



12562 - The UV Interstellar Extinction Properties in the Super-Solar Metallicity Galaxy M31

Cycle: 19, Proposal Category: GO
(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. Geoffrey C. Clayton (PI) (Contact)	Louisiana State University and A & M College	gclayton@fenway.phys.lsu.edu
Dr. Karl D. Gordon (CoI)	Space Telescope Science Institute	kgordon@stsci.edu
Dr. Luciana C. Bianchi (CoI)	The Johns Hopkins University	bianchi@pha.jhu.edu
Dr. Derck L. Massa (CoI)	Space Telescope Science Institute	massa@stsci.edu
Dr. Edward L. Fitzpatrick (CoI)	Villanova University	edward.fitzpatrick@villanova.edu
Dr. Michael J. Wolff (CoI)	Space Science Institute	mjwolff@spacescience.org

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) J003733.35+400036.6	STIS/CCD STIS/NUV-MAMA	1	05-Feb-2013 02:01:23.0	yes
13	(11) J004515.27+413747.9	STIS/CCD STIS/FUV-MAMA	1	05-Feb-2013 02:01:30.0	yes
52	(2) J003944.71+402056.2	STIS/CCD STIS/FUV-MAMA	1	05-Feb-2013 02:01:37.0	yes
02	(2) J003944.71+402056.2	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	05-Feb-2013 02:01:44.0	yes

Proposal 12562 (STScI Edit Number: 0, Created: Monday, February 4, 2013 9:02:59 PM EST) - 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) J003958.22+402329.0	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	05-Feb-2013 02:01:52.0	yes
04	(4) J004029.71+404429.8	STIS/CCD STIS/NUV-MAMA	1	05-Feb-2013 02:01:58.0	yes
05	(5) J004030.94+404246.9	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	05-Feb-2013 02:02:05.0	yes
06	(6) J004031.52+404501.9	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	05-Feb-2013 02:02:13.0	yes
07	(7) J004034.61+404326.1	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	05-Feb-2013 02:02:21.0	yes
08	(8) J004037.92+404333.3	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	05-Feb-2013 02:02:29.0	yes
09	(9) J004412.17+413324.2	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	05-Feb-2013 02:02:39.0	yes
10	(10) J004412.97+413328.8	STIS/CCD STIS/NUV-MAMA	1	05-Feb-2013 02:02:45.0	yes
11	(11) J004515.27+413747.9	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	05-Feb-2013 02:02:52.0	yes

21 Total Orbits Used

ABSTRACT

The plethora of new IR data from Spitzer is a great opportunity to better understand the energy budget of galaxies. It is more important than ever that the properties of the dust grains, which are so important in the absorption of stellar photons and re-emission in the IR, be characterized, so that they can be included accurately in the radiative transfer codes. Dust in Solar (Milky Way) and sub-Solar (LMC, SMC) galaxies has been well studied but little is known about dust properties in galaxies with super-Solar abundances. We will investigate what effects the super-Solar metallicity of M31 has on its dust properties and make a comparison to the dust in the Milky Way as well as the sub-Solar Magellanic Clouds. We also plan to look for the effect of the abundance gradient in M31 by observing dust over a range of galactocentric distances.

We plan to take advantage of the high sensitivity and narrow slit of STIS to obtain low resolution UV spectra (1200-3200 Å) of a sample of reddened and lightly reddened OB stars to study the wavelength dependence of interstellar extinction in M31. We will construct UV extinction curves for 7 reddened sightlines in M31 using STIS G140L and G230L spectra. This requires pairs of stars with similar spectral types but different reddenings. For the first time, there are enough luminous M31 stars with accurate spectral types to pursue this program. The Maximum Entropy Method will be used to investigate the dust composition and size distribution for the sightlines observed in this program.

OBSERVING DESCRIPTION

The number of OB stars in M31 with accurate spectral types has increased greatly in recent years. In order to get good matching pairs, we are limiting the sample range of spectral types to O7 to B3 supergiants. We have chosen 7 significantly reddened stars and 4 lightly reddened stars of similar spectral type to make our extinction pairs. The value of $(B-V)$ represents the reddening difference between the pair stars with the MW largely removed. We included 3 stars which have the added advantage that they have already been observed with STIS/G140L. These stars need only G230L spectra so we require fewer orbits and we already know that these stars are excellent targets because they have good S/N G140L spectra. The extinction curves do not require the full resolution and some binning will still allow the spectral types of the stars to be confirmed. Assuming a B0I star with $V=19.0$, if the reddening is $E(B-V) < 0.6$, then exposures in both gratings can be obtained in 1 orbit each with an average S/N > 10 if we bin 4 pixels in G140L and 8 pixels in G230L. Most of the targets are brighter and less reddened than this and so will have higher S/N. We plan to observe a total of 11 stars. The three stars that already have been observed with G140L require only 1 orbit each to get the G230L grating. The other stars require 2 orbits each. Therefore, we will use a total of 19 orbits. We have taken into account the Guide Star and STIS acquisition overheads so we expect about 2423s in the first orbit on the G230L and 3077s in the second orbit of each visit on the G140L. Since we are using the 0.2 x 0.2 slit no pickup is required. None of our sources is known to be variable. We plan each visit to be 2 orbits or fewer so it should be possible to avoid the SAA. Our targets are all O and early-B type and have V magnitudes fainter than 17, so we are nowhere near the bright limits for the MAMA|*|s.

Proposal 12562 - Visit 01 - The UV Interstellar Extinction Properties in the Super-Solar Metallicity Galaxy M31

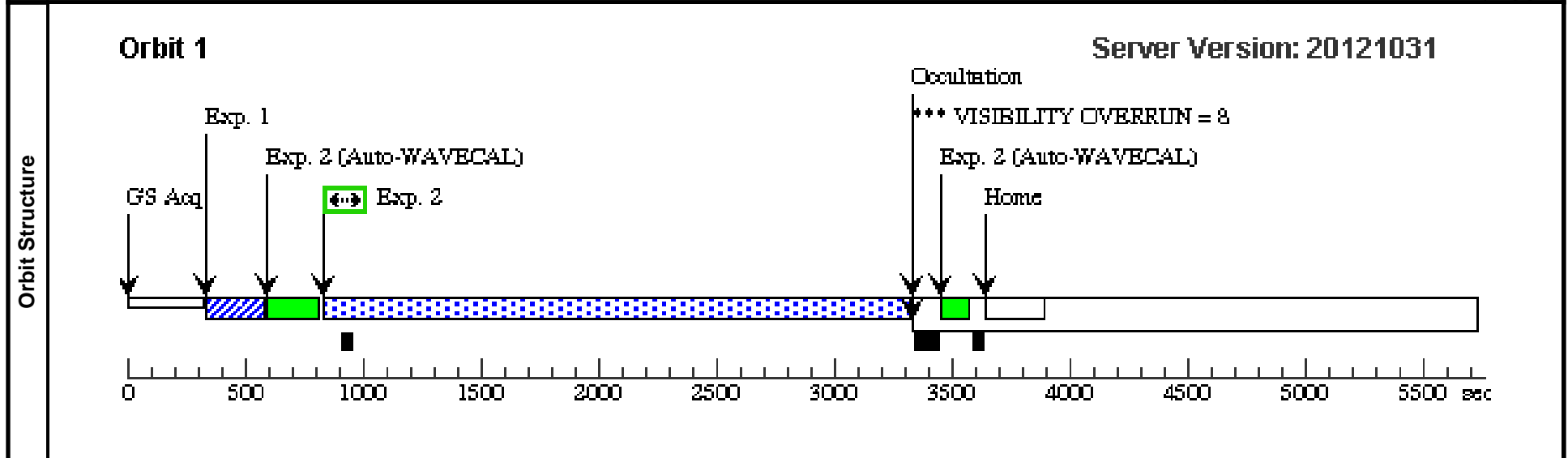
Tue Feb 05 02:03:00 GMT 2013

Visit	Proposal 12562, Visit 01, completed
	Diagnostic Status: Warning
	Scientific Instruments: STIS/CCD, STIS/NUV-MAMA
	Special Requirements: (none)

