



12236 - The Nuclear to Global Connection: a Detailed View of Compact Stellar Nuclei in a Complete Sample of Virgo Ellipticals

Cycle: 18, Proposal Category: GO

(Availability Mode: AVAILABLE)

INVESTIGATORS

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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) VCC-1720 NONE	STIS/CCD	2	18-Jun-2013 21:01:38.0	yes
02	(2) VCC-1619 NONE	STIS/CCD	1	18-Jun-2013 21:01:50.0	yes
03	(3) VCC-784 NONE	STIS/CCD	2	18-Jun-2013 21:02:02.0	yes
04	(4) VCC-828 NONE	STIS/CCD	2	18-Jun-2013 21:02:16.0	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>
05	(5) VCC-1630 NONE	STIS/CCD	1	18-Jun-2013 21:02:25.0	yes
06	(6) VCC-1146 NONE	STIS/CCD	1	18-Jun-2013 21:02:34.0	yes
07	(7) VCC-1871 NONE	STIS/CCD	2	18-Jun-2013 21:02:44.0	yes
08	(8) VCC-856 NONE	STIS/CCD	3	18-Jun-2013 21:02:58.0	yes
09	(9) VCC-1192 NONE	STIS/CCD	3	18-Jun-2013 21:03:14.0	yes
10	(9) VCC-1192 NONE	STIS/CCD	3	18-Jun-2013 21:03:34.0	yes
11	(10) VCC-1627 NONE	STIS/CCD	3	18-Jun-2013 21:03:49.0	yes
12	(11) VCC-1199 NONE	STIS/CCD	5	18-Jun-2013 21:04:11.0	yes
13	(11) VCC-1199 NONE	STIS/CCD	5	18-Jun-2013 21:04:36.0	yes
23	(11) VCC-1199 NONE	STIS/CCD	4	18-Jun-2013 21:05:01.0	yes

37 Total Orbits Used

ABSTRACT

Recent HST observations have unveiled the presence of compact stellar nuclei in a large fraction of galaxies across the entire Hubble sequence. These nuclei may be the low-mass analogues of the supermassive black holes found in bright galaxies, and part of the wider class of central massive objects believed to exist in virtually every galaxy. Understanding the history of gas accretion, star formation, and chemical enrichment of compact stellar nuclei has thus emerged as key to the study of galactic cores and gaining further insight into the overall galactic structure. Despite this, there have been no spectroscopic studies of the stellar populations of nuclei in early-type galaxies to date, due to the difficulty of observing compact (~ 0.1 arcsec) nuclei projected against a bright galaxy background. HST is the only telescope capable of rectifying this. Accordingly, we propose to capitalize on the exceptional spatial resolution of STIS to obtain spectra of a complete sample of 11 nuclei in early-type galaxies located in the

nearby Virgo cluster. These spectra will be fully leveraged using HST IR, optical, and UV imaging already in hand to measure the masses and provide the most complete picture currently possible of the history of star formation and chemical enrichment of these surprisingly commonplace objects. This window into the nature of nuclei is crucial to our understanding of how processes in the innermost regions can reflect and impact galaxies as a whole.

OBSERVING DESCRIPTION

Note: This is taken/edited from the Phase I proposal:

Our aim is to obtain high spatial resolution STIS spectroscopy for stellar nuclei (i.e. nuclear star clusters) in early-type galaxies. To unveil possible trends in the stellar population content and star formation history of the nuclei, our complete sample spans as large a range as feasible in host galaxy magnitude and nucleus color, size, and magnitude. The targets have been selected from the ACS Virgo Cluster Survey (ACSVCS).

We will use the STIS/G430L grating to obtain spectral coverage from 3000 to 5700 Angstroms. This region is critical for our purposes, as it includes spectral features providing the strongest constraints on the stellar population (e.g., Ca H and K, CaI, G band, H-delta, H-gamma, H-beta, FeI, MgI). The slit will be centered on the nucleus and aligned with the major axis of the galaxy (inasmuch as visibility and guide star acquisition allows). To achieve the highest contrast against the underlying galaxy background while still providing enough nuclear light to obtain good S/N spectra, the nuclei will be observed with the 52" x 0."2E1 slit. All data will be binned by four pixels in the spatial direction before readout to improve S/N.

Based on our experience using spectral population model fitting to analyze stellar populations and star formation histories of galactic nuclei (e.g., Sarzi et al. 2005) it is necessary for the nuclear (nucleus plus galaxy) spectrum to reach a S/N of at least 30 per resolution element at 4450 Angstroms. This is illustrated by Rossa et al. (2006; Proposals 9070 and 9783) who also used STIS/G430L spectra to perform a similar analysis on nuclei in spiral galaxies. Unfortunately, due to insufficient S/N (less than ~ 10 per resolution element) they were unable to use the spectra of more than half of their nuclei in their full analysis.

Using the on-line STIS Exposure Time Calculator, all nuclei from the ACSVCS were evaluated for feasibility. Given the calculated exposure times and overheads (see below), the 11 nuclei in the ACSVCS that can be observed with the required S/N in ten orbits or less have been selected as targets for this program. They span a broad range of colors and sizes, and are magnitude-limited down to $g_{\text{nuc}} \sim 19.5$ mag. Note that the two targets requiring more than 5 orbits will be divided into two visits of 5 orbits or less.

In order to determine where the nuclei fell within the slit, a brief 30 second image of each target through the 52"x0."2E1 slit will be obtained, as well as an image of the tungsten lamp through the 52"x0."2 slit in order to determine the edges of the slit.

