



17104 - Repeated Stellar Wind Line Variability in O Stars in the SMC

Cycle: 30, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Mr. Matthew J Rickard (PI) (ESA Member) (Contact)	University College London
Dr. Wolf-Rainer Hamann (CoI) (ESA Member)	Universitat Potsdam
Dr. Rainer Hainich (CoI) (ESA Member)	Universitat Potsdam
Prof. Lidia Oskinova (CoI) (ESA Member)	Universitat Potsdam
Dr. Derck L. Massa (CoI) (AdminUSPI)	Space Science Institute
Prof. Raman K. Prinja (CoI) (ESA Member)	University College London
Dr. Varsha Ramachandran (CoI) (ESA Member)	Universitat Heidelberg
Daniel Pauli (CoI) (ESA Member) (CoPI)	Universitat Potsdam
Mr. Timothy N Parsons (CoI) (ESA Member)	University College London

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	(3) NGC-346-NMC-17 (4) NGC-346-B (5) NGC-346-A	STIS/CCD STIS/FUV-MAMA	1	14-Jun-2024 11:01:11.0	yes
02	(3) NGC-346-NMC-17 (4) NGC-346-B (5) NGC-346-A	STIS/CCD STIS/FUV-MAMA	1	14-Jun-2024 11:01:12.0	yes

Proposal 17104 (STScI Edit Number: 4, Created: Friday, June 14, 2024 at 10:01:20 AM Eastern Standard Time) - Overview

<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>
03	(3) NGC-346-NMC-17 (4) NGC-346-B (5) NGC-346-A	STIS/CCD STIS/FUV-MAMA	1	14-Jun-2024 11:01:12.0	yes
04	(3) NGC-346-NMC-17 (4) NGC-346-B (5) NGC-346-A	STIS/CCD STIS/FUV-MAMA	1	14-Jun-2024 11:01:13.0	yes
05	(3) NGC-346-NMC-17 (4) NGC-346-B (5) NGC-346-A	STIS/CCD STIS/FUV-MAMA	1	14-Jun-2024 11:01:14.0	yes
06	(3) NGC-346-NMC-17 (4) NGC-346-B (5) NGC-346-A	STIS/CCD STIS/FUV-MAMA	1	14-Jun-2024 11:01:14.0	yes
07	(3) NGC-346-NMC-17 (4) NGC-346-B (5) NGC-346-A	STIS/CCD STIS/FUV-MAMA	1	14-Jun-2024 11:01:15.0	yes
08	(3) NGC-346-NMC-17 (4) NGC-346-B (5) NGC-346-A	STIS/CCD STIS/FUV-MAMA	1	14-Jun-2024 11:01:15.0	yes
09	(3) NGC-346-NMC-17 (4) NGC-346-B (5) NGC-346-A	STIS/CCD STIS/FUV-MAMA	1	14-Jun-2024 11:01:16.0	yes
10	(3) NGC-346-NMC-17 (4) NGC-346-B (5) NGC-346-A	STIS/CCD STIS/FUV-MAMA	1	14-Jun-2024 11:01:17.0	yes
11	(3) NGC-346-NMC-17 (4) NGC-346-B (5) NGC-346-A	STIS/CCD STIS/FUV-MAMA	1	14-Jun-2024 11:01:17.0	yes
12	(3) NGC-346-NMC-17 (4) NGC-346-B (5) NGC-346-A	STIS/CCD STIS/FUV-MAMA	1	14-Jun-2024 11:01:18.0	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>
13	(3) NGC-346-NMC-17 (4) NGC-346-B (5) NGC-346-A	STIS/CCD STIS/FUV-MAMA	1	14-Jun-2024 11:01:18.0	yes
14	(3) NGC-346-NMC-17 (4) NGC-346-B (5) NGC-346-A	STIS/CCD STIS/FUV-MAMA	1	14-Jun-2024 11:01:20.0	yes
15	(3) NGC-346-NMC-17 (4) NGC-346-B (5) NGC-346-A	STIS/CCD STIS/FUV-MAMA	1	14-Jun-2024 11:01:20.0	yes

15 Total Orbits Used

ABSTRACT

Massive stars dominate the space surrounding them, as the source of ionising flux, by the feedback from their winds and from dramatic cataclysmic events such as supernova. Understanding the physics of massive star winds is critical to various fields of astrophysics. A large area of tension is the so-called weak wind problem, with measured mass-loss rates from stellar winds from late O stars being lower than hydrodynamical predictions. In particular, it is suggested that the weak wind problem affects earlier O types within the low-metallicity galaxies, such as the SMC, compared to the Milky Way. However, for low-metallicity stars, these conclusions are based on only a very small number of analyzed stars. By inspecting the archival UV spectra of the commonly cited stars, we find that the wind lines of these stars are often variable.

This variability appears to be cyclic, and hence resembling the ambiguous variability observed in Galactic O stars on time scales comparable to the rotational periods. This cyclic variability is commonly explained by the presence of large scale co-rotating structures within stellar winds. In low metallicity stars, this type of variability has never yet been studied but is urgently needed.

We propose a highly efficient series of long slit UV spectrograph observations of seven late O type stars in NGC 346, the most massive star cluster in the SMC. Taken over 15 orbits, these observations will be equally spaced to monitor the variability of the CIV doublet 1548.2 - 1550.8 wind lines over multiple rotation periods of the targets. This will finally resolve questions about the structure of stellar winds at low metallicity.

OBSERVING DESCRIPTION

On each visit we will take 3 STIS G140M observations, covering 1513-1567Å in the UV, of 6 O Stars. We will revisit them every 11 orbits until a total of 15 visits have been made. This is a revision of the Phase 1 proposal which proposed 7 O stars. This would have required mid-orbit reorientation. The time constraints needed to target acquire after such an orientation change would have limited our exposure time. Instead, we lose one of our lowest priority targets and observe in the same orientation throughout each visit.

We target acquire NGC-346-NMC-17 (O8V) for accurate positioning of our first long slit exposure, and we use relative RA and DEC shifts to position our other two observations accurately. Coordinates are ICRS J2016 coordinates from Gaia DR3, verified on sky from archival Hubble F225W images. The relative offsets are confirmed in the same IRCS frame. We note the 3arcsec offset required due to the repeller wire (STIS IHB 7.6.1) and the fiducial bar, brought by this shift on to the used portion of the MAMA detector, the lowest Y axis position fiducial bar (STIS IHB 13.2.6) and ensure neither obscures our targets.

The proper motion (PM) of NMC-17 is taken from Gaia DR3 and used to aid target acquisition. For the our other two slits, only one target within each has a proper motion. However, all objects are thought to be members of NGC 346 and this is shown by the common proper motion, as all three known proper motions are within the ranges PMRA 0.4 to 0.8 mas/yr and PMDEC -0.9 to -1.6 mas/yr. The inherited PMRA 0.8 mas/yr and PMDEC -1.6 mas/yr of NMC-17 is acceptable for the two other positions as the largest movement we might expect from the PM adjusted J2016 epoch during Cycle 30 is 0.01arcseconds.

An orientation of either 79degrees or 259degrees North through East gives us best coverage of our targets. Due to the offset of the slit to the MAMA sensor, we cannot specify both, and so 259degrees is selected due to having the greater schedulability. This is given as 304degrees for our visits due to the 45degrees offset of STIS from the +U3 axis (P2PI Table 6.2).

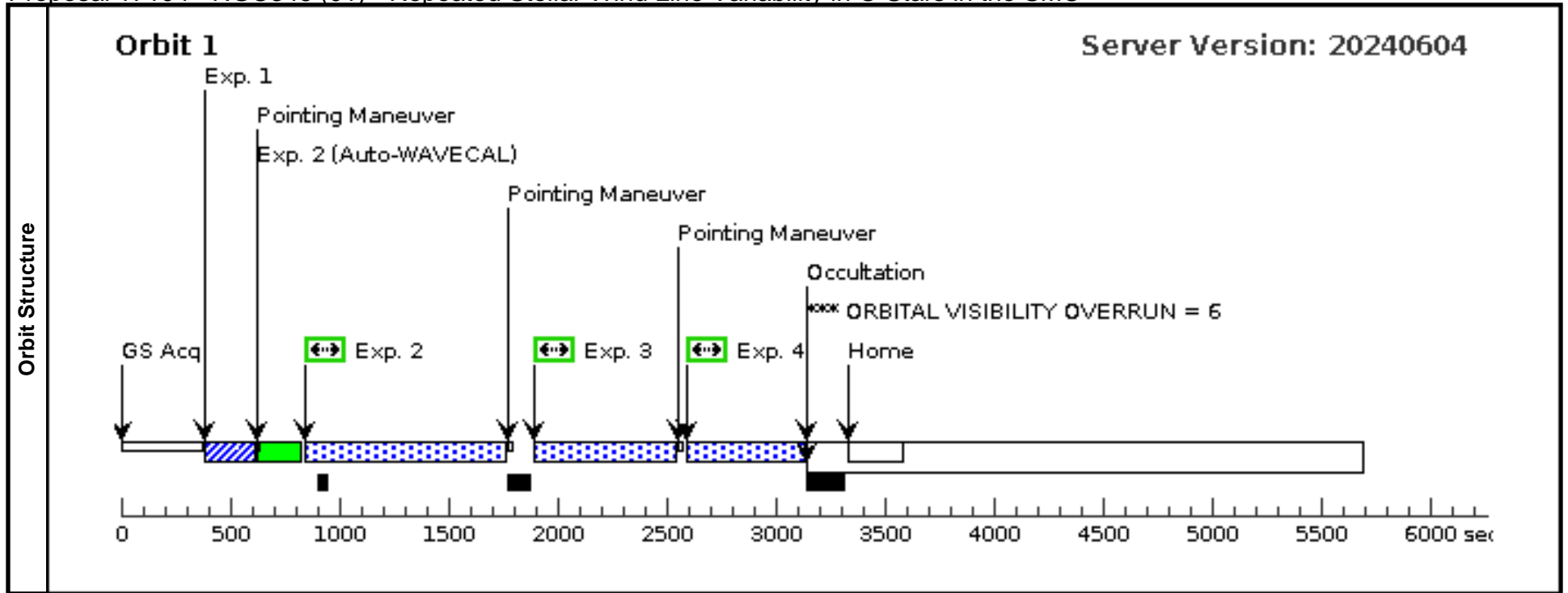
Due to the multiple objects within each slit and the requirement for a constant angle throughout each visit, not every target is centred within the dispersal axis. Despite this, experience of working with STIS G140M observations has shown that the loss of data in the dispersal direction is minimal and will not impact upon our science goals.

