)=0.11; U=13.0; B=14.0; V=14.1</td><td></td></tr> <tr> <td></td><td>Alt Name2: AV-224</td><td>Equinox: J2000</td><td>Epoch of Position: 2000</td><td></td><td></td></tr> </table> Comments: AV224 : [M2002]_45809, AV 224, AzV 224 Previous name : AV 224 Input file: SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv SIMBAD link (AzV 224): https://simbad.u-strasbg.fr/simbad/sim-id?Ident=AzV+224&submit=submit+id SpT = B1 III COS/G130M/c1096 : rn(WM-Basic(B1 III, Z=0.004, Teff=24547, log_lum=4.80, log_g=3.47) (extinction smcbar=0.110), johnson U mag=13.020 vegamag) COS/G130M/c1291 : rn(WM-Basic(B1 III, Z=0.004, Teff=24547, log_lum=4.80, log_g=3.47) (extinction smcbar=0.110), johnson U mag=13.020 vegamag) COS/G160M/c1611 : rn(WM-Basic(B1 III, Z=0.004, Teff=24547, log_lum=4.80, log_g=3.47) (extinction smcbar=0.110), johnson U mag=13.020 vegamag) COS/G185M/c1921 : rn(WM-Basic(B1 III, Z=0.004, Teff=24547, log_lum=4.80, log_g=3.47) (extinction smcbar=0.110), johnson U mag=13.020 vegamag) COS/G185M/c1953 : rn(WM-Basic(B1 III, Z=0.004, Teff=24547, log_lum=4.80, log_g=3.47) (extinction smcbar=0.110), johnson U mag=13.020 vegamag) COS/G185M/c1986 : rn(WM-Basic(B1 III, Z=0.004, Teff=24547, log_lum=4.80, log_g=3.47) (extinction smcbar=0.110), johnson U mag=13.020 vegamag) STIS/E140M/c1425 : rn(WM-Basic(B1 III, Z=0.004, Teff=24547, log_lum=4.80, log_g=3.47) (extinction smcbar=0.110), johnson U mag=13.020 vegamag) STIS/E230M/c1978 : rn(WM-Basic(B1 III, Z=0.004, Teff=24547, log_lum=4.80, log_g=3.47) (extinction smcbar=0.110), johnson U mag=13.020 vegamag) STIS/E230M/c2707 : rn(WM-Basic(B1 III, Z=0.004, Teff=24547, log_lum=4.80, log_g=3.47) (extinction smcbar=0.110), johnson U mag=13.020 vegamag) Coordinate pedigree: Gaia v sin i = 299 Calculation performed 2020-02-24T17:50:47, v0.4 ----- tstatus; AV224; P/COS Approved for submission ; S/ins not started; P/RS 28/06/20; S/xx DD/MM/YY tcheck; APT/SIMBAD target names: ; AV224, AzV 224 tcheck; Target info verification status?; Verified... SIMBAD gives target type as B1e and Vmag 14.21 tcheck; Coordinates & P.M. updated?; Updated, GAIA DR2 tcheck; Adopted SED compared to Observations?; OK - No FUV data, matches photometry Category=EXT-STAR Description=[B0-B2 III-I] Extended=NO					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(3)	AV224	RA: 00 59 16.0387 (14.8168279d)	Proper Motion RA: 0.874 mas/yr	V=14.12	Reference Frame: ICRS		Alt Name1: M2002-45809	Dec: -72 04 44.51 (-72.07903d)	Proper Motion Dec: -1.390 mas/yr	SpT=B1 III; E(B-V)=0.11; U=13.0; B=14.0; V=14.1			Alt Name2: AV-224	Equinox: J2000	Epoch of Position: 2000	
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																							
(3)	AV224	RA: 00 59 16.0387 (14.8168279d)	Proper Motion RA: 0.874 mas/yr	V=14.12	Reference Frame: ICRS																							
	Alt Name1: M2002-45809	Dec: -72 04 44.51 (-72.07903d)	Proper Motion Dec: -1.390 mas/yr	SpT=B1 III; E(B-V)=0.11; U=13.0; B=14.0; V=14.1																								
	Alt Name2: AV-224	Equinox: J2000	Epoch of Position: 2000																									