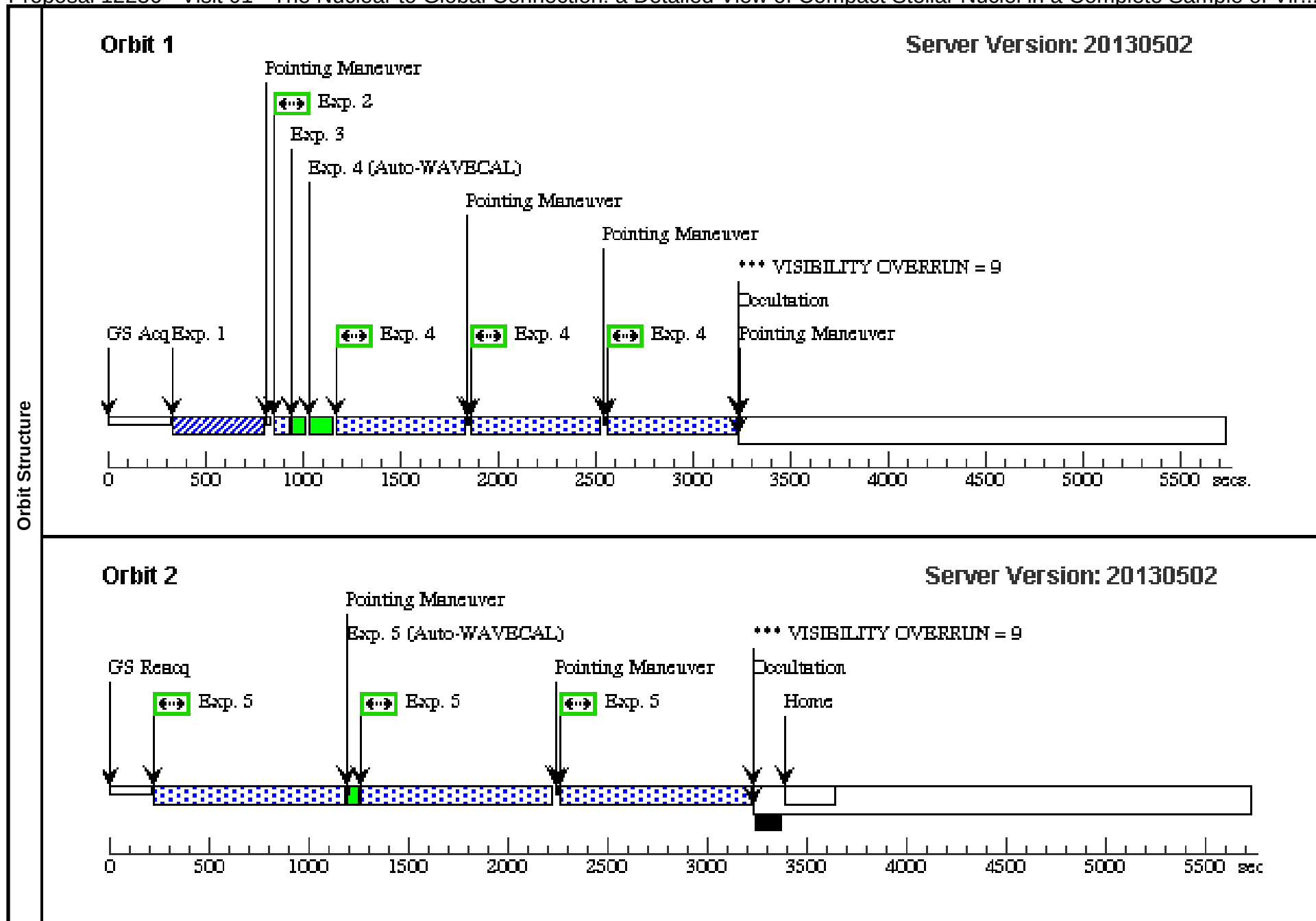
VCC	Bgal (mag)	gnuc (mag)	(gz)nuc (mag)	rh,nuc (arcsec)	Orbits
1720	12.29	18.40	1.57	0.09	2
1619	12.50	17.15	1.55	0.32	1
784	12.67	18.34	1.66	0.16	2
828	12.84	18.53	1.57	0.21	2
1630	12.91	17.40	1.68	0.50	1
1146	12.93	15.38	1.42	0.78	1
1871	13.86	18.74	1.25	0.13	2
856	14.25	18.98	1.12	0.16	3
1192	15.04	19.10	1.19	0.12	6
1627	15.16	18.84	1.44	0.20	3
1199	15.50	19.76	1.36	0.08	10

Proposal 12236 - Visit 01 - The Nuclear to Global Connection: a Detailed View of Compact Stellar Nuclei in a Complete Sample of Vir...

Visit	Proposal 12236, Visit 01, completed Wed Jun 19 01:05:13 GMT 2013			
	Diagnostic Status: Warning Scientific Instruments: STIS/CCD Special Requirements: PCS MODE FINE; ORIENT 52D TO 103 D; ORIENT 232D TO 283 D			
Diagnostics	(Visit 01) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 01) Warning (Orbit Planner): VISIBILITY OVERRUN			
Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=STIS-ALONG-SLIT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=90.0 Number Of Points=3 Angle Between Sides= Point Spacing=0.2028 Center Pattern=false Line Spacing=		(4), (5)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections
	(1)	VCC-1720	RA: 12 37 30.5653 (189.3773554d)	Fluxes
		Alt Name1: NGC4578	Dec: +09 33 18.42 (9.55512d)	Miscellaneous
			Equinox: J2000	
		Comments: This object was generated by the target selector and retrieved from the NED database. Coordinates from HLA F475W images corrected using GSC2. The V-band magnitude given is the galaxy's total integrated magnitude from the Virgo Cluster Catalogue (Binggeli et al. 1985), converted from the B-band using Fukugita et al. (1995). As such, it is a "worst case scenario" situation in terms of brightness (i.e. much much brighter than what will actually be entering the slit).		