We note that changing schedulability down to 80 percent does not reduce the the schedulability of our observations and enables us to exceed our target exposure time. Each visit is scheduled for a factor of 11 visits (+1/-1 visit) from Visit 1. This is to ensure that the program is not interrupted if one observation is missed due to technical reasons.

Proposal 17104 - NGC346 (01) - Repeated Stellar Wind Line Variability in O Stars in the SMC

Fri Jun 14 15:01:21 GMT 2024

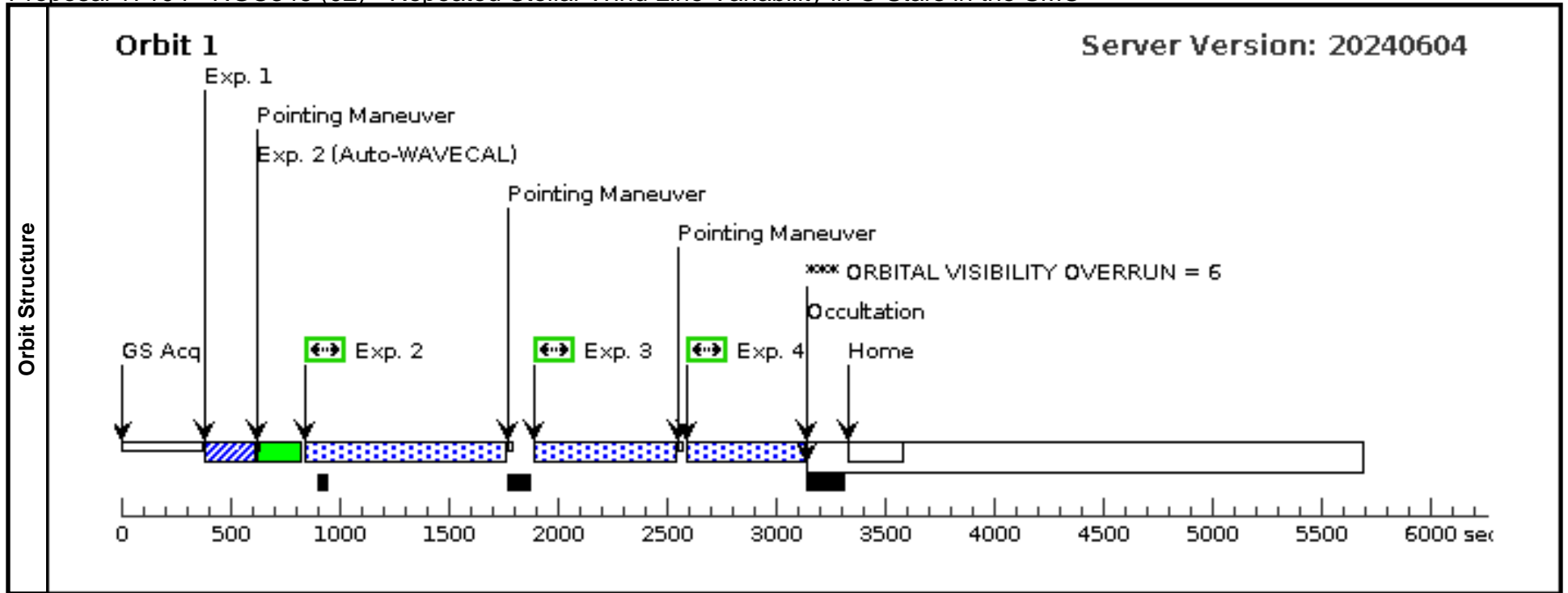
Visit	Proposal 17104, NGC346 (01), completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 80%; ORIENT 304D TO 304 D <i>Comments: UV observations of 3 long slits covering 6 massive O star dwarfs</i>									
	Diagnosics (NGC346 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(3)	NGC-346-NMC-17 Alt Name1: SSN-18 Alt Name2: MPG-487	RA: 00 59 6.7498 (14.7781242d) Dec: -72 10 41.26 (-72.17813d) Equinox: J2000	Proper Motion RA: +0.809498 mas/yr Proper Motion Dec: -1.559 mas/yr Epoch of Position: 2016.0 Radial Velocity: 165 km/sec		V=14.33+/-0.07	Reference Frame: ICRS			
	<i>Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO</i>									
	(4)	NGC-346-B	Offset from NGC-346-NMC-17 RA Offset: -0.00218222 Degrees Dec Offset: -0.00232088 Degrees			V=14.82	Offset Position (NGC-346-B)			
<i>Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO</i>										
(5)	NGC-346-A	Offset from NGC-346-NMC-17 RA Offset: -0.0218385 Degrees Dec Offset: 0.0013541 Degrees			V=13.13	Offset Position (NGC-346-A)				
<i>Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1809498)	(3) NGC-346-NMC-17	STIS/CCD, ACQ, F28X50LP	MIRROR				1 Secs (1 Secs) [==>]	[1]
	2	(1809059)	(3) NGC-346-NMC-17	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				860 Secs (865 Secs) [==>865.0 Secs]	[1]
	3	(1809060)	(4) NGC-346-B	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				625 Secs (630 Secs) [==>630.0 Secs]	[1]
	4	(1809064)	(5) NGC-346-A	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				520 Secs (525 Secs) [==>525.0 Secs]	[1]



Proposal 17104 - NGC346 (02) - Repeated Stellar Wind Line Variability in O Stars in the SMC

Fri Jun 14 15:01:21 GMT 2024

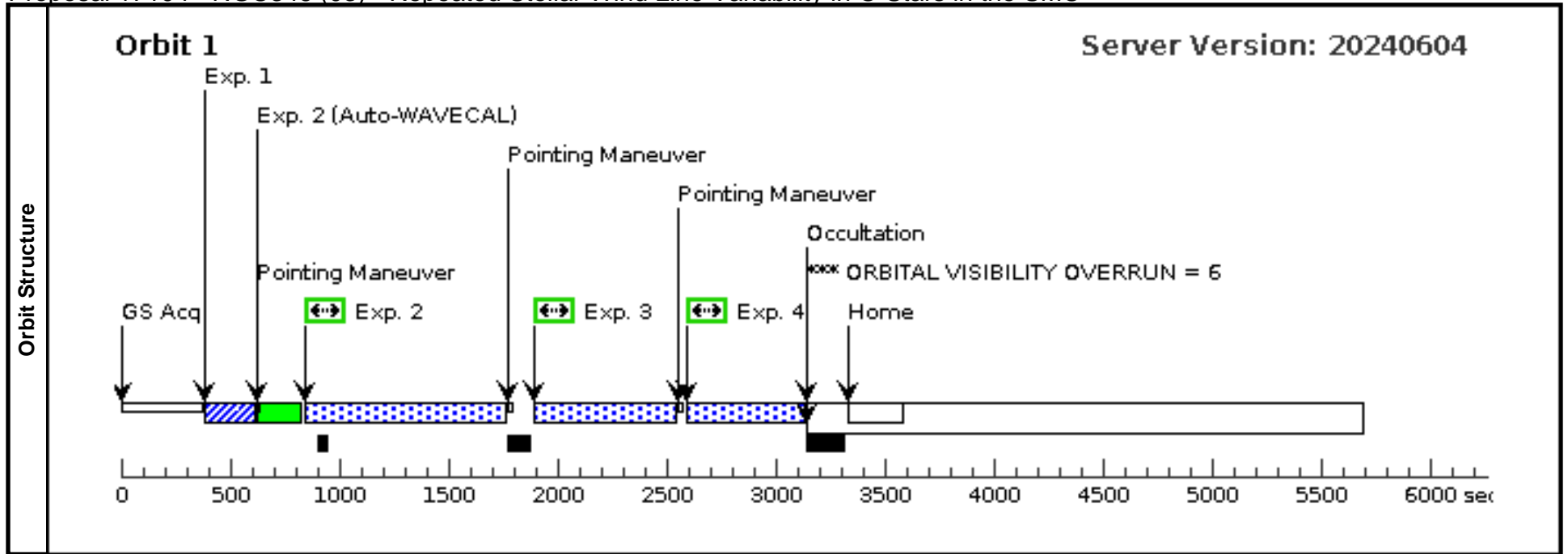
Visit	Proposal 17104, NGC346 (02), completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 80%; ORIENT 304D TO 304 D; AFTER 01 BY 13.9 Orbits TO 16.1 Orbits <i>Comments: UV observations of 3 long slits covering 6 massive O star dwarfs</i>									
	Diagnosics (NGC346 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(3)	NGC-346-NMC-17 Alt Name1: SSN-18 Alt Name2: MPG-487	RA: 00 59 6.7498 (14.7781242d) Dec: -72 10 41.26 (-72.17813d) Equinox: J2000	Proper Motion RA: +0.809498 mas/yr Proper Motion Dec: -1.559 mas/yr Epoch of Position: 2016.0 Radial Velocity: 165 km/sec		V=14.33+/-0.07	Reference Frame: ICRS			
	<i>Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO</i>									
	(4)	NGC-346-B	Offset from NGC-346-NMC-17 RA Offset: -0.00218222 Degrees Dec Offset: -0.00232088 Degrees			V=14.82	Offset Position (NGC-346-B)			
<i>Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO</i>										
(5)	NGC-346-A	Offset from NGC-346-NMC-17 RA Offset: -0.0218385 Degrees Dec Offset: 0.0013541 Degrees			V=13.13	Offset Position (NGC-346-A)				
<i>Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1809498)	(3) NGC-346-NMC-17	STIS/CCD, ACQ, F28X50LP	MIRROR				1 Secs (1 Secs) [==>]	[1]
	2	(1809059)	(3) NGC-346-NMC-17	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				860 Secs (865 Secs) [==>865.0 Secs]	[1]
	3	(1809060)	(4) NGC-346-B	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				625 Secs (630 Secs) [==>630.0 Secs]	[1]
	4	(1809064)	(5) NGC-346-A	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				520 Secs (525 Secs) [==>525.0 Secs]	[1]



