



17085 - Very Massive Stars in M33

Cycle: 30, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) DMS-NGC-595-5	STIS/CCD STIS/FUV-MAMA	2	27-Apr-2023 09:00:14.0	yes
02	(1) DMS-NGC-595-5 (2) DMS-NGC-595-4	STIS/CCD STIS/FUV-MAMA	2	27-Apr-2023 09:00:14.0	yes
03	(3) DMS-NGC-595-1 (5) DMS93-NGC-595-58	STIS/CCD STIS/FUV-MAMA	2	27-Apr-2023 09:00:15.0	yes
04	(5) DMS93-NGC-595-58	STIS/CCD STIS/FUV-MAMA	1	27-Apr-2023 09:00:16.0	yes
05	(2) DMS-NGC-595-4 (6) DMS93-NGC-595-62	STIS/CCD STIS/FUV-MAMA	1	27-Apr-2023 09:00:16.0	yes
06	(2) DMS-NGC-595-4 (4) DMS-NGC-595-2B	STIS/CCD STIS/FUV-MAMA	2	27-Apr-2023 09:00:17.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
07	(7) DMS93-245 (11) ACQNGC604-MBH96-361	STIS/CCD STIS/FUV-MAMA	1	27-Apr-2023 09:00:17.0	yes
08	(8) DMS-WR6 (11) ACQNGC604-MBH96-361	STIS/CCD STIS/FUV-MAMA	1	27-Apr-2023 09:00:18.0	yes
09	(9) DMS93-143 (11) ACQNGC604-MBH96-361	STIS/CCD STIS/FUV-MAMA	1	27-Apr-2023 09:00:18.0	yes

13 Total Orbits Used

ABSTRACT

Very massive stars (VMS) are stars with masses in excess of 100 Msun. They are formed in clusters massive enough to populate the initial mass function up to high masses. They are very luminous objects spectroscopically similar to, but much less evolved than, Wolf-Rayet stars. They dominate the integrated ultraviolet spectrum of young clusters. Incorporating them in population synthesis is crucial to interpret spectroscopy of unresolved star forming regions and galaxies such as observed by the CLASSY survey. However very few VMS are directly observable in the Local Universe, especially in the UV: there are about ten such objects located either in 30 Dor in the LMC or in the Galactic cluster NGC 3603. We propose to nearly double the number of VMS UV spectra by targeting the only other place in the Local Universe where VMS can be studied individually in the UV: the two giant HII regions NGC595 and NGC604 in the Triangulum galaxy M33. Our goal is to obtain STIS/G140L spectra of nine (candidate) VMS previously identified in M33. We will determine the stellar and wind properties of VMS at sub-LMC metallicity using atmosphere models. We will determine how their mass loss rate depend on luminosity and Eddington parameter and implement these mass loss rates into new evolutionary models of VMS. Finally, we will develop population synthesis models using new empirical and synthetic spectra of VMS.

OBSERVING DESCRIPTION

We plan to obtain long slit STIS spectroscopy of nine candidate very massive stars in the galaxy M33. The stars are located in two giant HII regions: NGC595 and NGC 604. They have V magnitudes between 18.5 and 16.4.