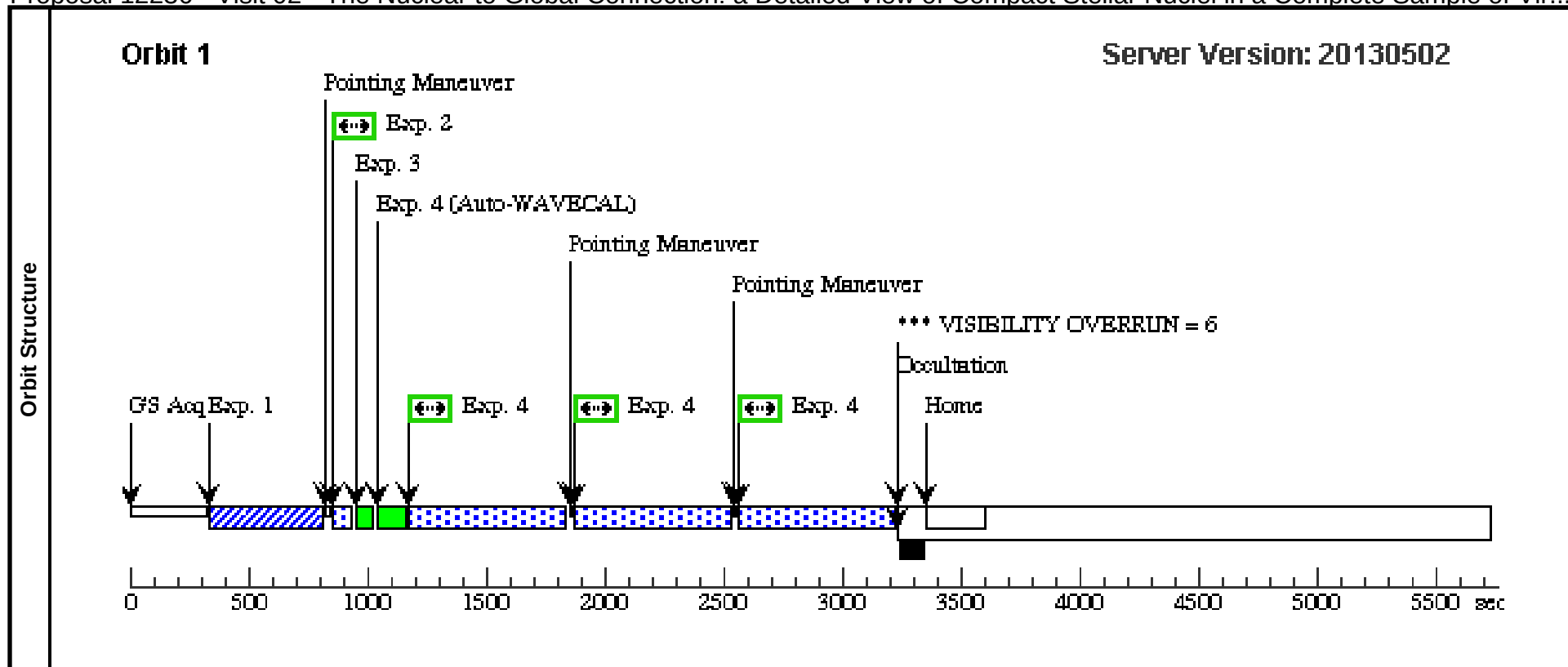
Proposal 12236 - Visit 01 - The Nuclear to Global Connection: a Detailed View of Compact Stellar Nuclei in a Complete Sample of Vir...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	VCC 1720 ACQ	(1) VCC-1720	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=3; DIFFUSE-CENTER=FLUX-CENTROID			60 Secs (60 Secs) [==>]	[1]
	2	VCC 1720 image through the slit	(1) VCC-1720	STIS/CCD, ACCUM, 52X0.2E1	MIRROR	BINAXIS1=1; BINAXIS2=1; CR-SPLIT=NO; GAIN=1			30 Secs (30 Secs) [==>30.0 Secs]	[1]
	Comments: An image of the galaxy through the slit, to be observed after the acquisition sequence to verify where the nucleus is located on the CCD.									
	3	Lamp image through slit (for VCC 1720 visit)	NONE	STIS/CCD, ACCUM, 52X0.2	MIRROR	LAMP=TUNGSTEN			0.2 Secs (0.2 Secs) [==>]	[1]
	Comments: Image of lamp through slit in order to determine slit edges.									
	4	VCC 1720 Science Exposure	(1) VCC-1720	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 4-4 in Visit 01 (1)	650 Secs (1942 Secs) [==>648.0 Secs (Pattern 1)] [==>647.0 Secs (Pattern 2)] [==>647.0 Secs (Pattern 3)]	[1]
	5	VCC 1720 Science Exposure	(1) VCC-1720	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 5-5 in Visit 01 (1)	750 Secs (2835 Secs) [==>945.0 Secs (Pattern 1)] [==>945.0 Secs (Pattern 2)] [==>945.0 Secs (Pattern 3)]	[2]



Proposal 12236 - Visit 02 - The Nuclear to Global Connection: a Detailed View of Compact Stellar Nuclei in a Complete Sample of Vir...

Visit	Proposal 12236, Visit 02, completed										Wed Jun 19 01:05:16 GMT 2013
	Diagnostic Status: Warning										
	Scientific Instruments: STIS/CCD										
	Special Requirements: ORIENT 349D TO 100 D; ORIENT 169D TO 280 D										
Diagnostics	(Visit 02) Warning (Orbit Planner): VISIBILITY OVERRUN										
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=STIS-ALONG-SLIT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=90.0 Number Of Points=3 Angle Between Sides= Point Spacing=0.2028 Center Pattern=false Line Spacing=								(4)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(2)	VCC-1619	RA: 12 35 30.6168 (188.8775700d)				V=11.54		Reference Frame: ICRS		
		Alt Name1: NGC4550	Dec: +12 13 14.52 (12.22070d)								
			Equinox: J2000								
	Comments: This object was generated by the targetselector and retrieved from the NED database. Coordinates from HLA F475W images corrected using GSC2. The V-band magnitude given is the galaxy's total integrated magnitude from the Virgo Cluster Catalogue (Binggeli et al. 1985), converted from the B-band using Fukugita et al. (1995). As such, it is a "worst case scenario" situation in terms of brightness (i.e. much much brighter than what will actually be entering the slit).										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	VCC 1619 ACQ	(2) VCC-1619	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; SE; CHECKBOX=7; DIFFUSE-CENTER=FLUX-CENTROID			60 Secs (60 Secs) [==>]		[1]
	2	VCC 1619 image through the slit	(2) VCC-1619	STIS/CCD, ACCUM, 52X0.2E1	MIRROR	BINAXIS1=1; BINAXIS2=1; CR-SPLIT=NO; GAIN=1			30 Secs (30 Secs) [==>30.0 Secs]		[1]
	Comments: An image of the galaxy through the slit, to be observed after the acquisition sequence to verify where the nucleus is located on the CCD.										
	3	Lamp image through slit (for VCC 1619 visit)	NONE	STIS/CCD, ACCUM, 52X0.2	MIRROR	LAMP=TUNGSTEN			0.2 Secs (0.2 Secs) [==>]		[1]
	Comments: Image of lamp through slit in order to determine slit edges.										
	4	VCC 1619 Science Exposure	(2) VCC-1619	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	BINAXIS1=1; BINAXIS2=4; CR-SPLIT=NO; GAIN=1		Pattern 1, Exps 4-4 in Visit 02 (1)	550 Secs (1934 Secs) [==>645.0 Secs (Pattern 1)] [==>645.0 Secs (Pattern 2)] [==>644.0 Secs (Pattern 3)]		[1]

