16368 - ULLYSES SMC B1-B2 Stars STIS

Cycle: 28, 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?*
1S	(1) AV261 WAVE	STIS/CCD STIS/NUV-MAMA	3	01-Nov-2021 11:01:52.0	yes
1T	(1) AV261 WAVE	STIS/CCD STIS/NUV-MAMA	3	01-Nov-2021 11:01:54.0	yes
1U	(1) AV261 WAVE	STIS/CCD STIS/NUV-MAMA	2	01-Nov-2021 11:01:55.0	yes
2S	(2) AV264 WAVE	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	3	01-Nov-2021 11:01:56.0	yes
BS	(2) AV264 WAVE	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	3	01-Nov-2021 11:01:58.0	yes
3S	(3) AV85 WAVE	STIS/CCD STIS/FUV-MAMA	3	01-Nov-2021 11:02:00.0	yes
CS	(3) AV85 WAVE	STIS/CCD STIS/FUV-MAMA	3	01-Nov-2021 11:02:01.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
3T	(3) AV85 WAVE	STIS/CCD STIS/FUV-MAMA	2	01-Nov-2021 11:02:03.0	yes
CT	(3) AV85 WAVE	STIS/CCD STIS/FUV-MAMA	2	01-Nov-2021 11:02:04.0	yes
4S	(4) AV96 WAVE	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	3	01-Nov-2021 11:02:05.0	yes
4T	(4) AV96 WAVE	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	01-Nov-2021 11:02:07.0	yes

29 Total Orbits Used

ABSTRACT

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

OBSERVING DESCRIPTION

This proposal includes a subset of the 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 A
COS/G130M/c1291: 30 / six-pixel resel at 1150 A
COS/G160M/c1611: 30 / six-pixel resel at 1590 A
COS/G185M/c1953: 30 / three-pixel resel at 1860 A
COS/G185M/c1986: 30 / three-pixel resel at 1980 A
STIS/E140M/c1425: 20 / two-pixel resel at 1200 A
STIS/E230M/c1978: 20 / two-pixel resel at 1800 A
STIS/E230M/c2707: 20 / two-pixel resel at 2800 A
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.

Visit

Proposal 16368, AV261-STIS (1S), completed Mon Nov 01 15:02:07 GMT 2021

Diagnostic Status: No Diagnostics

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

Special Requirements: SCHED 100%; GROUP 1S,1T,1U WITHIN 30D

Comments: vstatus; 1S; AV261; P/STIS approved for submission; P/DW 13/04/21 ; intrev: complete ; P/AF 12/05/21
vcheck; Enter targ name & Inst. & Resp. Sci.; AV261 ; STIS ; DW
vcheck; ETC numbers entered in APT?; yes
vcheck; Any screening violations?; no
vcheck; S/N ETC calcs done & documented?; yes ...
used STIS/G230LB -- yields brightest pixel 0.026 cts /s (2320.1 A), entire detector 3033 cts/s, S/N~20 near 1800 A
vcheck; Field images checked & saved?; yes
vcheck; Selected ACQ strategy?; direct acq, F28x50LP, 1 sec
vcheck; Possible ACQ or Sci spoilers?; no -- similar previous acq for STIS/G230LB successful
vcheck; Field BOT clear?; yes
vcheck; Visual BOT check for stars not in catalog?; n/a
vcheck; Orbit packing finalized?; yes
vcheck; Buffer times optimized?; yes -- adopt 500 s
vcheck; Verify visit grouping correct; yes -- 3+3+2 orbits within 30 d
vcheck; Is visit ready for int. review?; yes
Allocated STIS orbits = 8

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	AV261	RA: 01 00 58.7221 (15.2446754d)	Proper Motion RA: 0.0 sec of time/yr	V=13.88	Reference Frame: ICRS
	Alt Name1: AZV-261	Dec: -72 30 50.26 (-72.51396d)	Proper Motion Dec: 0.0 arcsec/yr	SpT=B2 (Ib)e; E(B-V)=0.09; U=12.9; B=13.8; V=13.9; F1160=1.43e-13; F1360=1.47e-13; F1700=1.09e-13	
	Alt Name2: AV-261	Equinox: J2000			

Comments: AV261 : [M2002]_50178, AV 261, AzV 261
Previous name : AV 261
Input file: SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv
SIMBAD link (AzV 261): https://simbad.u-strasbg.fr/simbad/sim-id?Ident=AzV+261&submit=submit+id
SpT = B2 (Ib)e
COS/G130M/c1096 : rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1160 +- 30.0A flux=1.4e-13 Flam)
COS/G130M/c1291 : rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1360 +- 30.0A flux=1.5e-13 Flam)
COS/G160M/c1611 : rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1700 +- 5.0A flux=1.1e-13 Flam)
COS/G185M/c1921 : rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1700 +- 5.0A flux=1.1e-13 Flam)
COS/G185M/c1953 : rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1700 +- 5.0A flux=1.1e-13 Flam)
COS/G185M/c1986 : rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1700 +- 5.0A flux=1.1e-13 Flam)
STIS/E140M/c1425 : rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1360 +- 30.0A flux=1.5e-13 Flam)
STIS/E230M/c1978 : rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1700 +- 5.0A flux=1.1e-13 Flam)
STIS/E230M/c2707 : rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1700 +- 5.0A flux=1.1e-13 Flam)
Coordinate pedigree: Gaia
v sin i = 87
Calculation performed 2020-02-24T17:52:57, v0.4
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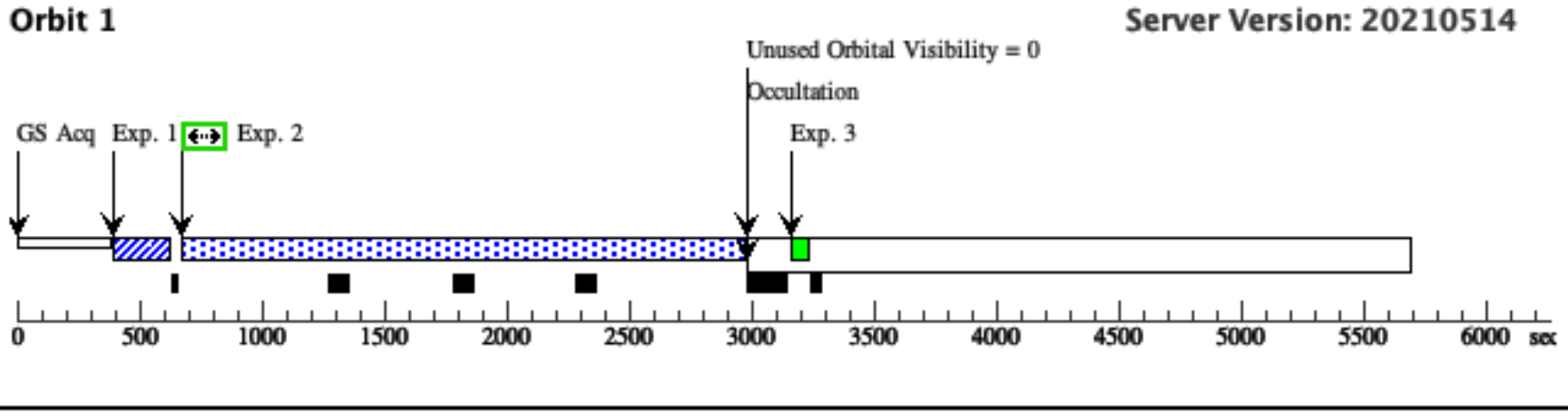
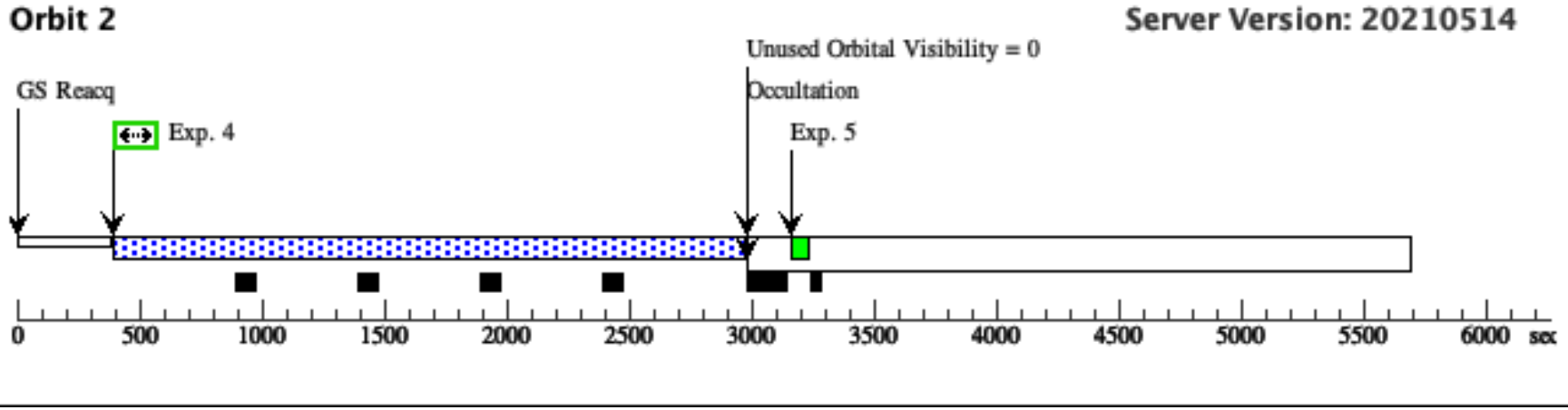
tstatus; AV261; P/STIS approved for submission; S/ins not started; P/DW 13/04/21; S/xx DD/MM/YY
tcheck; APT/SIMBAD target names: ; AV261 'AV 261'
tcheck; Target info verification status?; name, coords, photometry ok, type differs from earlier O8.5 I
tcheck; Coordinates & P.M. updated?; pm set to 0.0
tcheck; Adopted SED compared to Observations?; yes ...
original sed gave a rather poor fit all around -- reducing E(B-V) to 0.06 improved the far-UV and optical, but the near-UV is still overestimated -- chose to do ETC calculations with observed STIS/G230LB spectrum -- perhaps a hybrid extinction law (MW + SMC) would do better
Category=EXT-STAR
Description=[B0-B2 III-I, BE]
Extended=NO

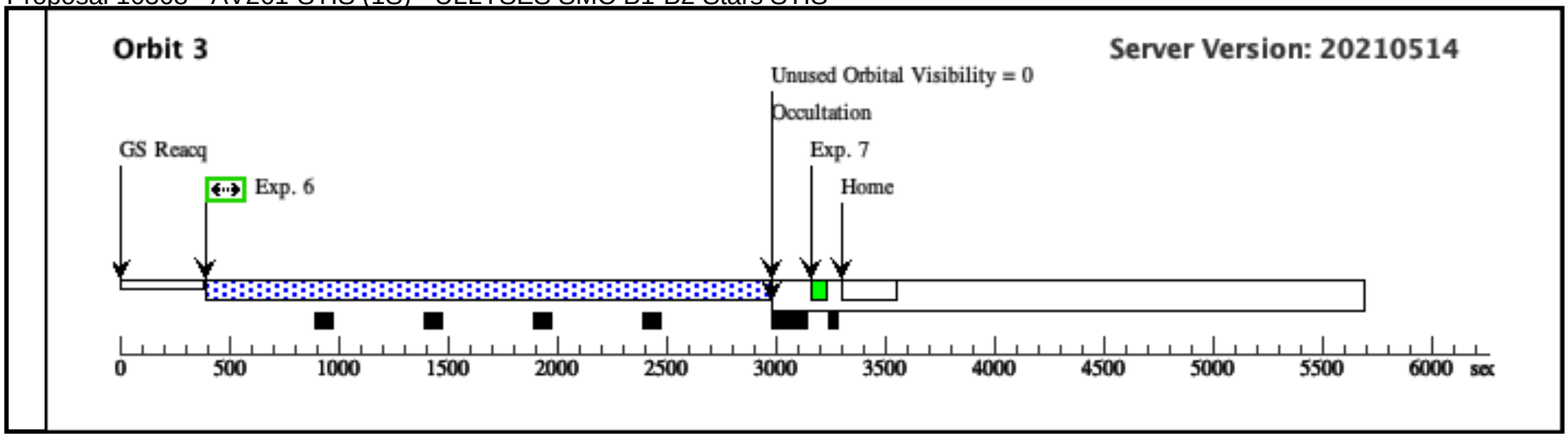
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (1512980)	(1) AV261	STIS/CCD, ACQ, F28X50LP	MIRROR				1.0 Secs (1 Secs) *[==>]*	***[1]***
Comments: used Castelli & Kurucz B0 I and B5 I, with V=13.9 and E(B-V)=0.09									
2	E230M/1978 (1512979)	(1) AV261	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 1978 A	WAVECAL=NO; BUFFER-TIME=500.0		Sequence 2-3 Non-Int in AV261-STIS (1S)	2181 Secs (2181 Secs) *[==>]*	***[1]***
Comments: rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1700 +- 5.0A flux=1.1e-13 Flam); stis,nuvmama,e230m,c1978,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B2 (Ib)e --> B2 I* *SED = AV261_STIS_E230M_c1978_sed.fits* *For exptime=20869.2 s, spectral region:* *1800.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 3237.6 cts/s/segment* *brightest pixel: 0.032 cts/s/pix at 2267.0 A* *Calculation performed 2020-02-24T17:53:11, v0.4* *used observed STIS/G230LB spectrum -- S/N~20 at 1800 A in 20000 sec (brightest 0.026, entire detector 3033 cts/s)*									
3	E230M/1978 WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 1978 A			Sequence 2-3 Non-Int in AV261-STIS (1S)	*[==>]*	***[1]***
4	E230M/1978 (1512979)	(1) AV261	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 1978 A	WAVECAL=NO; BUFFER-TIME=500.0		Sequence 4-5 Non-Int in AV261-STIS (1S)	2567 Secs (2567 Secs) *[==>]*	***[2]***
Comments: rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1700 +- 5.0A flux=1.1e-13 Flam); stis,nuvmama,e230m,c1978,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B2 (Ib)e --> B2 I* *SED = AV261_STIS_E230M_c1978_sed.fits* *For exptime=20869.2 s, spectral region:* *1800.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 3237.6 cts/s/segment* *brightest pixel: 0.032 cts/s/pix at 2267.0 A* *Calculation performed 2020-02-24T17:53:11, v0.4* *used observed STIS/G230LB spectrum -- S/N~20 at 1800 A in 20000 sec (brightest 0.026, entire detector 3033 cts/s)*									
5	E230M/1978 WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 1978 A			Sequence 4-5 Non-Int in AV261-STIS (1S)	*[==>]*	***[2]***
6	E230M/1978 (1512979)	(1) AV261	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 1978 A	WAVECAL=NO; BUFFER-TIME=500.0		Sequence 6-7 Non-Int in AV261-STIS (1S)	2567 Secs (2567 Secs) *[==>]*	***[3]***
Comments: rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1700 +- 5.0A flux=1.1e-13 Flam); stis,nuvmama,e230m,c1978,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B2 (Ib)e --> B2 I* *SED = AV261_STIS_E230M_c1978_sed.fits* *For exptime=20869.2 s, spectral region:* *1800.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 3237.6 cts/s/segment* *brightest pixel: 0.032 cts/s/pix at 2267.0 A* *Calculation performed 2020-02-24T17:53:11, v0.4* *used observed STIS/G230LB spectrum -- S/N~20 at 1800 A in 20000 sec (brightest 0.026, entire detector 3033 cts/s)*									
7	E230M/1978 WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 1978 A			Sequence 6-7 Non-Int in AV261-STIS (1S)	*[==>]*	***[3]***

Orbit Structure






Orbit 3
Server Version: 20210514
Unused Orbital Visibility = 0
Occultation
GS Reacq
Exp. 6
Exp. 7
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 16368, AV261-STIS (1T), completed Mon Nov 01 15:02:07 GMT 2021