Proposal 16101 - AV224-COS (3C) - ULLYSES SMC B1 Stars COS

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/PEAK XD (COS.sa.145 4021)	(3) AV224	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A	CENTER=FLUX-W T; NUM-POS=3; STEP-SIZE=1.3; SEGMENT=BOTH			1.5 Secs (1.5 Secs) [==>]	[1]
	2	ACQ/PEAK D (COS.sa.145 4021)	(3) AV224	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9; SEGMENT=BOTH			1.5 Secs (1.5 Secs) [==>]	[1]
	3	G130M/129 1-3 (COS.sp.145 4022)	(3) AV224	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=33 8; FP-POS=3			1460 Secs (1460 Secs) [==>]	[1]
	Comments: rn(WM-Basic(B1 III, Z=0.004, Teff=24547, log_lum=4.80, log_g=3.47) (extinction smcbar=0.110), johnson U mag=13.020 vegamag); cos,fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None) From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv Spectral type: B1 III --> B1 III SED = AV224_COS_G130M_c1291_sed.fits For exptime=2317.2 s, spectral region: 1150.0 +- 0.5 A achieves SNR=30.0/resel global countrate (brightest segment): 2016.1 cts/s/segment brightest pixel: 0.032 cts/s/pix at 1272.0 A Calculation performed 2020-02-24T17:50:51, v0.4									
	4	G130M/129 1-4 (COS.sp.145 4022)	(3) AV224	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=24 5; FP-POS=4			600 Secs (600 Secs) [==>]	[1]
	Comments: rn(WM-Basic(B1 III, Z=0.004, Teff=24547, log_lum=4.80, log_g=3.47) (extinction smcbar=0.110), johnson U mag=13.020 vegamag); cos,fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None) From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv Spectral type: B1 III --> B1 III SED = AV224_COS_G130M_c1291_sed.fits For exptime=2317.2 s, spectral region: 1150.0 +- 0.5 A achieves SNR=30.0/resel global countrate (brightest segment): 2016.1 cts/s/segment brightest pixel: 0.032 cts/s/pix at 1272.0 A Calculation performed 2020-02-24T17:50:51, v0.4									
	5	G130M/129 1-4 (COS.sp.145 4022)	(3) AV224	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=37 5; FP-POS=4			860 Secs (860 Secs) [==>]	[2]
Comments: rn(WM-Basic(B1 III, Z=0.004, Teff=24547, log_lum=4.80, log_g=3.47) (extinction smcbar=0.110), johnson U mag=13.020 vegamag); cos,fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None) From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv Spectral type: B1 III --> B1 III SED = AV224_COS_G130M_c1291_sed.fits For exptime=2317.2 s, spectral region: 1150.0 +- 0.5 A achieves SNR=30.0/resel global countrate (brightest segment): 2016.1 cts/s/segment brightest pixel: 0.032 cts/s/pix at 1272.0 A Calculation performed 2020-02-24T17:50:51, v0.4										

Proposal 16101 - AV224-COS (3C) - ULLYSES SMC B1 Stars COS

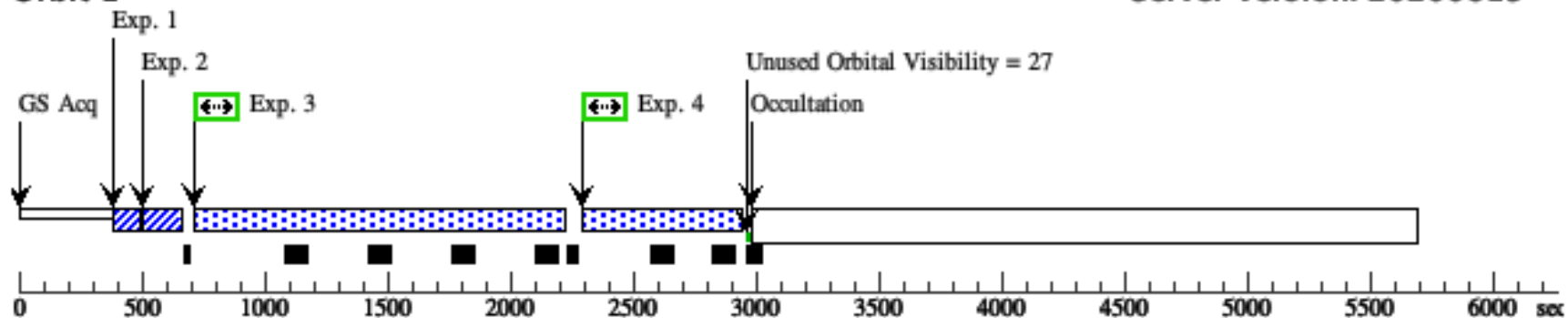
6	G160M/161 (3) AV224 1-1 (COS.sp.145 4023)	COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=39 3; FP-POS=1	896 Secs (896 Secs) [==>]	[2]
Comments: rn(WM-Basic(B1 III, Z=0.004, Teff=24547, log_lum=4.80, log_g=3.47) (extinction smcbar=0.110), johnson U mag=13.020 vegamag); cos,fuv,g160m,c1611,psa,mjd#59305; fp-pos=None, segment=None) From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv Spectral type: B1 III --> B1 III SED = AV224_COS_G160M_c1611_sed.fits For exptime=2400.2 s, spectral region: 1590.0 +- 0.5 A achieves SNR=30.0/resel global countrate (brightest segment): 1511.7 cts/s/segment brightest pixel: 0.024 cts/s/pix at 1435.0 A Calculation performed 2020-02-24T17:50:54, v0.4						
7	G160M/161 (3) AV224 1-2 (COS.sp.145 4023)	COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=30 6; FP-POS=2	416 Secs (414 Secs) [==>414.0 Secs]	[2]
Comments: rn(WM-Basic(B1 III, Z=0.004, Teff=24547, log_lum=4.80, log_g=3.47) (extinction smcbar=0.110), johnson U mag=13.020 vegamag); cos,fuv,g160m,c1611,psa,mjd#59305; fp-pos=None, segment=None) From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv Spectral type: B1 III --> B1 III SED = AV224_COS_G160M_c1611_sed.fits For exptime=2400.2 s, spectral region: 1590.0 +- 0.5 A achieves SNR=30.0/resel global countrate (brightest segment): 1511.7 cts/s/segment brightest pixel: 0.024 cts/s/pix at 1435.0 A Calculation performed 2020-02-24T17:50:54, v0.4						
8	G160M/161 (3) AV224 1-2 (COS.sp.145 4023)	COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=36 4; FP-POS=2	446.0 Secs (483 Secs) [==>483.0 Secs]	[3]
Comments: rn(WM-Basic(B1 III, Z=0.004, Teff=24547, log_lum=4.80, log_g=3.47) (extinction smcbar=0.110), johnson U mag=13.020 vegamag); cos,fuv,g160m,c1611,psa,mjd#59305; fp-pos=None, segment=None) From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv Spectral type: B1 III --> B1 III SED = AV224_COS_G160M_c1611_sed.fits For exptime=2400.2 s, spectral region: 1590.0 +- 0.5 A achieves SNR=30.0/resel global countrate (brightest segment): 1511.7 cts/s/segment brightest pixel: 0.024 cts/s/pix at 1435.0 A Calculation performed 2020-02-24T17:50:54, v0.4						
9	G160M/161 (3) AV224 1-3 (COS.sp.145 4023)	COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=39 3; FP-POS=3	896 Secs (896 Secs) [==>]	[3]
Comments: rn(WM-Basic(B1 III, Z=0.004, Teff=24547, log_lum=4.80, log_g=3.47) (extinction smcbar=0.110), johnson U mag=13.020 vegamag); cos,fuv,g160m,c1611,psa,mjd#59305; fp-pos=None, segment=None) From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv Spectral type: B1 III --> B1 III SED = AV224_COS_G160M_c1611_sed.fits For exptime=2400.2 s, spectral region: 1590.0 +- 0.5 A achieves SNR=30.0/resel global countrate (brightest segment): 1511.7 cts/s/segment brightest pixel: 0.024 cts/s/pix at 1435.0 A Calculation performed 2020-02-24T17:50:54, v0.4						