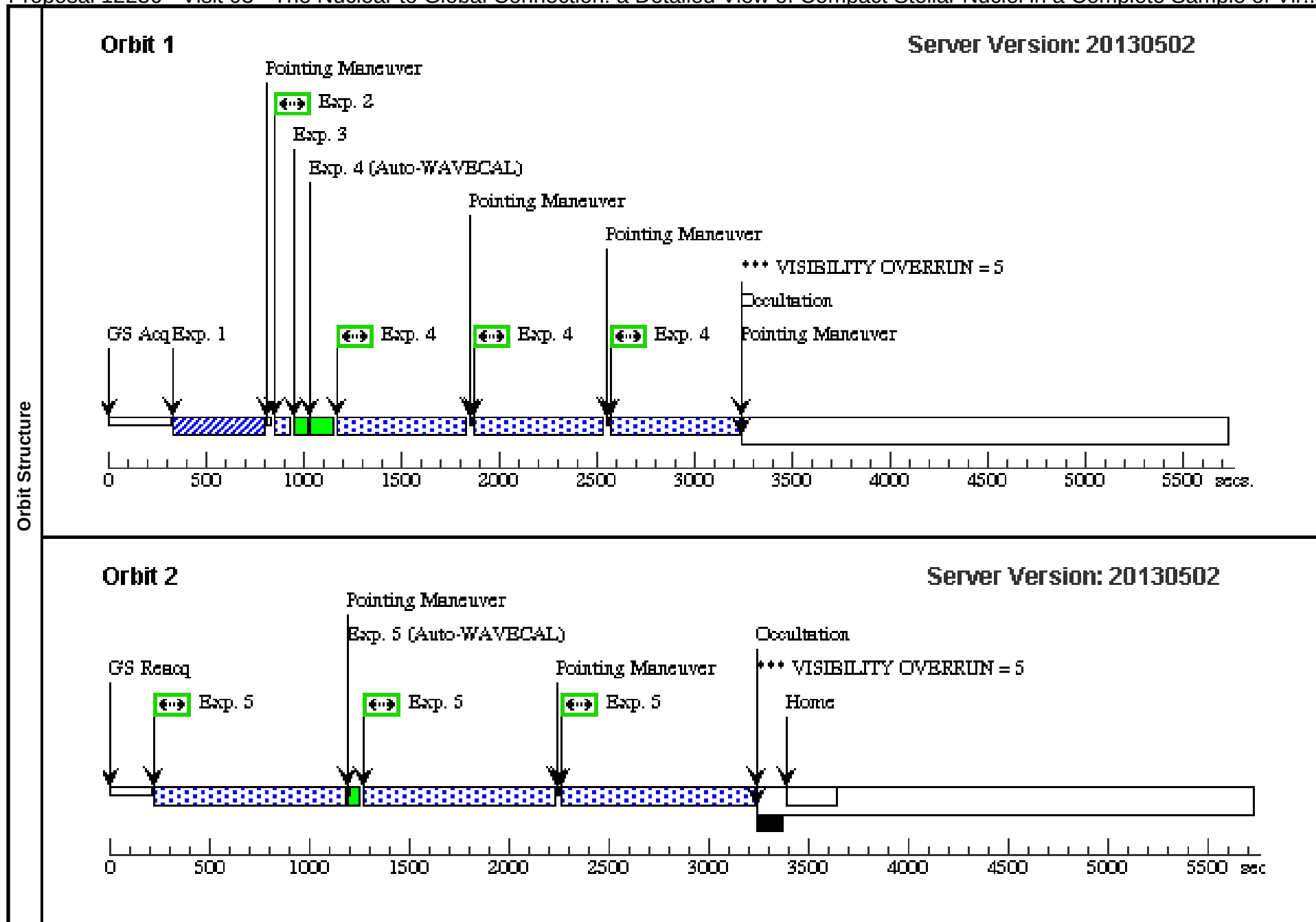


Proposal 12236 - Visit 03 - The Nuclear to Global Connection: a Detailed View of Compact Stellar Nuclei in a Complete Sample of Vir...

Visit	Proposal 12236, Visit 03, completed Wed Jun 19 01:05:17 GMT 2013			
	Diagnostic Status: Warning Scientific Instruments: STIS/CCD Special Requirements: ORIENT 126D TO 157 D; ORIENT 306D TO 337 D			
Diagnostics	(Visit 03) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 03) Warning (Orbit Planner): VISIBILITY OVERRUN			
Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=STIS-ALONG-SLIT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=90.0 Number Of Points=3 Angle Between Sides= Point Spacing=0.2028 Center Pattern=false Line Spacing=		(4), (5)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections Fluxes Miscellaneous
	(3)	VCC-784 Alt Name1: NGC4379	RA: 12 25 14.7651 (186.3115212d) Dec: +15 36 26.91 (15.60747d) Equinox: J2000	V=11.82 Reference Frame: ICRS
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> <i>Coordinates from HLA F475W images corrected using GSC2.</i> <i>The V-band magnitude given is the galaxy's total integrated magnitude from the Virgo Cluster Catalogue (Binggeli et al. 1985), converted from the B-band using Fukugita et al. (1995). As such, it is a "worst case scenario" situation in terms of brightness (i.e. much much brighter than what will actually be entering the slit).</i>			