Diagnostics	(Visit 01) Warning (Orbit Planner): VISIBILITY OVERRUN
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	J003733.35+400036.6	RA: 00 37 33.3400 (9.3889167d) Dec: +40 00 36.70 (40.01019d) Equinox: J2000		V=18.16+/-0.01 B-V=-0.21, B2 Ia	Reference Frame: ICRS

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) J003733.35+40036.6	STIS/CCD, ACQ, 50CCD	MIRROR				2. Secs [=>]	[1]
	2	(STIS.sp.18 1040)	(1) J003733.35+40036.6	STIS/NUV-MAMA, ACCUM, 0.2X0.2	G230L 2376 A				2423 Secs [=>]	[1]



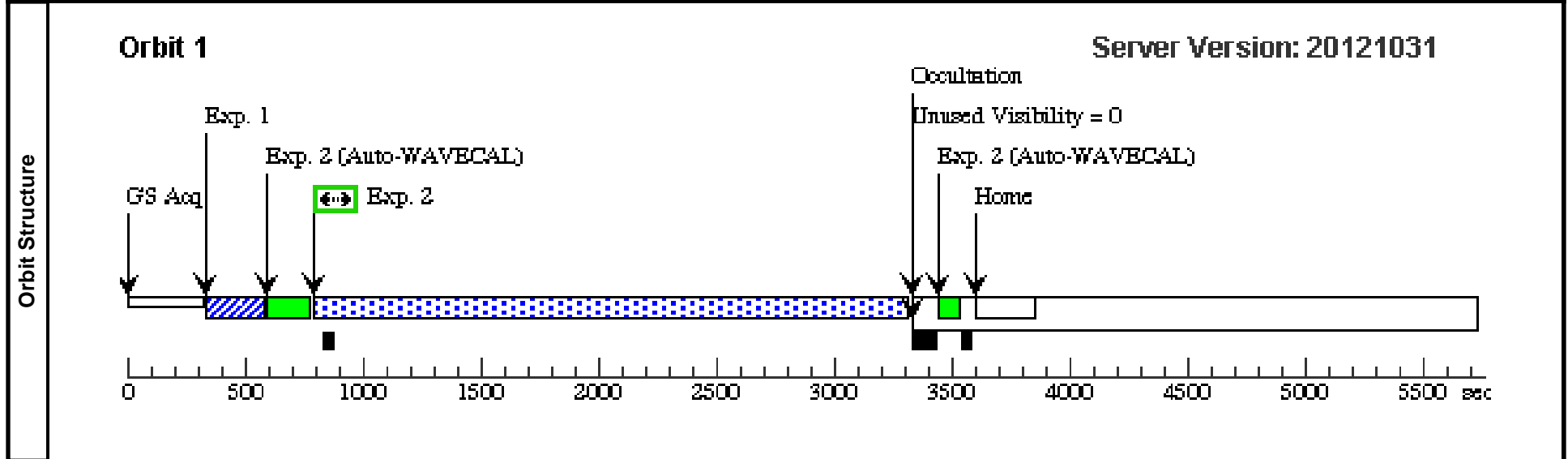
Proposal 12562 - Visit 13 - The UV Interstellar Extinction Properties in the Super-Solar Metallicity Galaxy M31

Tue Feb 05 02:03:02 GMT 2013

Visit	Proposal 12562, Visit 13, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(11)	J004515.27+413747.9	RA: 00 45 15.2700 (11.3136250d) Dec: +41 37 47.90 (41.62997d) Equinox: J2000		V=19.10+/-0.01 B-V=-0.02, O8 I	Reference Frame: ICRS

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(11) J004515.27+413747.9	STIS/CCD, ACQ, 50CCD	MIRROR				2. Secs [==>]	[1]
	2	(STIS.sp.18 1040)	(11) J004515.27+413747.9	STIS/FUV-MAMA, ACCUM, 0.2X0.2	G140L 1425 A				2423 Secs [==>2494.0 Secs]	[1]



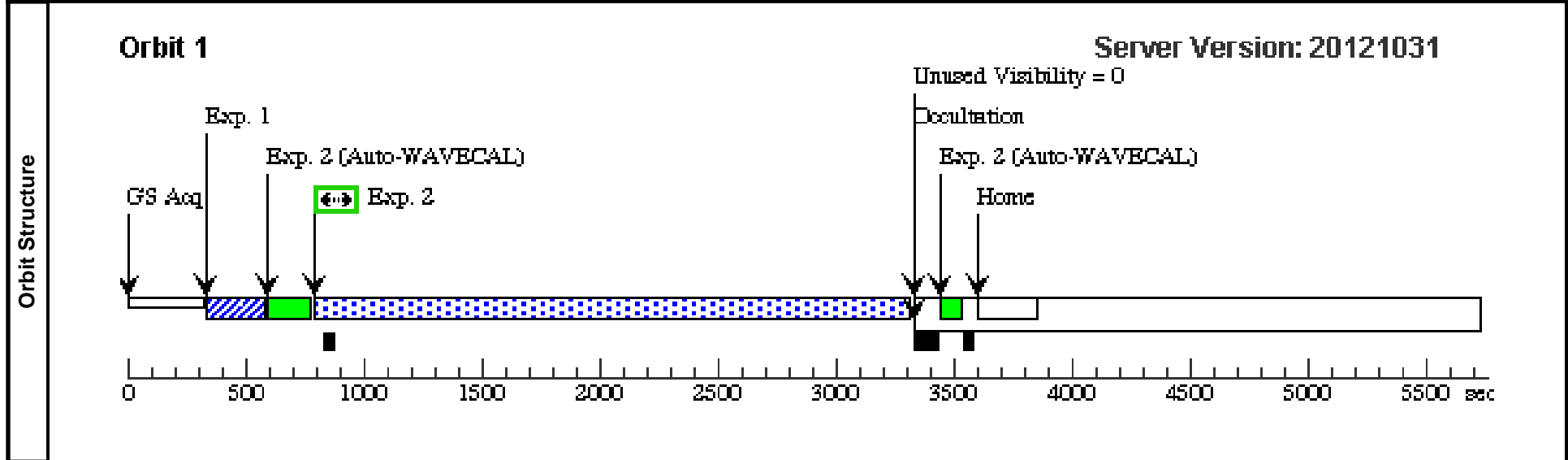
Proposal 12562 - Visit 52 - The UV Interstellar Extinction Properties in the Super-Solar Metallicity Galaxy M31

Tue Feb 05 02:03:03 GMT 2013

Visit	Proposal 12562, Visit 52				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	J003944.71+402056.2	RA: 00 39 44.7100 (9.9362917d) Dec: +40 20 56.20 (40.34894d) Equinox: J2000		V=18.20+/-0.01 B-V=0.15, O9.7Ib	Reference Frame: ICRS