Proposal 16101 - AV224-COS (3C) - ULLYSES SMC B1 Stars COS

10	G160M/161 (3) AV224 1-4 (COS.sp.145 4023)	COS/FUV, TIME-TAG, PSA 1611 A	G160M 3; FP-POS=4	BUFFER-TIME=39	896 Secs (896 Secs)	
					[>=>]	[3]
					Comments: rn(WM-Basic(B1 III, Z=0.004, Teff=24547, log_lum=4.80, log_g=3.47) (extinction smcbar=0.110), johnson U mag=13.020 vegamag); cos,fuv,g160m,c1611,psa,mjd#59305; fp-pos=None, segment=None) From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv Spectral type: B1 III --> B1 III SED = AV224_COS_G160M_c1611_sed.fits For exptime=2400.2 s, spectral region: 1590.0 +- 0.5 A achieves SNR=30.0/resel global countrate (brightest segment): 1511.7 cts/s/segment brightest pixel: 0.024 cts/s/pix at 1435.0 A Calculation performed 2020-02-24T17:50:54, v0.4	

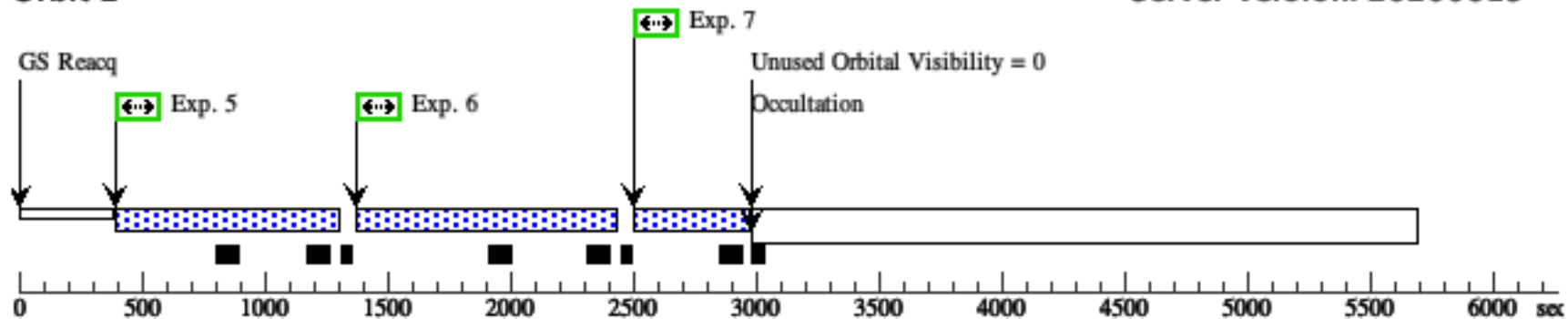
Orbit 1

Server Version: 20200619



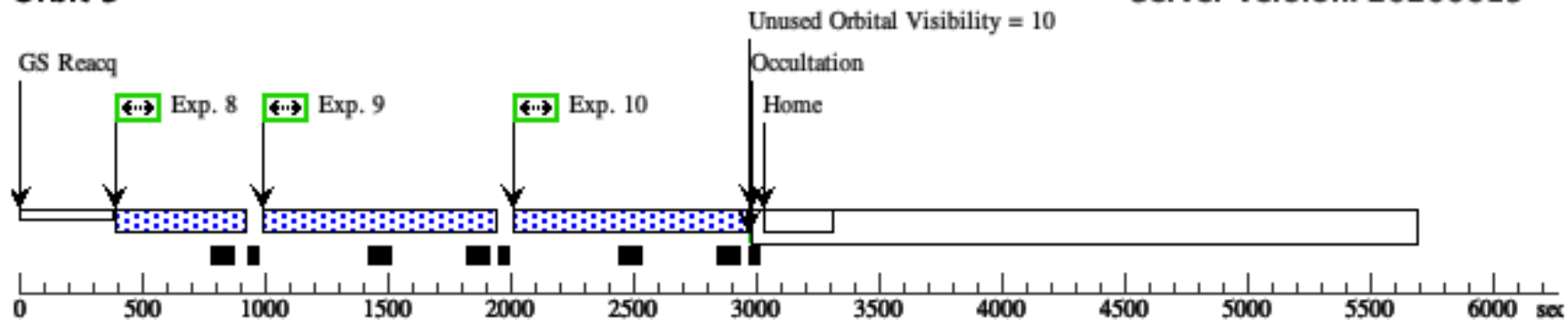
Orbit 2

Server Version: 20200619



Orbit 3

Server Version: 20200619



Proposal 16101 - NGC346-ELS-35-COS (4C) - ULLYSES SMC B1 Stars COS

Fri Dec 18 17:00:56 GMT 2020

Visit	Proposal 16101, NGC346-ELS-35-COS (4C), completed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV Special Requirements: SCHED 100% Comments: vstatus; 4C; NGC346-ELS-35; P/COS Approved for submission ; P/RS 05/07/20 ; intrev: complete ; COS/CP 13/07/20 vcheck; Enter targ name & Inst. & Resp. Sci.; NGC346-ELS-35 ; 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?; G130M/1291 Spectroscopic ACQ ... Two bright stars in the larger macro-aperture would require orient constraints, and save only about 30 seconds exposure time. vcheck; Possible ACQ or Sci spoilers?; No vcheck; Field BOT clear?; Yes ; reports 24 safe sources in the field ... Zaritsky et al. (2002) reports a V=18.4 star within the smaller macro-aperture, and V=14.94 and V=17.9 sources in the larger macro-aperture vcheck; Visual BOT check for stars not in catalog?; Okay vcheck; Orbit packing finalized?; Done ... To get all exposures in two orbits, the exposure times were reduced by 4 percent for c1291 and by 2.5 percent for c1611 relative to default exposure times. vcheck; Buffer times optimized?; Done vcheck; Verify visit grouping correct; None needed vcheck; Is visit ready for int. review?; Yes Allocated COS orbits = 2																											
	<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>(4)</td><td>NGC346-ELS-35</td><td>RA: 00 59 46.6471 (14.9443629d)</td><td>Proper Motion RA: 0.750 mas/yr</td><td>V=15.09</td><td>Reference Frame: ICRS</td></tr> <tr> <td></td><td>Alt Name1: CL-NGC-346-ELS-035</td><td>Dec: -72 05 32.50 (-72.09236d)</td><td>Proper Motion Dec: -1.343 mas/yr</td><td>SpT=B1 V; E(B-V)=0.03; B=14.9; V=15.1</td><td></td></tr> <tr> <td></td><td>Alt Name2: NGC-346-035</td><td>Equinox: J2000</td><td>Epoch