Diagnostic Status: No Diagnostics

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

Special Requirements: SCHED 100%; GROUP 1T,1S,1U WITHIN 30D

Comments: vstatus; 1S; AV261; P/STIS approved for submission; P/DW 13/04/21 ; intrev: complete ; P/AF 12/05/21
vcheck; Enter targ name & Inst. & Resp. Sci.; AV261 ; STIS ; DW
vcheck; ETC numbers entered in APT?; yes
vcheck; Any screening violations?; no
vcheck; S/N ETC calcs done & documented?; yes ...
used STIS/G230LB -- yields brightest pixel 0.026 cts /s (2320.1 A), entire detector 3033 cts/s, S/N~20 near 1800 A
vcheck; Field images checked & saved?; yes
vcheck; Selected ACQ strategy?; direct acq, F28x50LP, 1 sec
vcheck; Possible ACQ or Sci spoilers?; no -- similar previous acq for STIS/G230LB successful
vcheck; Field BOT clear?; yes
vcheck; Visual BOT check for stars not in catalog?; n/a
vcheck; Orbit packing finalized?; yes
vcheck; Buffer times optimized?; yes -- adopt 500 s
vcheck; Verify visit grouping correct; yes -- 3+3+2 orbits within 30 d
vcheck; Is visit ready for int. review?; yes
Allocated STIS orbits = 8

Fixed Targets

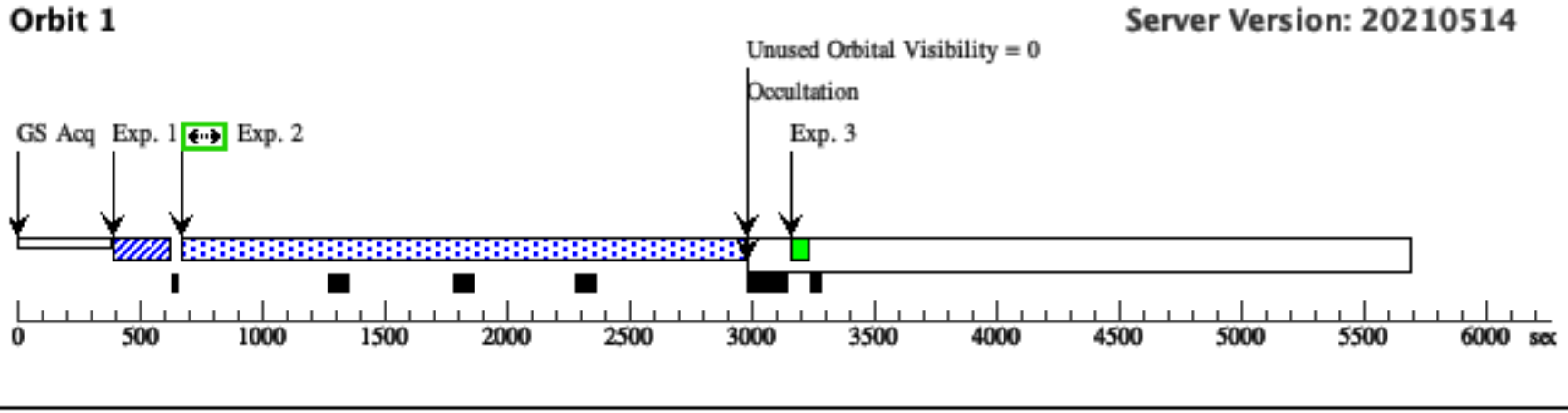
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	AV261	RA: 01 00 58.7221 (15.2446754d)	Proper Motion RA: 0.0 sec of time/yr	V=13.88	Reference Frame: ICRS
	Alt Name1: AZV-261	Dec: -72 30 50.26 (-72.51396d)	Proper Motion Dec: 0.0 arcsec/yr	SpT=B2 (Ib)e; E(B-V)=0.09; U=12.9; B=13.8; V=13.9; F1160=1.43e-13; F1360=1.47e-13; F1700=1.09e-13	
	Alt Name2: AV-261	Equinox: J2000			

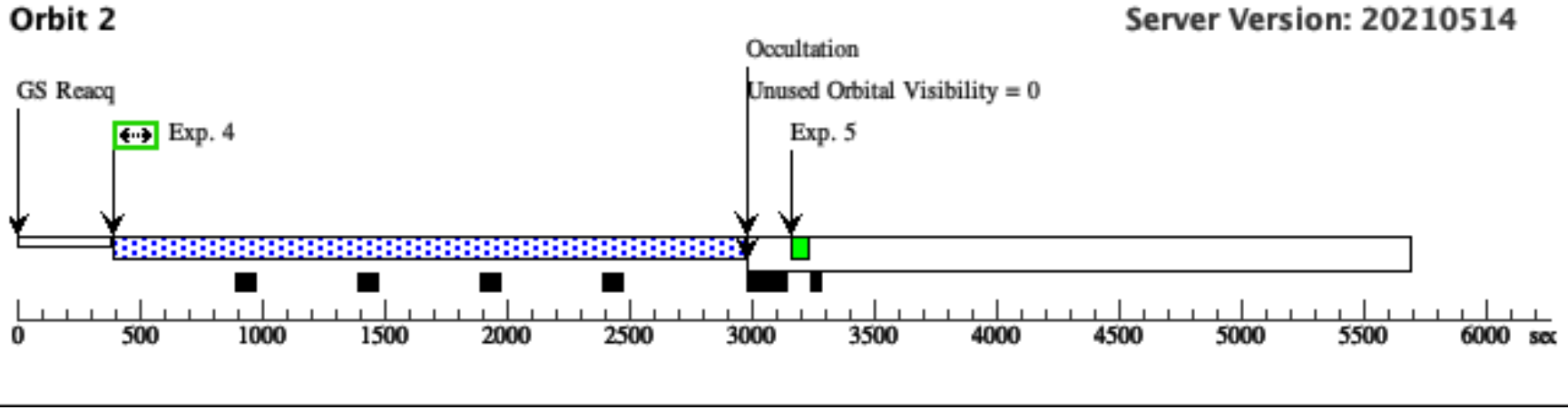
Comments: AV261 : [M2002]_50178, AV 261, AzV 261
Previous name : AV 261
Input file: SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv
SIMBAD link (AzV 261): https://simbad.u-strasbg.fr/simbad/sim-id?Ident=AzV+261&submit=submit+id
SpT = B2 (Ib)e
COS/G130M/c1096 : rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1160 +- 30.0A flux=1.4e-13 Flam)
COS/G130M/c1291 : rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1360 +- 30.0A flux=1.5e-13 Flam)
COS/G160M/c1611 : rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1700 +- 5.0A flux=1.1e-13 Flam)
COS/G185M/c1921 : rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1700 +- 5.0A flux=1.1e-13 Flam)
COS/G185M/c1953 : rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1700 +- 5.0A flux=1.1e-13 Flam)
COS/G185M/c1986 : rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1700 +- 5.0A flux=1.1e-13 Flam)
STIS/E140M/c1425 : rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1360 +- 30.0A flux=1.5e-13 Flam)
STIS/E230M/c1978 : rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1700 +- 5.0A flux=1.1e-13 Flam)
STIS/E230M/c2707 : rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1700 +- 5.0A flux=1.1e-13 Flam)
Coordinate pedigree: Gaia
v sin i = 87
Calculation performed 2020-02-24T17:52:57, v0.4
---
tstatus; AV261; P/STIS approved for submission; S/ins not started; P/DW 13/04/21; S/xx DD/MM/YY
tcheck; APT/SIMBAD target names: ; AV261 'AV 261'
tcheck; Target info verification status?; name, coords, photometry ok, type differs from earlier O8.5 I
tcheck; Coordinates & P.M. updated?; pm set to 0.0
tcheck; Adopted SED compared to Observations?; yes ...
original sed gave a rather poor fit all around -- reducing E(B-V) to 0.06 improved the far-UV and optical, but the near-UV is still overestimated -- chose to do ETC calculations with observed STIS/G230LB spectrum -- perhaps a hybrid extinction law (MW + SMC) would do better
Category=EXT-STAR
Description=[B0-B2 III-I, BE]
Extended=NO

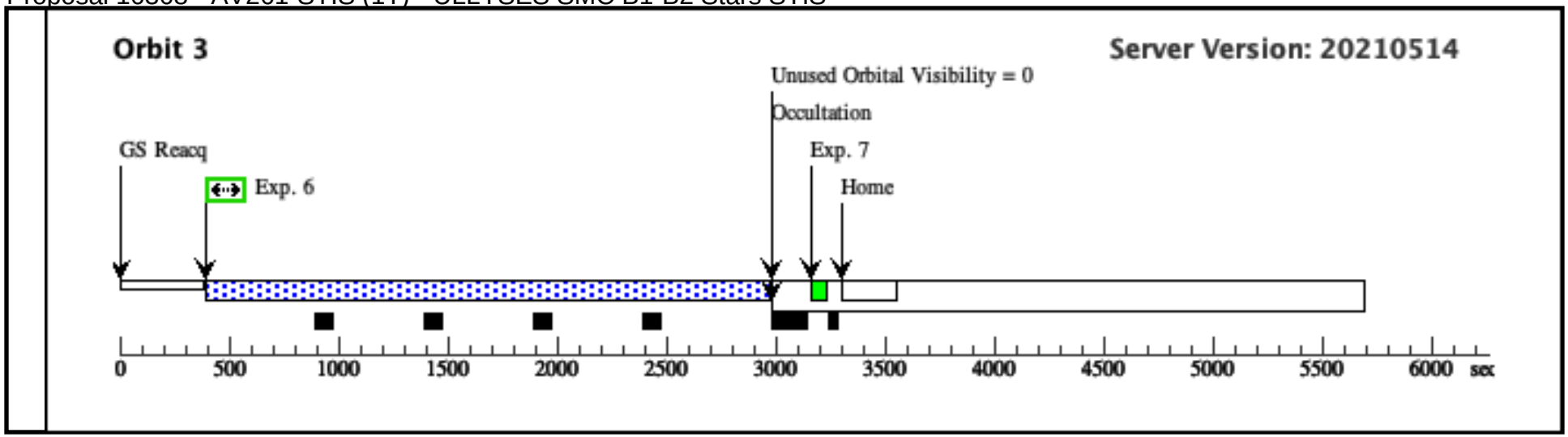
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (1512980)	(1) AV261	STIS/CCD, ACQ, F28X50LP	MIRROR				1.0 Secs (1 Secs) *[==>]*	***[1]***
	Comments: used Castelli & Kurucz B0 I and B5 I, with V=13.9 and E(B-V)=0.09								
2	E230M/1978 (1512979)	(1) AV261	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 1978 A	WAVECAL=NO; BUFFER-TIME=500.0		Sequence 2-3 Non-Int in AV261-STIS (1T)	2181 Secs (2181 Secs) *[==>]*	***[1]***
	Comments: rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1700 +- 5.0A flux=1.1e-13 Flam); stis,nuvmama,e230m,c1978,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B2 (Ib)e --> B2 I* *SED = AV261_STIS_E230M_c1978_sed.fits* *For exptime=20869.2 s, spectral region:* *1800.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 3237.6 cts/s/segment* *brightest pixel: 0.032 cts/s/pix at 2267.0 A* *Calculation performed 2020-02-24T17:53:11, v0.4* *used observed STIS/G230LB spectrum -- S/N~20 at 1800 A in 20000 sec (brightest 0.026, entire detector 3033 cts/s)*								
3	E230M/1978 WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 1978 A			Sequence 2-3 Non-Int in AV261-STIS (1T)	*[==>]*	***[1]***
4	E230M/1978 (1512979)	(1) AV261	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 1978 A	WAVECAL=NO; BUFFER-TIME=500.0		Sequence 4-5 Non-Int in AV261-STIS (1T)	2567 Secs (2567 Secs) *[==>]*	***[2]***
	Comments: rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1700 +- 5.0A flux=1.1e-13 Flam); stis,nuvmama,e230m,c1978,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B2 (Ib)e --> B2 I* *SED = AV261_STIS_E230M_c1978_sed.fits* *For exptime=20869.2 s, spectral region:* *1800.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 3237.6 cts/s/segment* *brightest pixel: 0.032 cts/s/pix at 2267.0 A* *Calculation performed 2020-02-24T17:53:11, v0.4* *used observed STIS/G230LB spectrum -- S/N~20 at 1800 A in 20000 sec (brightest 0.026, entire detector 3033 cts/s)*								
5	E230M/1978 WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 1978 A			Sequence 4-5 Non-Int in AV261-STIS (1T)	*[==>]*	***[2]***
6	E230M/1978 (1512979)	(1) AV261	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 1978 A	WAVECAL=NO; BUFFER-TIME=500.0		Sequence 6-7 Non-Int in AV261-STIS (1T)	2567 Secs (2567 Secs) *[==>]*	***[3]***
	Comments: rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1700 +- 5.0A flux=1.1e-13 Flam); stis,nuvmama,e230m,c1978,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B2 (Ib)e --> B2 I* *SED = AV261_STIS_E230M_c1978_sed.fits* *For exptime=20869.2 s, spectral region:* *1800.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 3237.6 cts/s/segment* *brightest pixel: 0.032 cts/s/pix at 2267.0 A* *Calculation performed 2020-02-24T17:53:11, v0.4* *used observed STIS/G230LB spectrum -- S/N~20 at 1800 A in 20000 sec (brightest 0.026, entire detector 3033 cts/s)*								
7	E230M/1978 WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 1978 A			Sequence 6-7 Non-Int in AV261-STIS (1T)	*[==>]*	***[3]***

Orbit Structure






Orbit 3
Server Version: 20210514
Unused Orbital Visibility = 0
Occultation
GS Reacq
Exp. 6
Exp. 7
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 16368, AV261-STIS (1U), completed Mon Nov 01 15:02:07 GMT 2021

Diagnostic Status: No Diagnostics

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

Special Requirements: SCHED 100%; GROUP 1U,1S,1T WITHIN 30D

Comments: vstatus; 1S; AV261; P/STIS approved for submission; P/DW 13/04/21 ; intrev: complete ; P/AF 12/05/21
vcheck; Enter targ name & Inst. & Resp. Sci.; AV261 ; STIS ; DW
vcheck; ETC numbers entered in APT?; yes
vcheck; Any screening violations?; no
vcheck; S/N ETC calcs done & documented?; yes ...
used STIS/G230LB -- yields brightest pixel 0.026 cts /s (2320.1 A), entire detector 3033 cts/s, S/N~20 near 1800 A
vcheck; Field images checked & saved?; yes
vcheck; Selected ACQ strategy?; direct acq, F28x50LP, 1 sec
vcheck; Possible ACQ or Sci spoilers?; no -- similar previous acq for STIS/G230LB successful
vcheck; Field BOT clear?; yes
vcheck; Visual BOT check for stars not in catalog?; n/a
vcheck; Orbit packing finalized?; yes
vcheck; Buffer times optimized?; yes -- adopt 500 s
vcheck; Verify visit grouping correct; yes -- 3+3+2 orbits within 30 d
vcheck; Is visit ready for int. review?; yes
Allocated STIS orbits = 8

Fixed Targets

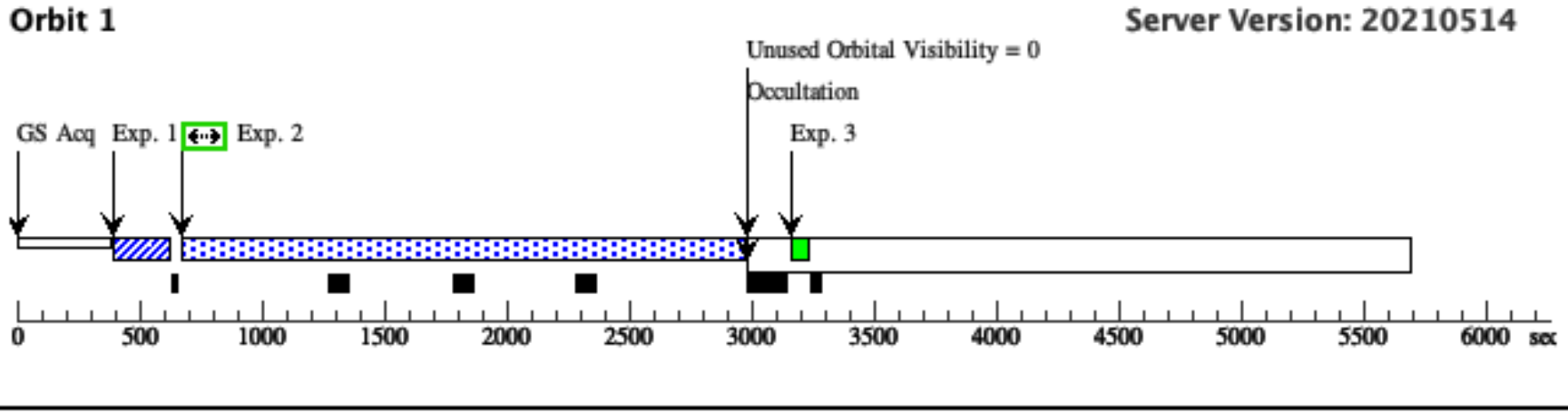
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	AV261	RA: 01 00 58.7221 (15.2446754d)	Proper Motion RA: 0.0 sec of time/yr	V=13.88	Reference Frame: ICRS
	Alt Name1: AZV-261	Dec: -72 30 50.26 (-72.51396d)	Proper Motion Dec: 0.0 arcsec/yr	SpT=B2 (Ib)e; E(B-V)=0.09; U=12.9; B=13.8; V=13.9; F1160=1.43e-13; F1360=1.47e-13; F1700=1.09e-13	
	Alt Name2: AV-261	Equinox: J2000			