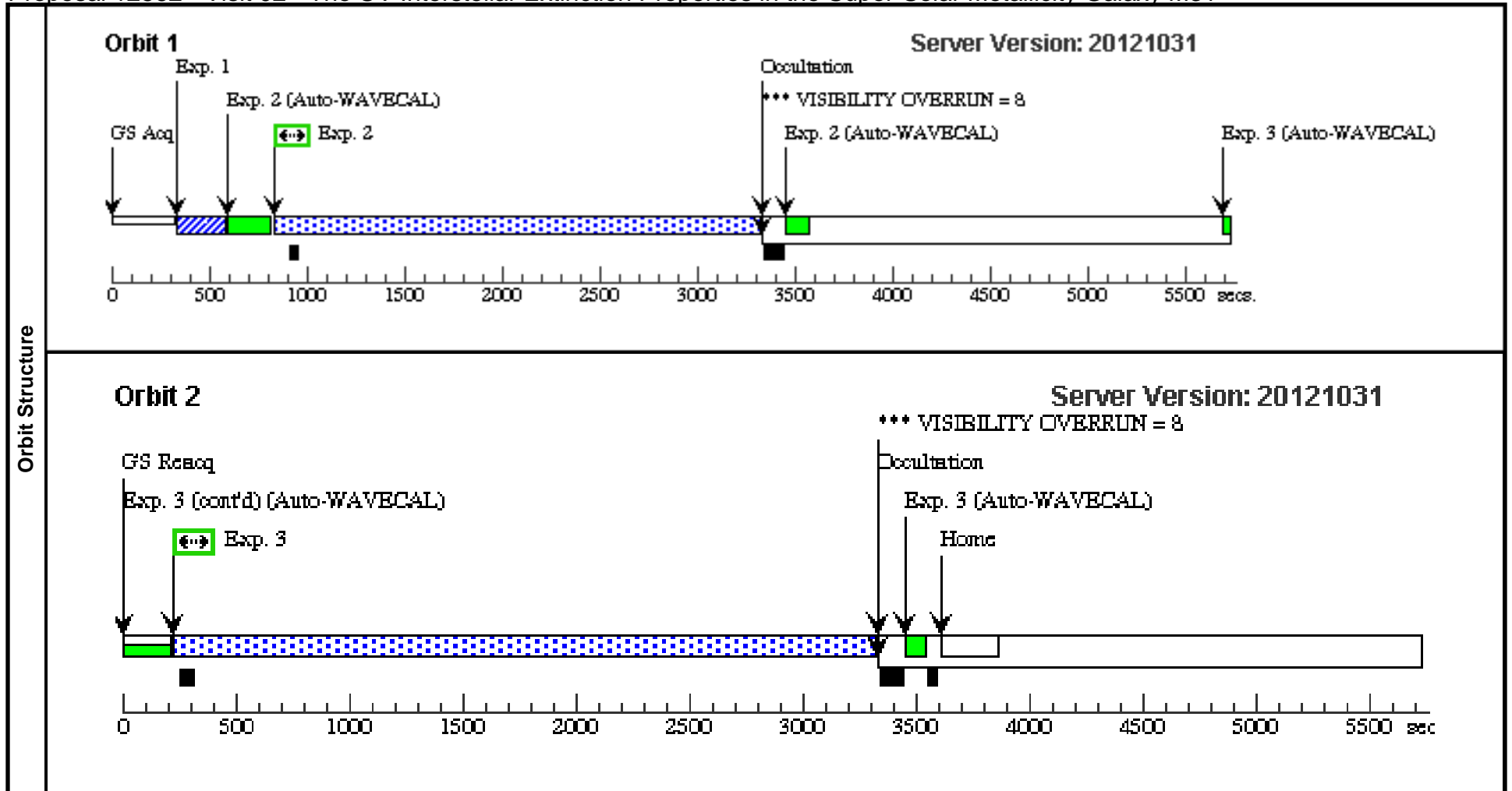
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(2) J003944.71+402056.2	STIS/CCD, ACQ, 50CCD	MIRROR				2. Secs [==>]	[1]
	2	(STIS.sp.18 1040)	(2) J003944.71+402056.2	STIS/FUV-MAMA, ACCUM, 0.2X0.2	G140L 1425 A				2423 Secs [==>2494.0 Secs]	[1]



Proposal 12562 - Visit 02 - The UV Interstellar Extinction Properties in the Super-Solar Metallicity Galaxy M31

Tue Feb 05 02:03:03 GMT 2013

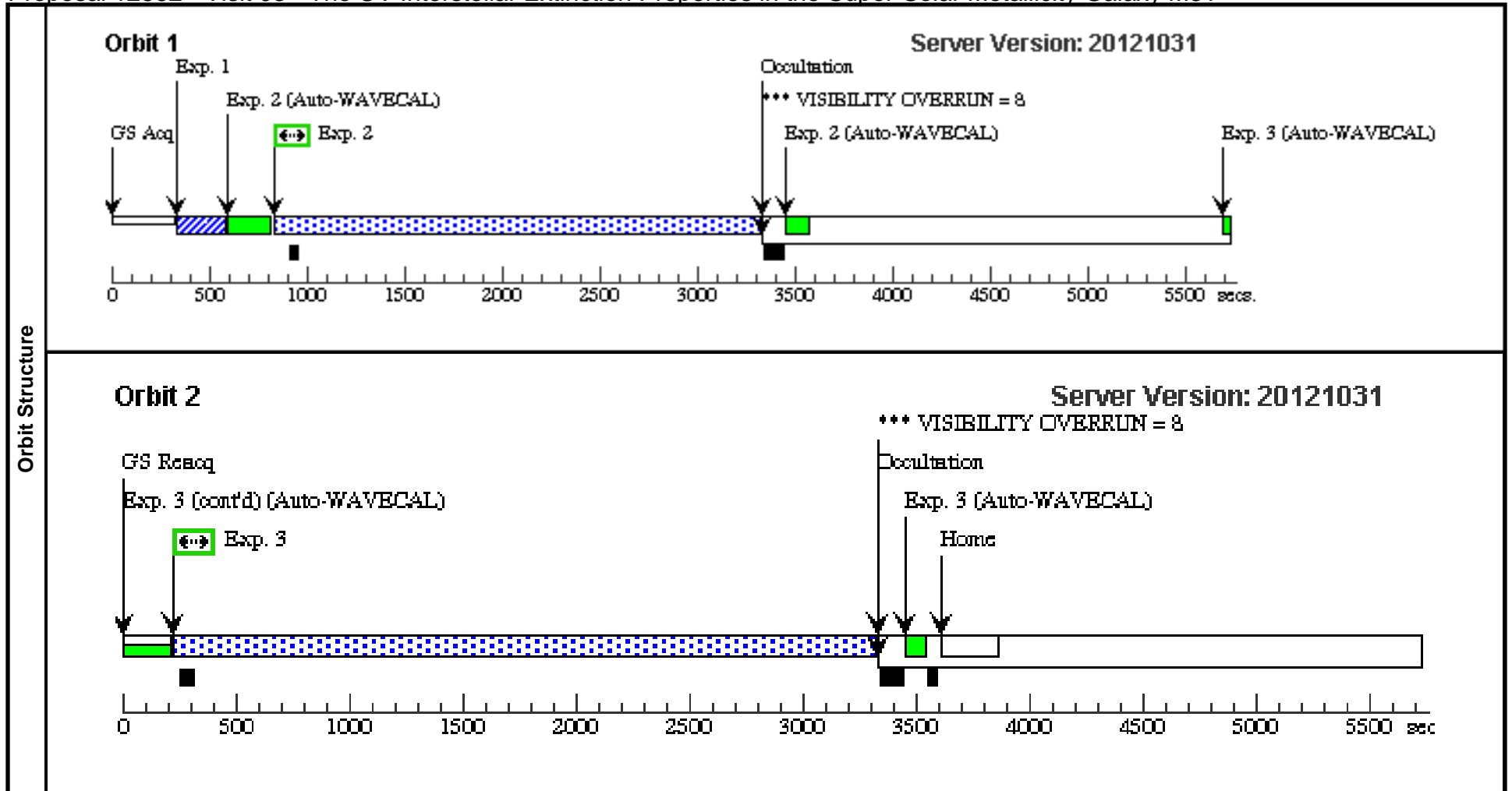
Visit	Proposal 12562, Visit 02, failed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA, STIS/NUV-MAMA Special Requirements: (none)									
	(Visit 02) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 02) Warning (Orbit Planner): VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous		
	(2)	J003944.71+402056.2	RA: 00 39 44.7100 (9.9362917d) Dec: +40 20 56.20 (40.34894d) Equinox: J2000				V=18.20+/-0.01 B-V=0.15, O9.7Ib	Reference Frame: ICRS		
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(2) J003944.71+402056.2	STIS/CCD, ACQ, 50CCD	MIRROR				2. Secs [==>]	[1]
	2	(STIS.sp.18 1102)	(2) J003944.71+402056.2	STIS/NUV-MAMA, ACCUM, 0.2X0.2	G230L 2376 A				2423 Secs [==>]	[1]
	3	(STIS.sp.18 1115)	(2) J003944.71+402056.2	STIS/FUV-MAMA, ACCUM, 0.2X0.2	G140L 1425 A				3077 Secs [==>]	[2]