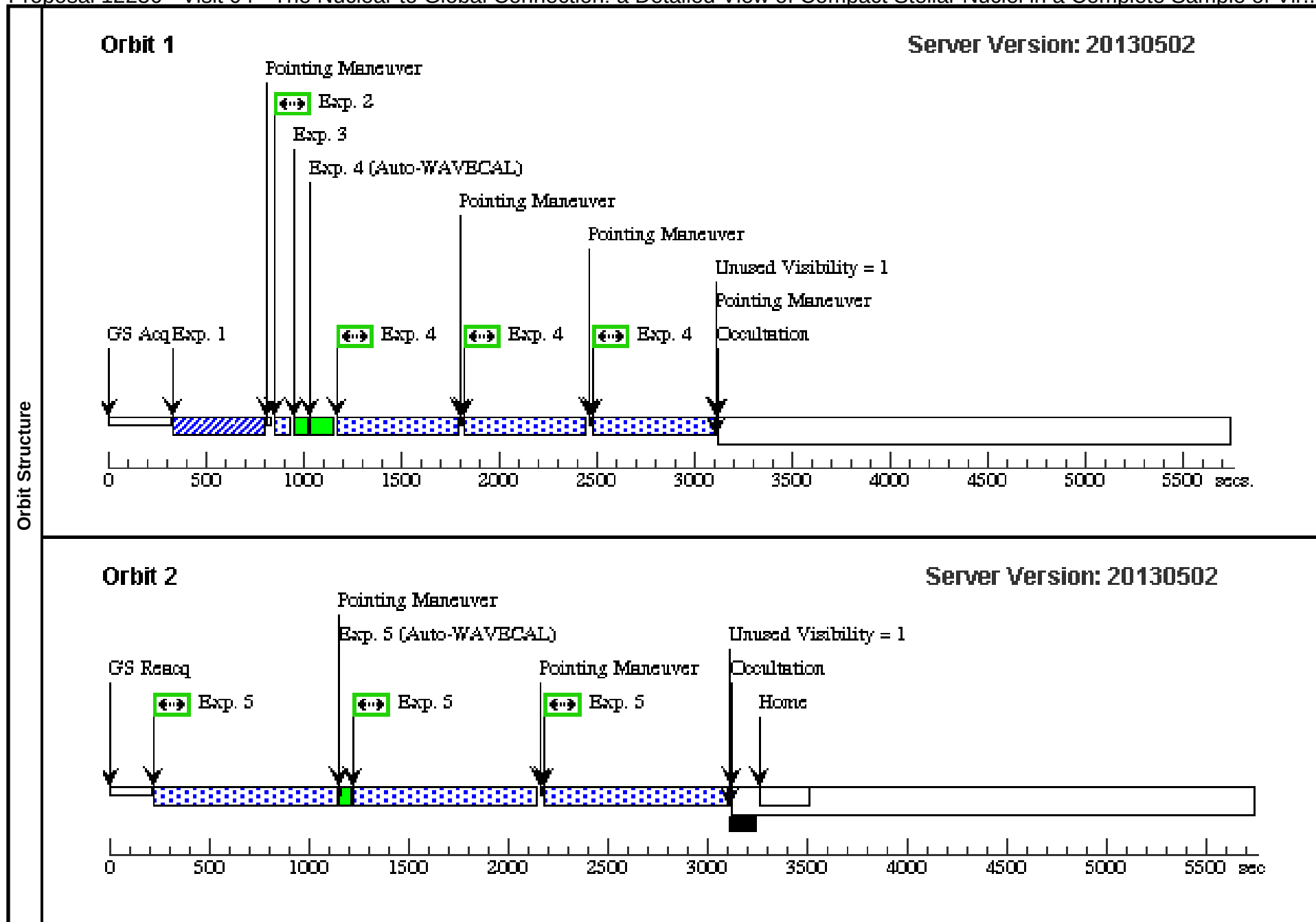
Proposal 12236 - Visit 03 - The Nuclear to Global Connection: a Detailed View of Compact Stellar Nuclei in a Complete Sample of Vir...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	VCC 784 A CQ	(3) VCC-784	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=5; DIFFUSE-CENTER=FLUX-CENTROID			60 Secs (60 Secs) [==>]	[1]
	2	VCC 784 image through the slit	(3) VCC-784	STIS/CCD, ACCUM, 52X0.2E1	MIRROR	BINAXIS1=1; BINAXIS2=1; CR-SPLIT=NO; GAIN=1			30 Secs (30 Secs) [==>30.0 Secs]	[1]
	Comments: An image of the galaxy through the slit, to be observed after the acquisition sequence to verify where the nucleus is located on the CCD.									
	3	Lamp image through slit (for VCC 784 visit)	NONE	STIS/CCD, ACCUM, 52X0.2	MIRROR	LAMP=TUNGSTEN			0.2 Secs (0.2 Secs) [==>]	[1]
	Comments: Image of lamp through slit in order to determine slit edges.									
	4	VCC 784 Science Exposure	(3) VCC-784	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 4-4 in Visit 03 (1)	650 Secs (1945 Secs) [==>649.0 Secs (Pattern 1)] [==>648.0 Secs (Pattern 2)] [==>648.0 Secs (Pattern 3)]	[1]
	5	VCC 784 Science Exposure	(3) VCC-784	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 5-5 in Visit 03 (1)	750 Secs (2842 Secs) [==>947.0 Secs (Pattern 1)] [==>947.0 Secs (Pattern 2)] [==>948.0 Secs (Pattern 3)]	[2]



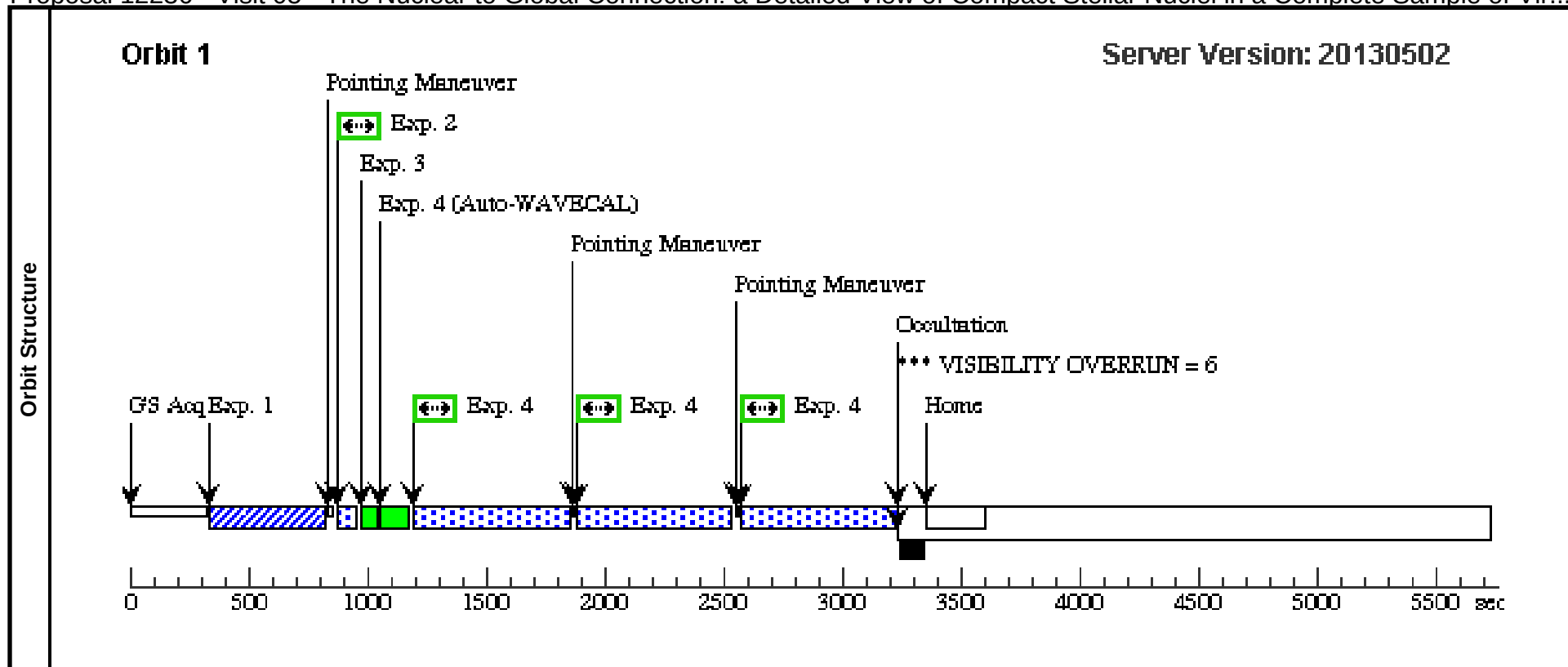
Proposal 12236 - Visit 04 - The Nuclear to Global Connection: a Detailed View of Compact Stellar Nuclei in a Complete Sample of Vir...