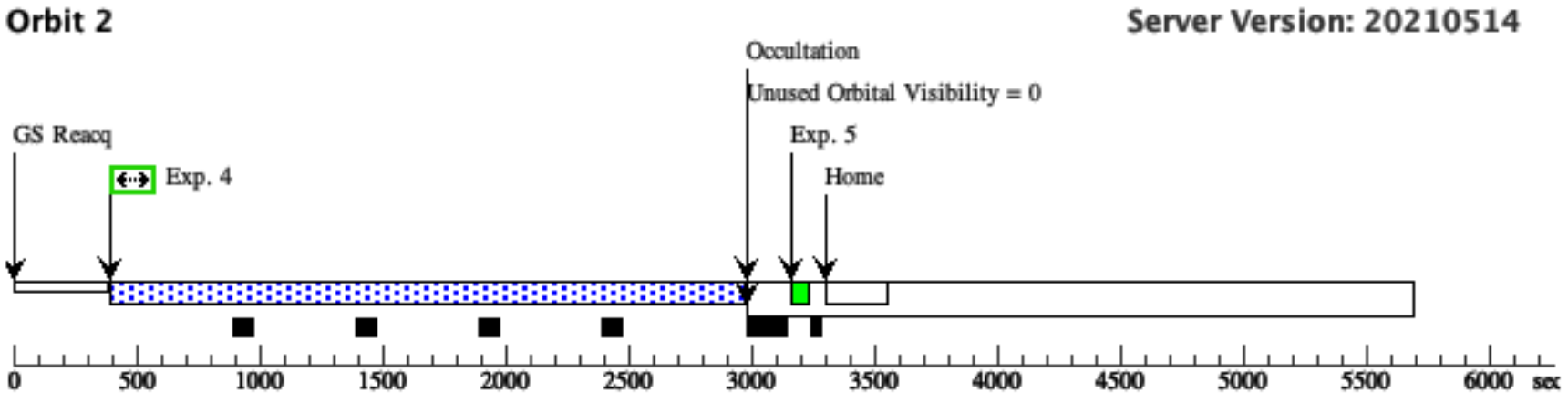
Comments: AV261 : [M2002]_50178, AV 261, AzV 261
Previous name : AV 261
Input file: SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv
SIMBAD link (AzV 261): https://simbad.u-strasbg.fr/simbad/sim-id?Ident=AzV+261&submit=submit+id
SpT = B2 (Ib)e
COS/G130M/c1096 : rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1160 +- 30.0A flux=1.4e-13 Flam)
COS/G130M/c1291 : rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1360 +- 30.0A flux=1.5e-13 Flam)
COS/G160M/c1611 : rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1700 +- 5.0A flux=1.1e-13 Flam)
COS/G185M/c1921 : rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1700 +- 5.0A flux=1.1e-13 Flam)
COS/G185M/c1953 : rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1700 +- 5.0A flux=1.1e-13 Flam)
COS/G185M/c1986 : rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1700 +- 5.0A flux=1.1e-13 Flam)
STIS/E140M/c1425 : rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1360 +- 30.0A flux=1.5e-13 Flam)
STIS/E230M/c1978 : rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1700 +- 5.0A flux=1.1e-13 Flam)
STIS/E230M/c2707 : rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1700 +- 5.0A flux=1.1e-13 Flam)
Coordinate pedigree: Gaia
v sin i = 87
Calculation performed 2020-02-24T17:52:57, v0.4
---
tstatus; AV261; P/STIS approved for submission; S/ins not started; P/DW 13/04/21; S/xx DD/MM/YY
tcheck; APT/SIMBAD target names: ; AV261 'AV 261'
tcheck; Target info verification status?; name, coords, photometry ok, type differs from earlier O8.5 I
tcheck; Coordinates & P.M. updated?; pm set to 0.0
tcheck; Adopted SED compared to Observations?; yes ...
original sed gave a rather poor fit all around -- reducing E(B-V) to 0.06 improved the far-UV and optical, but the near-UV is still overestimated -- chose to do ETC calculations with observed STIS/G230LB spectrum -- perhaps a hybrid extinction law (MW + SMC) would do better
Category=EXT-STAR
Description=[B0-B2 III-I, BE]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (1512980)	(1) AV261	STIS/CCD, ACQ, F28X50LP	MIRROR				1.0 Secs (1 Secs) *[==>]*	***[1]***
	Comments: used Castelli & Kurucz B0 I and B5 I, with V=13.9 and E(B-V)=0.09								
2	E230M/1978 (1512979)	(1) AV261	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 1978 A	WAVECAL=NO; BUFFER-TIME=500.0		Sequence 2-3 Non-Int in AV261-STIS (1U)	2181 Secs (2181 Secs) *[==>]*	***[1]***
	Comments: rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1700 +- 5.0A flux=1.1e-13 Flam); stis,nuvmama,e230m,c1978,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B2 (Ib)e --> B2 I* *SED = AV261_STIS_E230M_c1978_sed.fits* *For exptime=20869.2 s, spectral region:* *1800.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 3237.6 cts/s/segment* *brightest pixel: 0.032 cts/s/pix at 2267.0 A* *Calculation performed 2020-02-24T17:53:11, v0.4* *used observed STIS/G230LB spectrum -- S/N~20 at 1800 A in 20000 sec (brightest 0.026, entire detector 3033 cts/s)*								
3	E230M/1978 WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 1978 A			Sequence 2-3 Non-Int in AV261-STIS (1U)	*[==>]*	***[1]***
4	E230M/1978 (1512979)	(1) AV261	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 1978 A	WAVECAL=NO; BUFFER-TIME=500.0		Sequence 4-5 Non-Int in AV261-STIS (1U)	2567 Secs (2567 Secs) *[==>]*	***[2]***
	Comments: rn-max(ck04models(B2I,Teff=21040,metallicity=0.004,logG=3) (extinction smcbar=0.090), flux1700 +- 5.0A flux=1.1e-13 Flam); stis,nuvmama,e230m,c1978,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B2 (Ib)e --> B2 I* *SED = AV261_STIS_E230M_c1978_sed.fits* *For exptime=20869.2 s, spectral region:* *1800.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 3237.6 cts/s/segment* *brightest pixel: 0.032 cts/s/pix at 2267.0 A* *Calculation performed 2020-02-24T17:53:11, v0.4* *used observed STIS/G230LB spectrum -- S/N~20 at 1800 A in 20000 sec (brightest 0.026, entire detector 3033 cts/s)*								
5	E230M/1978 WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 1978 A			Sequence 4-5 Non-Int in AV261-STIS (1U)	*[==>]*	***[2]***

Orbit Structure





Visit

Proposal 16368, AV264-STIS (2S), failed Mon Nov 01 15:02:08 GMT 2021

Diagnostic Status: No Diagnostics

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

Special Requirements: SCHED 100%

Comments: vstatus; 2S; AV264; P/STIS approved for submission; P/DW 14/04/21 ; intrev: complete ; P/AF 12/05/21
vcheck; Enter targ name & Inst. & Resp. Sci.; AV264 ; STIS ; DW
vcheck; ETC numbers entered in APT?; yes
vcheck; Any screening violations?; no
vcheck; S/N ETC calcs done & documented?; yes ...
using IUE spectrum, 0.2x0.2 aperture, 4780 s for E140M, 2567 s for E230M
E140M -- brightest 0.052 cts/s (1319.9A), entire 4458 cts/s, BT=449s, S/N~30 (1425A), S/N~20 (1200A) (ETC 1513153)
E230M -- brightest 0.144 cts/s (2291.8A), entire 6250 cts/s, BT=320s, S/N~26 (1978A), S/N~21 (1800A) (ETC 1513174)
vcheck; Field images checked & saved?; yes
vcheck; Selected ACQ strategy?; yes -- direct acq, F28x50LP, 0.5 sec -- yields S/N~155 for CK B0 I or B5 I models
vcheck; Possible ACQ or Sci spoilers?; no
vcheck; Field BOT clear?; yes -- both GSC2, GALEX have 1 safe object (target)
vcheck; Visual BOT check for stars not in catalog?; n/a
vcheck; Orbit packing finalized?; yes -- 2 orbits for E140M, 1 orbit for E230M
vcheck; Buffer times optimized?; yes
vcheck; Verify visit grouping correct; n/a
vcheck; Is visit ready for int. review?; yes
Allocated STIS orbits = 3

Fixed Targets

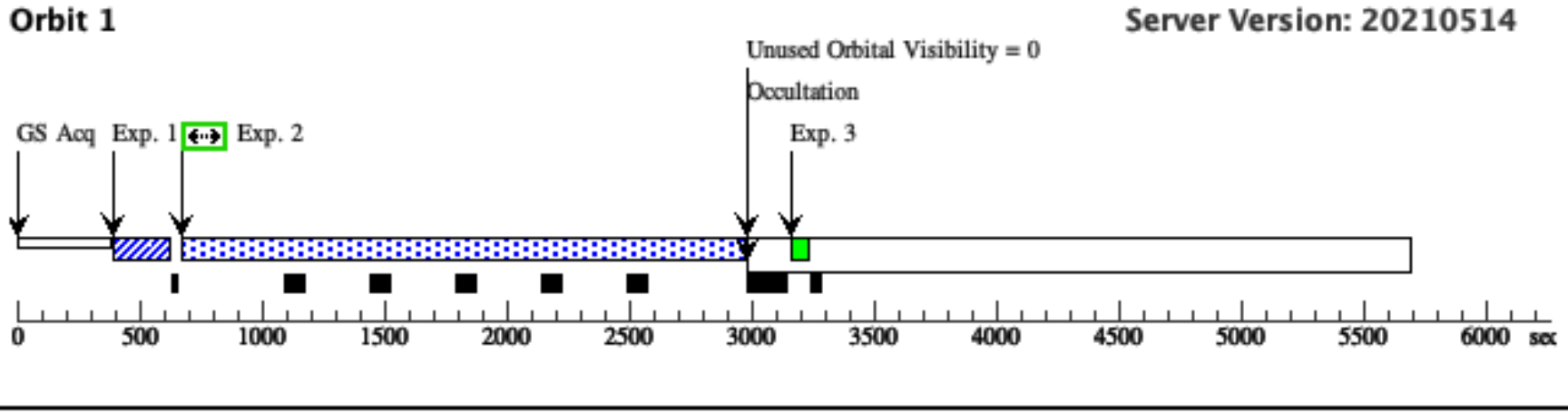
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	AV264	RA: 01 01 7.7661 (15.2823587d)	Proper Motion RA: 0.0 sec of time/yr	V=12.36	Reference Frame: ICRS
	Alt Name1: SK-94	Dec: -71 59 58.80 (-71.99967d)	Proper Motion Dec: 0.0 arcsec/yr	SpT=B1Ia; E(B-V)=0.04; B=12.2; V=12.4; F1160=8.66e-13; F1360=8.31e-13	
	Alt Name2: AZV-264	Equinox: J2000			

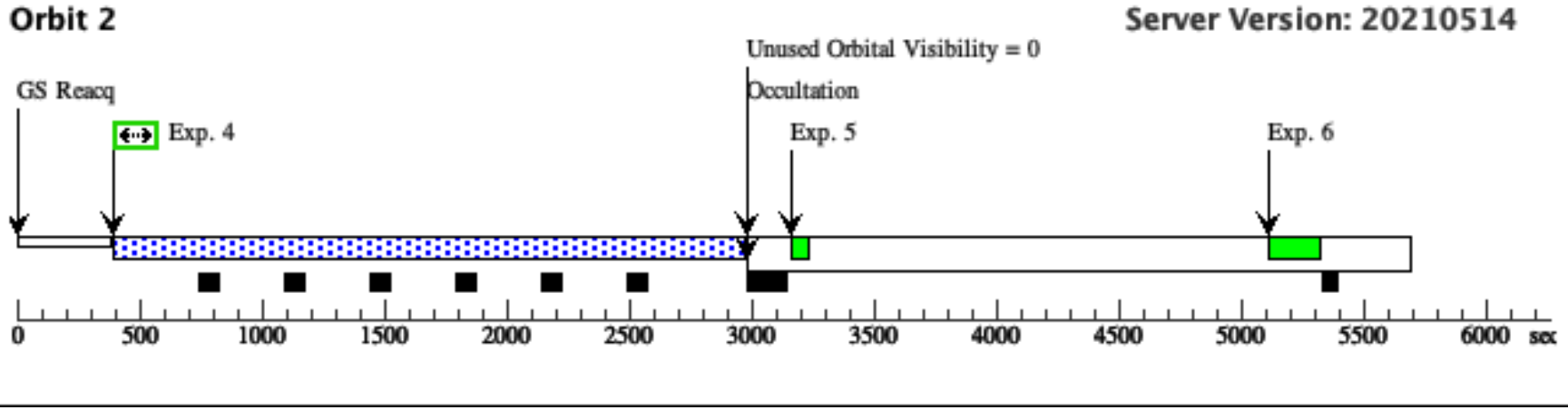
Comments: AV264 : AV_264, AzV 264
Previous name : AV264
Input file: SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv
SIMBAD link (AzV 264): https://simbad.u-strasbg.fr/simbad/sim-id?Ident=AzV+264&submit=submit+id
SpT = B1Ia
COS/G130M/c1096 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.040), flux1160 +- 30.0A flux=8.7e-13 Flam)
COS/G130M/c1291 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.040), flux1360 +- 30.0A flux=8.3e-13 Flam)
COS/G160M/c1611 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.040), flux1360 +- 30.0A flux=8.3e-13 Flam)
COS/G185M/c1921 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.040), flux1360 +- 30.0A flux=8.3e-13 Flam)
COS/G185M/c1953 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.040), flux1360 +- 30.0A flux=8.3e-13 Flam)
COS/G185M/c1986 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.040), flux1360 +- 30.0A flux=8.3e-13 Flam)
STIS/E140M/c1425 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.040), flux1360 +- 30.0A flux=8.3e-13 Flam)
STIS/E230M/c1978 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.040), flux1360 +- 30.0A flux=8.3e-13 Flam)
STIS/E230M/c2707 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.040), flux1360 +- 30.0A flux=8.3e-13 Flam)
Coordinate pedigree: Gaia
v sin i = 216
Calculation performed 2020-02-24T17:52:28, v0.4
---
tstatus; AV264; P/STIS approved for submission; S/ins not started; P/DW 14/04/21; S/xx DD/MM/YY
tcheck; APT/SIMBAD target names: ; AV264 'AV 264' ...
aka Sk 94
tcheck; Target info verification status?; coords, photometry, type all ok
tcheck; Coordinates & P.M. updated?; pm set to 0.0
tcheck; Adopted SED compared to Observations?; yes ...
original sed (WM basic B0.5 I) was too high in FUV, too low in optical
new sed2 (Castelli-Kurucz B2 I) is slightly high below 1300 A, but in good agreement (with IUE) from about 1300-3200 A and in the optical
Category=EXT-STAR
Description=[B0-B2 III-I]
Extended=NO