Proposal 12562 - Visit 03 - The UV Interstellar Extinction Properties in the Super-Solar Metallicity Galaxy M31

Tue Feb 05 02:03:05 GMT 2013

Visit	Proposal 12562, Visit 03, scheduled Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA, STIS/NUV-MAMA Special Requirements: (none)									
	(Visit 03) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 03) Warning (Orbit Planner): VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	J003958.22+402329.0	RA: 00 39 58.2200 (9.9925833d) Dec: +40 23 29.00 (40.39139d) Equinox: J2000		V=18.97+/-0.01 B-V=0.09, B0.7 Ia	Reference Frame: ICRS				
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) J003958.22+402329.0	STIS/CCD, ACQ, 50CCD	MIRROR				2. Secs [==>]	[1]
	2	(STIS.sp.18 1105)	(3) J003958.22+402329.0	STIS/NUV-MAMA, ACCUM, 0.2X0.2	G230L 2376 A				2423 Secs [==>]	[1]
	3	(STIS.sp.18 1118)	(3) J003958.22+402329.0	STIS/FUV-MAMA, ACCUM, 0.2X0.2	G140L 1425 A				3077 Secs [==>]	[2]



Proposal 12562 - Visit 04 - The UV Interstellar Extinction Properties in the Super-Solar Metallicity Galaxy M31

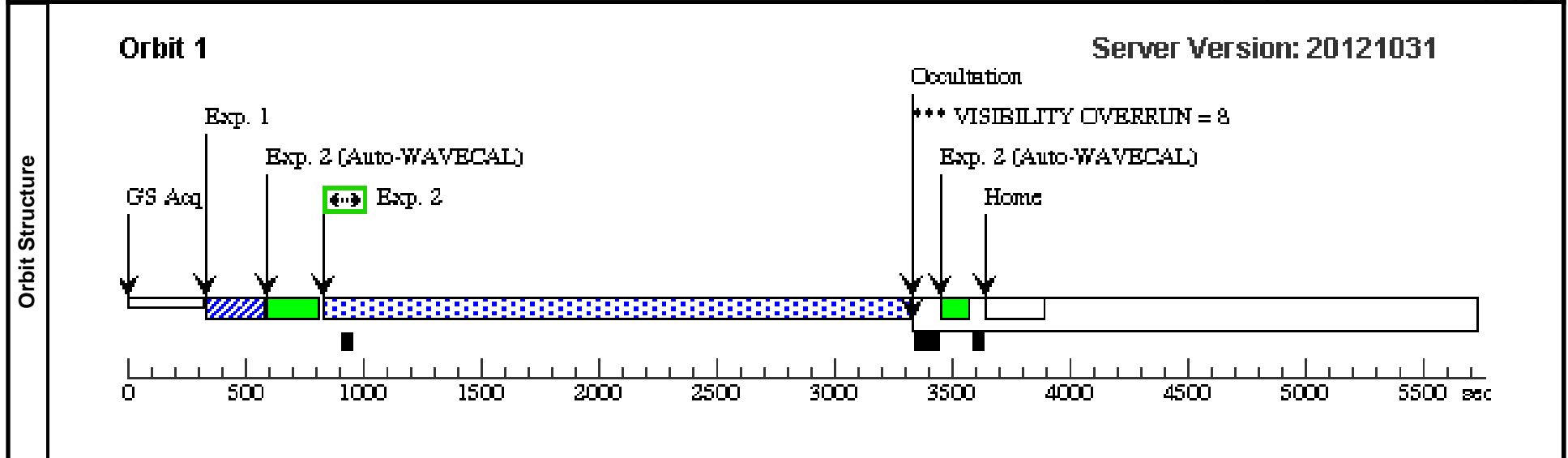
Tue Feb 05 02:03:07 GMT 2013

Visit	Proposal 12562, Visit 04, completed
	Diagnostic Status: Warning
	Scientific Instruments: STIS/CCD, STIS/NUV-MAMA
	Special Requirements: (none)

Diagnostics	(Visit 04) Warning (Orbit Planner): VISIBILITY OVERRUN
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	J004029.71+404429.8	RA: 00 40 29.7000 (10.1237500d) Dec: +40 44 28.40 (40.74122d) Equinox: J2000		V=18.63+/-0.01 B-V=-0.19, O7-7.5 Iaf	Reference Frame: ICRS