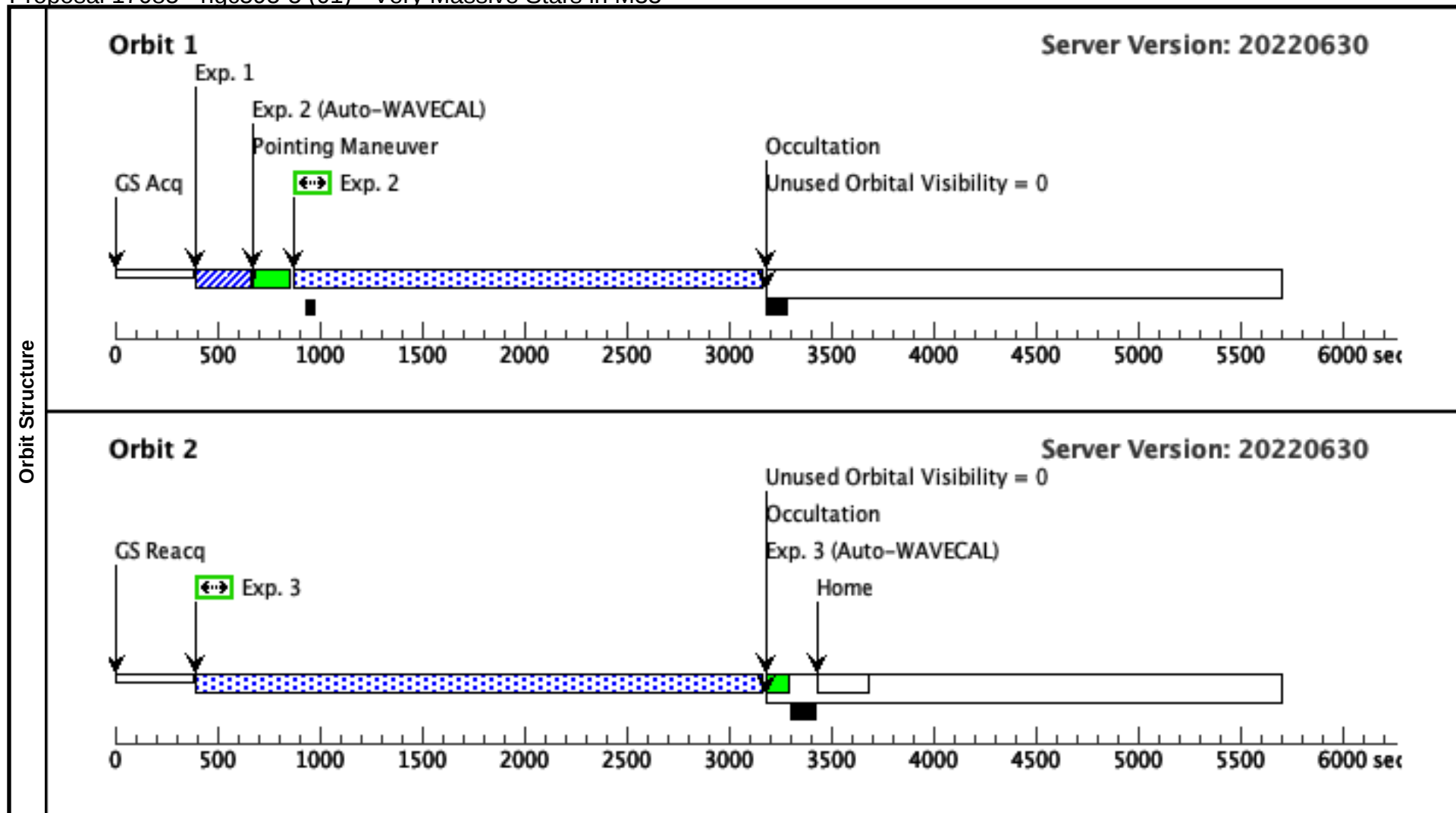
We plan to use the G140L filter combined with the MAMA detector to obtain UV spectra of these nine objects. The slit width is 2" (52"x2" in total). Each target can be observed independently, at any time (there is no time constraint).

Observations need two orbits (grouped in one visit) for the faintest targets, and a single orbit for the brightest ones.

Target acquisition is made either on the science target itself, or on a nearby (distance <2") bright object.