Visit	Proposal 12236, Visit 04, completed										Wed Jun 19 01:05:19 GMT 2013
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: STIS/CCD										
	Special Requirements: ORIENT 322D TO 53 D; ORIENT 142D TO 233 D; VISIBILITY INTERVAL 52 M										
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=STIS-ALONG-SLIT Purpose=DITHER Number Of Points=3 Point Spacing=0.2028 Line Spacing=				Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=false				(4), (5)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(4)	VCC-828	RA: 12 25 41.6866 (186.4236942d)				V=11.88		Reference Frame: ICRS		
		Alt Name1: NGC4387	Dec: +12 48 37.82 (12.81051d)								
			Equinox: J2000								
	Comments: This object was generated by the targetselector and retrieved from the NED database.										
	Coordinates from HLA F475W images corrected using GSC2.										
	The V-band magnitude given is the galaxy's total integrated magnitude from the Virgo Cluster Catalogue (Binggeli et al. 1985), converted from the B-band using Fukugita et al. (1995). As such, it is a "worst case scenario" situation in terms of brightness (i.e. much much brighter than what will actually be entering the slit).										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	VCC 828 A CQ	(4) VCC-828	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=5; DIFFUSE-CENTER=FLUX-CENTROID	GS ACQ SCENARIO BASE1B3		60 Secs (60 Secs) [==>]		[1]
	2	VCC 828 image through the slit	(4) VCC-828	STIS/CCD, ACCUM, 52X0.2E1	MIRROR	BINAXIS1=1; BINAXIS2=1; CR-SPLIT=NO; GAIN=1			30 Secs (30 Secs) [==>]		[1]
	Comments: An image of the galaxy through the slit, to be observed after the acquisition sequence to verify where the nucleus is located on the CCD.										
	3	Lamp image through slit (for VCC 828 visit)	NONE	STIS/CCD, ACCUM, 52X0.2	MIRROR	LAMP=TUNGSTEN			0.2 Secs (0.2 Secs) [==>]		[1]
	Comments: Image of lamp through slit in order to determine slit edges.										
	4	VCC 828 Science Exposure	(4) VCC-828	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 4-4 in Visit 04 (1)	650 Secs (1815 Secs) [==>605.0 Secs (Pattern 1)] [==>605.0 Secs (Pattern 2)] [==>605.0 Secs (Pattern 3)]		[1]
	5	VCC 828 Science Exposure	(4) VCC-828	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 5-5 in Visit 04 (1)	750 Secs (2712 Secs) [==>904.0 Secs (Pattern 1)] [==>904.0 Secs (Pattern 2)] [==>904.0 Secs (Pattern 3)]		[2]



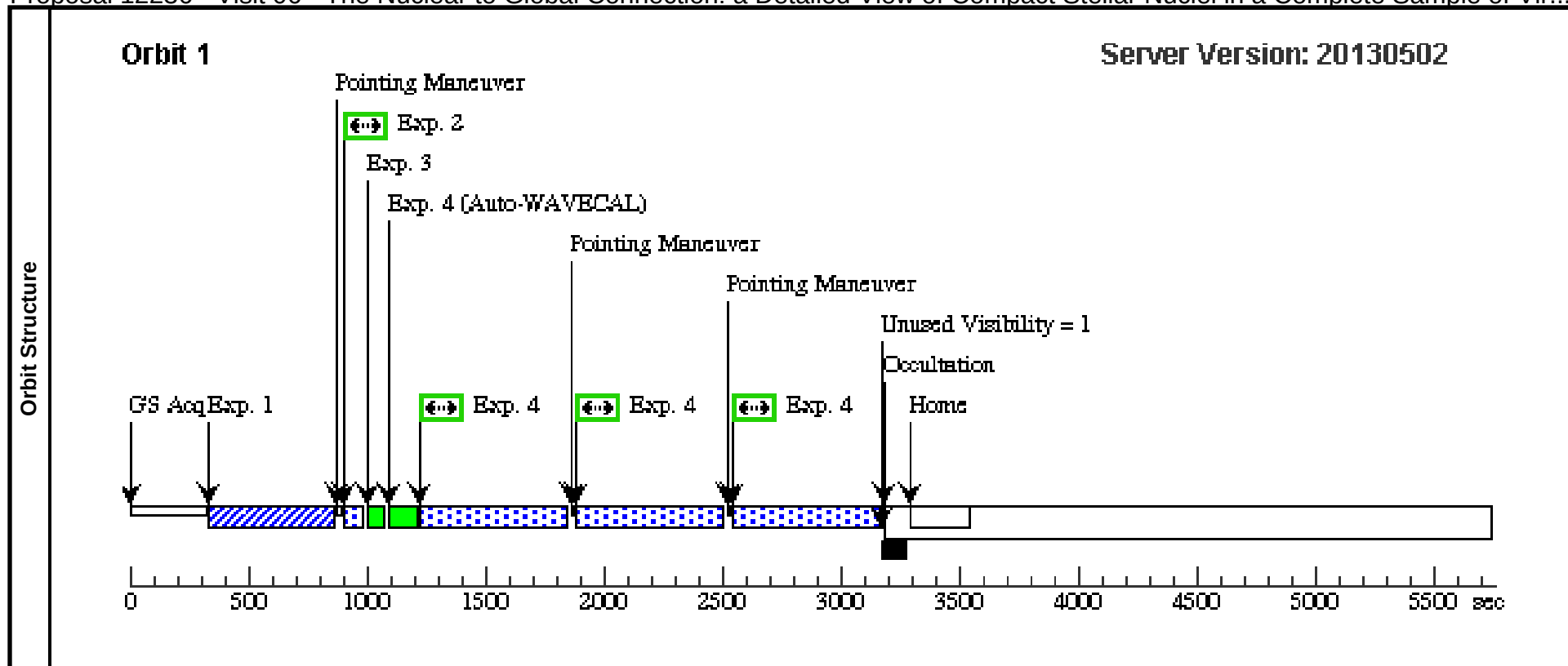
Proposal 12236 - Visit 05 - The Nuclear to Global Connection: a Detailed View of Compact Stellar Nuclei in a Complete Sample of Vir...