Proposal 17104 - NGC346 (03) - Repeated Stellar Wind Line Variability in O Stars in the SMC

Fri Jun 14 15:01:21 GMT 2024

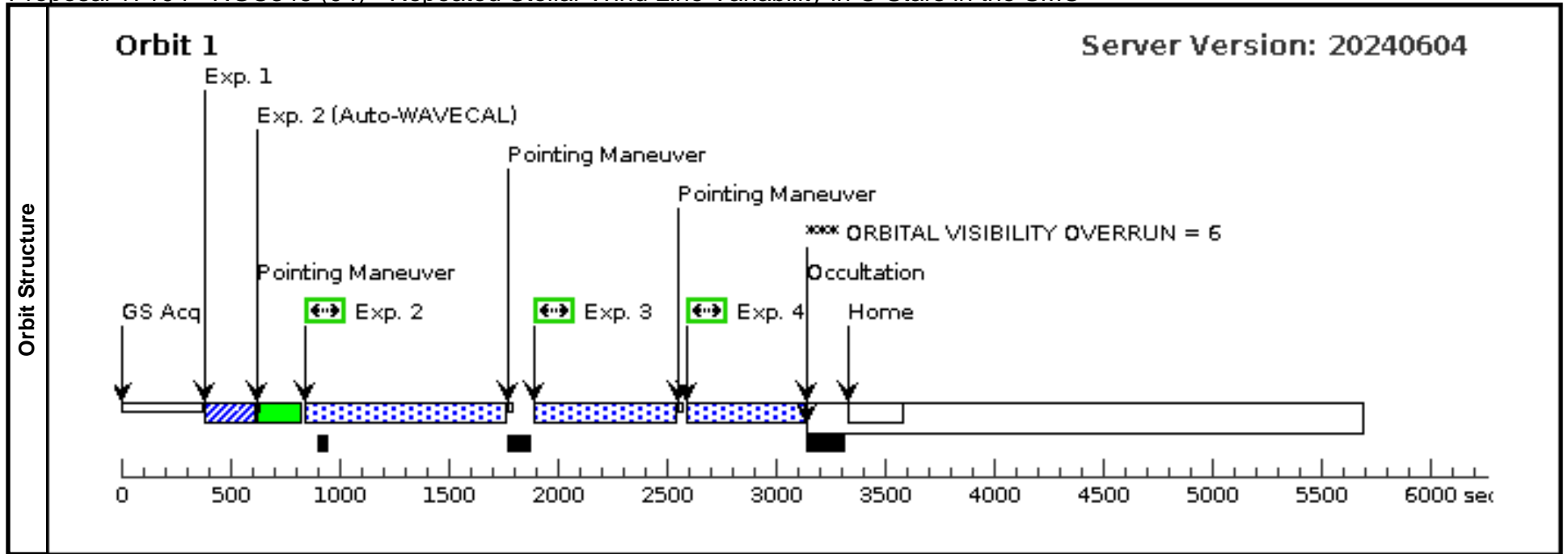
Visit	Proposal 17104, NGC346 (03), completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 80%; ORIENT 304D TO 304 D; AFTER 01 BY 28.9 Orbits TO 31.1 Orbits <i>Comments: UV observations of 3 long slits covering 6 massive O star dwarfs</i>									
	Diagnosics (NGC346 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(3)	NGC-346-NMC-17 Alt Name1: SSN-18 Alt Name2: MPG-487	RA: 00 59 6.7498 (14.7781242d) Dec: -72 10 41.26 (-72.17813d) Equinox: J2000	Proper Motion RA: +0.809498 mas/yr Proper Motion Dec: -1.559 mas/yr Epoch of Position: 2016.0 Radial Velocity: 165 km/sec		V=14.33+/-0.07	Reference Frame: ICRS			
	<i>Comments:</i> Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO									
	(4)	NGC-346-B	Offset from NGC-346-NMC-17 RA Offset: -0.00218222 Degrees Dec Offset: -0.00232088 Degrees			V=14.82	Offset Position (NGC-346-B)			
<i>Comments:</i> Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO										
(5)	NGC-346-A	Offset from NGC-346-NMC-17 RA Offset: -0.0218385 Degrees Dec Offset: 0.0013541 Degrees			V=13.13	Offset Position (NGC-346-A)				
<i>Comments:</i> Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1809498)	(3) NGC-346-NMC-17	STIS/CCD, ACQ, F28X50LP	MIRROR				1 Secs (1 Secs) [==>]	[1]
	2	(1809059)	(3) NGC-346-NMC-17	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				860 Secs (865 Secs) [==>865.0 Secs]	[1]
	3	(1809060)	(4) NGC-346-B	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				625 Secs (630 Secs) [==>630.0 Secs]	[1]
	4	(1809064)	(5) NGC-346-A	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				520 Secs (525 Secs) [==>525.0 Secs]	[1]



Proposal 17104 - NGC346 (04) - Repeated Stellar Wind Line Variability in O Stars in the SMC

Fri Jun 14 15:01:21 GMT 2024

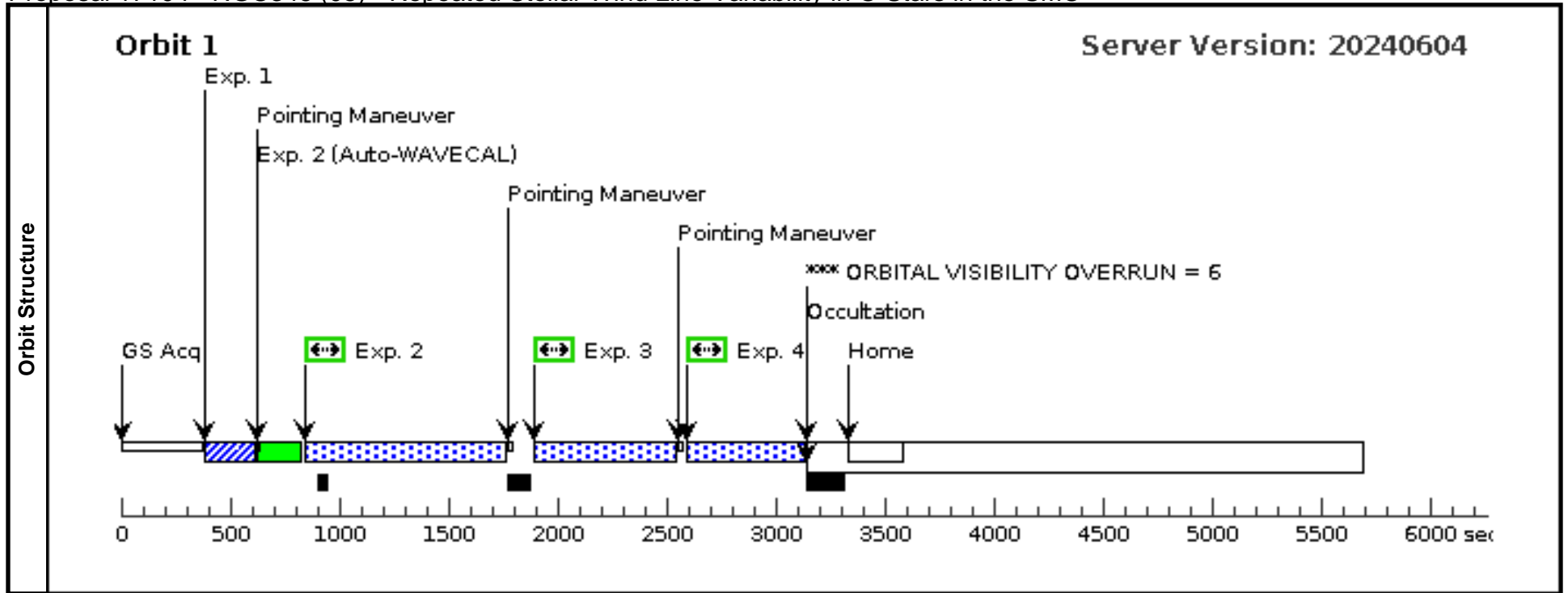
Visit	Proposal 17104, NGC346 (04), completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 80%; ORIENT 304D TO 304 D; AFTER 01 BY 43.9 Orbits TO 46.1 Orbits <i>Comments: UV observations of 3 long slits covering 6 massive O star dwarfs</i>									
	Diagnosics (NGC346 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(3)	NGC-346-NMC-17 Alt Name1: SSN-18 Alt Name2: MPG-487	RA: 00 59 6.7498 (14.7781242d) Dec: -72 10 41.26 (-72.17813d) Equinox: J2000	Proper Motion RA: +0.809498 mas/yr Proper Motion Dec: -1.559 mas/yr Epoch of Position: 2016.0 Radial Velocity: 165 km/sec		V=14.33+/-0.07	Reference Frame: ICRS			
	<i>Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO</i>									
	(4)	NGC-346-B	Offset from NGC-346-NMC-17 RA Offset: -0.00218222 Degrees Dec Offset: -0.00232088 Degrees			V=14.82	Offset Position (NGC-346-B)			
<i>Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO</i>										
(5)	NGC-346-A	Offset from NGC-346-NMC-17 RA Offset: -0.0218385 Degrees Dec Offset: 0.0013541 Degrees			V=13.13	Offset Position (NGC-346-A)				
<i>Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1809498)	(3) NGC-346-NMC-17	STIS/CCD, ACQ, F28X50LP	MIRROR				1 Secs (1 Secs) [==>]	[1]
	2	(1809059)	(3) NGC-346-NMC-17	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				860 Secs (865 Secs) [==>865.0 Secs]	[1]
	3	(1809060)	(4) NGC-346-B	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				625 Secs (630 Secs) [==>630.0 Secs]	[1]
	4	(1809064)	(5) NGC-346-A	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				520 Secs (525 Secs) [==>525.0 Secs]	[1]