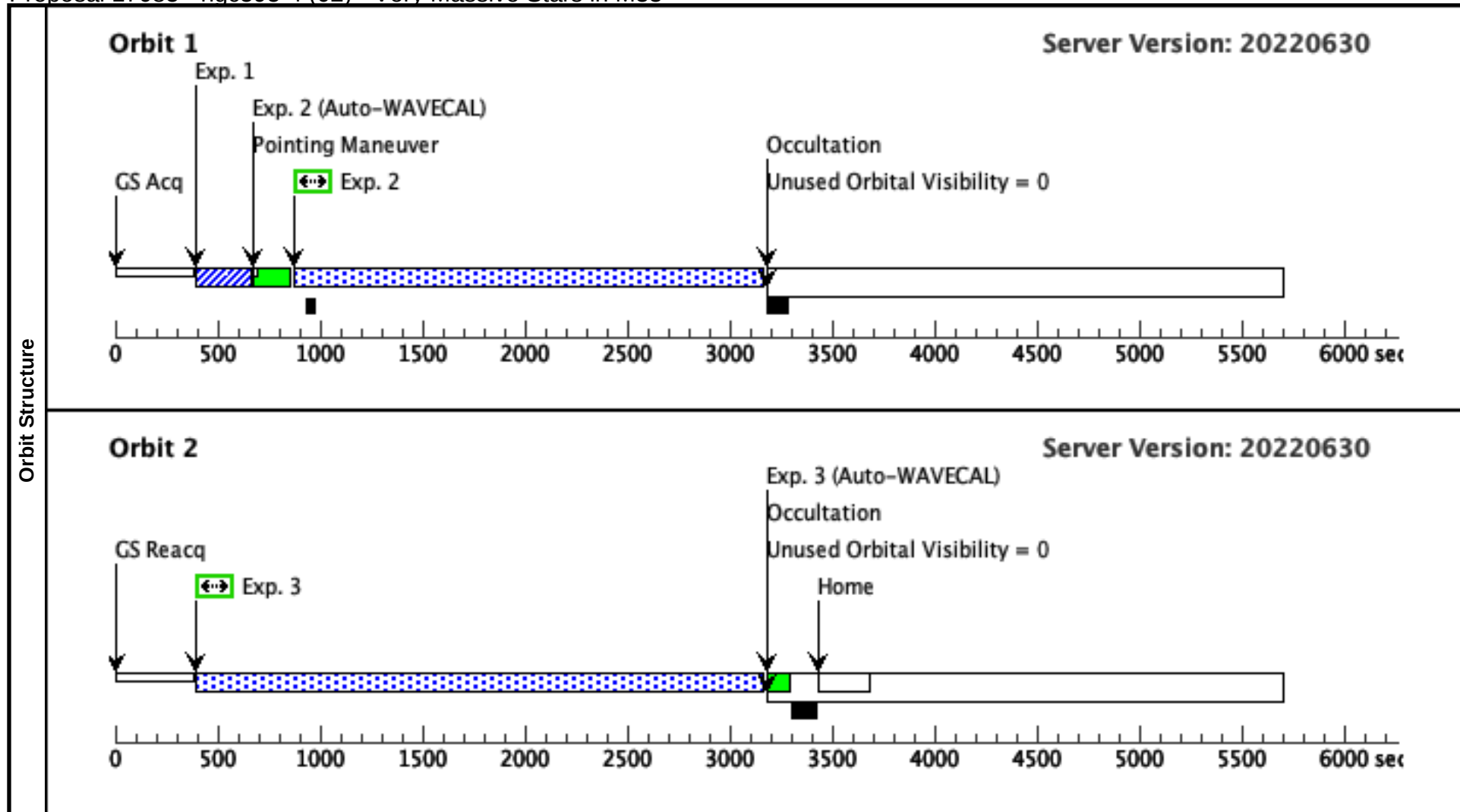
Proposal 17085 - ngc595-5 (01) - Very Massive Stars in M33

Visit	Proposal 17085, ngc595-5 (01), implementation										Thu Apr 27 13:00:19 GMT 2023
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA										
	Special Requirements: (none)										
	Comments: STIS G140L observation of star NGC595 5										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous		
	(1)	DMS-NGC-595-5	RA: 01 33 32.7850 (23.3866042d)	Proper Motion RA: 0.257 mas/yr			V=18.199+/-0.004		Reference Frame: ICRS		
		Alt Name1: LGGS-J013332.82+304146.0	Dec: +30 41 45.98 (30.69611d)	Proper Motion Dec: -0.175 mas/yr			U=17.04,				
			Equinox: J2000	Epoch of Position: 2000			B=17.99				
	Comments: Information retrieved from the SIMBAD database. RA/DEC from Gaia edr3 Category=EXT-STAR Description=[WOLF RAYET, WOLF RAYET - WN] 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 (STIS.ta.181 0959)	(1) DMS-NGC-595-5	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			10 Secs (10 Secs)		
									[==>]		[1]
	2	NGC595-5-science-a (STIS.sp.18 10970)	(1) DMS-NGC-595-5	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A				2240 Secs (2240 Secs)		
									[==>]		[1]
	3	NGC595-5-science-b (STIS.sp.18 10969)	(1) DMS-NGC-595-5	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A				2760 Secs (2760 Secs)		
									[==>]		[2]