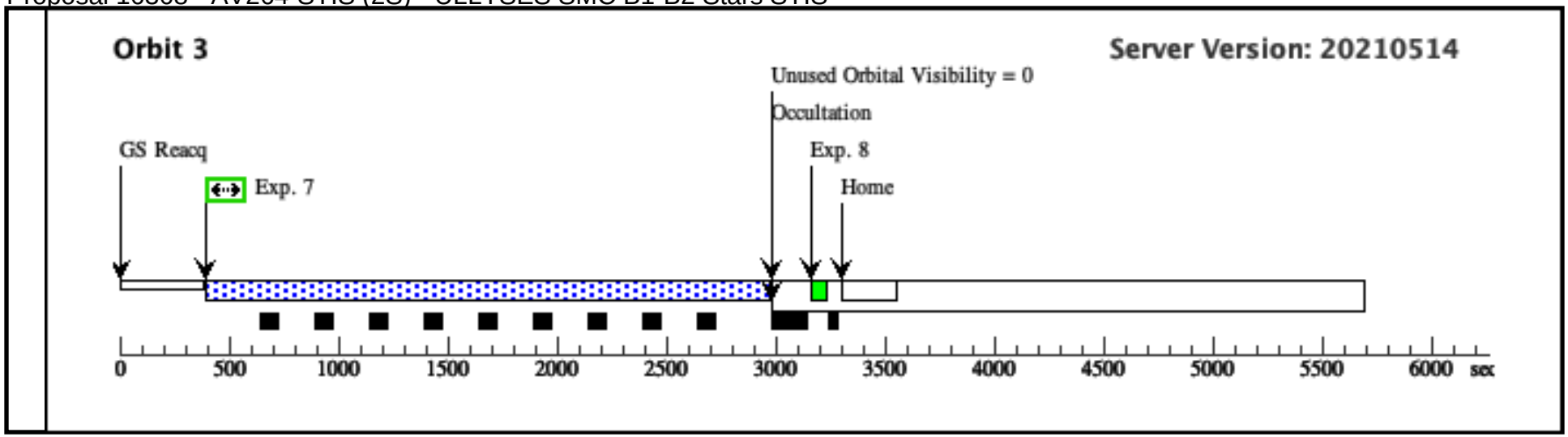
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (1513147)	(2) AV264	STIS/CCD, ACQ, F28X50LP	MIRROR				0.5 Secs (0.5 Secs) *[==>]*	***[1]***
2	E140M/1425 (1513153)	(2) AV264	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	WAVECAL=NO; BUFFER-TIME=350.0		Sequence 2-3 Non-Int in AV264-STIS (2S)	2213 Secs (2213 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=0.040), flux1360 +- 30.0A flux=8.3e-13 Flam); stis,fuvmama,e140m,c1425,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B1Ia --> B0.5 I* *SED = AV264_STIS_E140M_c1425_sed.fits* *For exptime=4997.8 s, spectral region:* *1200.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 4659.2 cts/s/segment* *brightest pixel: 0.058 cts/s/pix at 1395.0 A* *Calculation performed 2020-02-24T17:52:40, v0.4*								
3	E140M/1425 WAVECAL	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A			Sequence 2-3 Non-Int in AV264-STIS (2S)	*[==>]*	***[1]***
4	E140M/1425 (1513153)	(2) AV264	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	WAVECAL=NO; BUFFER-TIME=350.0		Sequence 4-5 Non-Int in AV264-STIS (2S)	2567 Secs (2567 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=0.040), flux1360 +- 30.0A flux=8.3e-13 Flam); stis,fuvmama,e140m,c1425,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B1Ia --> B0.5 I* *SED = AV264_STIS_E140M_c1425_sed.fits* *For exptime=4997.8 s, spectral region:* *1200.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 4659.2 cts/s/segment* *brightest pixel: 0.058 cts/s/pix at 1395.0 A* *Calculation performed 2020-02-24T17:52:40, v0.4*								
5	E140M/1425 WAVECAL	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A			Sequence 4-5 Non-Int in AV264-STIS (2S)	*[==>]*	***[2]***
6	E230M/1978 WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 1978 A			Sequence 6-8 Non-Int in AV264-STIS (2S)	*[==>]*	***[2]***
7	E230M/1978 (1513174)	(2) AV264	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 1978 A	WAVECAL=NO; BUFFER-TIME=250.0		Sequence 6-8 Non-Int in AV264-STIS (2S)	2567 Secs (2567 Secs) *[==>]*	***[3]***
	Comments: rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.040), flux1360 +- 30.0A flux=8.3e-13 Flam); stis,nuvmama,e230m,c1978,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B1Ia --> B0.5 I* *SED = AV264_STIS_E230M_c1978_sed.fits* *For exptime=2664.6 s, spectral region:* *1800.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 6390.0 cts/s/segment* *brightest pixel: 0.117 cts/s/pix at 2293.0 A* *Calculation performed 2020-02-24T17:52:41, v0.4*								
8	E230M/1978 WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 1978 A			Sequence 6-8 Non-Int in AV264-STIS (2S)	*[==>]*	***[3]***

Orbit Structure






Orbit 3
Server Version: 20210514
Unused Orbital Visibility = 0
Occultation
GS Reacq
Exp. 7
Exp. 8
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 16368, AV264-STIS (BS), scheduling Mon Nov 01 15:02:08 GMT 2021

Diagnostic Status: No Diagnostics

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

Special Requirements: SCHED 100%

Comments: vstatus; BS; AV264; P/STIS approved for submission; P/DW 14/04/21 ; intrev: complete ; P/AF 12/05/21
vcheck; Enter targ name & Inst. & Resp. Sci.; AV264 ; STIS ; DW
vcheck; ETC numbers entered in APT?; yes
vcheck; Any screening violations?; no
vcheck; S/N ETC calcs done & documented?; yes ...
using IUE spectrum, 0.2x0.2 aperture, 4780 s for E140M, 2567 s for E230M
E140M -- brightest 0.052 cts/s (1319.9A), entire 4458 cts/s, BT=449s, S/N~30 (1425A), S/N~20 (1200A) (ETC 1513153)
E230M -- brightest 0.144 cts/s (2291.8A), entire 6250 cts/s, BT=320s, S/N~26 (1978A), S/N~21 (1800A) (ETC 1513174)
vcheck; Field images checked & saved?; yes
vcheck; Selected ACQ strategy?; yes -- direct acq, F28x50LP, 0.5 sec -- yields S/N~155 for CK B0 I or B5 I models
vcheck; Possible ACQ or Sci spoilers?; no
vcheck; Field BOT clear?; yes -- both GSC2, GALEX have 1 safe object (target)
vcheck; Visual BOT check for stars not in catalog?; n/a
vcheck; Orbit packing finalized?; yes -- 2 orbits for E140M, 1 orbit for E230M
vcheck; Buffer times optimized?; yes
vcheck; Verify visit grouping correct; n/a
vcheck; Is visit ready for int. review?; yes
Allocated STIS orbits = 3

this is a repeat of visit 2S, for which the acq failed (see HOPR 92103)

Fixed Targets

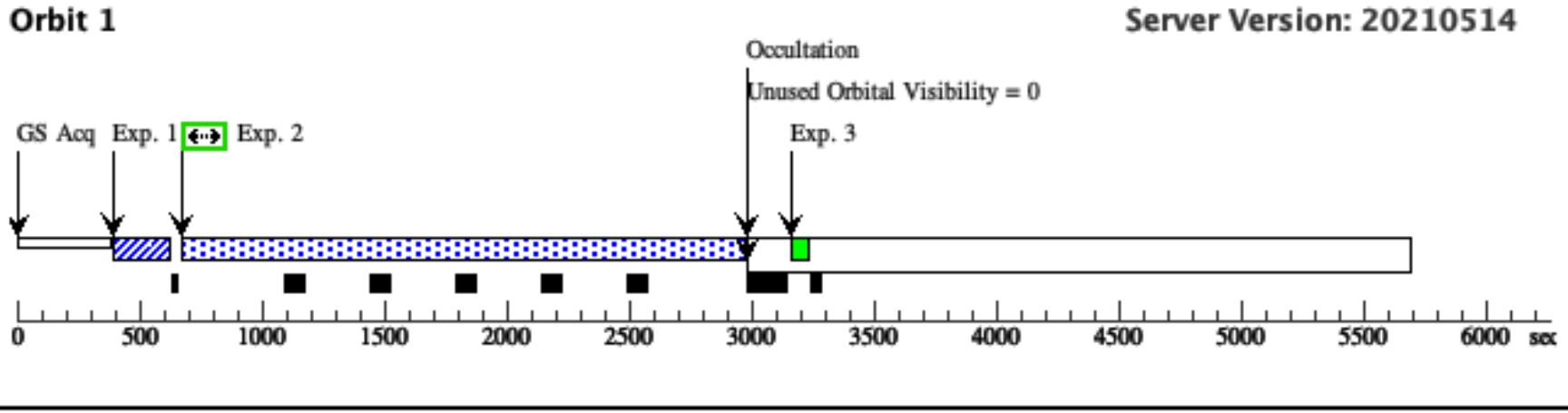
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	AV264	RA: 01 01 7.7661 (15.2823587d)	Proper Motion RA: 0.0 sec of time/yr	V=12.36	Reference Frame: ICRS
	Alt Name1: SK-94	Dec: -71 59 58.80 (-71.99967d)	Proper Motion Dec: 0.0 arcsec/yr	SpT=B1Ia; E(B-V)=0.04; B=12.2; V=12.4; F1160=8.66e-13; F1360=8.31e-13	
	Alt Name2: AZV-264	Equinox: J2000			

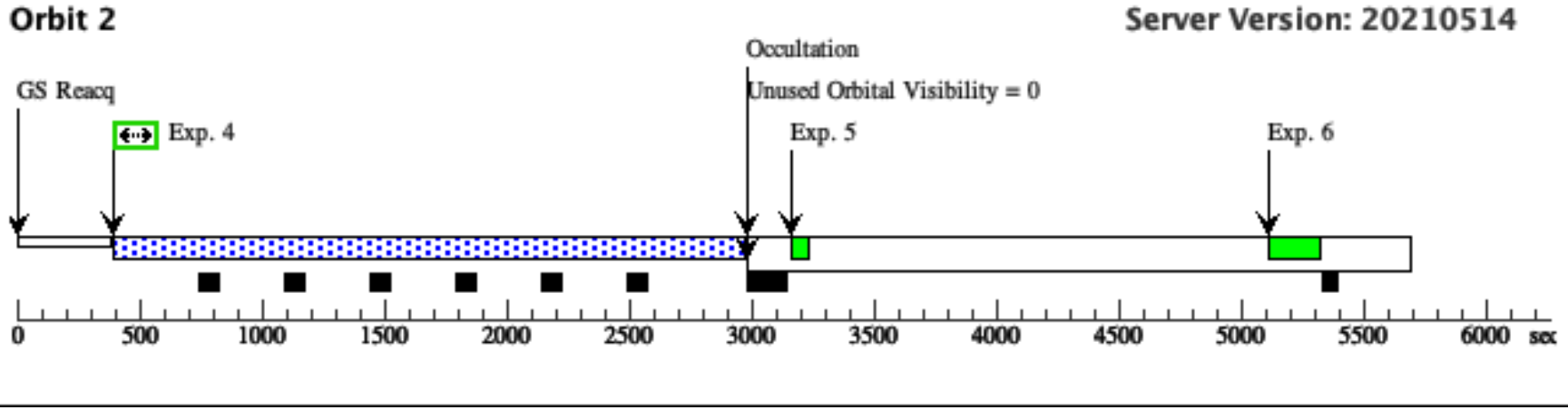
Comments: AV264 : AV_264, AzV 264
Previous name : AV264
Input file: SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv
SIMBAD link (AzV 264): https://simbad.u-strasbg.fr/simbad/sim-id?Ident=AzV+264&submit=submit+id
SpT = B1Ia
COS/G130M/c1096 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.040), flux1160 +- 30.0A flux=8.7e-13 Flam)
COS/G130M/c1291 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.040), flux1360 +- 30.0A flux=8.3e-13 Flam)
COS/G160M/c1611 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.040), flux1360 +- 30.0A flux=8.3e-13 Flam)
COS/G185M/c1921 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.040), flux1360 +- 30.0A flux=8.3e-13 Flam)
COS/G185M/c1953 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.040), flux1360 +- 30.0A flux=8.3e-13 Flam)
COS/G185M/c1986 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.040), flux1360 +- 30.0A flux=8.3e-13 Flam)
STIS/E140M/c1425 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.040), flux1360 +- 30.0A flux=8.3e-13 Flam)
STIS/E230M/c1978 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.040), flux1360 +- 30.0A flux=8.3e-13 Flam)
STIS/E230M/c2707 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.040), flux1360 +- 30.0A flux=8.3e-13 Flam)
Coordinate pedigree: Gaia
v sin i = 216
Calculation performed 2020-02-24T17:52:28, v0.4
---
tstatus; AV264; P/STIS approved for submission; S/ins not started; P/DW 14/04/21; S/xx DD/MM/YY
tcheck; APT/SIMBAD target names: ; AV264 'AV 264' ...
aka Sk 94
tcheck; Target info verification status?; coords, photometry, type all ok
tcheck; Coordinates & P.M. updated?; pm set to 0.0
tcheck; Adopted SED compared to Observations?; yes ...
original sed (WM basic B0.5 I) was too high in FUV, too low in optical
new sed2 (Castelli-Kurucz B2 I) is slightly high below 1300 A, but in good agreement (with IUE) from about 1300-3200 A and in the optical
Category=EXT-STAR
Description=[B0-B2 III-I]
Extended=NO

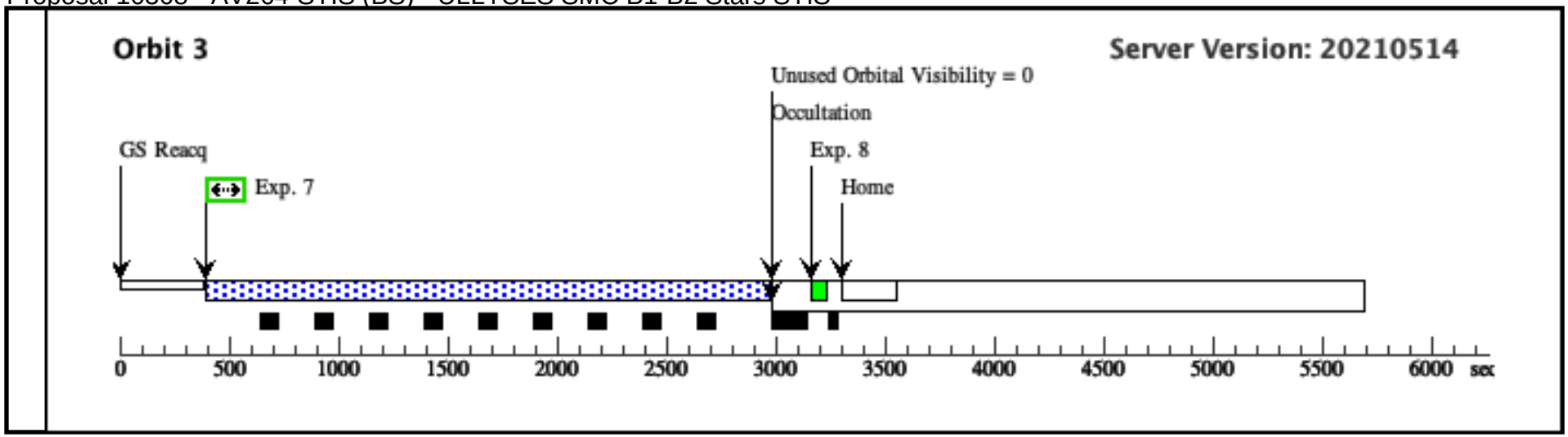
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (1513147)	(2) AV264	STIS/CCD, ACQ, F28X50LP	MIRROR				0.5 Secs (0.5 Secs) *[==>]*	***[1]***
2	E140M/1425 (1513153)	(2) AV264	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	WAVECAL=NO; BUFFER-TIME=350.0		Sequence 2-3 Non-Int in AV264-STIS (BS)	2213 Secs (2213 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=0.040), flux1360 +- 30.0A flux=8.3e-13 Flam); stis,fuvmama,e140m,c1425,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B1Ia --> B0.5 I* *SED = AV264_STIS_E140M_c1425_sed.fits* *For exptime=4997.8 s, spectral region:* *1200.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 4659.2 cts/s/segment* *brightest pixel: 0.058 cts/s/pix at 1395.0 A* *Calculation performed 2020-02-24T17:52:40, v0.4*								
3	E140M/1425 WAVECAL	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A			Sequence 2-3 Non-Int in AV264-STIS (BS)	*[==>]*	***[1]***
4	E140M/1425 (1513153)	(2) AV264	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	WAVECAL=NO; BUFFER-TIME=350.0		Sequence 4-5 Non-Int in AV264-STIS (BS)	2567 Secs (2567 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=0.040), flux1360 +- 30.0A flux=8.3e-13 Flam); stis,fuvmama,e140m,c1425,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B1Ia --> B0.5 I* *SED = AV264_STIS_E140M_c1425_sed.fits* *For exptime=4997.8 s, spectral region:* *1200.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 4659.2 cts/s/segment* *brightest pixel: 0.058 cts/s/pix at 1395.0 A* *Calculation performed 2020-02-24T17:52:40, v0.4*								
5	E140M/1425 WAVECAL	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A			Sequence 4-5 Non-Int in AV264-STIS (BS)	*[==>]*	***[2]***
6	E230M/1978 WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 1978 A			Sequence 6-8 Non-Int in AV264-STIS (BS)	*[==>]*	***[2]***
7	E230M/1978 (1513174)	(2) AV264	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 1978 A	WAVECAL=NO; BUFFER-TIME=250.0		Sequence 6-8 Non-Int in AV264-STIS (BS)	2567 Secs (2567 Secs) *[==>]*	***[3]***
	Comments: rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.040), flux1360 +- 30.0A flux=8.3e-13 Flam); stis,nuvmama,e230m,c1978,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B1Ia --> B0.5 I* *SED = AV264_STIS_E230M_c1978_sed.fits* *For exptime=2664.6 s, spectral region:* *1800.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 6390.0 cts/s/segment* *brightest pixel: 0.117 cts/s/pix at 2293.0 A* *Calculation performed 2020-02-24T17:52:41, v0.4*								
8	E230M/1978 WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 1978 A			Sequence 6-8 Non-Int in AV264-STIS (BS)	*[==>]*	***[3]***