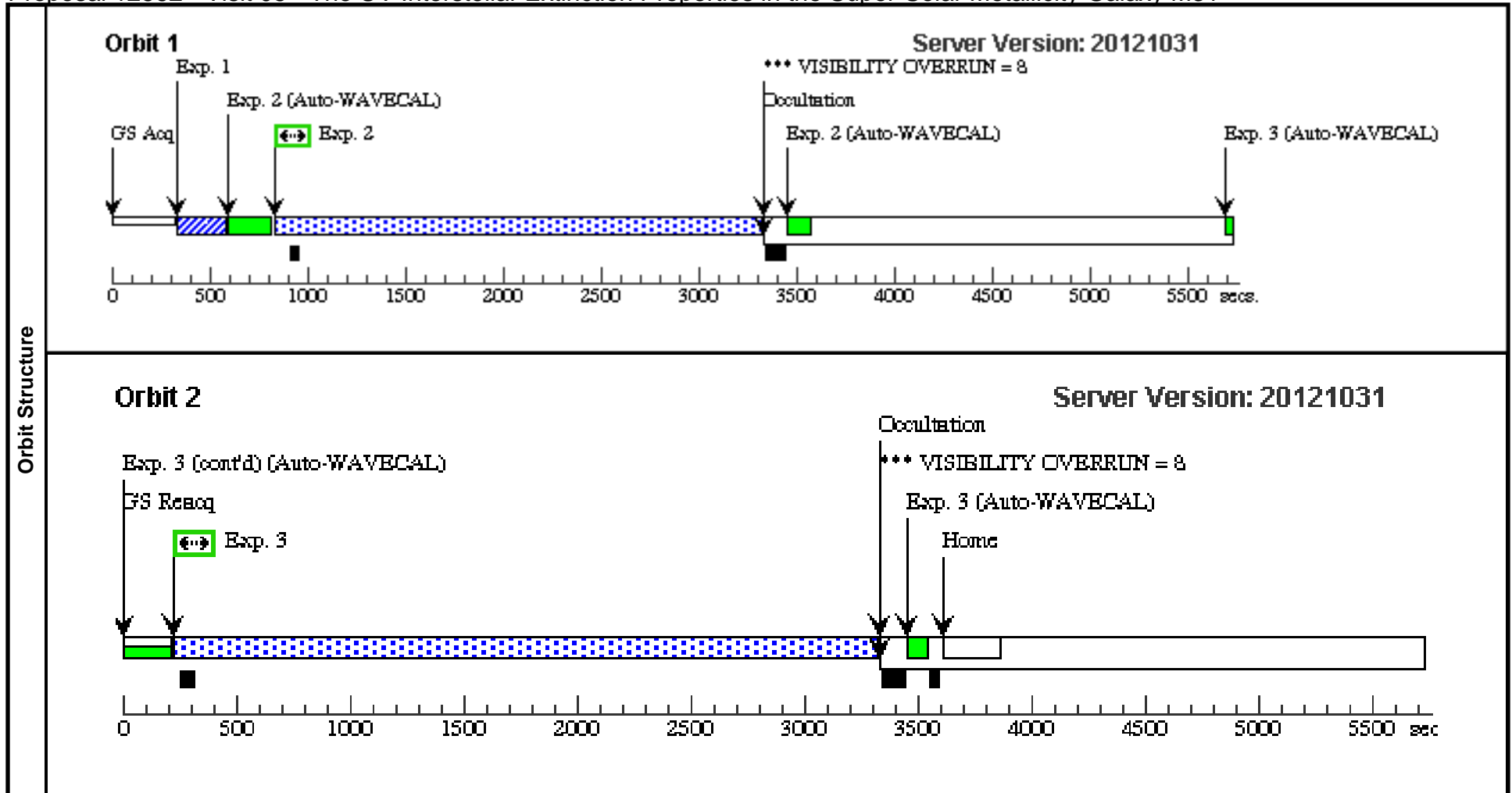
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(4) J004029.71+404429.8	STIS/CCD, ACQ, 50CCD	MIRROR				2. Secs [=>]	[1]
	2	(STIS.sp.18 1119)	(4) J004029.71+404429.8	STIS/NUV-MAMA, ACCUM, 0.2X0.2	G230L 2376 A				2423 Secs [=>]	[1]



Proposal 12562 - Visit 05 - The UV Interstellar Extinction Properties in the Super-Solar Metallicity Galaxy M31

Tue Feb 05 02:03:08 GMT 2013

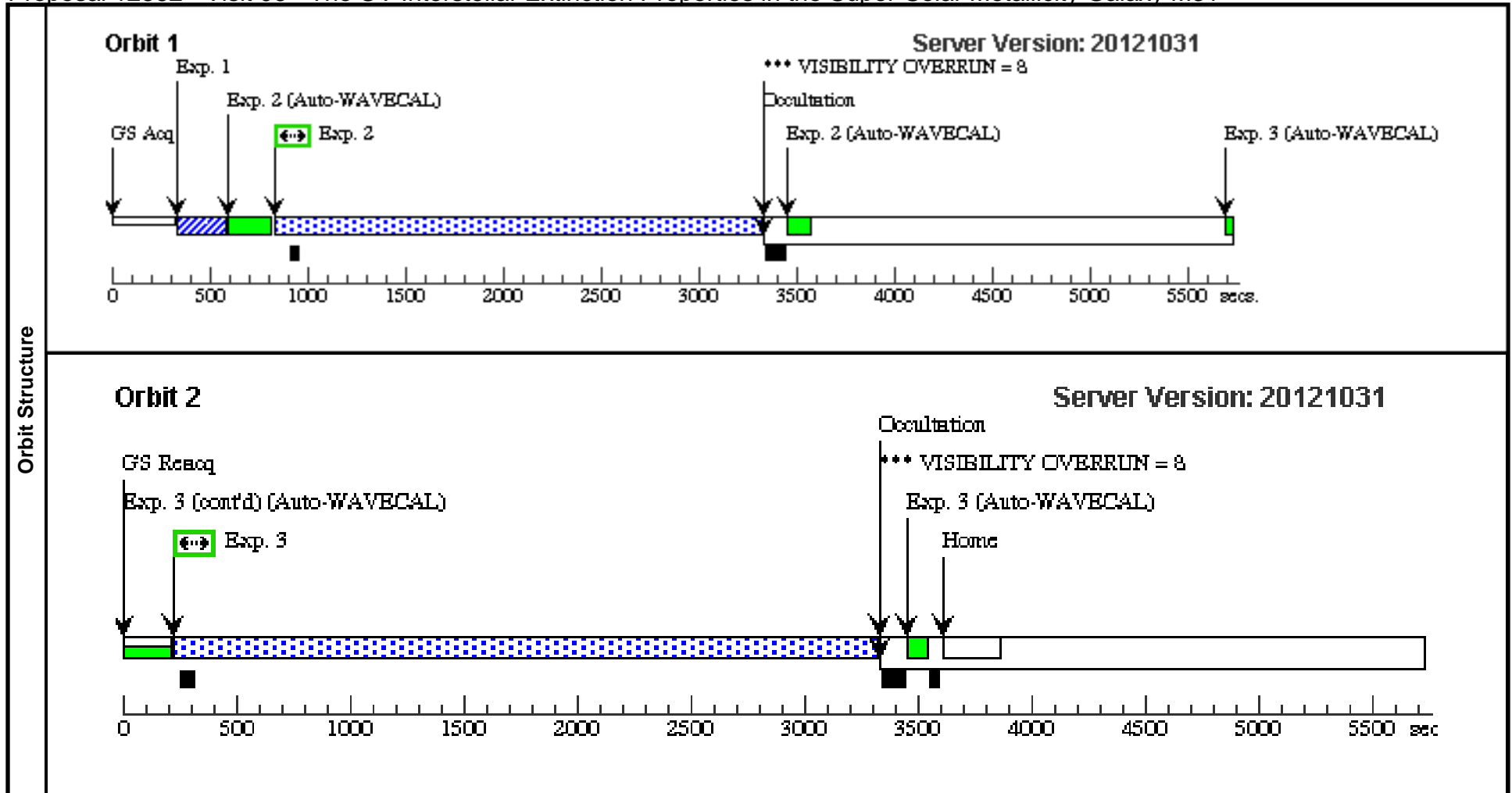
Visit	Proposal 12562, Visit 05, scheduled Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA, STIS/NUV-MAMA Special Requirements: (none)									
	(Visit 05) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 05) Warning (Orbit Planner): VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	J004030.94+404246.9	RA: 00 40 30.9400 (10.1289167d) Dec: +40 42 46.90 (40.71303d) Equinox: J2000		V=18.87+/-0.01 B-V=-0.15, O9.5 Ib	Reference Frame: ICRS				
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(5) J004030.94+404246.9	STIS/CCD, ACQ, 50CCD	MIRROR				2. Secs [==>]	[1]
	2	(STIS.sp.18 1107)	(5) J004030.94+404246.9	STIS/NUV-MAMA, ACCUM, 0.2X0.2	G230L 2376 A				2423 Secs [==>]	[1]
	3	(STIS.sp.18 1120)	(5) J004030.94+404246.9	STIS/FUV-MAMA, ACCUM, 0.2X0.2	G140L 1425 A				3077 Secs [==>]	[2]