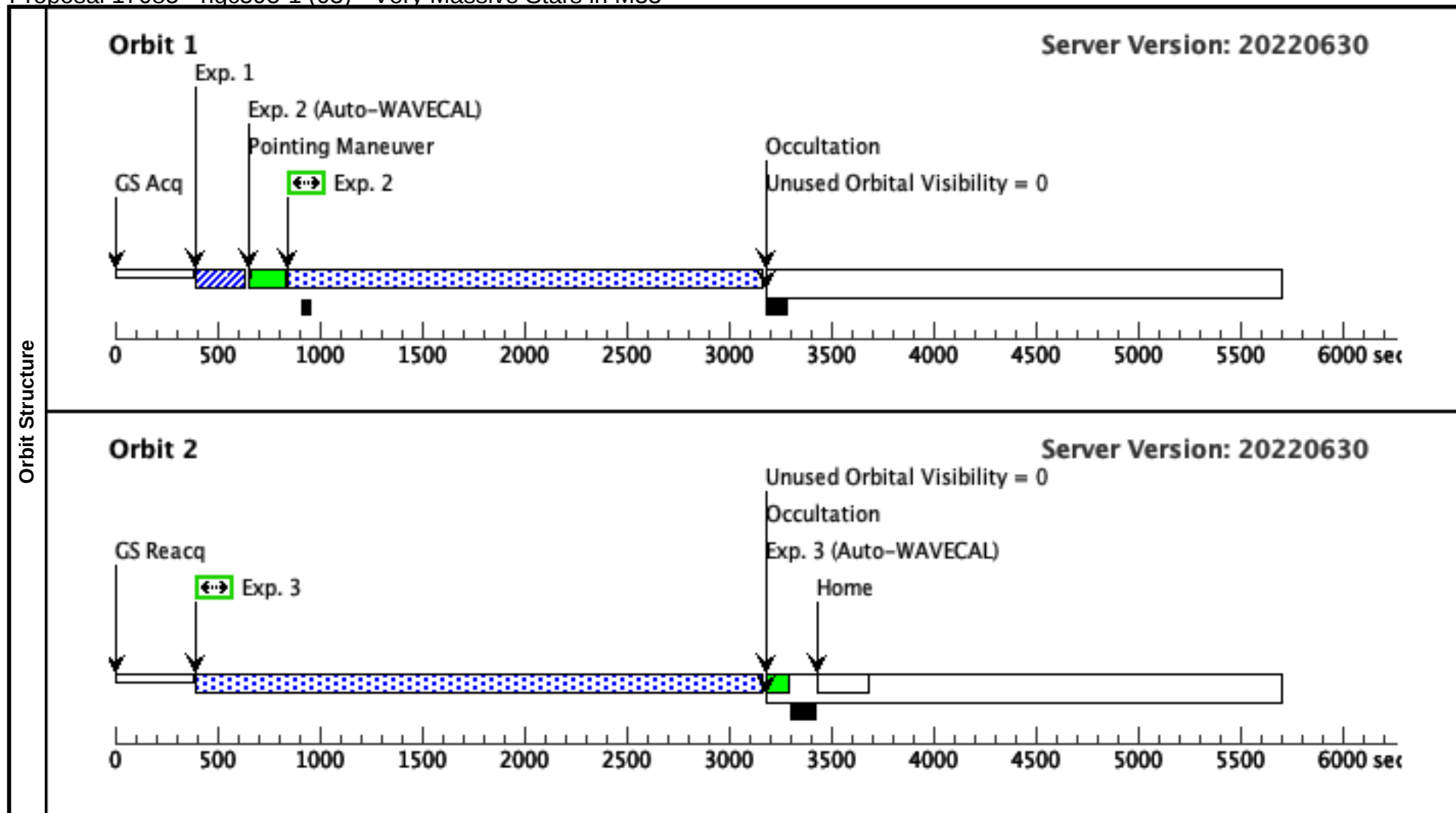
Proposal 17085 - ngc595-4 (02) - Very Massive Stars in M33