Orbit Structure






Orbit 3
Server Version: 20210514
Unused Orbital Visibility = 0
Occultation
GS Reacq
Exp. 7
Exp. 8
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 16368, AV85-STIS (3S), failed Mon Nov 01 15:02:08 GMT 2021

Diagnostic Status: No Diagnostics

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

Special Requirements: SCHED 100%; GROUP 3S,3T WITHIN 30D

Comments: vstatus; 3S; AV85; P/STIS approved for submission; P/DW 14/04/21 ; intrev: complete ; P/AF 14/05/21
vcheck; Enter targ name & Inst. & Resp. Sci.; AV85 ; STIS ; DW
vcheck; ETC numbers entered in APT?; yes
vcheck; Any screening violations?; no
vcheck; S/N ETC calcs done & documented?; yes ...
E140M -- IUE spectrum, 12000 s - brightest 0.014 cts/s (1355.1A), entire 1359 cts/s, BT=1472, S/N~25 (1425A), S/N~17 (1200A)
vcheck; Field images checked & saved?; yes
vcheck; Selected ACQ strategy?; direct acq, F28x50LP, 1 s yields S/N~115 (1513187)
vcheck; Possible ACQ or Sci spoilers?; no ...
but have no high-resolution images -- target nearly fills clearance circle in DSS, some faint stars near edge of clearance circle
vcheck; Field BOT clear?; yes
vcheck; Visual BOT check for stars not in catalog?; n/a
vcheck; Orbit packing finalized?; yes
vcheck; Buffer times optimized?; yes
vcheck; Verify visit grouping correct; yes -- two visits within 30 d
vcheck; Is visit ready for int. review?; yes
Allocated STIS orbits = 5

Fixed Targets

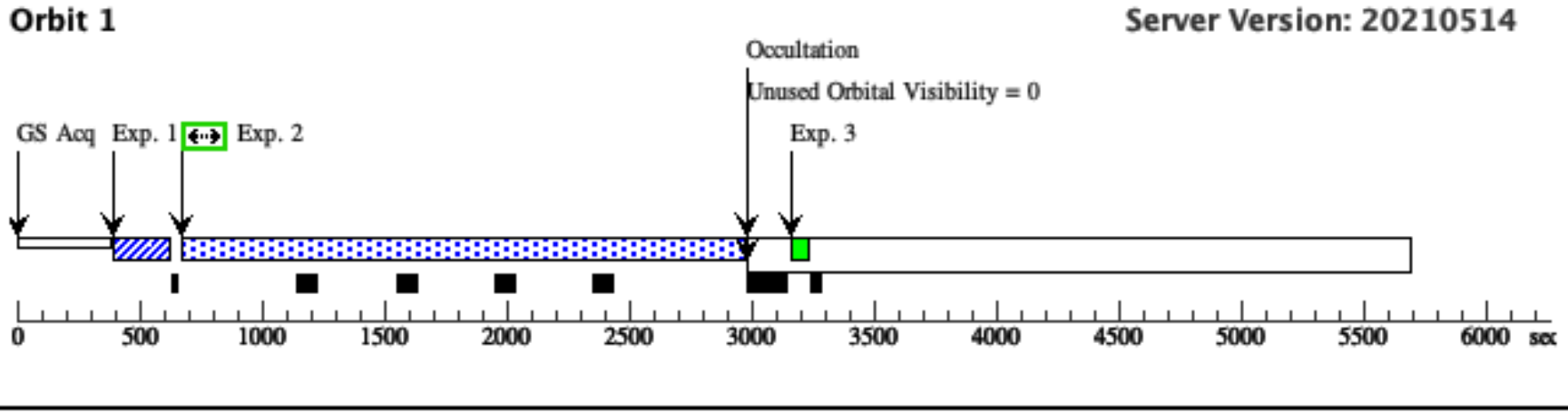
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	AV85	RA: 00 51 0.1198 (12.7504992d)	Proper Motion RA: 0.0 sec of time/yr	V=13.56	Reference Frame: ICRS
	Alt Name1: AZV-85	Dec: -72 53 4.11 (-72.88448d)	Proper Motion Dec: 0.0 arcsec/yr	SpT=B1II-IIIe; E(B-V)=0.23; B =13.6; V=13.6; F1160=2.69e-13	
	Alt Name2: LIN-166	Equinox: J2000			

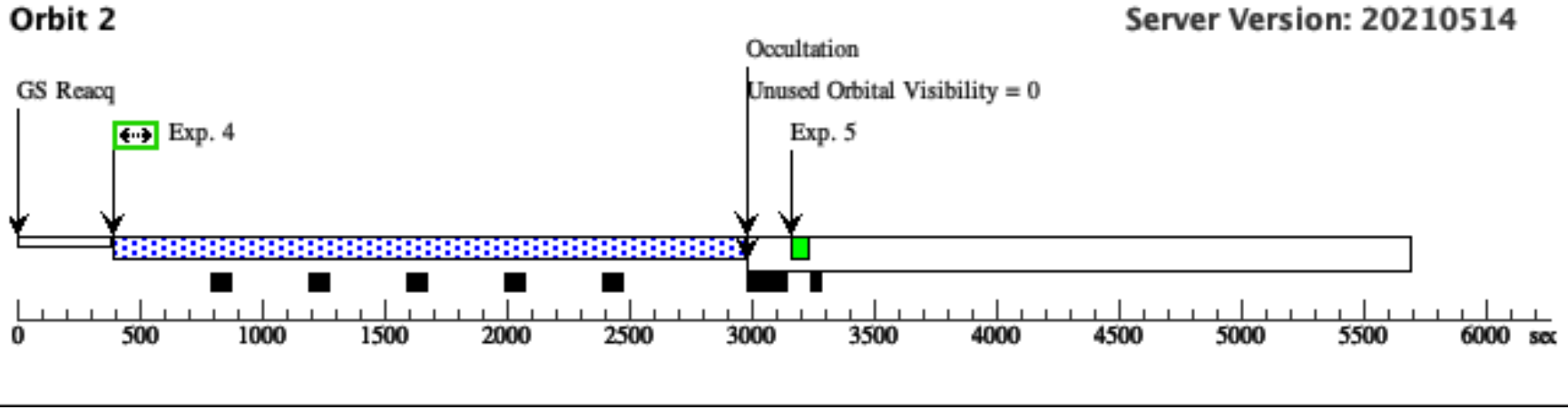
Comments: AV85 : OGLE005100.18-725303, OGLE_-9999, AzV 85
Previous name : OGLE005100.18-725303
Input file: SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv
SIMBAD link (AzV 85): https://simbad.u-strasbg.fr/simbad/sim-id?Ident=AzV+85&submit=submit+id
SpT = B1II-IIIe
COS/G130M/c1096 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
COS/G130M/c1291 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
COS/G160M/c1611 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
COS/G185M/c1921 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
COS/G185M/c1953 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
COS/G185M/c1986 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
STIS/E140M/c1425 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
STIS/E230M/c1978 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
STIS/E230M/c2707 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
Coordinate pedigree: 2MASS
Calculation performed 2020-02-24T17:50:15, v0.4
---
tstatus; AV85; P/STIS approved for submission; S/ins not started; P/DW 14/04/21; S/xx DD/MM/YY
tcheck; APT/SIMBAD target names: ; AV85 'AV 85' ...
aka Lin 166
tcheck; Target info verification status?; coords, type, photometry ok -- though photometry from AV75 is 0.1-0.2 mag fainter
tcheck; Coordinates & P.M. updated?; set pm to 0.0
tcheck; Adopted SED compared to Observations?; yes ...
original sed -- WM_basic, E(B-V)=0.23 (smcbar), norm at 1160 -- much too high -- problem with photometry? (EBV too high)
new sed -- CK B2 I, E(B-V)=0.05 (mwavg), norm at 1360 -- much better fit, though too high from 1150-1350
Category=EXT-STAR
Description=[B0-B2 III-I, BE]
Extended=NO

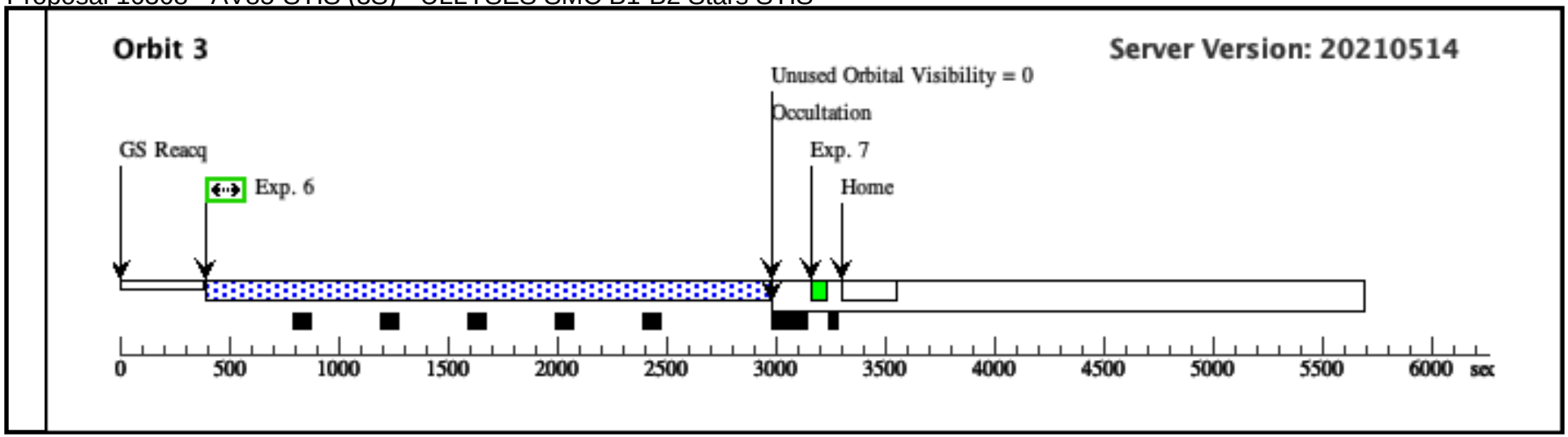
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (1513187)	(3) AV85	STIS/CCD, ACQ, F28X50LP	MIRROR				1.0 Secs (1 Secs) *[==>]*	*[1]*
2	E140M/1425 (1513188)	(3) AV85	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	WAVECAL=NO; BUFFER-TIME=400.0		Sequence 2-3 Non-Int in AV85-STIS (3S)	2211 Secs (2211 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=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam); stis,fuvmama,e140m,c1425,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B1II-IIIe --> B0.5 I* *SED = AV85_STIS_E140M_c1425_sed.fits* *For exptime=11720.2 s, spectral region:* *1200.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 4091.1 cts/s/segment* *brightest pixel: 0.052 cts/s/pix at 1395.0 A* *Calculation performed 2020-02-24T17:50:29, v0.4*								
3	E140M/1425 WAVECAL	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A			Sequence 2-3 Non-Int in AV85-STIS (3S)	*[==>]*	*[1]*
4	E140M/1425 (1513188)	(3) AV85	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	WAVECAL=NO; BUFFER-TIME=400.0		Sequence 4-5 Non-Int in AV85-STIS (3S)	2567 Secs (2567 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=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam); stis,fuvmama,e140m,c1425,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B1II-IIIe --> B0.5 I* *SED = AV85_STIS_E140M_c1425_sed.fits* *For exptime=11720.2 s, spectral region:* *1200.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 4091.1 cts/s/segment* *brightest pixel: 0.052 cts/s/pix at 1395.0 A* *Calculation performed 2020-02-24T17:50:29, v0.4*								
5	E140M/1425 WAVECAL	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A			Sequence 4-5 Non-Int in AV85-STIS (3S)	*[==>]*	*[2]*
6	E140M/1425 (1513188)	(3) AV85	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	WAVECAL=NO; BUFFER-TIME=400.0		Sequence 6-7 Non-Int in AV85-STIS (3S)	2567 Secs (2567 Secs) *[==>]*	*[3]*
	Comments: rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam); stis,fuvmama,e140m,c1425,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B1II-IIIe --> B0.5 I* *SED = AV85_STIS_E140M_c1425_sed.fits* *For exptime=11720.2 s, spectral region:* *1200.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 4091.1 cts/s/segment* *brightest pixel: 0.052 cts/s/pix at 1395.0 A* *Calculation performed 2020-02-24T17:50:29, v0.4*								
7	E140M/1425 WAVECAL	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A			Sequence 6-7 Non-Int in AV85-STIS (3S)	*[==>]*	*[3]*

Orbit Structure






Orbit 3
Server Version: 20210514
Unused Orbital Visibility = 0
Occultation
GS Reacq
Exp. 6
Exp. 7
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 16368, AV85-STIS (CS) Mon Nov 01 15:02:08 GMT 2021

Diagnostic Status: No Diagnostics

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

Special Requirements: SCHED 100%; GROUP CS,CT WITHIN 30D

Comments: vstatus; 3S; AV85; P/STIS approved for submission; P/DW 14/04/21 ; intrev: complete ; P/AF 14/05/21
vcheck; Enter targ name & Inst. & Resp. Sci.; AV85 ; STIS ; DW
vcheck; ETC numbers entered in APT?; yes
vcheck; Any screening violations?; no
vcheck; S/N ETC calcs done & documented?; yes ...
E140M -- IUE spectrum, 12000 s - brightest 0.014 cts/s (1355.1A), entire 1359 cts/s, BT=1472, S/N~25 (1425A), S/N~17 (1200A)
vcheck; Field images checked & saved?; yes
vcheck; Selected ACQ strategy?; direct acq, F28x50LP, 1 s yields S/N~115 (1513187)
vcheck; Possible ACQ or Sci spoilers?; no ...
but have no high-resolution images -- target nearly fills clearance circle in DSS, some faint stars near edge of clearance circle
vcheck; Field BOT clear?; yes
vcheck; Visual BOT check for stars not in catalog?; n/a
vcheck; Orbit packing finalized?; yes
vcheck; Buffer times optimized?; yes
vcheck; Verify visit grouping correct; yes -- two visits within 30 d
vcheck; Is visit ready for int. review?; yes
Allocated STIS orbits = 5