Proposal 12562 - Visit 06 - The UV Interstellar Extinction Properties in the Super-Solar Metallicity Galaxy M31

Tue Feb 05 02:03:10 GMT 2013

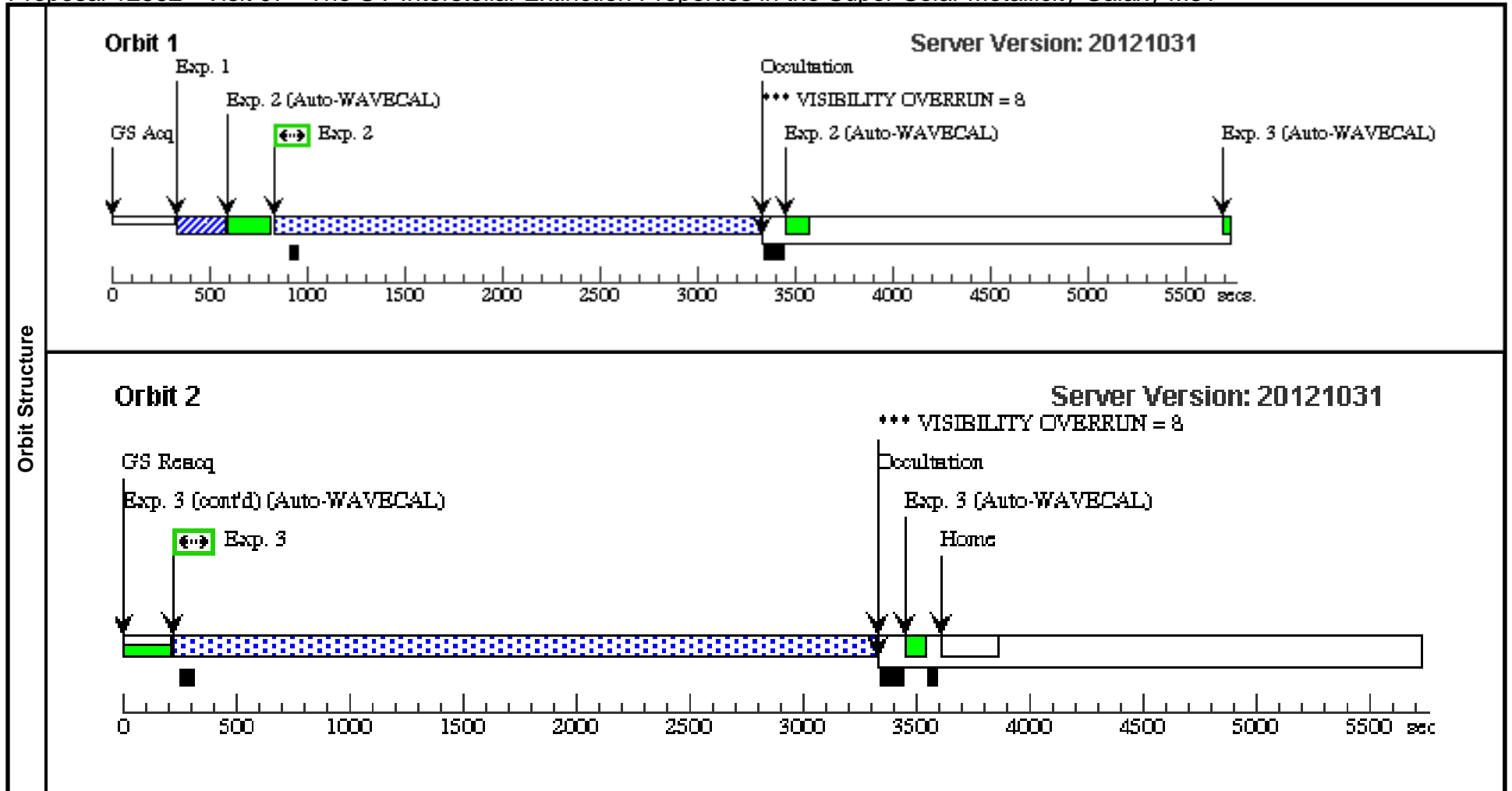
Visit	Proposal 12562, Visit 06, completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA, STIS/NUV-MAMA Special Requirements: (none)									
	(Visit 06) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 06) Warning (Orbit Planner): VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	J004031.52+404501.9	RA: 00 40 31.5200 (10.1313333d) Dec: +40 45 1.90 (40.75053d) Equinox: J2000		V=18.92+/-0.01 B-V=-0.15, B0.5 Ia	Reference Frame: ICRS				
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(6) J004031.52+404501.9	STIS/CCD, ACQ, 50CCD	MIRROR				2. Secs [==>]	[1]
	2	(STIS.sp.18 1110)	(6) J004031.52+404501.9	STIS/NUV-MAMA, ACCUM, 0.2X0.2	G230L 2376 A				2423 Secs [==>]	[1]
	3	(STIS.sp.18 1121)	(6) J004031.52+404501.9	STIS/FUV-MAMA, ACCUM, 0.2X0.2	G140L 1425 A				3077 Secs [==>]	[2]



Proposal 12562 - Visit 07 - The UV Interstellar Extinction Properties in the Super-Solar Metallicity Galaxy M31