Visit	Proposal 17085, ngc595-4 (02), implementation										Thu Apr 27 13:00:19 GMT 2023	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA											
	Special Requirements: (none)											
	Comments: STIS G140L observation of star NGC595 4											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(1)	DMS-NGC-595-5	RA: 01 33 32.7850 (23.3866042d)			Proper Motion RA: 0.257 mas/yr		V=18.199+/-0.004		Reference Frame: ICRS		
		Alt Name1: LGGS-J013332.82+304146.0	Dec: +30 41 45.98 (30.69611d)			Proper Motion Dec: -0.175 mas/yr		U=17.04,				
			Equinox: J2000			Epoch of Position: 2000		B=17.99				
	Comments: Information retrieved from the SIMBAD database. RA/DEC from Gaia edr3 Category=EXT-STAR Description=[WOLF RAYET, WOLF RAYET - WN] Extended=NO											
Fixed Targets	(2)	DMS-NGC-595-4	RA: 01 33 32.9300 (23.3872083d)			Proper Motion RA: -0.075 mas/yr		V=18.145+/-0.004		Reference Frame: ICRS		
		Alt Name1: AM85-M33-4	Dec: +30 41 35.99 (30.69333d)			Proper Motion Dec: -0.043 mas/yr		U=16.964,				
			Equinox: J2000			Parallax: 0.1284"		B=17.936				
		Alt Name2: LGGS-J013332.97+304136.1				Epoch of Position: 2000						
	Comments: Information retrieved from the SIMBAD database. RA/DEC from Gaia edr3 Category=EXT-STAR Description=[WOLF RAYET, WOLF RAYET - WN] 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 (STIS.ta.181 0959)	(2) DMS-NGC-595-4	STIS/CCD, ACQ, F28X50LP		MIRROR	ACQTYPE=POINT			10 Secs (10 Secs)		
										[==>]		[1]
	2	NGC595-4-science-a (STIS.sp.18 10970)	(1) DMS-NGC-595-5	STIS/FUV-MAMA, ACCUM, 52X2		G140L 1425 A				2240 Secs (2240 Secs)		
										[==>]		[1]
Exposures	3	NGC595-4-science-b (STIS.sp.18 10969)	(1) DMS-NGC-595-5	STIS/FUV-MAMA, ACCUM, 52X2		G140L 1425 A				2760 Secs (2760 Secs)		
										[==>]		[2]



Proposal 17085 - ngc595-1 (03) - Very Massive Stars in M33

Visit	Proposal 17085, ngc595-1 (03), implementation										Thu Apr 27 13:00:19 GMT 2023	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA											
	Special Requirements: (none)											
	Comments: STIS G140L observation of star NGC595 1 Target acquisition on star 58, then offset to star 1											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(3)	DMS-NGC-595-1	RA: 01 33 34.2100 (23.3925417d) Dec: +30 41 37.80 (30.69383d) Equinox: J2000			Epoch of Position: 2000		V=18.43 U=17.51		Reference Frame: ICRS		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=EXT-STAR Description=[WOLF RAYET] Extended=NO											
	(5)	DMS93-NGC-595-58	RA: 01 33 34.2290 (23.3926208d) Dec: +30 41 36.63 (30.69351d) Equinox: J2000			Proper Motion RA: 0.094 mas/yr Proper Motion Dec: 0.005 mas/yr Parallax: 0.0088" Epoch of Position: 2000		V=17.07 U=16.57, B=17.20		Reference Frame: ICRS		
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=EXT-STAR Description=[WOLF RAYET, WOLF RAYET - WN] 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 (STIS.ta.181 0972)	(5) DMS93-NGC-59 5-58	STIS/CCD, ACQ, F28X50LP		MIRROR	ACQTYPE=POINT			4 Secs (4 Secs)		
										[==>]		[1]
	2	NGC595-1-s cience-a (STIS.sp.18 10970)	(3) DMS-NGC-595- 1	STIS/FUV-MAMA, ACCUM, 52X2		G140L 1425 A				2240 Secs (2264 Secs)		
										[==>2264.0 Secs]		[1]
	3	NGC595-1-s cience-b (STIS.sp.18 10969)	(3) DMS-NGC-595- 1	STIS/FUV-MAMA, ACCUM, 52X2		G140L 1425 A				2760 Secs (2760 Secs)		
										[==>]		[2]



Proposal 17085 - ngc595-58 (04) - Very Massive Stars in M33

Thu Apr 27 13:00:19 GMT 2023

Visit	Proposal 17085, ngc595-58 (04), implementation										Thu Apr 27 13:00:19 GMT 2023
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA										
	Special Requirements: (none)										
Comments: STIS G140L observation of star NGC595 58											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(5)	DMS93-NGC-595-58	RA: 01 33 34.2290 (23.3926208d)	Proper Motion RA: 0.094 mas/yr		V=17.07		Reference Frame: ICRS			
			Dec: +30 41 36.63 (30.69351d)	Proper Motion Dec: 0.005 mas/yr		U=16.57,					
			Equinox: J2000	Parallax: 0.0088"		B=17.20					
Epoch of Position: 2000											
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
Category=EXT-STAR											
Description=[WOLF RAYET, WOLF RAYET - WN]											
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 (STIS.ta.181 0972)	(5) DMS93-NGC-59 5-58	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			4 Secs (4 Secs)		
									[>=>]		[1]
	2	NGC595-58 -science (STIS.sp.18 10970)	(5) DMS93-NGC-59 5-58	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A				2240 Secs (2264 Secs)		
									[>=>2264.0 Secs]		[1]
Orbit Structure	Orbit 1 Server Version: 20220630 GS Acq Exp. 1 Pointing Maneuver Exp. 2 (Auto-WAVECAL) Exp. 2 Unused Orbital Visibility = 0 Occultation Home 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec										