Proposal 17104 - NGC346 (05) - Repeated Stellar Wind Line Variability in O Stars in the SMC

Fri Jun 14 15:01:21 GMT 2024

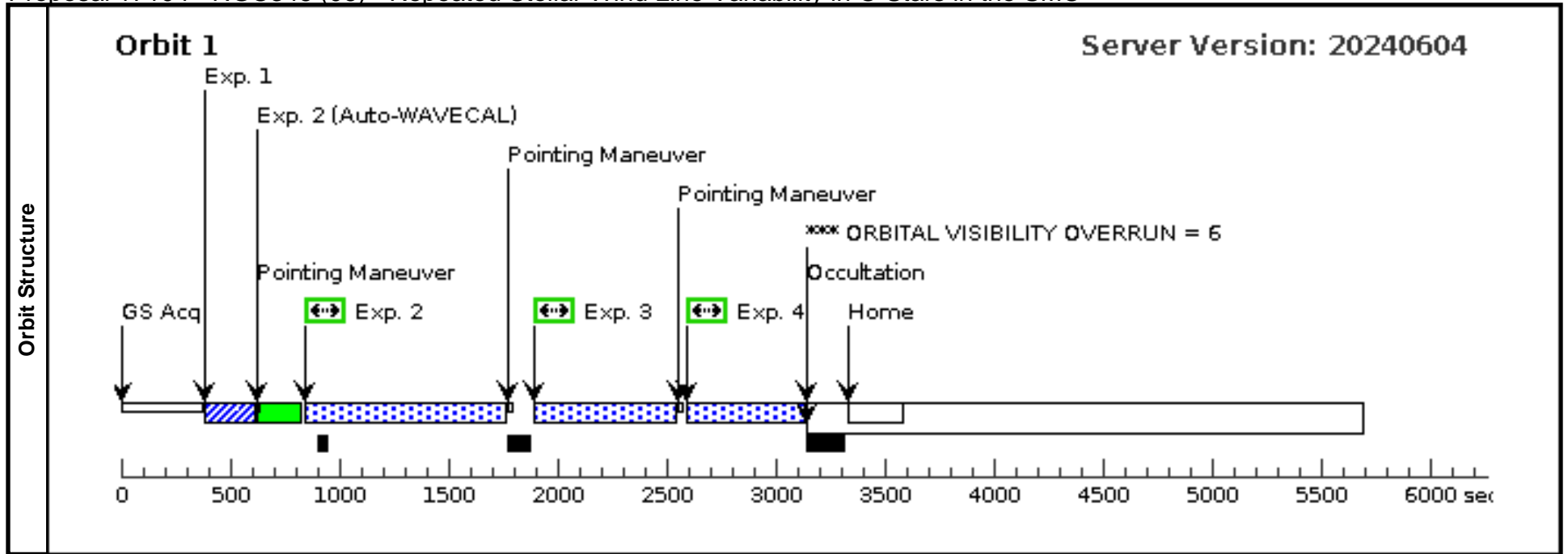
Visit	Proposal 17104, NGC346 (05), completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 80%; ORIENT 304D TO 304 D; AFTER 01 BY 58.9 Orbits TO 61.1 Orbits <i>Comments: UV observations of 3 long slits covering 6 massive O star dwarfs</i>									
	Diagnosics (NGC346 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(3)	NGC-346-NMC-17 Alt Name1: SSN-18 Alt Name2: MPG-487	RA: 00 59 6.7498 (14.7781242d) Dec: -72 10 41.26 (-72.17813d) Equinox: J2000	Proper Motion RA: +0.809498 mas/yr Proper Motion Dec: -1.559 mas/yr Epoch of Position: 2016.0 Radial Velocity: 165 km/sec		V=14.33+/-0.07	Reference Frame: ICRS			
	<i>Comments:</i> Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO									
	(4)	NGC-346-B	Offset from NGC-346-NMC-17 RA Offset: -0.00218222 Degrees Dec Offset: -0.00232088 Degrees			V=14.82	Offset Position (NGC-346-B)			
<i>Comments:</i> Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO										
(5)	NGC-346-A	Offset from NGC-346-NMC-17 RA Offset: -0.0218385 Degrees Dec Offset: 0.0013541 Degrees			V=13.13	Offset Position (NGC-346-A)				
<i>Comments:</i> Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1809498)	(3) NGC-346-NMC-17	STIS/CCD, ACQ, F28X50LP	MIRROR				1 Secs (1 Secs) [==>]	[1]
	2	(1809059)	(3) NGC-346-NMC-17	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				860 Secs (865 Secs) [==>865.0 Secs]	[1]
	3	(1809060)	(4) NGC-346-B	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				625 Secs (630 Secs) [==>630.0 Secs]	[1]
	4	(1809064)	(5) NGC-346-A	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				520 Secs (525 Secs) [==>525.0 Secs]	[1]



Proposal 17104 - NGC346 (06) - Repeated Stellar Wind Line Variability in O Stars in the SMC

Fri Jun 14 15:01:21 GMT 2024

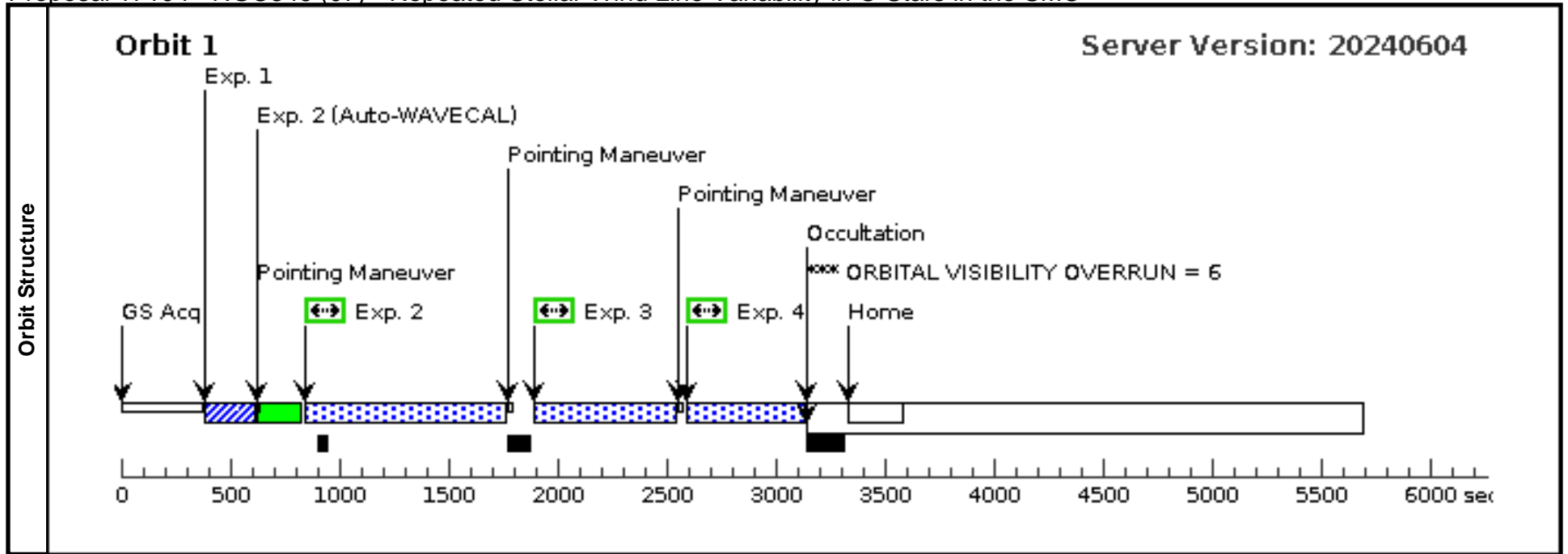
Visit	Proposal 17104, NGC346 (06), completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 80%; ORIENT 304D TO 304 D; AFTER 01 BY 73.9 Orbits TO 76.1 Orbits <i>Comments: UV observations of 3 long slits covering 6 massive O star dwarfs</i>									
	Diagnosics (NGC346 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(3)	NGC-346-NMC-17 Alt Name1: SSN-18 Alt Name2: MPG-487	RA: 00 59 6.7498 (14.7781242d) Dec: -72 10 41.26 (-72.17813d) Equinox: J2000	Proper Motion RA: +0.809498 mas/yr Proper Motion Dec: -1.559 mas/yr Epoch of Position: 2016.0 Radial Velocity: 165 km/sec		V=14.33+/-0.07	Reference Frame: ICRS			
	<i>Comments:</i> Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO									
	(4)	NGC-346-B	Offset from NGC-346-NMC-17 RA Offset: -0.00218222 Degrees Dec Offset: -0.00232088 Degrees			V=14.82	Offset Position (NGC-346-B)			
<i>Comments:</i> Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO										
(5)	NGC-346-A	Offset from NGC-346-NMC-17 RA Offset: -0.0218385 Degrees Dec Offset: 0.0013541 Degrees			V=13.13	Offset Position (NGC-346-A)				
<i>Comments:</i> Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1809498)	(3) NGC-346-NMC-17	STIS/CCD, ACQ, F28X50LP	MIRROR				1 Secs (1 Secs) [==>]	[1]
	2	(1809059)	(3) NGC-346-NMC-17	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				860 Secs (865 Secs) [==>865.0 Secs]	[1]
	3	(1809060)	(4) NGC-346-B	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				625 Secs (630 Secs) [==>630.0 Secs]	[1]
	4	(1809064)	(5) NGC-346-A	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				520 Secs (525 Secs) [==>525.0 Secs]	[1]