Fixed Targets

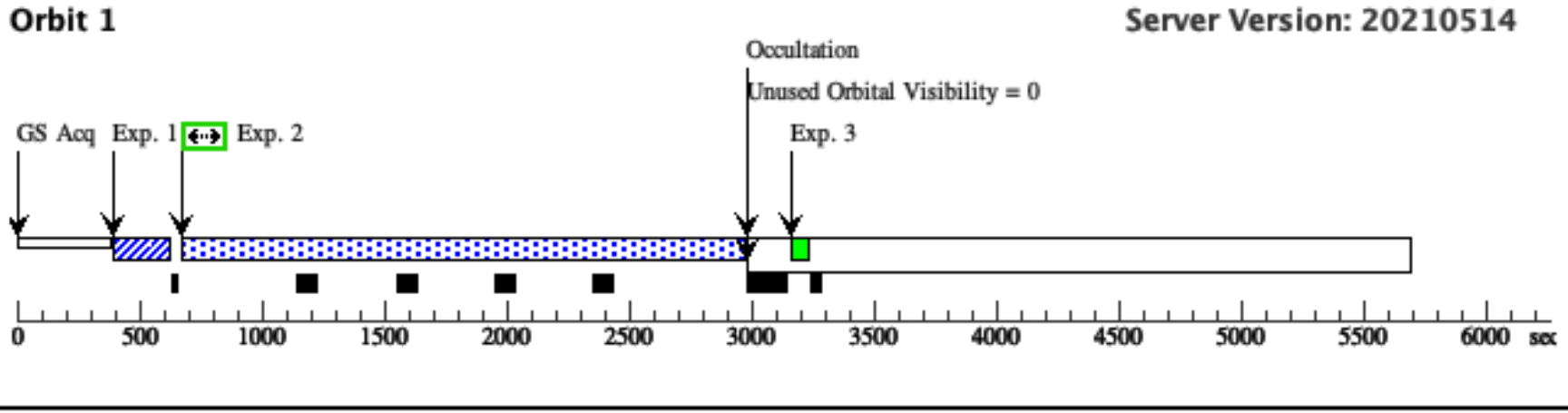
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	AV85	RA: 00 51 0.1198 (12.7504992d)	Proper Motion RA: 0.0 sec of time/yr	V=13.56	Reference Frame: ICRS
	Alt Name1: AZV-85	Dec: -72 53 4.11 (-72.88448d)	Proper Motion Dec: 0.0 arcsec/yr	SpT=B1II-IIIe; E(B-V)=0.23; B =13.6; V=13.6; F1160=2.69e-13	
	Alt Name2: LIN-166	Equinox: J2000			

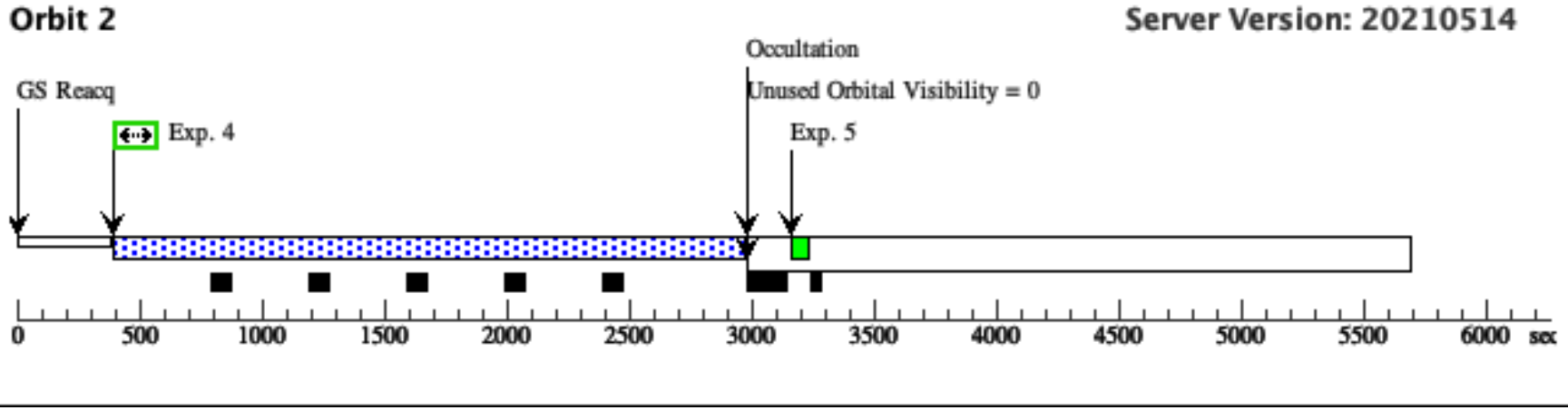
Comments: AV85 : OGLE005100.18-725303, OGLE_-9999, AzV 85
Previous name : OGLE005100.18-725303
Input file: SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv
SIMBAD link (AzV 85): https://simbad.u-strasbg.fr/simbad/sim-id?Ident=AzV+85&submit=submit+id
SpT = B1II-IIIe
COS/G130M/c1096 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
COS/G130M/c1291 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
COS/G160M/c1611 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
COS/G185M/c1921 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
COS/G185M/c1953 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
COS/G185M/c1986 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
STIS/E140M/c1425 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
STIS/E230M/c1978 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
STIS/E230M/c2707 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
Coordinate pedigree: 2MASS
Calculation performed 2020-02-24T17:50:15, v0.4
---
tstatus; AV85; P/STIS approved for submission; S/ins not started; P/DW 14/04/21; S/xx DD/MM/YY
tcheck; APT/SIMBAD target names: ; AV85 'AV 85' ...
aka Lin 166
tcheck; Target info verification status?; coords, type, photometry ok -- though photometry from AV75 is 0.1-0.2 mag fainter
tcheck; Coordinates & P.M. updated?; set pm to 0.0
tcheck; Adopted SED compared to Observations?; yes ...
original sed -- WM_basic, E(B-V)=0.23 (smcbar), norm at 1160 -- much too high -- problem with photometry? (EBV too high)
new sed -- CK B2 I, E(B-V)=0.05 (mwavg), norm at 1360 -- much better fit, though too high from 1150-1350
Category=EXT-STAR
Description=[B0-B2 III-I, BE]
Extended=NO

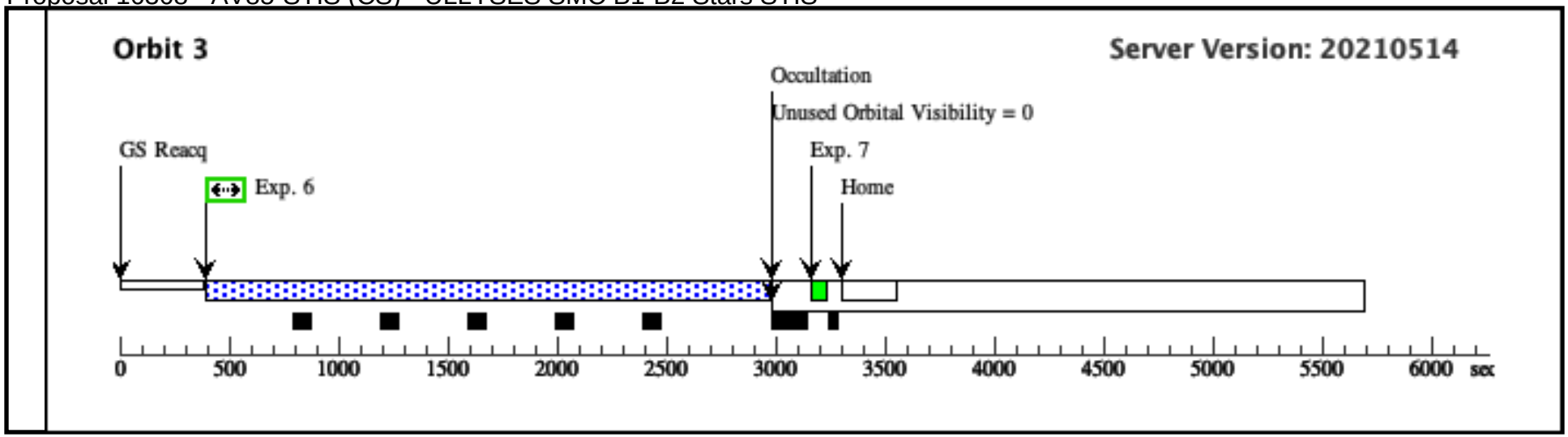
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (1513187)	(3) AV85	STIS/CCD, ACQ, F28X50LP	MIRROR				1.0 Secs (1 Secs) *[==>]*	***[1]***
2	E140M/1425 (1513188)	(3) AV85	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	WAVECAL=NO; BUFFER-TIME=400.0		Sequence 2-3 Non-Int in AV85-STIS (CS)	2211 Secs (2211 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=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam); stis,fuvmama,e140m,c1425,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B1II-IIIe --> B0.5 I* *SED = AV85_STIS_E140M_c1425_sed.fits* *For exptime=11720.2 s, spectral region:* *1200.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 4091.1 cts/s/segment* *brightest pixel: 0.052 cts/s/pix at 1395.0 A* *Calculation performed 2020-02-24T17:50:29, v0.4*								
3	E140M/1425 WAVECAL	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A			Sequence 2-3 Non-Int in AV85-STIS (CS)	*[==>]*	***[1]***
4	E140M/1425 (1513188)	(3) AV85	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	WAVECAL=NO; BUFFER-TIME=400.0		Sequence 4-5 Non-Int in AV85-STIS (CS)	2567 Secs (2567 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=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam); stis,fuvmama,e140m,c1425,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B1II-IIIe --> B0.5 I* *SED = AV85_STIS_E140M_c1425_sed.fits* *For exptime=11720.2 s, spectral region:* *1200.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 4091.1 cts/s/segment* *brightest pixel: 0.052 cts/s/pix at 1395.0 A* *Calculation performed 2020-02-24T17:50:29, v0.4*								
5	E140M/1425 WAVECAL	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A			Sequence 4-5 Non-Int in AV85-STIS (CS)	*[==>]*	***[2]***
6	E140M/1425 (1513188)	(3) AV85	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	WAVECAL=NO; BUFFER-TIME=400.0		Sequence 6-7 Non-Int in AV85-STIS (CS)	2567 Secs (2567 Secs) *[==>]*	***[3]***
	Comments: rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam); stis,fuvmama,e140m,c1425,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B1II-IIIe --> B0.5 I* *SED = AV85_STIS_E140M_c1425_sed.fits* *For exptime=11720.2 s, spectral region:* *1200.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 4091.1 cts/s/segment* *brightest pixel: 0.052 cts/s/pix at 1395.0 A* *Calculation performed 2020-02-24T17:50:29, v0.4*								
7	E140M/1425 WAVECAL	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A			Sequence 6-7 Non-Int in AV85-STIS (CS)	*[==>]*	***[3]***

Orbit Structure






Orbit 3
Server Version: 20210514
Occultation
Unused Orbital Visibility = 0
GS Reacq
Exp. 6
Exp. 7
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 16368, AV85-STIS (3T), failed Mon Nov 01 15:02:08 GMT 2021

Diagnostic Status: No Diagnostics

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

Special Requirements: SCHED 100%; GROUP 3T,3S WITHIN 30D

Comments: vstatus; 3S; AV85; P/STIS approved for submission; P/DW 14/04/21 ; intrev: started ; P/AF 14/05/21
vcheck; Enter targ name & Inst. & Resp. Sci.; AV85 ; STIS ; DW
vcheck; ETC numbers entered in APT?; yes
vcheck; Any screening violations?; no
vcheck; S/N ETC calcs done & documented?; yes ...
E140M -- IUE spectrum, 12000 s - brightest 0.014 cts/s (1355.1A), entire 1359 cts/s, BT=1472, S/N~25 (1425A), S/N~17 (1200A)
vcheck; Field images checked & saved?; yes
vcheck; Selected ACQ strategy?; direct acq, F28x50LP, 1 s yields S/N~115 (1513187)
vcheck; Possible ACQ or Sci spoilers?; no ...
but have no high-resolution images -- target nearly fills clearance circle in DSS, some faint stars near edge of clearance circle
vcheck; Field BOT clear?; yes
vcheck; Visual BOT check for stars not in catalog?; n/a
vcheck; Orbit packing finalized?; yes
vcheck; Buffer times optimized?; yes
vcheck; Verify visit grouping correct; yes -- two visits within 30 d
vcheck; Is visit ready for int. review?; yes
Allocated STIS orbits = 5

Fixed Targets

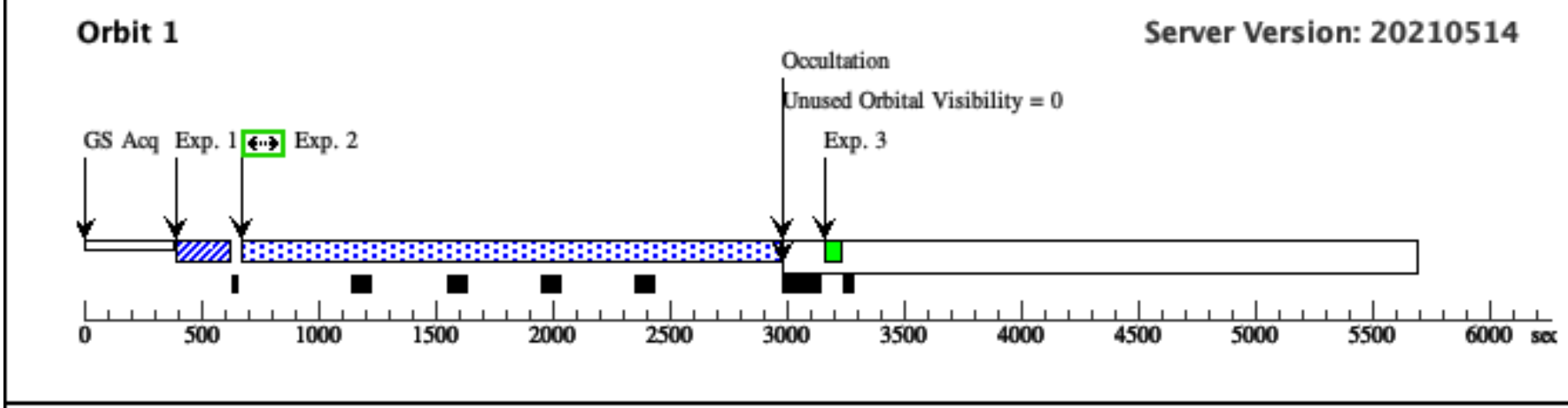
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	AV85	RA: 00 51 0.1198 (12.7504992d)	Proper Motion RA: 0.0 sec of time/yr	V=13.56	Reference Frame: ICRS
	Alt Name1: AZV-85	Dec: -72 53 4.11 (-72.88448d)	Proper Motion Dec: 0.0 arcsec/yr	SpT=B1II-IIIe; E(B-V)=0.23; B =13.6; V=13.6; F1160=2.69e-13	
	Alt Name2: LIN-166	Equinox: J2000			