Visit	Proposal 12236, Visit 05, completed										Wed Jun 19 01:05:21 GMT 2013	
	Diagnostic Status: Warning											
	Scientific Instruments: STIS/CCD											
	Special Requirements: ORIENT 99D TO 130 D; ORIENT 279D TO 310 D											
Diagnostics	(Visit 05) Warning (Orbit Planner): VISIBILITY OVERRUN											
Patterns	#	Primary Pattern					Secondary Pattern				Exposures	
	(1)	Pattern Type=STIS-ALONG-SLIT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=90.0 Number Of Points=3 Angle Between Sides= Point Spacing=0.2028 Center Pattern=false Line Spacing=									(4)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(5)	VCC-1630	RA: 12 35 37.9937 (188.9083071d)				V=11.95		Reference Frame: ICRS			
		Alt Name1: NGC4551	Dec: +12 15 49.86 (12.26385d)									
			Equinox: J2000									
		Comments: This object was generated by the targetselector and retrieved from the NED database.										
		Coordinates from HLA F475W images corrected using GSC2.										
Exposures	The V-band magnitude given is the galaxy's total integrated magnitude from the Virgo Cluster Catalogue (Binggeli et al. 1985), converted from the B-band using Fukugita et al. (1995). As such, it is a "worst case scenario" situation in terms of brightness (i.e. much much brighter than what will actually be entering the slit).											
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	VCC 1630 ACQ	(5) VCC-1630	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; SE; CHECKBOX=11; DIFFUSE-CENTER=FLUX-CENTROID			60 Secs (60 Secs) [==>]		[1]	
	2	VCC 1630 image through the slit	(5) VCC-1630	STIS/CCD, ACCUM, 52X0.2E1	MIRROR	BINAXIS1=1; BINAXIS2=1; CR-SPLIT=NO; GAIN=1			30 Secs (30 Secs) [==>]		[1]	
	Comments: An image of the galaxy through the slit, to be observed after the acquisition sequence to verify where the nucleus is located on the CCD.											
	3	Lamp image through slit (for VCC 1630 visit)	NONE	STIS/CCD, ACCUM, 52X0.2	MIRROR	LAMP=TUNGSTEN			0.2 Secs (0.2 Secs) [==>]		[1]	
Comments: Image of lamp through slit in order to determine slit edges.												
	4	VCC 1630 Science Exposure	(5) VCC-1630	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 4-4 in Visit 05 (1)	650 Secs (1918 Secs) [==>640.0 Secs (Pattern 1)] [==>639.0 Secs (Pattern 2)] [==>639.0 Secs (Pattern 3)]		[1]	



Proposal 12236 - Visit 06 - The Nuclear to Global Connection: a Detailed View of Compact Stellar Nuclei in a Complete Sample of Vir...

Visit	Proposal 12236, Visit 06, completed Wed Jun 19 01:05:22 GMT 2013									
	Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: ORIENT 16D TO 87 D; ORIENT 196D TO 267 D; VISIBILITY INTERVAL 53 M									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=STIS-ALONG-SLIT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=90.0 Number Of Points=3 Angle Between Sides= Point Spacing=0.2028 Center Pattern=false Line Spacing=							(4)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(6)	VCC-1146 Alt Name1: NGC4458 Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> <i>Coordinates from HLA F475W images corrected using GSC2.</i> <i>The V-band magnitude given is the galaxy's total integrated magnitude from the Virgo Cluster Catalogue (Binggeli et al. 1985), converted from the B-band using Fukugita et al. (1995). As such, it is a "worst case scenario" situation in terms of brightness (i.e. much much brighter than what will actually be entering the slit).</i>	RA: 12 28 57.5796 (187.2399150d) Dec: +13 14 30.89 (13.24191d)				V=11.97		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	VCC 1146 ACQ	(6) VCC-1146	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=17; DIFFUSE-CENTER=FLUX-CENTROID			60 Secs (60 Secs) [==>]	[1]
	2	VCC 1146 image through the slit	(6) VCC-1146	STIS/CCD, ACCUM, 52X0.2E1	MIRROR	BINAXIS1=1; BINAXIS2=1; CR-SPLIT=NO; GAIN=1			30 Secs (30 Secs) [==>30.0 Secs]	[1]
	<i>Comments: An image of the galaxy through the slit, to be observed after the acquisition sequence to verify where the nucleus is located on the CCD.</i>									
	3	Lamp image through slit (for VCC 1146 visit)	NONE	STIS/CCD, ACCUM, 52X0.2	MIRROR	LAMP=TUNGSTEN			0.2 Secs (0.2 Secs) [==>]	[1]
	<i>Comments: Image of lamp through slit in order to determine slit edges.</i>									
	4	VCC 1146 Science Exposure	(6) VCC-1146	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 4-4 in Visit 06 (1)	500 Secs (1818 Secs) [==>606.0 Secs (Pattern 1)] [==>606.0 Secs (Pattern 2)] [==>606.0 Secs (Pattern 3)]	[1]