of Position: 2000</td><td></td><td></td></tr> </table> Comments: NGC346-ELS-35 : NGC 346-035, NGC346_35, Cl* NGC 346 ELS 035 Previous name : NGC 346-035 Input file: SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv SIMBAD link (Cl* NGC 346 ELS 035): https://simbad.u-strasbg.fr/simbad/sim-id?Ident=Cl*+NGC+346+ELS+035&submit=submit+id SpT = B1 V COS/G130M/c1096 : rn(WM-Basic(B1 V, Z=0.004, Teff=26303, log_lum=4.45, log_g=4.00) (extinction smcbar=0.030), johnson B mag=14.860 vegamag) COS/G130M/c1291 : rn(WM-Basic(B1 V, Z=0.004, Teff=26303, log_lum=4.45, log_g=4.00) (extinction smcbar=0.030), johnson B mag=14.860 vegamag) COS/G160M/c1611 : rn(WM-Basic(B1 V, Z=0.004, Teff=26303, log_lum=4.45, log_g=4.00) (extinction smcbar=0.030), johnson B mag=14.860 vegamag) COS/G185M/c1921 : rn(WM-Basic(B1 V, Z=0.004, Teff=26303, log_lum=4.45, log_g=4.00) (extinction smcbar=0.030), johnson B mag=14.860 vegamag) COS/G185M/c1953 : rn(WM-Basic(B1 V, Z=0.004, Teff=26303, log_lum=4.45, log_g=4.00) (extinction smcbar=0.030), johnson B mag=14.860 vegamag) COS/G185M/c1986 : rn(WM-Basic(B1 V, Z=0.004, Teff=26303, log_lum=4.45, log_g=4.00) (extinction smcbar=0.030), johnson B mag=14.860 vegamag) STIS/E140M/c1425 : rn(WM-Basic(B1 V, Z=0.004, Teff=26303, log_lum=4.45, log_g=4.00) (extinction smcbar=0.030), johnson B mag=14.860 vegamag) STIS/E230M/c1978 : rn(WM-Basic(B1 V, Z=0.004, Teff=26303, log_lum=4.45, log_g=4.00) (extinction smcbar=0.030), johnson B mag=14.860 vegamag) STIS/E230M/c2707 : rn(WM-Basic(B1 V, Z=0.004, Teff=26303, log_lum=4.45, log_g=4.00) (extinction smcbar=0.030), johnson B mag=14.860 vegamag) Coordinate pedigree: Gaia v sin i = 145 Calculation performed 2020-02-24T17:51:45, v0.4 ----- tstatus; NGC346-ELS-35; P/COS Approved for submission ; S/ins not started; P/RS 28/06/20; S/xx DD/MM/YY tcheck; APT/SIMBAD target names: ; NGC346-ELS-35, OGLE SMC108.3 14382, 2dFS 1418 tcheck; Target info verification status?; Verified tcheck; Coordinates & P.M. updated?; Yes, GAIA DR2 tcheck; Adopted SED compared to Observations?; OK - No FUV data, matches photometry Category=EXT-STAR Description=[B0-B2 V-IV] Extended=NO					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(4)	NGC346-ELS-35	RA: 00 59 46.6471 (14.9443629d)	Proper Motion RA: 0.750 mas/yr	V=15.09	Reference Frame: ICRS		Alt Name1: CL-NGC-346-ELS-035	Dec: -72 05 32.50 (-72.09236d)	Proper Motion Dec: -1.343 mas/yr	SpT=B1 V; E(B-V)=0.03; B=14.9; V=15.1			Alt Name2: NGC-346-035	Equinox: J2000	Epoch of Position: 2000	
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(4)	NGC346-ELS-35	RA: 00 59 46.6471 (14.9443629d)	Proper Motion RA: 0.750 mas/yr	V=15.09	Reference Frame: ICRS																							
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Fixed Targets																												