Proposal 17104 - NGC346 (07) - Repeated Stellar Wind Line Variability in O Stars in the SMC

Fri Jun 14 15:01:21 GMT 2024

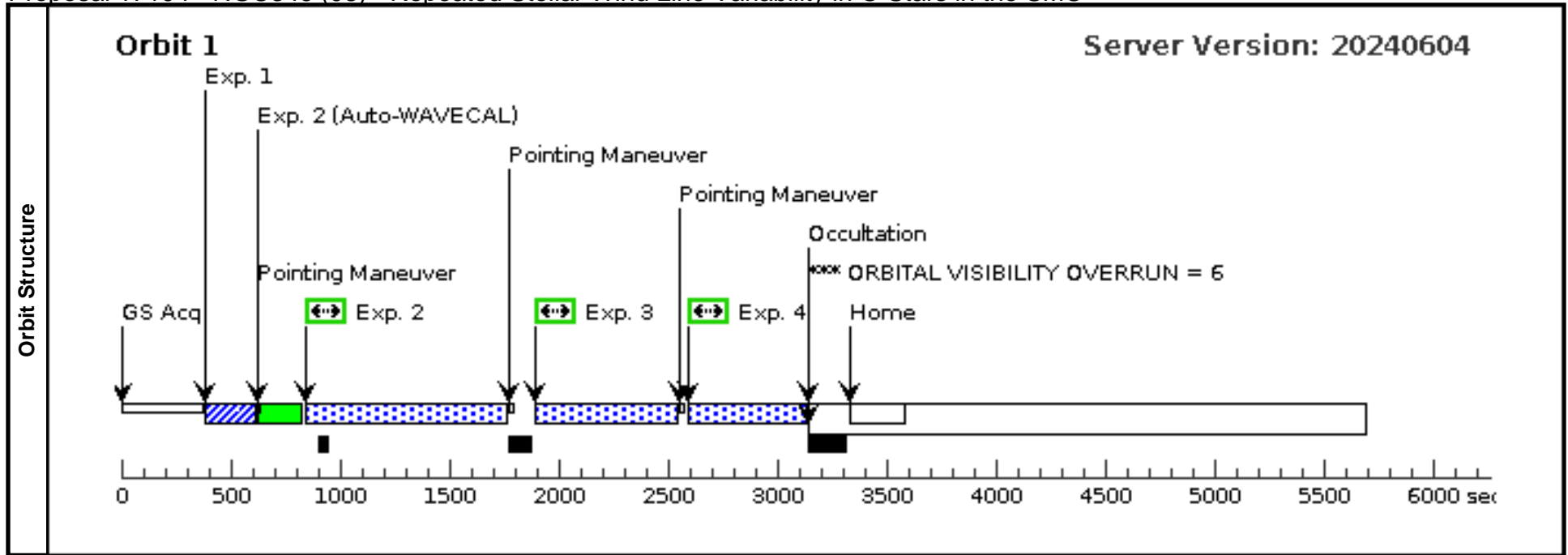
Visit	Proposal 17104, NGC346 (07), completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 80%; ORIENT 304D TO 304 D; AFTER 01 BY 88.1 Orbits TO 91.1 Orbits <i>Comments: UV observations of 3 long slits covering 6 massive O star dwarfs</i>									
	Diagnosics (NGC346 (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(3)	NGC-346-NMC-17 Alt Name1: SSN-18 Alt Name2: MPG-487	RA: 00 59 6.7498 (14.7781242d) Dec: -72 10 41.26 (-72.17813d) Equinox: J2000	Proper Motion RA: +0.809498 mas/yr Proper Motion Dec: -1.559 mas/yr Epoch of Position: 2016.0 Radial Velocity: 165 km/sec		V=14.33+/-0.07	Reference Frame: ICRS			
	<i>Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO</i>									
	(4)	NGC-346-B	Offset from NGC-346-NMC-17 RA Offset: -0.00218222 Degrees Dec Offset: -0.00232088 Degrees			V=14.82	Offset Position (NGC-346-B)			
<i>Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO</i>										
(5)	NGC-346-A	Offset from NGC-346-NMC-17 RA Offset: -0.0218385 Degrees Dec Offset: 0.0013541 Degrees			V=13.13	Offset Position (NGC-346-A)				
<i>Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1809498)	(3) NGC-346-NMC-17	STIS/CCD, ACQ, F28X50LP	MIRROR				1 Secs (1 Secs) [==>]	[1]
	2	(1809059)	(3) NGC-346-NMC-17	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				860 Secs (865 Secs) [==>865.0 Secs]	[1]
	3	(1809060)	(4) NGC-346-B	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				625 Secs (630 Secs) [==>630.0 Secs]	[1]
	4	(1809064)	(5) NGC-346-A	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				520 Secs (525 Secs) [==>525.0 Secs]	[1]



Proposal 17104 - NGC346 (08) - Repeated Stellar Wind Line Variability in O Stars in the SMC

Fri Jun 14 15:01:21 GMT 2024

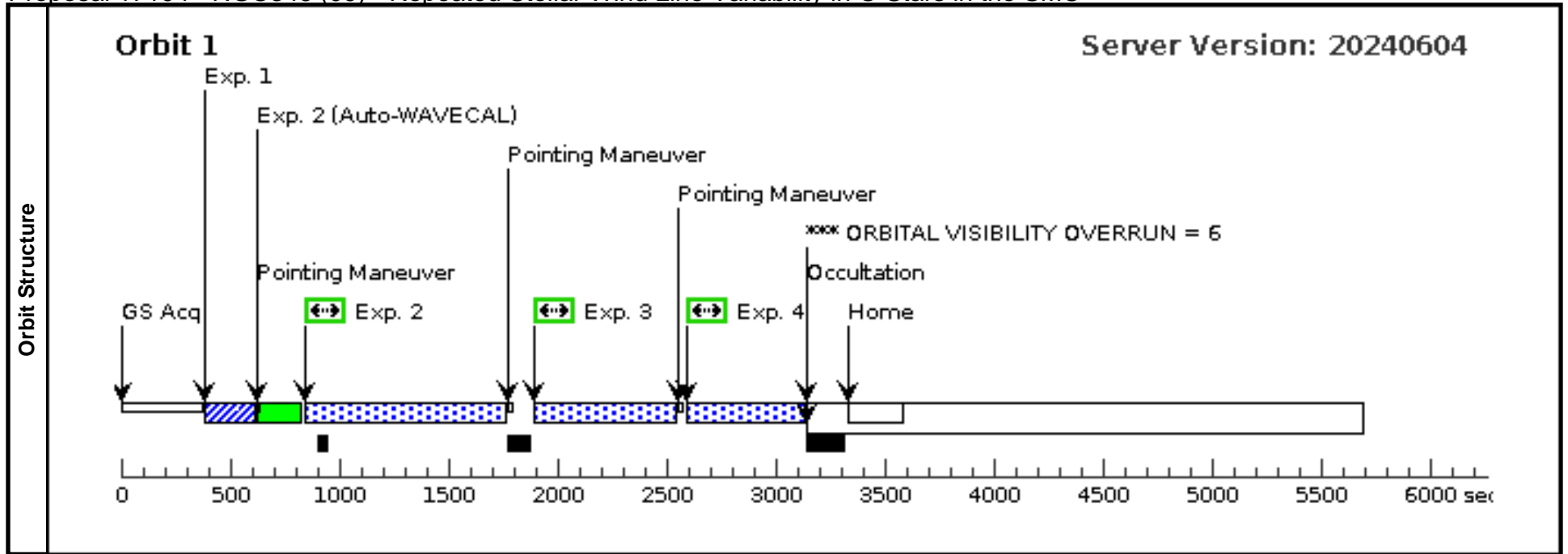
Visit	Proposal 17104, NGC346 (08), completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 80%; ORIENT 304D TO 304 D; AFTER 01 BY 103.9 Orbits TO 106.1 Orbits <i>Comments: UV observations of 3 long slits covering 6 massive O star dwarfs</i>									
	Diagnosics (NGC346 (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(3)	NGC-346-NMC-17 Alt Name1: SSN-18 Alt Name2: MPG-487	RA: 00 59 6.7498 (14.7781242d) Dec: -72 10 41.26 (-72.17813d) Equinox: J2000	Proper Motion RA: +0.809498 mas/yr Proper Motion Dec: -1.559 mas/yr Epoch of Position: 2016.0 Radial Velocity: 165 km/sec		V=14.33+/-0.07	Reference Frame: ICRS			
	<i>Comments:</i> Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO									
	(4)	NGC-346-B	Offset from NGC-346-NMC-17 RA Offset: -0.00218222 Degrees Dec Offset: -0.00232088 Degrees			V=14.82	Offset Position (NGC-346-B)			
<i>Comments:</i> Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO										
(5)	NGC-346-A	Offset from NGC-346-NMC-17 RA Offset: -0.0218385 Degrees Dec Offset: 0.0013541 Degrees			V=13.13	Offset Position (NGC-346-A)				
<i>Comments:</i> Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1809498)	(3) NGC-346-NMC-17	STIS/CCD, ACQ, F28X50LP	MIRROR				1 Secs (1 Secs) [==>]	[1]
	2	(1809059)	(3) NGC-346-NMC-17	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				860 Secs (865 Secs) [==>865.0 Secs]	[1]
	3	(1809060)	(4) NGC-346-B	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				625 Secs (630 Secs) [==>630.0 Secs]	[1]
	4	(1809064)	(5) NGC-346-A	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				520 Secs (525 Secs) [==>525.0 Secs]	[1]