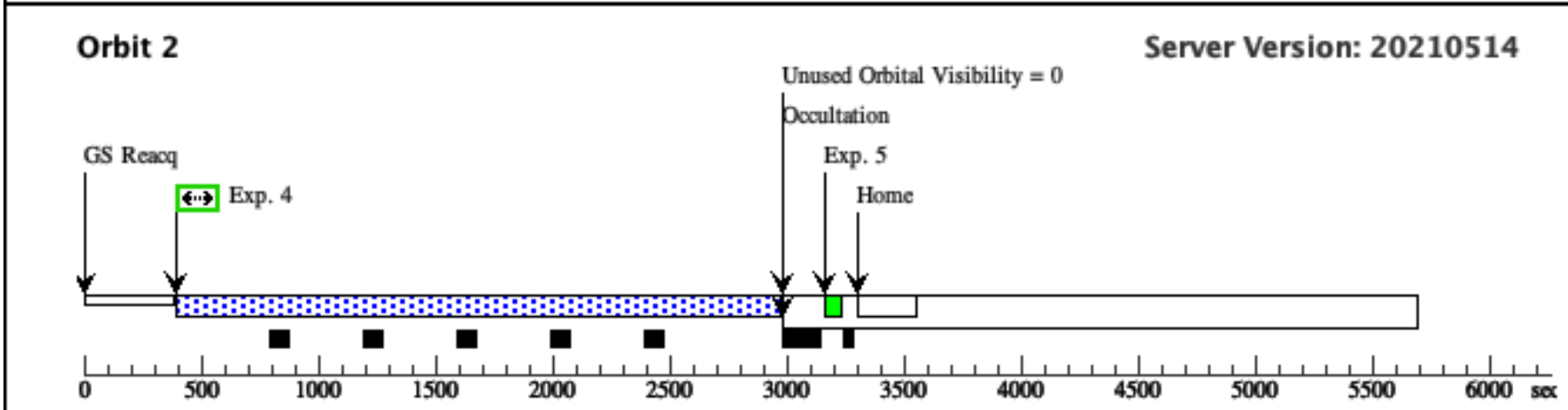
Comments: AV85 : OGLE005100.18-725303, OGLE_-9999, AzV 85
Previous name : OGLE005100.18-725303
Input file: SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv
SIMBAD link (AzV 85): https://simbad.u-strasbg.fr/simbad/sim-id?Ident=AzV+85&submit=submit+id
SpT = B1II-IIIe
COS/G130M/c1096 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
COS/G130M/c1291 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
COS/G160M/c1611 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
COS/G185M/c1921 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
COS/G185M/c1953 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
COS/G185M/c1986 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
STIS/E140M/c1425 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
STIS/E230M/c1978 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
STIS/E230M/c2707 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
Coordinate pedigree: 2MASS
Calculation performed 2020-02-24T17:50:15, v0.4
---
tstatus; AV85; P/STIS approved for submission; S/ins not started; P/DW 14/04/21; S/xx DD/MM/YY
tcheck; APT/SIMBAD target names: ; AV85 'AV 85' ...
aka Lin 166
tcheck; Target info verification status?; coords, type, photometry ok -- though photometry from AV75 is 0.1-0.2 mag fainter
tcheck; Coordinates & P.M. updated?; set pm to 0.0
tcheck; Adopted SED compared to Observations?; yes ...
original sed -- WM_basic, E(B-V)=0.23 (smcbar), norm at 1160 -- much too high -- problem with photometry? (EBV too high)
new sed -- CK B2 I, E(B-V)=0.05 (mwavg), norm at 1360 -- much better fit, though too high from 1150-1350
Category=EXT-STAR
Description=[B0-B2 III-I, BE]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (1513187)	(3) AV85	STIS/CCD, ACQ, F28X50LP	MIRROR				1.0 Secs (1 Secs) *[==>]*	***[1]***
2	E140M/1425 (1513188)	(3) AV85	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	WAVECAL=NO; BUFFER-TIME=400.0		Sequence 2-3 Non-Int in AV85-STIS (3T)	2211 Secs (2211 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=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam); stis,fuvmama,e140m,c1425,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B1II-IIIe --> B0.5 I* *SED = AV85_STIS_E140M_c1425_sed.fits* *For exptime=11720.2 s, spectral region:* *1200.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 4091.1 cts/s/segment* *brightest pixel: 0.052 cts/s/pix at 1395.0 A* *Calculation performed 2020-02-24T17:50:29, v0.4*								
3	E140M/1425 WAVECAL	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A			Sequence 2-3 Non-Int in AV85-STIS (3T)	*[==>]*	***[1]***
4	E140M/1425 (1513188)	(3) AV85	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	WAVECAL=NO; BUFFER-TIME=400.0		Sequence 4-5 Non-Int in AV85-STIS (3T)	2567 Secs (2567 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=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam); stis,fuvmama,e140m,c1425,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B1II-IIIe --> B0.5 I* *SED = AV85_STIS_E140M_c1425_sed.fits* *For exptime=11720.2 s, spectral region:* *1200.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 4091.1 cts/s/segment* *brightest pixel: 0.052 cts/s/pix at 1395.0 A* *Calculation performed 2020-02-24T17:50:29, v0.4*								
5	E140M/1425 WAVECAL	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A			Sequence 4-5 Non-Int in AV85-STIS (3T)	*[==>]*	***[2]***

Orbit Structure





Visit

Proposal 16368, AV85-STIS (CT) Mon Nov 01 15:02:08 GMT 2021

Diagnostic Status: No Diagnostics

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

Special Requirements: SCHED 100%

Comments: vstatus; 3S; AV85; P/STIS approved for submission; P/DW 14/04/21 ; intrev: started ; P/AF 14/05/21
vcheck; Enter targ name & Inst. & Resp. Sci.; AV85 ; STIS ; DW
vcheck; ETC numbers entered in APT?; yes
vcheck; Any screening violations?; no
vcheck; S/N ETC calcs done & documented?; yes ...
E140M -- IUE spectrum, 12000 s - brightest 0.014 cts/s (1355.1A), entire 1359 cts/s, BT=1472, S/N~25 (1425A), S/N~17 (1200A)
vcheck; Field images checked & saved?; yes
vcheck; Selected ACQ strategy?; direct acq, F28x50LP, 1 s yields S/N~115 (1513187)
vcheck; Possible ACQ or Sci spoilers?; no ...
but have no high-resolution images -- target nearly fills clearance circle in DSS, some faint stars near edge of clearance circle
vcheck; Field BOT clear?; yes
vcheck; Visual BOT check for stars not in catalog?; n/a
vcheck; Orbit packing finalized?; yes
vcheck; Buffer times optimized?; yes
vcheck; Verify visit grouping correct; yes -- two visits within 30 d
vcheck; Is visit ready for int. review?; yes
Allocated STIS orbits = 5

Fixed Targets

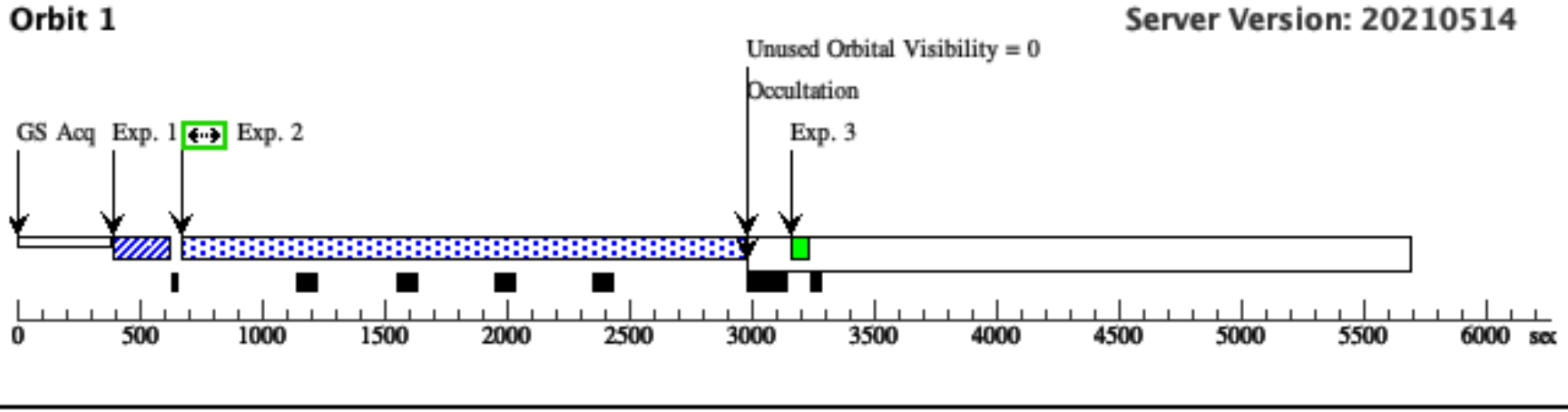
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	AV85	RA: 00 51 0.1198 (12.7504992d)	Proper Motion RA: 0.0 sec of time/yr	V=13.56	Reference Frame: ICRS
	Alt Name1: AZV-85	Dec: -72 53 4.11 (-72.88448d)	Proper Motion Dec: 0.0 arcsec/yr	SpT=B1II-IIIe; E(B-V)=0.23; B =13.6; V=13.6; F1160=2.69e-13	
	Alt Name2: LIN-166	Equinox: J2000			

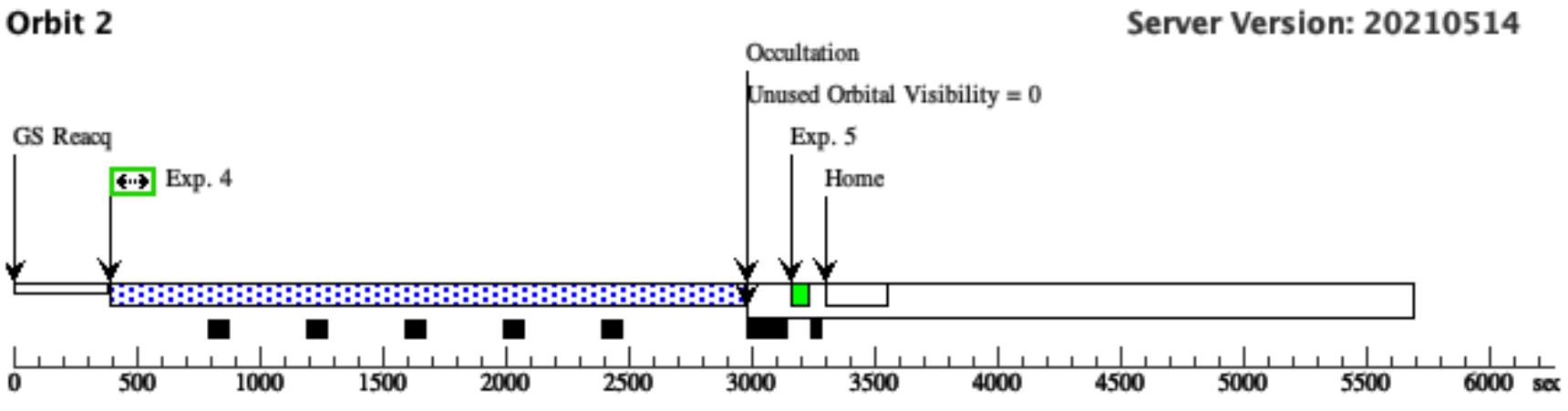
Comments: AV85 : OGLE005100.18-725303, OGLE_-9999, AzV 85
Previous name : OGLE005100.18-725303
Input file: SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv
SIMBAD link (AzV 85): https://simbad.u-strasbg.fr/simbad/sim-id?Ident=AzV+85&submit=submit+id
SpT = B1II-IIIe
COS/G130M/c1096 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
COS/G130M/c1291 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
COS/G160M/c1611 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
COS/G185M/c1921 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
COS/G185M/c1953 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
COS/G185M/c1986 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
STIS/E140M/c1425 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
STIS/E230M/c1978 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
STIS/E230M/c2707 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam)
Coordinate pedigree: 2MASS
Calculation performed 2020-02-24T17:50:15, v0.4
---
tstatus; AV85; P/STIS approved for submission; S/ins not started; P/DW 14/04/21; S/xx DD/MM/YY
tcheck; APT/SIMBAD target names: ; AV85 'AV 85' ...
aka Lin 166
tcheck; Target info verification status?; coords, type, photometry ok -- though photometry from AV75 is 0.1-0.2 mag fainter
tcheck; Coordinates & P.M. updated?; set pm to 0.0
tcheck; Adopted SED compared to Observations?; yes ...
original sed -- WM_basic, E(B-V)=0.23 (smcbar), norm at 1160 -- much too high -- problem with photometry? (EBV too high)
new sed -- CK B2 I, E(B-V)=0.05 (mwavg), norm at 1360 -- much better fit, though too high from 1150-1350
Category=EXT-STAR
Description=[B0-B2 III-I, BE]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (1513187)	(3) AV85	STIS/CCD, ACQ, F28X50LP	MIRROR				1.0 Secs (1 Secs) *[==>]*	***[1]***
2	E140M/1425 (1513188)	(3) AV85	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	WAVECAL=NO; BUFFER-TIME=400.0		Sequence 2-3 Non-Int in AV85-STIS (CT)	2211 Secs (2211 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=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam); stis,fuvmama,e140m,c1425,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B1II-IIIe --> B0.5 I* *SED = AV85_STIS_E140M_c1425_sed.fits* *For exptime=11720.2 s, spectral region:* *1200.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 4091.1 cts/s/segment* *brightest pixel: 0.052 cts/s/pix at 1395.0 A* *Calculation performed 2020-02-24T17:50:29, v0.4*								
3	E140M/1425 WAVECAL	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A			Sequence 2-3 Non-Int in AV85-STIS (CT)	*[==>]*	***[1]***
4	E140M/1425 (1513188)	(3) AV85	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	WAVECAL=NO; BUFFER-TIME=400.0		Sequence 4-5 Non-Int in AV85-STIS (CT)	2567 Secs (2567 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=0.230), flux1160 +- 30.0A flux=2.7e-13 Flam); stis,fuvmama,e140m,c1425,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B1II-IIIe --> B0.5 I* *SED = AV85_STIS_E140M_c1425_sed.fits* *For exptime=11720.2 s, spectral region:* *1200.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 4091.1 cts/s/segment* *brightest pixel: 0.052 cts/s/pix at 1395.0 A* *Calculation performed 2020-02-24T17:50:29, v0.4*								
5	E140M/1425 WAVECAL	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A			Sequence 4-5 Non-Int in AV85-STIS (CT)	*[==>]*	***[2]***

Orbit Structure





Visit

Proposal 16368, AV96-STIS (4S), scheduling Mon Nov 01 15:02:08 GMT 2021

Diagnostic Status: No Diagnostics

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

Special Requirements: SCHED 100%

Comments: vstatus; 4S; AV96; P/STIS approved for submission; P/DW 15/04/21 ; intrev: complete; P/AF 14/05/21
vcheck; Enter targ name & Inst. & Resp. Sci.; AV96 ; STIS ; DW
vcheck; ETC numbers entered in APT?; yes
vcheck; Any screening violations?; no
vcheck; S/N ETC calcs done & documented?; yes ...
used IUE spectrum, 0.2x0.2 aperture --
E140M, 8100s -- brightest 0.037 cts/s (1358.5A), entire 3105 cts/s, BT=644s, S/N~33 (1425A), S/N~21 (1200A) (1513300)
E230M, 3700s -- brightest 0.230 cts/s (2274.6A), entire 5674 cts/s, BT=353s, S/N~26 (1978A), S/N~21 (1800A) (1513301)
vcheck; Field images checked & saved?; yes
vcheck; Selected ACQ strategy?; direct acq, F28x50LP, 1 s yields S/N~200 (1513296)
vcheck; Possible ACQ or Sci spoilers?; no -- but no high-res images available
vcheck; Field BOT clear?; yes -- some faint stars outside the clearance region, but target appears single
vcheck; Visual BOT check for stars not in catalog?; n/a
vcheck; Orbit packing finalized?; yes -- do E230M in 1st orbit, E140M in subsequent orbits
vcheck; Buffer times optimized?; yes
vcheck; Verify visit grouping correct; yes -- both within 30d
vcheck; Is visit ready for int. review?; yes
Allocated STIS orbits = 5

Fixed Targets

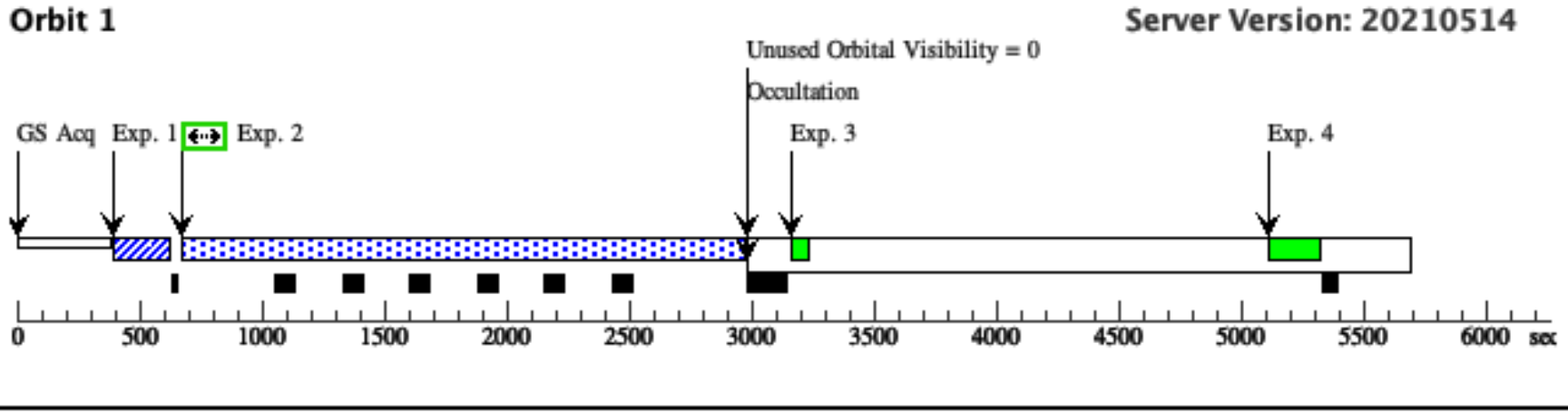
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	AV96	RA: 00 51 23.1496 (12.8464567d)	Proper Motion RA: 0.0 sec of time/yr	V=12.59	Reference Frame: ICRS
	Alt Name1: SK-46	Dec: -72 07 20.94 (-72.12248d)	Proper Motion Dec: 0.0 arcsec/yr	SpT=B1 I; E(B-V)=0.09; U=11.5; B=12.5; V=12.6; F1160=5.17e-13; F1360=6.11e-13; F1700=3.74e-13; F2200=2.79e-13	
	Alt Name2: M2002-19728	Equinox: J2000			