Proposal 16101 - NGC346-ELS-35-COS (4C) - ULLYSES SMC B1 Stars COS

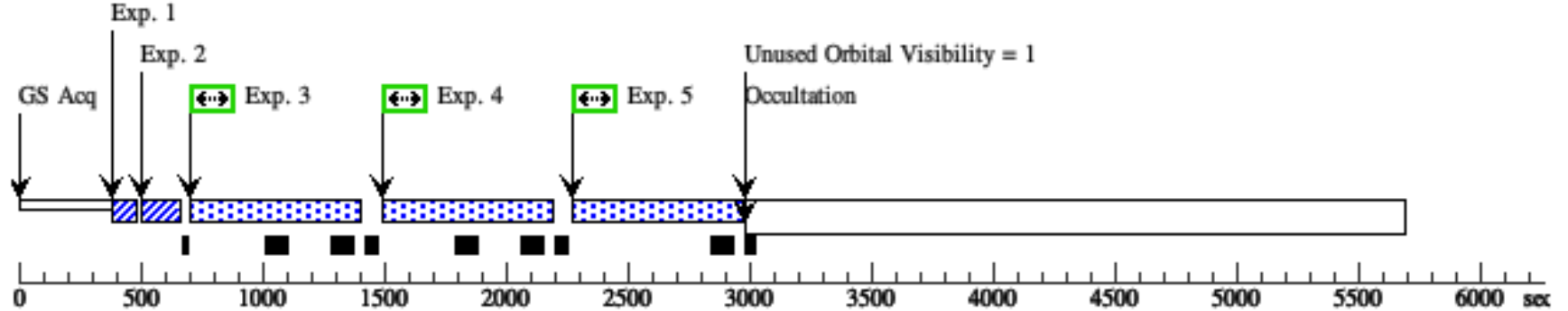
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/PEAK XD (COS.sa.145 4032)	(4) NGC346-ELS-35	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A	CENTER=FLUX-W T; NUM-POS=3; STEP-SIZE=1.3; SEGMENT=BOTH			1.0 Secs (1 Secs) [==>]	[1]
	2	ACQ/PEAK D (COS.sa.145 4032)	(4) NGC346-ELS-35	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9; SEGMENT=BOTH			1.0 Secs (1 Secs) [==>]	[1]
	3	G130M/129 1-3 (COS.sp.145 4033)	(4) NGC346-ELS-35	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=27 0; FP-POS=3			650 Secs (650 Secs) [==>]	[1]
	Comments: rn(WM-Basic(B1 V, Z=0.004, Teff=26303, log_lum=4.45, log_g=4.00) (extinction smcbar=0.030), johnson B mag=14.860 vegamag); cos,fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None) From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv Spectral type: B1 V --> B1 V SED = NGC346-ELS-35_COS_G130M_c1291_sed.fits For exptime=1348.2 s, spectral region: 1150.0 +- 0.5 A achieves SNR=30.0/resel global countrate (brightest segment): 2879.9 cts/s/segment brightest pixel: 0.042 cts/s/pix at 1265.0 A Calculation performed 2020-02-24T17:51:48, v0.4									
Exposures	4	G130M/129 1-4 (COS.sp.145 4033)	(4) NGC346-ELS-35	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=27 0; FP-POS=4			650 Secs (650 Secs) [==>]	[1]
	Comments: rn(WM-Basic(B1 V, Z=0.004, Teff=26303, log_lum=4.45, log_g=4.00) (extinction smcbar=0.030), johnson B mag=14.860 vegamag); cos,fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None) From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv Spectral type: B1 V --> B1 V SED = NGC346-ELS-35_COS_G130M_c1291_sed.fits For exptime=1348.2 s, spectral region: 1150.0 +- 0.5 A achieves SNR=30.0/resel global countrate (brightest segment): 2879.9 cts/s/segment brightest pixel: 0.042 cts/s/pix at 1265.0 A Calculation performed 2020-02-24T17:51:48, v0.4									
	5	G160M/161 1-1 (COS.sp.145 4034)	(4) NGC346-ELS-35	COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=42 2; FP-POS=1			532.0 Secs (532 Secs) [==>]	[1]
	Comments: rn(WM-Basic(B1 V, Z=0.004, Teff=26303, log_lum=4.45, log_g=4.00) (extinction smcbar=0.030), johnson B mag=14.860 vegamag); cos,fuv,g160m,c1611,psa,mjd#59305; fp-pos=None, segment=None) From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv Spectral type: B1 V --> B1 V SED = NGC346-ELS-35_COS_G160M_c1611_sed.fits For exptime=2780.3 s, spectral region: 1590.0 +- 0.5 A achieves SNR=30.0/resel global countrate (brightest segment): 1420.2 cts/s/segment brightest pixel: 0.024 cts/s/pix at 1435.0 A Calculation performed 2020-02-24T17:51:51, v0.4									