Proposal 17104 - NGC346 (09) - Repeated Stellar Wind Line Variability in O Stars in the SMC

Fri Jun 14 15:01:21 GMT 2024

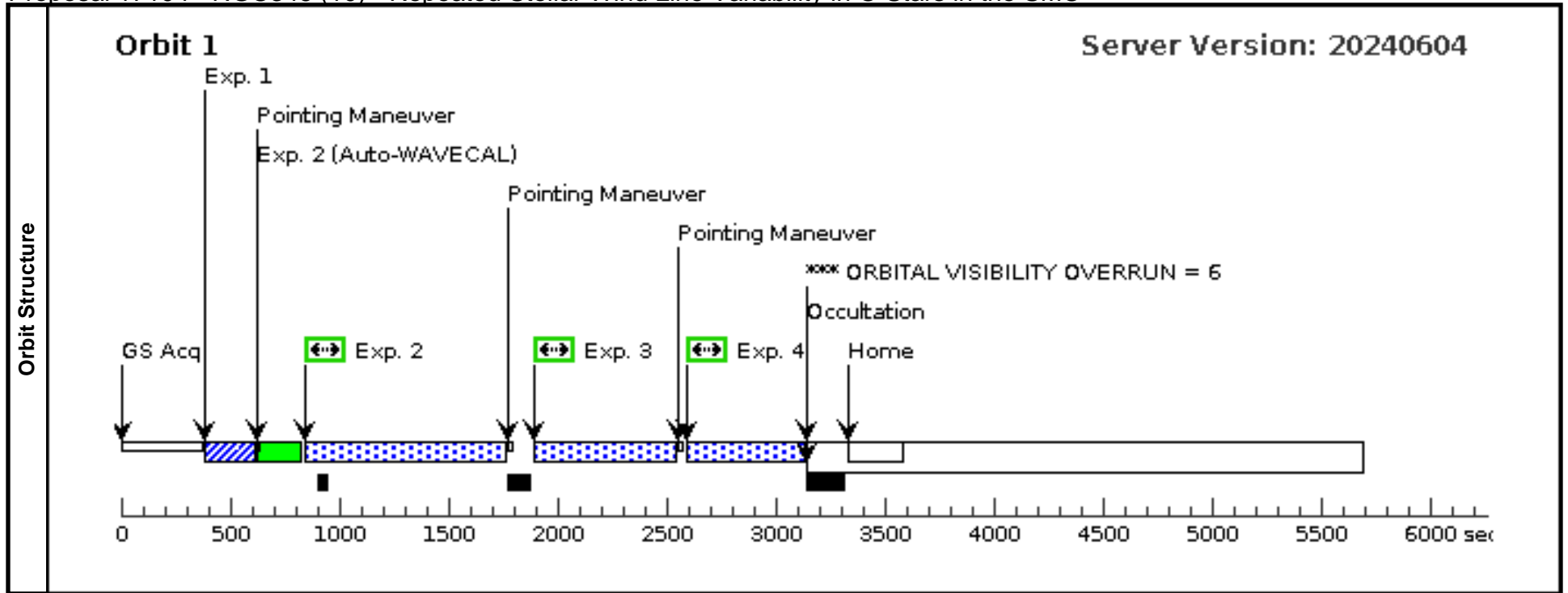
Visit	Proposal 17104, NGC346 (09), completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 80%; ORIENT 304D TO 304 D; AFTER 01 BY 117.1 Orbits TO 121.1 Orbits <i>Comments: UV observations of 3 long slits covering 6 massive O star dwarfs</i>									
	Diagnosics (NGC346 (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(3)	NGC-346-NMC-17 Alt Name1: SSN-18 Alt Name2: MPG-487	RA: 00 59 6.7498 (14.7781242d) Dec: -72 10 41.26 (-72.17813d) Equinox: J2000	Proper Motion RA: +0.809498 mas/yr Proper Motion Dec: -1.559 mas/yr Epoch of Position: 2016.0 Radial Velocity: 165 km/sec		V=14.33+/-0.07	Reference Frame: ICRS			
	<i>Comments:</i> Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO									
	(4)	NGC-346-B	Offset from NGC-346-NMC-17 RA Offset: -0.00218222 Degrees Dec Offset: -0.00232088 Degrees			V=14.82	Offset Position (NGC-346-B)			
<i>Comments:</i> Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO										
(5)	NGC-346-A	Offset from NGC-346-NMC-17 RA Offset: -0.0218385 Degrees Dec Offset: 0.0013541 Degrees			V=13.13	Offset Position (NGC-346-A)				
<i>Comments:</i> Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1809498)	(3) NGC-346-NMC-17	STIS/CCD, ACQ, F28X50LP	MIRROR				1 Secs (1 Secs) [==>]	[1]
	2	(1809059)	(3) NGC-346-NMC-17	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				860 Secs (865 Secs) [==>865.0 Secs]	[1]
	3	(1809060)	(4) NGC-346-B	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				625 Secs (630 Secs) [==>630.0 Secs]	[1]
	4	(1809064)	(5) NGC-346-A	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				520 Secs (525 Secs) [==>525.0 Secs]	[1]



Proposal 17104 - NGC346 (10) - Repeated Stellar Wind Line Variability in O Stars in the SMC

Fri Jun 14 15:01:21 GMT 2024

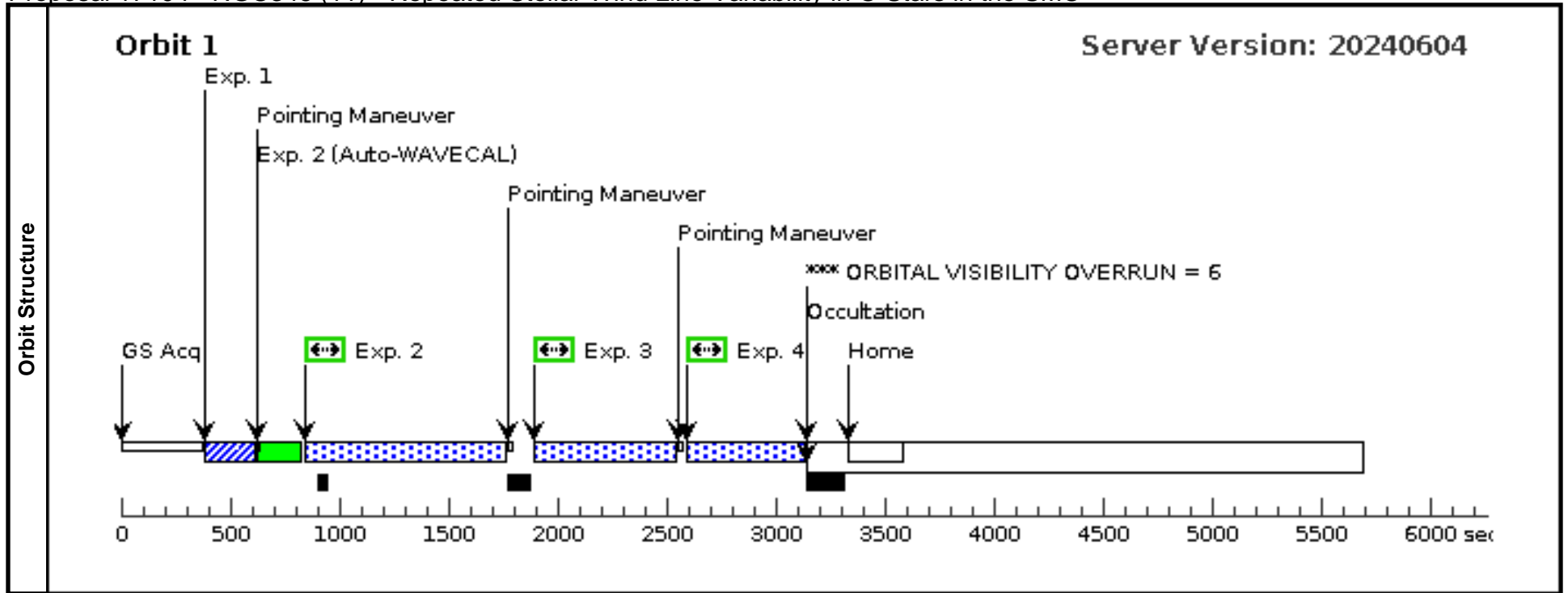
Visit	Proposal 17104, NGC346 (10), completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 80%; ORIENT 304D TO 304 D; AFTER 01 BY 132.9 Orbits TO 136.1 Orbits <i>Comments: UV observations of 3 long slits covering 6 massive O star dwarfs</i>									
	Diagnosics (NGC346 (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(3)	NGC-346-NMC-17 Alt Name1: SSN-18 Alt Name2: MPG-487	RA: 00 59 6.7498 (14.7781242d) Dec: -72 10 41.26 (-72.17813d) Equinox: J2000	Proper Motion RA: +0.809498 mas/yr Proper Motion Dec: -1.559 mas/yr Epoch of Position: 2016.0 Radial Velocity: 165 km/sec		V=14.33+/-0.07	Reference Frame: ICRS			
	<i>Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO</i>									
	(4)	NGC-346-B	Offset from NGC-346-NMC-17 RA Offset: -0.00218222 Degrees Dec Offset: -0.00232088 Degrees			V=14.82	Offset Position (NGC-346-B)			
<i>Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO</i>										
(5)	NGC-346-A	Offset from NGC-346-NMC-17 RA Offset: -0.0218385 Degrees Dec Offset: 0.0013541 Degrees			V=13.13	Offset Position (NGC-346-A)				
<i>Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1809498)	(3) NGC-346-NMC-17	STIS/CCD, ACQ, F28X50LP	MIRROR				1 Secs (1 Secs) [==>]	[1]
	2	(1809059)	(3) NGC-346-NMC-17	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				860 Secs (865 Secs) [==>865.0 Secs]	[1]
	3	(1809060)	(4) NGC-346-B	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				625 Secs (630 Secs) [==>630.0 Secs]	[1]
	4	(1809064)	(5) NGC-346-A	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				520 Secs (525 Secs) [==>525.0 Secs]	[1]