Tue Feb 05 02:03:12 GMT 2013

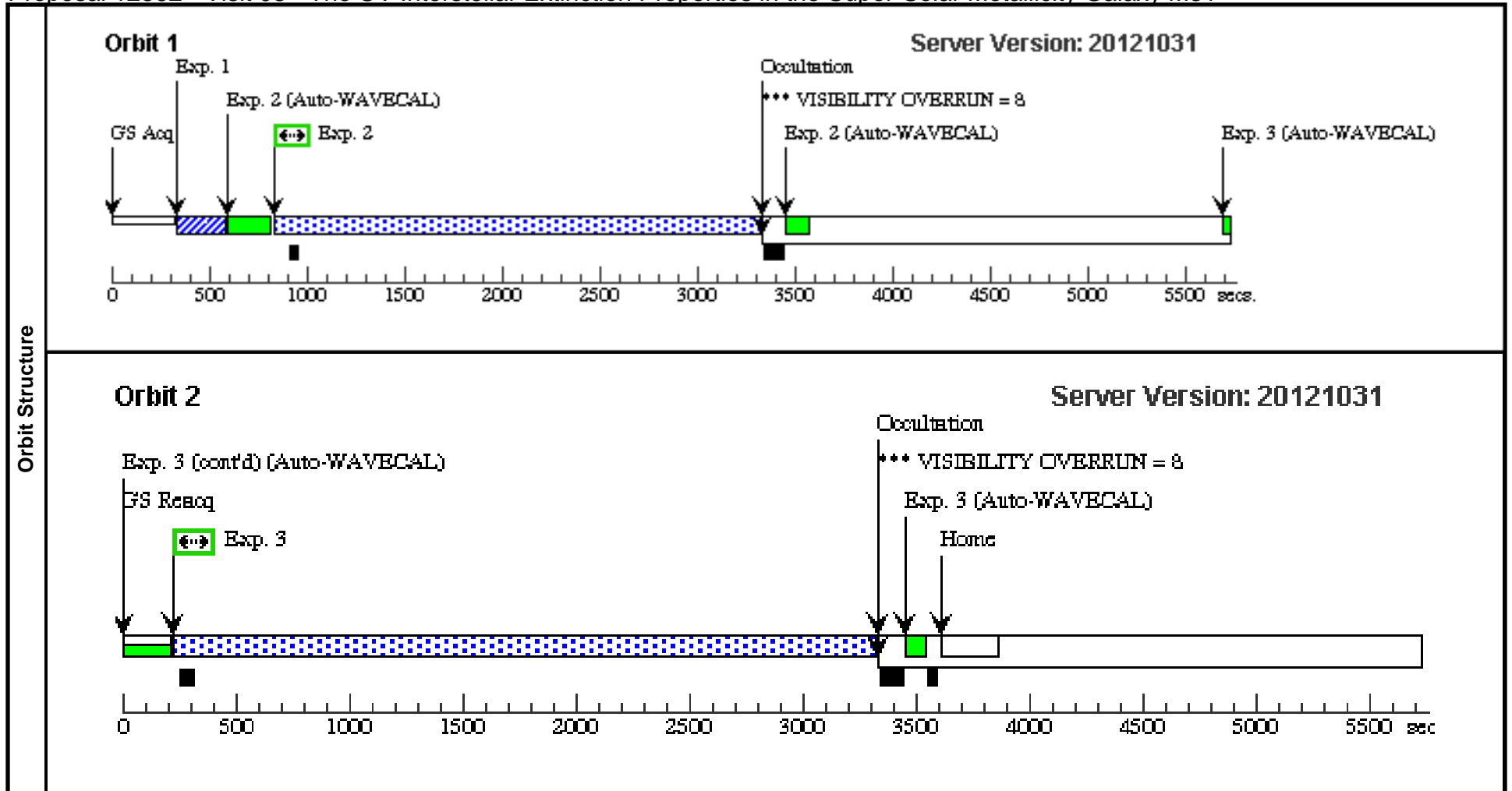
Visit	Proposal 12562, Visit 07, scheduled Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA, STIS/NUV-MAMA Special Requirements: (none)									
	(Visit 07) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 07) Warning (Orbit Planner): VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	J004034.61+404326.1	RA: 00 40 34.6100 (10.1442083d) Dec: +40 43 26.10 (40.72392d) Equinox: J2000		V=18.67+/-0.01 B-V=0.15, B1 Ia	Reference Frame: ICRS				
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(7) J004034.61+404326.1	STIS/CCD, ACQ, 50CCD	MIRROR				2. Secs [==>]	[1]
	2	(STIS.sp.18 1112)	(7) J004034.61+404326.1	STIS/NUV-MAMA, ACCUM, 0.2X0.2	G230L 2376 A				2423 Secs [==>]	[1]
	3	(STIS.sp.18 1122)	(7) J004034.61+404326.1	STIS/FUV-MAMA, ACCUM, 0.2X0.2	G140L 1425 A				3077 Secs [==>]	[2]



Proposal 12562 - Visit 08 - The UV Interstellar Extinction Properties in the Super-Solar Metallicity Galaxy M31

Tue Feb 05 02:03:13 GMT 2013

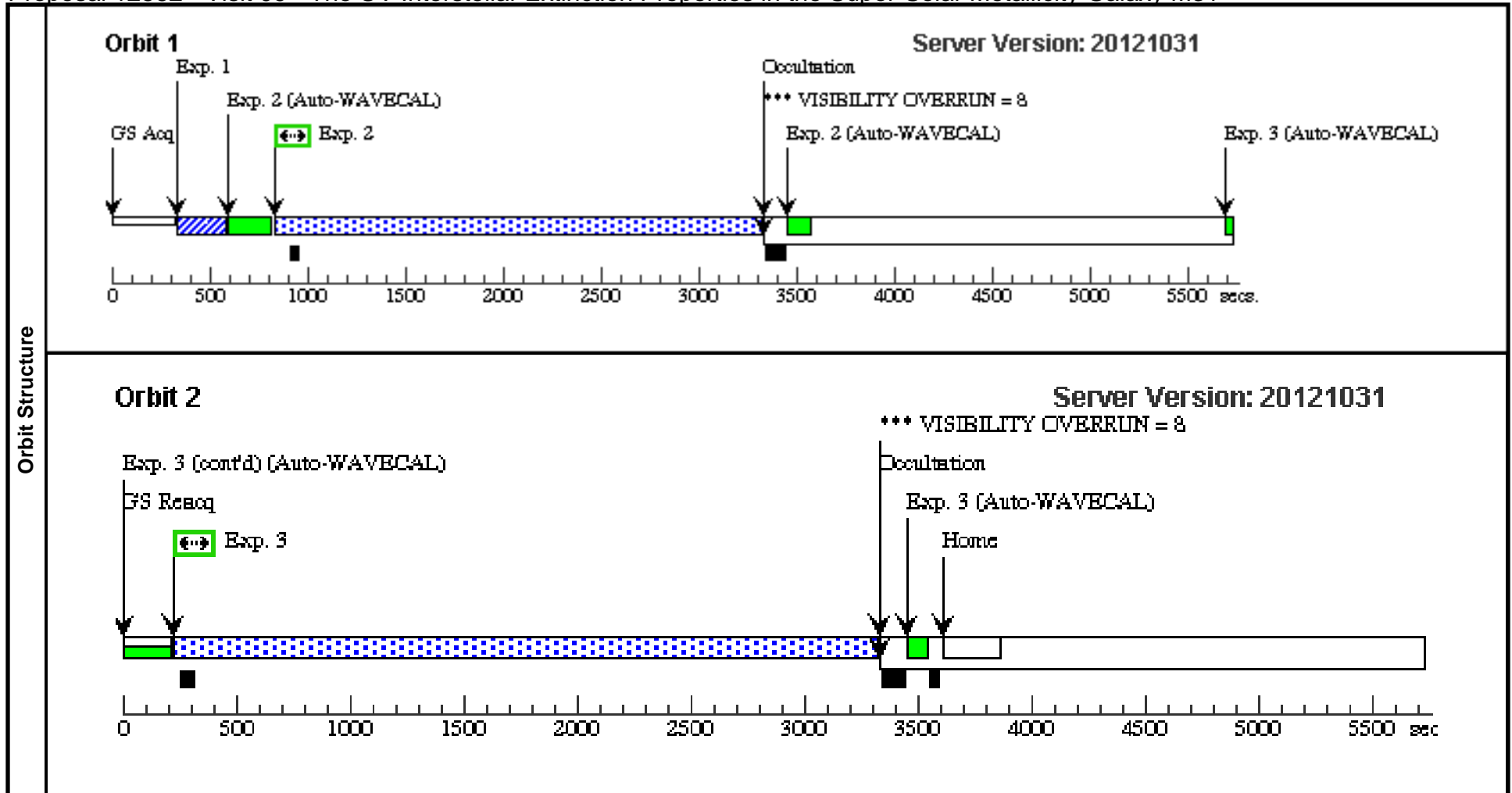
Visit	Proposal 12562, Visit 08, scheduled Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA, STIS/NUV-MAMA Special Requirements: (none)									
	(Visit 08) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 08) Warning (Orbit Planner): VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	J004037.92+404333.3	RA: 00 40 37.9200 (10.1580000d) Dec: +40 43 33.30 (40.72592d) Equinox: J2000		V=18.66+/-0.01 B-V=0.06, B1.5 Ia	Reference Frame: ICRS				
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(8) J004037.92+404333.3	STIS/CCD, ACQ, 50CCD	MIRROR				2. Secs [==>]	[1]
	2	(STIS.sp.18 1191)	(8) J004037.92+404333.3	STIS/NUV-MAMA, ACCUM, 0.2X0.2	G230L 2376 A				2423 Secs [==>]	[1]
	3	(STIS.sp.18 1190)	(8) J004037.92+404333.3	STIS/FUV-MAMA, ACCUM, 0.2X0.2	G140L 1425 A				3077 Secs [==>]	[2]