Proposal 16101 - NGC346-ELS-35-COS (4C) - ULLYSES SMC B1 Stars COS

6	G160M/161 1 (COS.sp.145 4034)	(4) NGC346-ELS-35 COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=57 0; FP-POS=ALL	680 Secs (2179 Secs)	[2]
					[==>139.0 Secs (Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	
Comments: rn(WM-Basic(B1 V, Z=0.004, Teff=26303, log_lum=4.45, log_g=4.00) (extinction smcbar=0.030), johnson B mag=14.860 vegamag); cos,fuv,g160m,c1611,psa,mjd#59305; fp-pos=None, segment=None) From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv Spectral type: B1 V --> B1 V SED = NGC346-ELS-35_COS_G160M_c1611_sed.fits For exptime=2780.3 s, spectral region: 1590.0 +- 0.5 A achieves SNR=30.0/resel global countrate (brightest segment): 1420.2 cts/s/segment brightest pixel: 0.024 cts/s/pix at 1435.0 A Calculation performed 2020-02-24T17:51:51, v0.4						

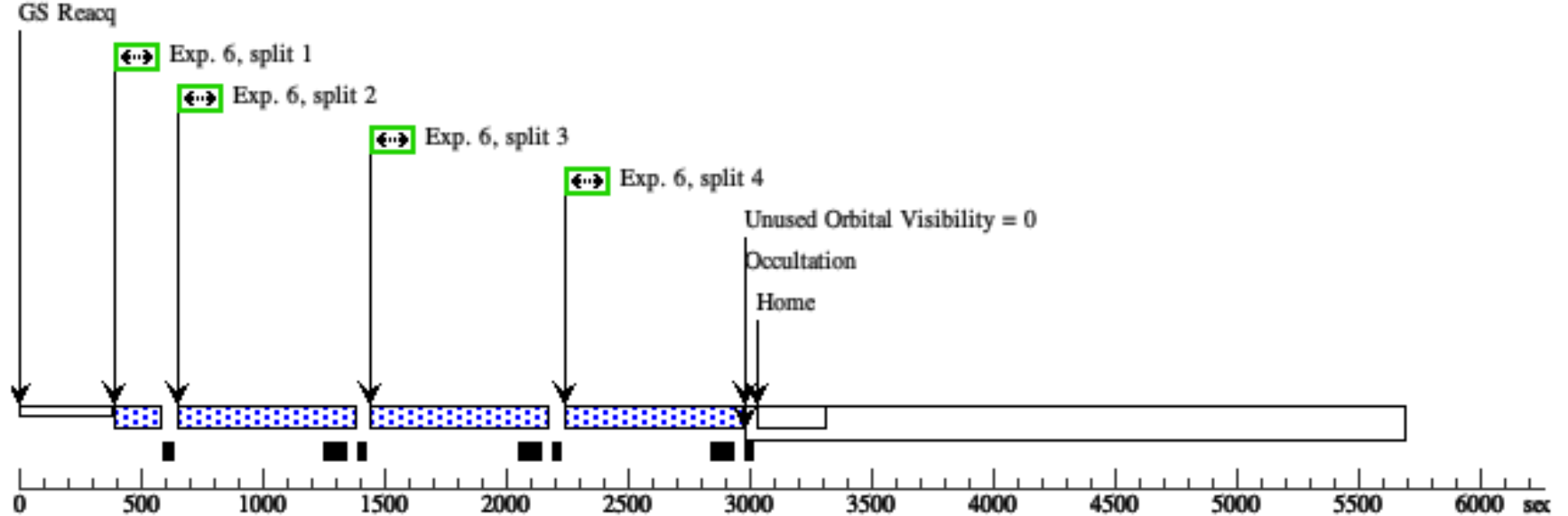
Orbit 1

Server Version: 20200619



Orbit 2

Server Version: 20200619



Proposal 16101 - SK173-COS (5C) - ULLYSES SMC B1 Stars COS

Visit	Proposal 16101, SK173-COS (5C), completed Fri Dec 18 17:00:57 GMT 2020 Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV Special Requirements: SCHED 100% Comments: vstatus; 5C; SK173; P/COS Approved for submission; P/RS 06/07/20 ; intrev: complete ; COS/CP 13/07/20 vcheck; Enter targ name & Inst. & Resp. Sci.; SK173 ; 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?; G130M/1291 spectroscopic ACQ ... There is one field star with V=18.53 that will likely NOT pose a threat to the imaging ACQ since the catalogs of Oey et al. (2004) and Ramachandran et al. (2019) do not identify any O or B stars in the larger macro-aperture except for the target. However, there is ample time to achieve the required S/N in the 2 orbits allocated, so to the spectroscopic ACQ was chosen as the conservative BOP option. vcheck; Possible ACQ or Sci spoilers?; No vcheck; Field BOT clear?; Yes ; ten safe field sources reported vcheck; Visual BOT check for stars not in catalog?; Okay vcheck; Orbit packing finalized?; Done vcheck; Buffer times optimized?; Done vcheck; Verify visit grouping correct; None needed vcheck; Is visit ready for int. review?; Yes Allocated COS orbits = 2																												
	<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>(5)</td><td>SK173</td><td>RA: 01 25 38.2222 (21.4092592d)</td><td>Proper Motion RA: 1.055 mas/yr</td><td>V=13.57</td><td>Reference Frame: ICRS</td></tr><tr><td></td><td>Alt Name1: 2DFS-3747</td><td>Dec: -73 07 39.33 (-73.12759d)</td><td>Proper Motion Dec: -1.212 mas/yr</td><td>SpT=B0.7 (II)e; E(B-V)=0.07; U=12.4; B=13.4; V=13.6</td><td></td></tr><tr><td></td><td></td><td>Equinox: J2000</td><td>Epoch of Position: 2000</td><td></td><td></td></tr></table> Comments: SK173 : [2dFS]-3747, [2dFS]_3747, 2dFS 3747 Previous name : [2dFS]-3747 Input file: SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv SIMBAD link (2dFS 3747): https://simbad.u-strasbg.fr/simbad/sim-id?Ident=2dFS+3747&submit=submit+id SpT = B0.7 (II)e COS/G130M/c1096 : rn(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.070), johnson U mag=12.440 vegamag) COS/G130M/c1291 : rn(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.070), johnson U mag=12.440 vegamag) COS/G160M/c1611 : rn(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.070), johnson U mag=12.440 vegamag) COS/G185M/c1921 : rn(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.070), johnson U mag=12.440 vegamag) COS/G185M/c1953 : rn(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.070), johnson U mag=12.440 vegamag) COS/G185M/c1986 : rn(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.070), johnson U mag=12.440 vegamag) STIS/E140M/c1425 : rn(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.070), johnson U mag=12.440 vegamag) STIS/E230M/c1978 : rn(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.070), johnson U mag=12.440 vegamag) STIS/E230M/c2707 : rn(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.070), johnson U mag=12.440 vegamag) Coordinate pedigree: Gaia Calculation performed 2020-02-24T17:49:10, v0.4 ----- tstatus; SK173; P/COS Approved for submission ; S/ins not started; P/RS 28/06/20; S/xx DD/MM/YY tcheck; APT/SIMBAD target names: ; SK173, 2dFS 3747 tcheck; Target info verification status?; Verified ... SIMBAD gives spectral type as B1-2(Ib)e? however with quality D tcheck; Coordinates & P.M. updated?; Updated, GAIA DR2 tcheck; Adopted SED compared to Observations?; OK - No FUV data, matches photometry Category=EXT-STAR Description=[B0-B2 III-I, BE] Extended=NO						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(5)	SK173	RA: 01 25 38.2222 (21.4092592d)	Proper Motion RA: 1.055 mas/yr	V=13.57	Reference Frame: ICRS		Alt Name1: 2DFS-3747	Dec: -73 07 39.33 (-73.12759d)	Proper Motion Dec: -1.212 mas/yr	SpT=B0.7 (II)e; E(B-V)=0.07; U=12.4; B=13.4; V=13.6				Equinox: J2000	Epoch of Position: 2000	
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																								
(5)	SK173	RA: 01 25 38.2222 (21.4092592d)	Proper Motion RA: 1.055 mas/yr	V=13.57	Reference Frame: ICRS																								
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		Equinox: J2000	Epoch of Position: 2000																										
Fixed Targets																													