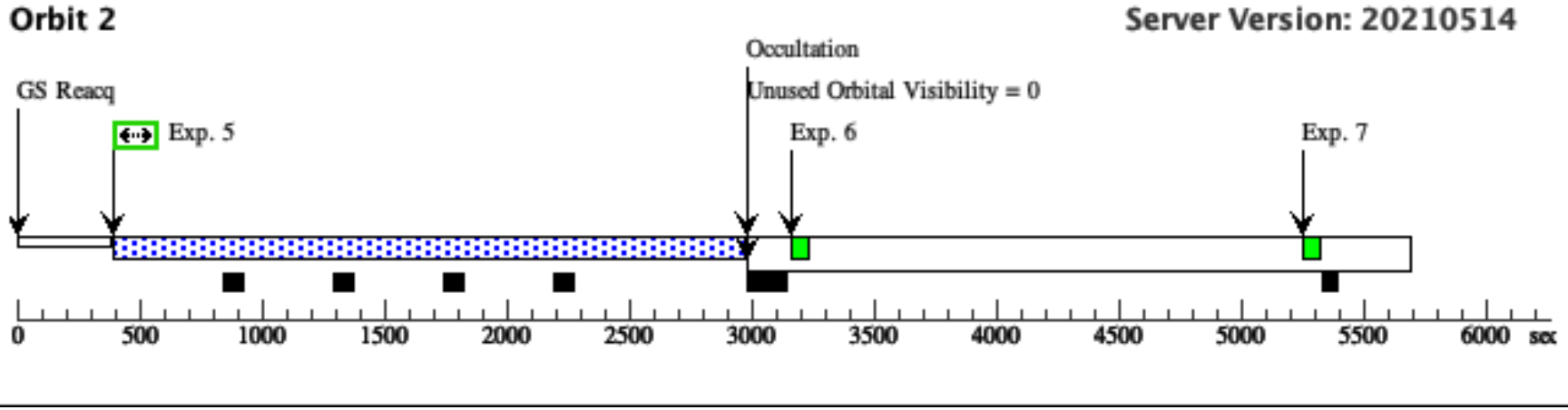
Comments: AV96 : [M2002]_19728, AV 96, AzV 96
Previous name : AV 96
Input file: SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv
SIMBAD link (AzV 96): https://simbad.u-strasbg.fr/simbad/sim-id?Ident=AzV+96&submit=submit+id
SpT = B1 I
COS/G130M/c1096 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.090), flux1160 +- 30.0A flux=5.2e-13 Flam)
COS/G130M/c1291 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.090), flux1360 +- 30.0A flux=6.1e-13 Flam)
COS/G160M/c1611 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.090), flux1700 +- 5.0A flux=3.7e-13 Flam)
COS/G185M/c1921 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.090), flux1700 +- 5.0A flux=3.7e-13 Flam)
COS/G185M/c1953 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.090), flux1700 +- 5.0A flux=3.7e-13 Flam)
COS/G185M/c1986 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.090), flux2200 +- 5.0A flux=2.8e-13 Flam)
STIS/E140M/c1425 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.090), flux1360 +- 30.0A flux=6.1e-13 Flam)
STIS/E230M/c1978 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.090), flux2200 +- 5.0A flux=2.8e-13 Flam)
STIS/E230M/c2707 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.090), flux2200 +- 5.0A flux=2.8e-13 Flam)
Coordinate pedigree: Gaia
v sin i = 70
Calculation performed 2020-02-24T17:51:59, v0.4
---
tstatus; AV96; P/STIS approved for submission; S/ins not started; P/DW 15/04/21; S/xx DD/MM/YY
tcheck; APT/SIMBAD target names: ; AV96 'AV 96' ...
aka Sk 46, 2dFS 801, [M2002] SMC 19728
tcheck; Target info verification status?; coords, type, photometry ok
tcheck; Coordinates & P.M. updated?; pm set to 0.0
tcheck; Adopted SED compared to Observations?; yes ...
original SED is slightly high over much of the range -- new SED uses slightly smaller E(B-V), normalizes to 1360A -- slightly overestimates flux from 1600-1850A
Category=EXT-STAR
Description=[B0-B2 III-I]
Extended=NO

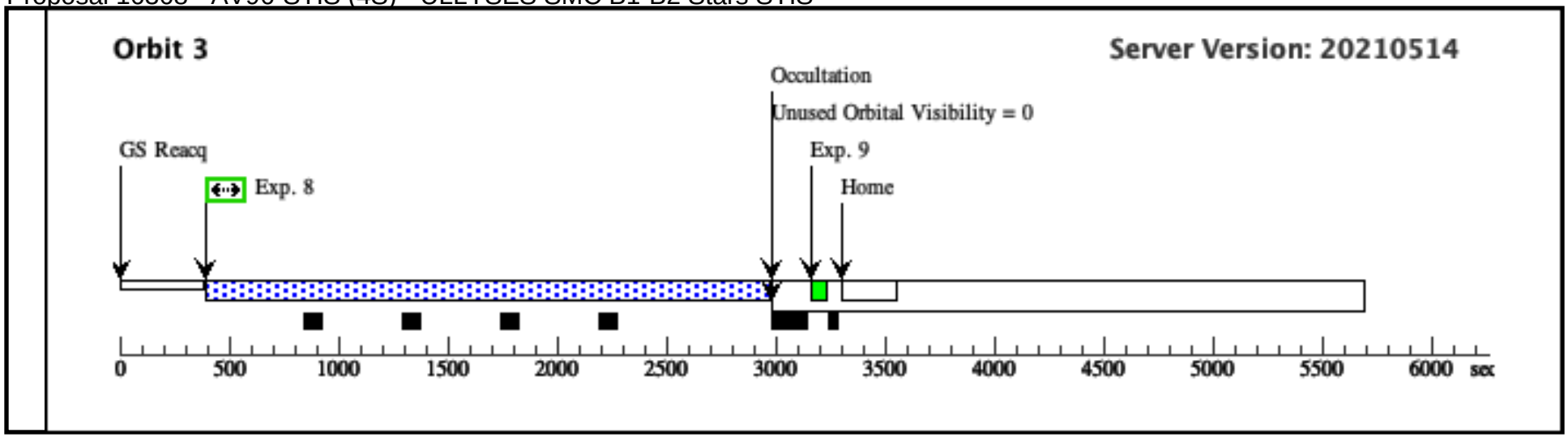
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (1513296)	(4) AV96	STIS/CCD, ACQ, F28X50LP	MIRROR				1.0 Secs (1 Secs) *[==>]*	***[1]***
2	E230M/1978 (1513301)	(4) AV96	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 1978 A	WAVECAL=NO; BUFFER-TIME=275		Sequence 2-3 Non-Int in AV96-STIS (4S)	2181 Secs (2181 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=0.090), flux2200 +- 5.0A flux=2.8e-13 Flam); stis,nuvmama,e230m,c1978,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B1 I --> B0.5 I* *SED = AV96_STIS_E230M_c1978_sed.fits* *For exptime=3715.1 s, spectral region:* *1800.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 5604.8 cts/s/segment* *brightest pixel: 0.099 cts/s/pix at 2293.0 A* *Calculation performed 2020-02-24T17:52:12, v0.4*								
3	E230M/1978 WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 1978 A			Sequence 2-3 Non-Int in AV96-STIS (4S)	*[==>]*	***[1]***
4	E140M/1425 WAVECAL	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A			Sequence 4-6 Non-Int in AV96-STIS (4S)	*[==>]*	***[1]***
5	E140M/1425 (1513300)	(4) AV96	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	WAVECAL=NO; BUFFER-TIME=450		Sequence 4-6 Non-Int in AV96-STIS (4S)	2567 Secs (2567 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=0.090), flux1360 +- 30.0A flux=6.1e-13 Flam); stis,fuvmama,e140m,c1425,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B1 I --> B0.5 I* *SED = AV96_STIS_E140M_c1425_sed.fits* *For exptime=8095.6 s, spectral region:* *1200.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 3503.3 cts/s/segment* *brightest pixel: 0.044 cts/s/pix at 1395.0 A* *Calculation performed 2020-02-24T17:52:12, v0.4*								
6	E140M/1425 WAVECAL	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A			Sequence 4-6 Non-Int in AV96-STIS (4S)	*[==>]*	***[2]***
7	E140M/1425 WAVECAL	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A			Sequence 7-9 Non-Int in AV96-STIS (4S)	*[==>]*	***[2]***
8	E140M/1425 (1513300)	(4) AV96	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	WAVECAL=NO; BUFFER-TIME=450		Sequence 7-9 Non-Int in AV96-STIS (4S)	2567 Secs (2567 Secs) *[==>]*	***[3]***
	Comments: rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.090), flux1360 +- 30.0A flux=6.1e-13 Flam); stis,fuvmama,e140m,c1425,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B1 I --> B0.5 I* *SED = AV96_STIS_E140M_c1425_sed.fits* *For exptime=8095.6 s, spectral region:* *1200.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 3503.3 cts/s/segment* *brightest pixel: 0.044 cts/s/pix at 1395.0 A* *Calculation performed 2020-02-24T17:52:12, v0.4*								
9	E140M/1425 WAVECAL	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A			Sequence 7-9 Non-Int in AV96-STIS (4S)	*[==>]*	***[3]***

Orbit Structure



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Occultation
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GS Reacq
Exp. 8
Exp. 9
Home
0
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1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 16368, AV96-STIS (4T), scheduling Mon Nov 01 15:02:08 GMT 2021

Diagnostic Status: No Diagnostics

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

Special Requirements: SCHED 100%

Comments: vstatus; 4S; AV96; P/STIS approved for submission; P/DW 15/04/21 ; intrev: complete; P/AF 14/05/21
vcheck; Enter targ name & Inst. & Resp. Sci.; AV96 ; STIS ; DW
vcheck; ETC numbers entered in APT?; yes
vcheck; Any screening violations?; no
vcheck; S/N ETC calcs done & documented?; yes ...
used IUE spectrum, 0.2x0.2 aperture --
E140M, 8100s -- brightest 0.037 cts/s (1358.5A), entire 3105 cts/s, BT=644s, S/N~33 (1425A), S/N~21 (1200A) (1513300)
E230M, 3700s -- brightest 0.230 cts/s (2274.6A), entire 5674 cts/s, BT=353s, S/N~26 (1978A), S/N~21 (1800A) (1513301)
vcheck; Field images checked & saved?; yes
vcheck; Selected ACQ strategy?; direct acq, F28x50LP, 1 s yields S/N~200 (1513296)
vcheck; Possible ACQ or Sci spoilers?; no -- but no high-res images available
vcheck; Field BOT clear?; yes -- some faint stars outside the clearance region, but target appears single
vcheck; Visual BOT check for stars not in catalog?; n/a
vcheck; Orbit packing finalized?; yes -- do E230M in 1st orbit, E140M in subsequent orbits
vcheck; Buffer times optimized?; yes
vcheck; Verify visit grouping correct; yes -- both within 30d
vcheck; Is visit ready for int. review?; yes
Allocated STIS orbits = 5

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	AV96	RA: 00 51 23.1496 (12.8464567d)	Proper Motion RA: 0.0 sec of time/yr	V=12.59	Reference Frame: ICRS
	Alt Name1: SK-46	Dec: -72 07 20.94 (-72.12248d)	Proper Motion Dec: 0.0 arcsec/yr	SpT=B1 I; E(B-V)=0.09; U=11.5; B=12.5; V=12.6; F1160=5.17e-13; F1360=6.11e-13; F1700=3.74e-13; F2200=2.79e-13	
	Alt Name2: M2002-19728	Equinox: J2000			

Comments: AV96 : [M2002]_19728, AV 96, AzV 96
Previous name : AV 96
Input file: SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv
SIMBAD link (AzV 96): https://simbad.u-strasbg.fr/simbad/sim-id?Ident=AzV+96&submit=submit+id
SpT = B1 I
COS/G130M/c1096 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.090), flux1160 +- 30.0A flux=5.2e-13 Flam)
COS/G130M/c1291 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.090), flux1360 +- 30.0A flux=6.1e-13 Flam)
COS/G160M/c1611 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.090), flux1700 +- 5.0A flux=3.7e-13 Flam)
COS/G185M/c1921 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.090), flux1700 +- 5.0A flux=3.7e-13 Flam)
COS/G185M/c1953 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.090), flux1700 +- 5.0A flux=3.7e-13 Flam)
COS/G185M/c1986 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.090), flux2200 +- 5.0A flux=2.8e-13 Flam)
STIS/E140M/c1425 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.090), flux1360 +- 30.0A flux=6.1e-13 Flam)
STIS/E230M/c1978 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.090), flux2200 +- 5.0A flux=2.8e-13 Flam)
STIS/E230M/c2707 : rn-max(WM-Basic(B0.5 I, Z=0.004, Teff=24547, log_lum=5.40, log_g=2.95) (extinction smcbar=0.090), flux2200 +- 5.0A flux=2.8e-13 Flam)
Coordinate pedigree: Gaia
v sin i = 70
Calculation performed 2020-02-24T17:51:59, v0.4
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tstatus; AV96; P/STIS approved for submission; S/ins not started; P/DW 15/04/21; S/xx DD/MM/YY
tcheck; APT/SIMBAD target names: ; AV96 'AV 96' ...
aka Sk 46, 2dFS 801, [M2002] SMC 19728
tcheck; Target info verification status?; coords, type, photometry ok
tcheck; Coordinates & P.M. updated?; pm set to 0.0
tcheck; Adopted SED compared to Observations?; yes ...
original SED is slightly high over much of the range -- new SED uses slightly smaller E(B-V), normalizes to 1360A -- slightly overestimates flux from 1600-1850A
Category=EXT-STAR
Description=[B0-B2 III-I]
Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ (1513296)	(4) AV96	STIS/CCD, ACQ, F28X50LP	MIRROR				1.0 Secs (1 Secs) *[==>]*	***[1]***
2	E230M/1978 (1513301)	(4) AV96	STIS/NUV-MAMA, TIME-TAG, 0.2X0.2	E230M 1978 A	WAVECAL=NO; BUFFER-TIME=275		Sequence 2-3 Non-Int in AV96-STIS (4T)	2181 Secs (2181 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=0.090), flux2200 +- 5.0A flux=2.8e-13 Flam); stis,nuvmama,e230m,c1978,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B1 I --> B0.5 I* *SED = AV96_STIS_E230M_c1978_sed.fits* *For exptime=3715.1 s, spectral region:* *1800.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 5604.8 cts/s/segment* *brightest pixel: 0.099 cts/s/pix at 2293.0 A* *Calculation performed 2020-02-24T17:52:12, v0.4*								
3	E230M/1978 WAVECAL	WAVE	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230M 1978 A			Sequence 2-3 Non-Int in AV96-STIS (4T)	*[==>]*	***[1]***
4	E140M/1425 WAVECAL	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A			Sequence 4-6 Non-Int in AV96-STIS (4T)	*[==>]*	***[1]***
5	E140M/1425 (1513300)	(4) AV96	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	WAVECAL=NO; BUFFER-TIME=450		Sequence 4-6 Non-Int in AV96-STIS (4T)	2567 Secs (2567 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=0.090), flux1360 +- 30.0A flux=6.1e-13 Flam); stis,fuvmama,e140m,c1425,0.2x0.2,mjd#59305 *From file SMC_2020Feb20/input/SMC_all_do1_NewCoords_pids.csv* *Spectral type: B1 I --> B0.5 I* *SED = AV96_STIS_E140M_c1425_sed.fits* *For exptime=8095.6 s, spectral region:* *1200.0 +- 0.5 A achieves SNR=20.0/resel* *global countrate (brightest segment): 3503.3 cts/s/segment* *brightest pixel: 0.044 cts/s/pix at 1395.0 A* *Calculation performed 2020-02-24T17:52:12, v0.4*								
6	E140M/1425 WAVECAL	WAVE	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A			Sequence 4-6 Non-Int in AV96-STIS (4T)	*[==>]*	***[2]***

Orbit Structure