Proposal 12562 - Visit 09 - The UV Interstellar Extinction Properties in the Super-Solar Metallicity Galaxy M31

Tue Feb 05 02:03:15 GMT 2013

Visit	Proposal 12562, Visit 09, completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA, STIS/NUV-MAMA Special Requirements: (none)									
	(Visit 09) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 09) Warning (Orbit Planner): VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	J004412.17+413324.2	RA: 00 44 12.1700 (11.0507083d) Dec: +41 33 24.20 (41.55672d) Equinox: J2000		V=17.33+/-0.01 B-V=0.35, B2.5 Ia	Reference Frame: ICRS				
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(9) J004412.17+413324.2	STIS/CCD, ACQ, 50CCD	MIRROR				2. Secs [==>]	[1]
	2	(STIS.sp.18 1192)	(9) J004412.17+413324.2	STIS/NUV-MAMA, ACCUM, 0.2X0.2	G230L 2376 A				2423 Secs [==>]	[1]
	3	(STIS.sp.18 1193)	(9) J004412.17+413324.2	STIS/FUV-MAMA, ACCUM, 0.2X0.2	G140L 1425 A				3077 Secs [==>]	[2]



Proposal 12562 - Visit 10 - The UV Interstellar Extinction Properties in the Super-Solar Metallicity Galaxy M31

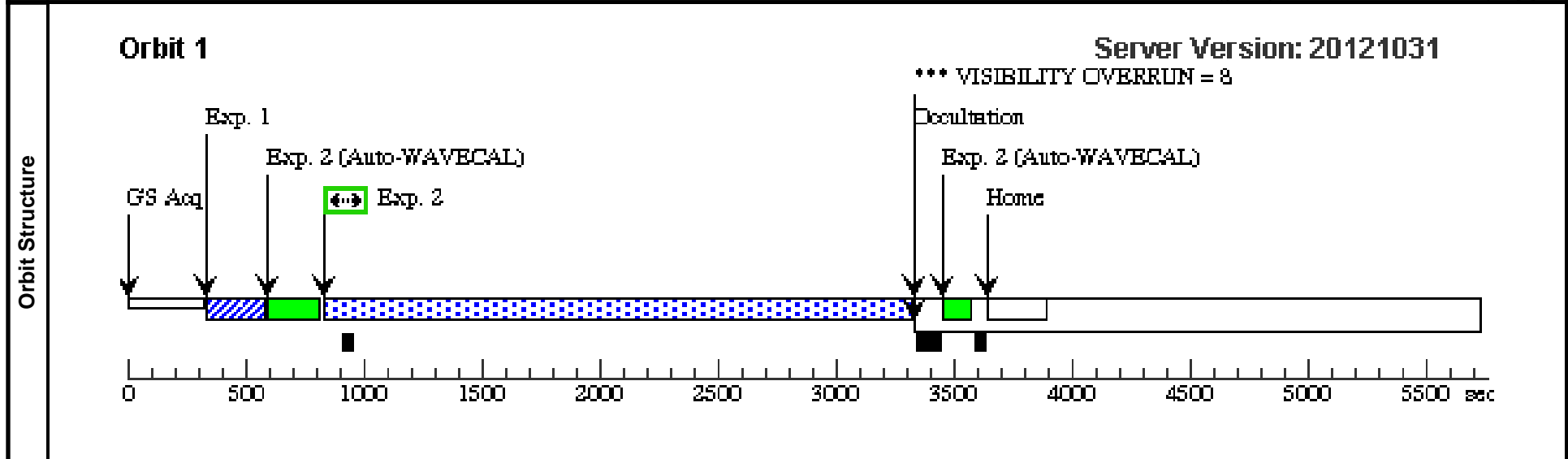
Tue Feb 05 02:03:17 GMT 2013

Visit	Proposal 12562, Visit 10, completed
	Diagnostic Status: Warning
	Scientific Instruments: STIS/CCD, STIS/NUV-MAMA
	Special Requirements: (none)

Diagnostics	(Visit 10) Warning (Orbit Planner): VISIBILITY OVERRUN
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(10)	J004412.97+413328.8	RA: 00 44 12.9700 (11.0540417d) Dec: +41 33 28.80 (41.55800d) Equinox: J2000		V=19.18+/-0.01 B-V=-0.04, O8.5 Ia(f)	Reference Frame: ICRS

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(10) J004412.97+41 3328.8	STIS/CCD, ACQ, 50CCD	MIRROR				2. Secs [=>]	[1]
	2	(STIS.sp.18 1194)	(10) J004412.97+41 3328.8	STIS/NUV-MAMA, ACCUM, 0.2X0.2	G230L 2376 A				2423 Secs [=>]	[1]



Proposal 12562 - Visit 11 - The UV Interstellar Extinction Properties in the Super-Solar Metallicity Galaxy M31

Tue Feb 05 02:03:17 GMT 2013

Visit	Proposal 12562, Visit 11, failed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA, STIS/NUV-MAMA Special Requirements: (none)									
	(Visit 11) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 11) Warning (Orbit Planner): VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(11)	J004515.27+413747.9	RA: 00 45 15.2700 (11.3136250d) Dec: +41 37 47.90 (41.62997d) Equinox: J2000		V=19.10+/-0.01 B-V=-0.02, O8 I	Reference Frame: ICRS				
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(11) J004515.27+41 3747.9	STIS/CCD, ACQ, 50CCD	MIRROR				2. Secs [==>]	[1]
	2	(STIS.sp.18 1195)	(11) J004515.27+41 3747.9	STIS/NUV-MAMA, ACCUM, 0.2X0.2	G230L 2376 A				2423 Secs [==>]	[1]
	3	(STIS.sp.18 1196)	(11) J004515.27+41 3747.9	STIS/FUV-MAMA, ACCUM, 0.2X0.2	G140L 1425 A				3077 Secs [==>]	[2]