Proposal 17104 - NGC346 (11) - Repeated Stellar Wind Line Variability in O Stars in the SMC

Fri Jun 14 15:01:21 GMT 2024

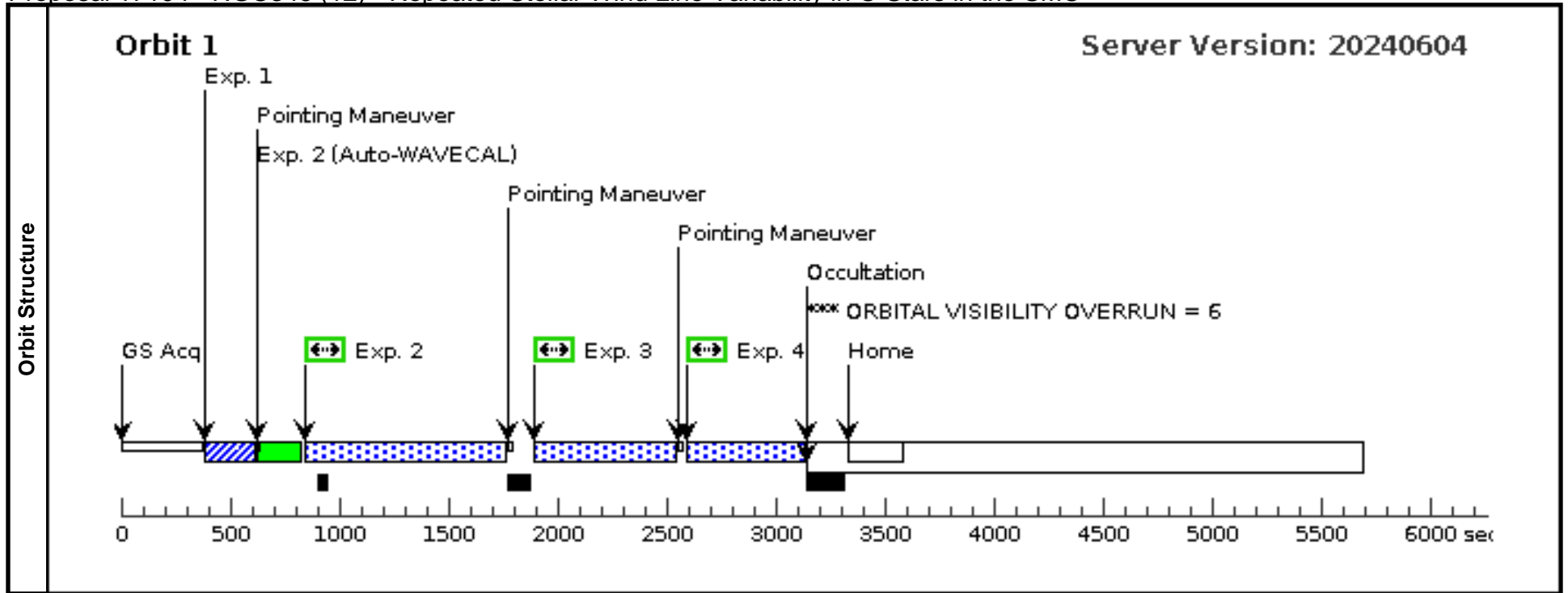
Visit	Proposal 17104, NGC346 (11), completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 80%; ORIENT 304D TO 304 D; AFTER 01 BY 147.9 Orbits TO 151 Orbits <i>Comments: UV observations of 3 long slits covering 6 massive O star dwarfs</i>									
	Diagnosics (NGC346 (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(3)	NGC-346-NMC-17 Alt Name1: SSN-18 Alt Name2: MPG-487	RA: 00 59 6.7498 (14.7781242d) Dec: -72 10 41.26 (-72.17813d) Equinox: J2000	Proper Motion RA: +0.809498 mas/yr Proper Motion Dec: -1.559 mas/yr Epoch of Position: 2016.0 Radial Velocity: 165 km/sec		V=14.33+/-0.07	Reference Frame: ICRS			
	<i>Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO</i>									
	(4)	NGC-346-B	Offset from NGC-346-NMC-17 RA Offset: -0.00218222 Degrees Dec Offset: -0.00232088 Degrees			V=14.82	Offset Position (NGC-346-B)			
<i>Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO</i>										
(5)	NGC-346-A	Offset from NGC-346-NMC-17 RA Offset: -0.0218385 Degrees Dec Offset: 0.0013541 Degrees			V=13.13	Offset Position (NGC-346-A)				
<i>Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1809498)	(3) NGC-346-NMC-17	STIS/CCD, ACQ, F28X50LP	MIRROR				1 Secs (1 Secs) [==>]	[1]
	2	(1809059)	(3) NGC-346-NMC-17	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				860 Secs (865 Secs) [==>865.0 Secs]	[1]
	3	(1809060)	(4) NGC-346-B	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				625 Secs (630 Secs) [==>630.0 Secs]	[1]
	4	(1809064)	(5) NGC-346-A	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				520 Secs (525 Secs) [==>525.0 Secs]	[1]



Proposal 17104 - NGC346 (12) - Repeated Stellar Wind Line Variability in O Stars in the SMC

Fri Jun 14 15:01:21 GMT 2024

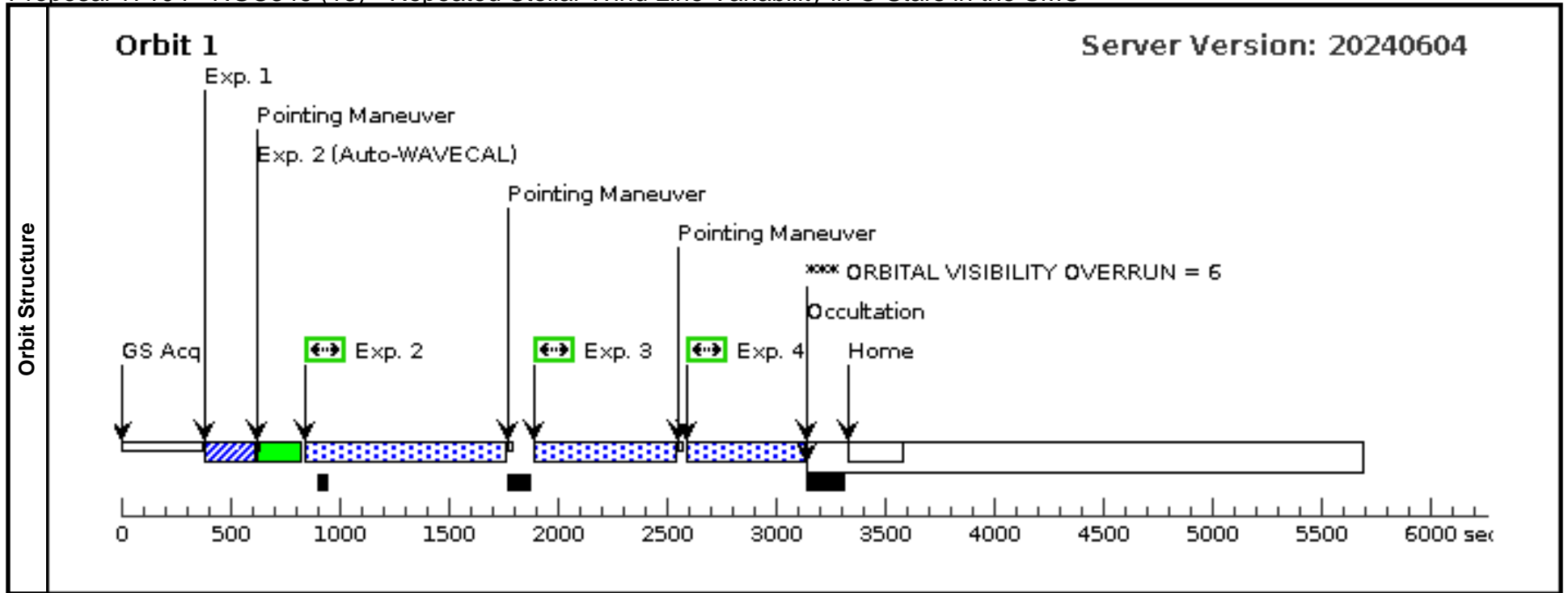
Visit	Proposal 17104, NGC346 (12), completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 80%; ORIENT 304D TO 304 D; AFTER 01 BY 162.9 Orbits TO 166.1 Orbits <i>Comments: UV observations of 3 long slits covering 6 massive O star dwarfs</i>									
	Diagnosics (NGC346 (12)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(3)	NGC-346-NMC-17 Alt Name1: SSN-18 Alt Name2: MPG-487	RA: 00 59 6.7498 (14.7781242d) Dec: -72 10 41.26 (-72.17813d) Equinox: J2000	Proper Motion RA: +0.809498 mas/yr Proper Motion Dec: -1.559 mas/yr Epoch of Position: 2016.0 Radial Velocity: 165 km/sec		V=14.33+/-0.07	Reference Frame: ICRS			
	<i>Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO</i>									
	(4)	NGC-346-B	Offset from NGC-346-NMC-17 RA Offset: -0.00218222 Degrees Dec Offset: -0.00232088 Degrees			V=14.82	Offset Position (NGC-346-B)			
<i>Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO</i>										
(5)	NGC-346-A	Offset from NGC-346-NMC-17 RA Offset: -0.0218385 Degrees Dec Offset: 0.0013541 Degrees			V=13.13	Offset Position (NGC-346-A)				
<i>Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1809498)	(3) NGC-346-NMC-17	STIS/CCD, ACQ, F28X50LP	MIRROR				1 Secs (1 Secs) [==>]	[1]
	2	(1809059)	(3) NGC-346-NMC-17	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				860 Secs (865 Secs) [==>865.0 Secs]	[1]
	3	(1809060)	(4) NGC-346-B	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				625 Secs (630 Secs) [==>630.0 Secs]	[1]
	4	(1809064)	(5) NGC-346-A	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				520 Secs (525 Secs) [==>525.0 Secs]	[1]