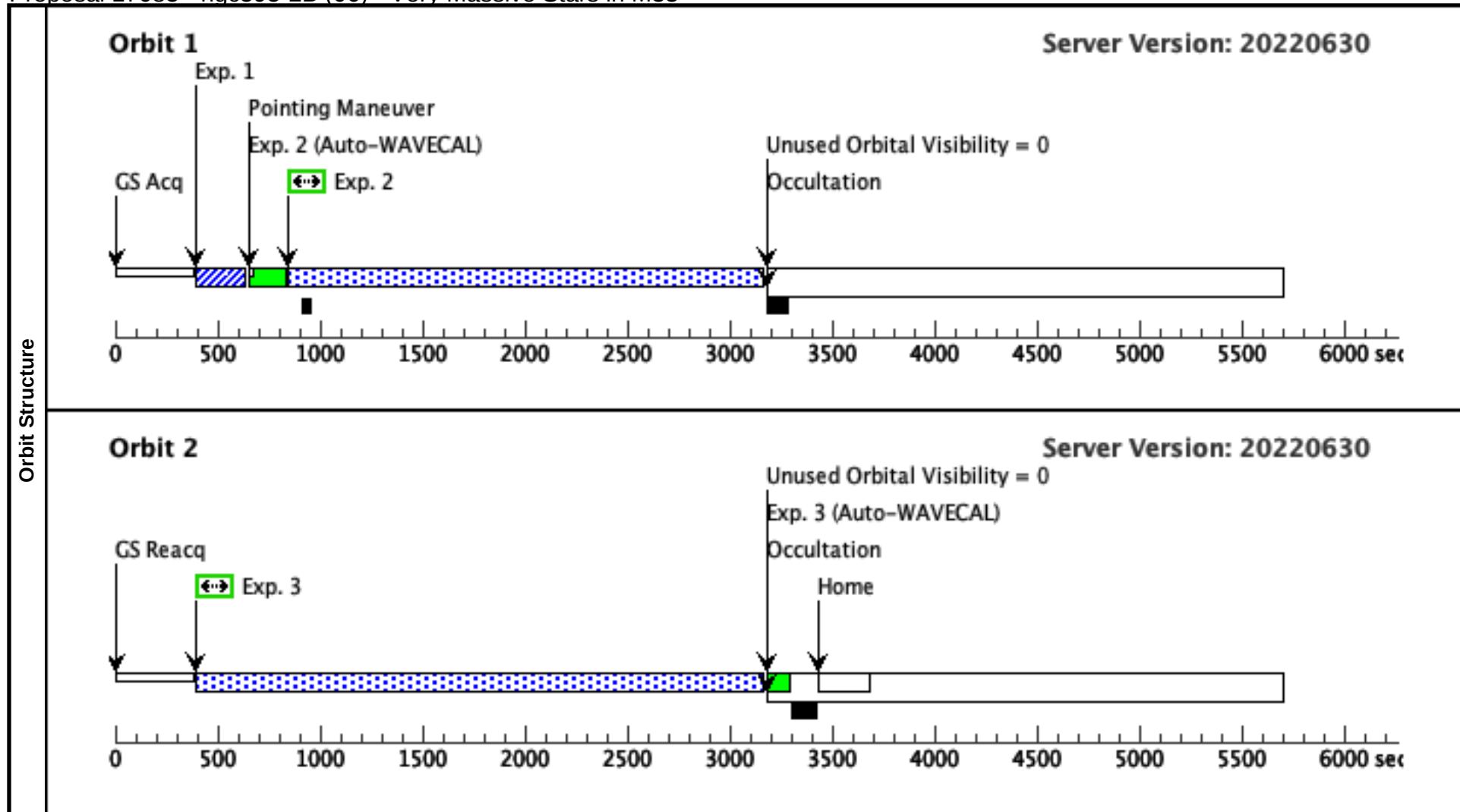
Proposal 17085 - ngc595-62 (05) - Very Massive Stars in M33