Proposal 16101 - SK173-COS (5C) - ULLYSES SMC B1 Stars COS

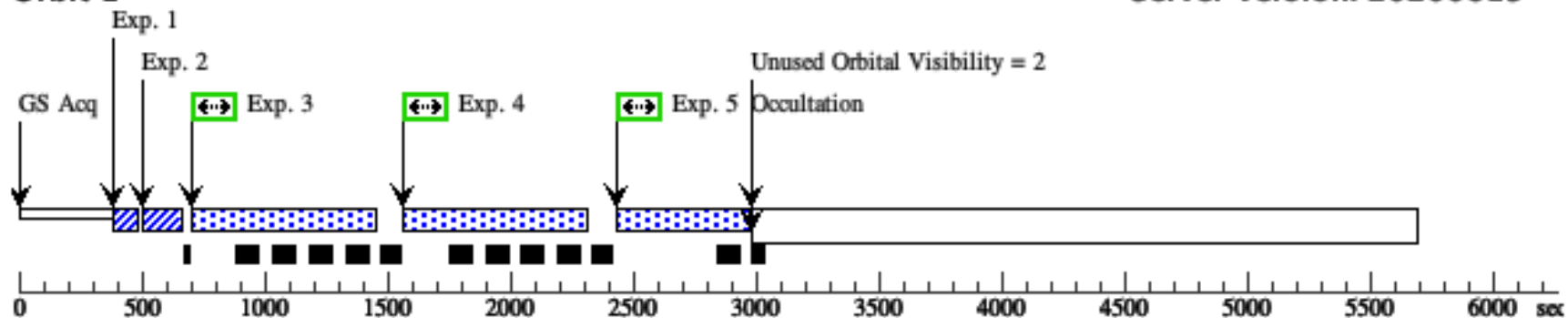
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/PEAK XD (COS.sa.145 4099)	(5) SK173	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A	CENTER=FLUX-W T; NUM-POS=3; STEP-SIZE=1.3; SEGMENT=BOTH			1.0 Secs (1 Secs) [==>]	[1]
	2	ACQ/PEAK D (COS.sa.145 4099)	(5) SK173	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	CENTER=FLUX-W T-FLR; NUM-POS=5; STEP-SIZE=0.9; SEGMENT=BOTH			1.0 Secs (1 Secs) [==>]	[1]
	3	G130M/129 1-3 (COS.sp.145 4102)	(5) SK173	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=14 7; FP-POS=3			700.0 Secs (700 Secs) [==>]	[1]
	Comments: rn(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.070), johnson U mag=12.440 vegamag); cos,fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None) From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv Spectral type: B0.7 (II)e --> B0.5 I SED = SK173_COS_G130M_c1291_sed.fits For exptime=830.8 s, spectral region: 1150.0 +- 0.5 A achieves SNR=30.0/resel global countrate (brightest segment): 4835.7 cts/s/segment brightest pixel: 0.078 cts/s/pix at 1267.0 A Calculation performed 2020-02-24T17:49:13, v0.4									
	4	G130M/129 1-4 (COS.sp.145 4102)	(5) SK173	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=14 7; FP-POS=4			700.0 Secs (700 Secs) [==>]	[1]
	Comments: rn(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.070), johnson U mag=12.440 vegamag); cos,fuv,g130m,c1291,psa,mjd#59305; fp-pos=None, segment=None) From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv Spectral type: B0.7 (II)e --> B0.5 I SED = SK173_COS_G130M_c1291_sed.fits For exptime=830.8 s, spectral region: 1150.0 +- 0.5 A achieves SNR=30.0/resel global countrate (brightest segment): 4835.7 cts/s/segment brightest pixel: 0.078 cts/s/pix at 1267.0 A Calculation performed 2020-02-24T17:49:13, v0.4									
	5	G160M/161 1-1 (COS.sp.145 4103)	(5) SK173	COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=26 5; FP-POS=1			375.0 Secs (375 Secs) [==>]	[1]
	Comments: rn(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.070), johnson U mag=12.440 vegamag); cos,fuv,g160m,c1611,psa,mjd#59305; fp-pos=None, segment=None) From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv Spectral type: B0.7 (II)e --> B0.5 I SED = SK173_COS_G160M_c1611_sed.fits For exptime=1143.7 s, spectral region: 1590.0 +- 0.5 A achieves SNR=30.0/resel global countrate (brightest segment): 3347.4 cts/s/segment brightest pixel: 0.054 cts/s/pix at 1435.0 A Calculation performed 2020-02-24T17:49:16, v0.4									

Proposal 16101 - SK173-COS (5C) - ULLYSES SMC B1 Stars COS

6	G160M/161 (5) SK173 1 (COS.sp.145 4103)	COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=24 8; FP-POS=ALL	607 Secs (2064 Secs)	
					[==>243.0 Secs (Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[2]
Comments: rn(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.070), johnson U mag=12.440 vegamag); cos,fuv,g160m,c1611,psa,mjd#59305; fp-pos=None, segment=None) From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv Spectral type: B0.7 (II)e --> B0.5 I SED = SK173_COS_G160M_c1611_sed.fits For exptime=1143.7 s, spectral region: 1590.0 +- 0.5 A achieves SNR=30.0/resel global countrate (brightest segment): 3347.4 cts/s/segment brightest pixel: 0.054 cts/s/pix at 1435.0 A Calculation performed 2020-02-24T17:49:16, v0.4						

Orbit 1

Server Version: 20200619



Orbit 2

Server Version: 20200619