Proposal 17104 - NGC346 (13) - Repeated Stellar Wind Line Variability in O Stars in the SMC

Fri Jun 14 15:01:21 GMT 2024

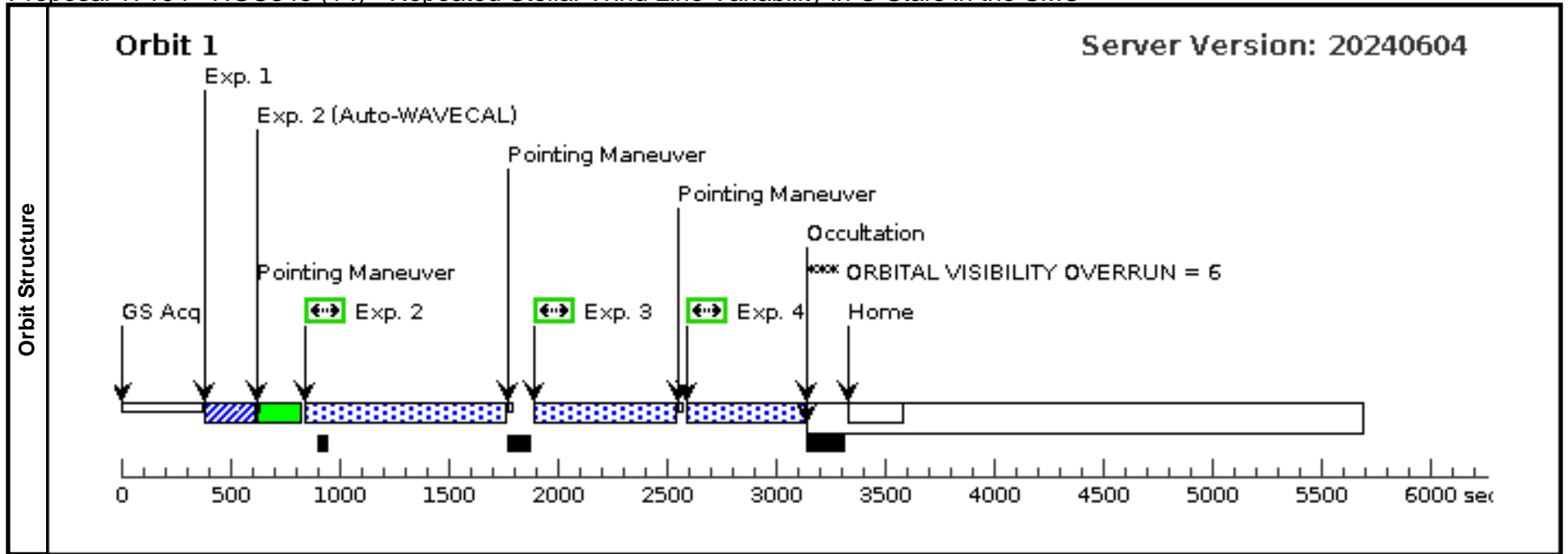
Visit	Proposal 17104, NGC346 (13), completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 80%; ORIENT 304D TO 304 D; AFTER 01 BY 177.9 Orbits TO 184.1 Orbits <i>Comments: UV observations of 3 long slits covering 6 massive O star dwarfs</i>									
	Diagnosics (NGC346 (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(3)	NGC-346-NMC-17 Alt Name1: SSN-18 Alt Name2: MPG-487	RA: 00 59 6.7498 (14.7781242d) Dec: -72 10 41.26 (-72.17813d) Equinox: J2000	Proper Motion RA: +0.809498 mas/yr Proper Motion Dec: -1.559 mas/yr Epoch of Position: 2016.0 Radial Velocity: 165 km/sec		V=14.33+/-0.07	Reference Frame: ICRS			
	<i>Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO</i>									
	(4)	NGC-346-B	Offset from NGC-346-NMC-17 RA Offset: -0.00218222 Degrees Dec Offset: -0.00232088 Degrees			V=14.82	Offset Position (NGC-346-B)			
<i>Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO</i>										
(5)	NGC-346-A	Offset from NGC-346-NMC-17 RA Offset: -0.0218385 Degrees Dec Offset: 0.0013541 Degrees			V=13.13	Offset Position (NGC-346-A)				
<i>Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1809498)	(3) NGC-346-NMC-17	STIS/CCD, ACQ, F28X50LP	MIRROR				1 Secs (1 Secs) [==>]	[1]
	2	(1809059)	(3) NGC-346-NMC-17	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				860 Secs (865 Secs) [==>865.0 Secs]	[1]
	3	(1809060)	(4) NGC-346-B	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				625 Secs (630 Secs) [==>630.0 Secs]	[1]
	4	(1809064)	(5) NGC-346-A	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				520 Secs (525 Secs) [==>525.0 Secs]	[1]



Proposal 17104 - NGC346 (14) - Repeated Stellar Wind Line Variability in O Stars in the SMC

Fri Jun 14 15:01:21 GMT 2024

Visit	Proposal 17104, NGC346 (14), completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 80%; ORIENT 304D TO 304 D; AFTER 01 BY 192.9 Orbits TO 196.1 Orbits <i>Comments: UV observations of 3 long slits covering 6 massive O star dwarfs</i>									
	Diagnosics (NGC346 (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(3)	NGC-346-NMC-17 Alt Name1: SSN-18 Alt Name2: MPG-487	RA: 00 59 6.7498 (14.7781242d) Dec: -72 10 41.26 (-72.17813d) Equinox: J2000	Proper Motion RA: +0.809498 mas/yr Proper Motion Dec: -1.559 mas/yr Epoch of Position: 2016.0 Radial Velocity: 165 km/sec		V=14.33+/-0.07	Reference Frame: ICRS			
	<i>Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO</i>									
	(4)	NGC-346-B	Offset from NGC-346-NMC-17 RA Offset: -0.00218222 Degrees Dec Offset: -0.00232088 Degrees			V=14.82	Offset Position (NGC-346-B)			
	<i>Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO</i>									
(5)	NGC-346-A	Offset from NGC-346-NMC-17 RA Offset: -0.0218385 Degrees Dec Offset: 0.0013541 Degrees			V=13.13	Offset Position (NGC-346-A)				
<i>Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1809498)	(3) NGC-346-NMC-17	STIS/CCD, ACQ, F28X50LP	MIRROR				1 Secs (1 Secs) [==>]	[1]
	2	(1809059)	(3) NGC-346-NMC-17	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				860 Secs (865 Secs) [==>865.0 Secs]	[1]
	3	(1809060)	(4) NGC-346-B	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				625 Secs (630 Secs) [==>630.0 Secs]	[1]
	4	(1809064)	(5) NGC-346-A	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				520 Secs (525 Secs) [==>525.0 Secs]	[1]



Proposal 17104 - NGC346 (15) - Repeated Stellar Wind Line Variability in O Stars in the SMC

Fri Jun 14 15:01:21 GMT 2024

Visit	Proposal 17104, NGC346 (15), implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: SCHED 70%; ORIENT 304D TO 304 D Comments: <i>UV observations of 3 long slits covering 6 massive O star dwarfs</i> Was 207.9 to 211.1 orbits after V01.										
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(3)	NGC-346-NMC-17 Alt Name1: SSN-18 Alt Name2: MPG-487	RA: 00 59 6.7498 (14.7781242d) Dec: -72 10 41.26 (-72.17813d) Equinox: J2000	Proper Motion RA: +0.809498 mas/yr Proper Motion Dec: -1.559 mas/yr Epoch of Position: 2016.0 Radial Velocity: 165 km/sec	V=14.33+/-0.07	Reference Frame: ICRS				
		Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO									
(4)	NGC-346-B	Offset from NGC-346-NMC-17 RA Offset: -0.00218222 Degrees Dec Offset: -0.00232088 Degrees		V=14.82	Offset Position (NGC-346-B)						
Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO											
(5)	NGC-346-A	Offset from NGC-346-NMC-17 RA Offset: -0.0218385 Degrees Dec Offset: 0.0013541 Degrees		V=13.13	Offset Position (NGC-346-A)						
Comments: Category=EXT-STAR Description=[MAIN SEQUENCE O] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	(1809498)	(3) NGC-346-NMC-17	STIS/CCD, ACQ, F28X50LP	MIRROR		GS ACQ SCENARI O BASE103		1 Secs (1 Secs) [==>]	[1]	
	2	(1809059)	(3) NGC-346-NMC-17	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				860 Secs (865 Secs) [==>865.0 Secs]	[1]	
	3	(1809060)	(4) NGC-346-B	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				625 Secs (630 Secs) [==>630.0 Secs]	[1]	
	4	(1809064)	(5) NGC-346-A	STIS/FUV-MAMA, ACCUM, 52X2	G140M 1540 A				520 Secs (525 Secs) [==>525.0 Secs]	[1]	