Thu Apr 27 13:00:19 GMT 2023

Visit	Proposal 17085, ngc595-62 (05), implementation									
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA									
	Special Requirements: (none)									
Comments: STIS G140L observation of star NGC595 62 Acquisition on NGC595 4, then offset to target										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(2)	DMS-NGC-595-4	RA: 01 33 32.9300 (23.3872083d)	Proper Motion RA: -0.075 mas/yr		V=18.145+/-0.004		Reference Frame: ICRS		
		Alt Name1: AM85-M33-4	Dec: +30 41 35.99 (30.69333d)	Proper Motion Dec: -0.043 mas/yr		U=16.964,				
		Alt Name2: LGG5-J013332.97+304136.1	Equinox: J2000	Parallax: 0.1284"		B=17.936				
Comments: Information retrieved from the SIMBAD database. RA/DEC from Gaia edr3 Category=EXT-STAR Description=[WOLF RAYET, WOLF RAYET - WN] Extended=NO										
Fixed Targets	(6)	DMS93-NGC-595-62	RA: 01 33 33.4700 (23.3894583d)	Epoch of Position: 2000		V=17.21		Reference Frame: ICRS		
			Dec: +30 41 33.20 (30.69256d)			U=16.70,				
			Equinox: J2000			B=17.38				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=EXT-STAR Description=[WOLF RAYET] 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 (STIS.ta.181 0976)	(2) DMS-NGC-595-4	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			4 Secs (4 Secs)	
									[==>]	[1]
	2	NGC595-62 -science (STIS.sp.18 10970)	(6) DMS93-NGC-595-62	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A				2240 Secs (2264 Secs)	
									[==>2264.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20220630									

Proposal 17085 - ngc595-2B (06) - Very Massive Stars in M33

Visit	Proposal 17085, ngc595-2B (06), implementation					Thu Apr 27 13:00:19 GMT 2023				
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA									
	Special Requirements: (none)									
	Comments: STIS G140L observation of star NGC595 2B Target acquisition on star NGC595 4, then offset to star 2B									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	DMS-NGC-595-4	RA: 01 33 32.9300 (23.3872083d)	Proper Motion RA: -0.075 mas/yr	V=18.145+/-0.004	Reference Frame: ICRS				
		Alt Name1: AM85-M33-4	Dec: +30 41 35.99 (30.69333d)	Proper Motion Dec: -0.043 mas/yr	U=16.964,					
		Alt Name2: LGG5-J013332.97+304136.1	Equinox: J2000	Parallax: 0.1284"	B=17.936					
	Comments: Information retrieved from the SIMBAD database. RA/DEC from Gaia edr3 Category=EXT-STAR Description=[WOLF RAYET, WOLF RAYET - WN] Extended=NO									
Fixed Targets	(4)	DMS-NGC-595-2B	RA: 01 33 33.7000 (23.3904167d)	Epoch of Position: 2000	V=18.08	Reference Frame: ICRS				
			Dec: +30 41 34.00 (30.69278d)		U=17.34,					
			Equinox: J2000		B=18.11					
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=EXT-STAR Description=[WOLF RAYET] 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 (STIS.ta.181 0972)	(2) DMS-NGC-595-4	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			4 Secs (4 Secs)	
									[==>]	[1]
	2	NGC595-2B-science-a (STIS.sp.18 10970)	(4) DMS-NGC-595-2B	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A				2240 Secs (2264 Secs)	
									[==>2264.0 Secs]	[1]
Exposures	3	NGC595-2B-science-b (STIS.sp.18 10969)	(4) DMS-NGC-595-2B	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A				2760 Secs (2760 Secs)	
									[==>]	[2]



Proposal 17085 - ngc604-245 (07) - Very Massive Stars in M33

Thu Apr 27 13:00:19 GMT 2023

Visit	Proposal 17085, ngc604-245 (07), implementation									
	Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: (none) Comments: STISG140L observations of NGC604 245 Acquisition on MBH96 361then offset to star NGC604 245									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	DMS93-245 Alt Name1: MBH96-365 Equinox: J2000 Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=EXT-STAR Description=[WOLF RAYET] Extended=NO	RA: 01 34 32.7000 (23.6362500d) Dec: +30 47 9.60 (30.78600d)	Epoch of Position: 2000	V=16.37 B=16.27	Reference Frame: ICRS				
Fixed Targets	(11)	ACQNGC604-MBH96-361 Comments: Category=EXT-STAR Description=[GIANT O]	RA: 01 34 31.9450 (23.6331042d) Dec: +30 46 49.79 (30.78050d) Equinox: J2000	Epoch of Position: 2000	V=18.44 U=16.97 / R=18.58 / I=18.78	Reference Frame: ICRS				
	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	ACQ (STIS.ta.181 0976)	(11) ACQNGC604-MBH96-361	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			10 Secs (10 Secs) [>=>]	[1]
	2	NGC604-24 5-science (STIS.sp.18 10977)	(7) DMS93-245	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A				2240 Secs (2240 Secs) [>=>]	[1]
Orbit Structure	Orbit 1 Server Version: 20220630 GS Acq Exp. 1 Pointing Maneuver Exp. 2 (Auto-WAVECAL) Exp. 2 Unused Orbital Visibility = 0 Occultation Home 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec									

Proposal 17085 - ngc604-6 (08) - Very Massive Stars in M33

Thu Apr 27 13:00:19 GMT 2023

Visit	Proposal 17085, ngc604-6 (08), implementation										Thu Apr 27 13:00:19 GMT 2023
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA										
	Special Requirements: (none)										
Comments: STIS G140L observation of star NGC604 6											
Target acquisition MBH96 361, then offset to star 6											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(8)	DMS-WR6	RA: 01 34 33.6000 (23.6400000d)	Epoch of Position: 2000	V=16.834+/-0.009	Reference Frame: ICRS					
		Alt Name1: CM81-13	Dec: +30 47 4.60 (30.78461d)		U=16.680,						
			Equinox: J2000		B=17.492						
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.											
Category=EXT-STAR											
Description=[WOLF RAYET, WOLF RAYET - WN]											
Extended=NO											
Fixed Targets	(11)	ACQNGC604-MBH96-361	RA: 01 34 31.9450 (23.6331042d)	Epoch of Position: 2000	V=18.44	Reference Frame: ICRS					
			Dec: +30 46 49.79 (30.78050d)		U=16.97 / R=18.58 / I=18.78						
			Equinox: J2000								
	Comments:										
Category=EXT-STAR											
Description=[GIANT O]											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	ACQ (STIS.ta.181 1231)	(11) ACQNGC604-MBH96-361	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			10 Secs (10 Secs)		
									[>=>]	[1]	
	2	NGC604-6-s cience (STIS.sp.18 10970)	(8) DMS-WR6	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A				2240 Secs (2240 Secs)		
								[>=>2240.0 Secs]	[1]		
Orbit Structure	Orbit 1 Server Version: 20220630 GS Acq Exp. 1 Pointing Maneuver Exp. 2 (Auto-WAVECAL) Exp. 2 Unused Orbital Visibility = 0 Occultation Home 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 6000 sec										

Proposal 17085 - ngc604-143 (09) - Very Massive Stars in M33

Thu Apr 27 13:00:19 GMT 2023

Visit	Proposal 17085, ngc604-143 (09), implementation									
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA									
	Special Requirements: (none)									
Comments: STIS G140L observation of star NGC604 143 Acquisition on MBH96 361 then offset to NGC604 143										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	DMS93-143	RA: 01 34 33.0700 (23.6377917d)	Epoch of Position: 2000	V=16.644+/-0.004	Reference Frame: ICRS				
		Alt Name1: MBH96-367	Dec: +30 46 58.90 (30.78303d)		U=15.671,					
		Alt Name2: LGGs-J013433.10+304659.0	Equinox: J2000		B=16.661					
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=EXT-STAR Description=[WOLF RAYET] Extended=NO										
Fixed Targets	(11)	ACQNGC604-MBH96-361	RA: 01 34 31.9450 (23.6331042d)	Epoch of Position: 2000	V=18.44	Reference Frame: ICRS				
			Dec: +30 46 49.79 (30.78050d)		U=16.97 / R=18.58 / I=18.78					
			Equinox: J2000							
	Comments: Category=EXT-STAR Description=[GIANT O]									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (STIS.ta.181 0976)	(11) ACQNGC604-MBH96-361	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			10 Secs (10 Secs)	
									[==>]	[1]
	2	NGC604-14 3-science (STIS.sp.18 10977)	(9) DMS93-143	STIS/FUV-MAMA, ACCUM, 52X2	G140L 1425 A				2240 Secs (2240 Secs)	
									[==>2240.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20220630									