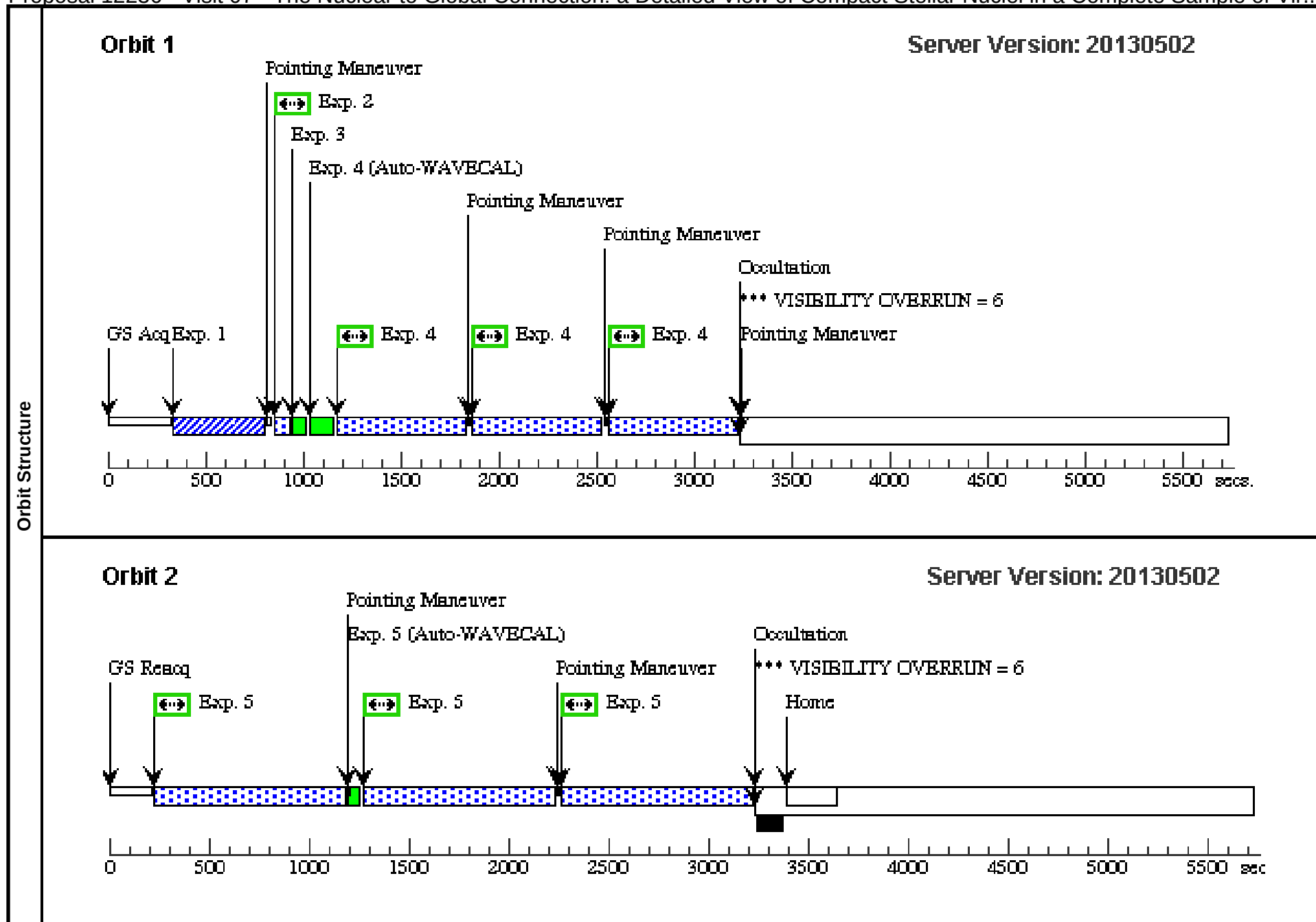


Proposal 12236 - Visit 07 - The Nuclear to Global Connection: a Detailed View of Compact Stellar Nuclei in a Complete Sample of Vir...

Visit	Proposal 12236, Visit 07, completed Wed Jun 19 01:05:23 GMT 2013			
	Diagnostic Status: Warning Scientific Instruments: STIS/CCD Special Requirements: ORIENT 48D TO 99 D; ORIENT 228D TO 279 D			
Diagnostics	(Visit 07) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 07) Warning (Orbit Planner): VISIBILITY OVERRUN			
Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=STIS-ALONG-SLIT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=90.0 Number Of Points=3 Angle Between Sides= Point Spacing=0.2028 Center Pattern=false Line Spacing=		(4), (5)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections
	(7)	VCC-1871	RA: 12 41 15.7360 (190.3155667d)	Fluxes
		Alt Name1: IC3653	Dec: +11 23 13.95 (11.38721d)	Miscellaneous
			Equinox: J2000	
		Comments: This object was generated by the targetselector and retrieved from the NED database. Coordinates from HLA F475W images corrected using GSC2.		
		The V-band magnitude given is the galaxy's total integrated magnitude from the Virgo Cluster Catalogue (Binggeli et al. 1985), converted from the B-band using Fukugita et al. (1995). As such, it is a "worst case scenario" situation in terms of brightness (i.e. much much brighter than what will actually be entering the slit).		

Proposal 12236 - Visit 07 - The Nuclear to Global Connection: a Detailed View of Compact Stellar Nuclei in a Complete Sample of Vir...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	VCC 1871 ACQ	(7) VCC-1871	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=3; DIFFUSE-CENTER=FLUX-CENTROID			60 Secs (60 Secs) [==>]	[1]
	2	VCC 1871 image through the slit	(7) VCC-1871	STIS/CCD, ACCUM, 52X0.2E1	MIRROR	BINAXIS1=1; BINAXIS2=1; CR-SPLIT=NO; GAIN=1			30 Secs (30 Secs) [==>30.0 Secs]	[1]
	Comments: An image of the galaxy through the slit, to be observed after the acquisition sequence to verify where the nucleus is located on the CCD.									
	3	Lamp image through slit (for VCC 1871 visit)	NONE	STIS/CCD, ACCUM, 52X0.2	MIRROR	LAMP=TUNGSTEN			0.2 Secs (0.2 Secs) [==>]	[1]
	Comments: Image of lamp through slit in order to determine slit edges.									
	4	VCC 1871 Science Exposure	(7) VCC-1871	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 4-4 in Visit 07 (1)	650 Secs (1945 Secs) [==>649.0 Secs (Pattern 1)] [==>648.0 Secs (Pattern 2)] [==>648.0 Secs (Pattern 3)]	[1]
	5	VCC 1871 Science Exposure	(7) VCC-1871	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 5-5 in Visit 07 (1)	750 Secs (2838 Secs) [==>946.0 Secs (Pattern 1)] [==>946.0 Secs (Pattern 2)] [==>946.0 Secs (Pattern 3)]	[2]

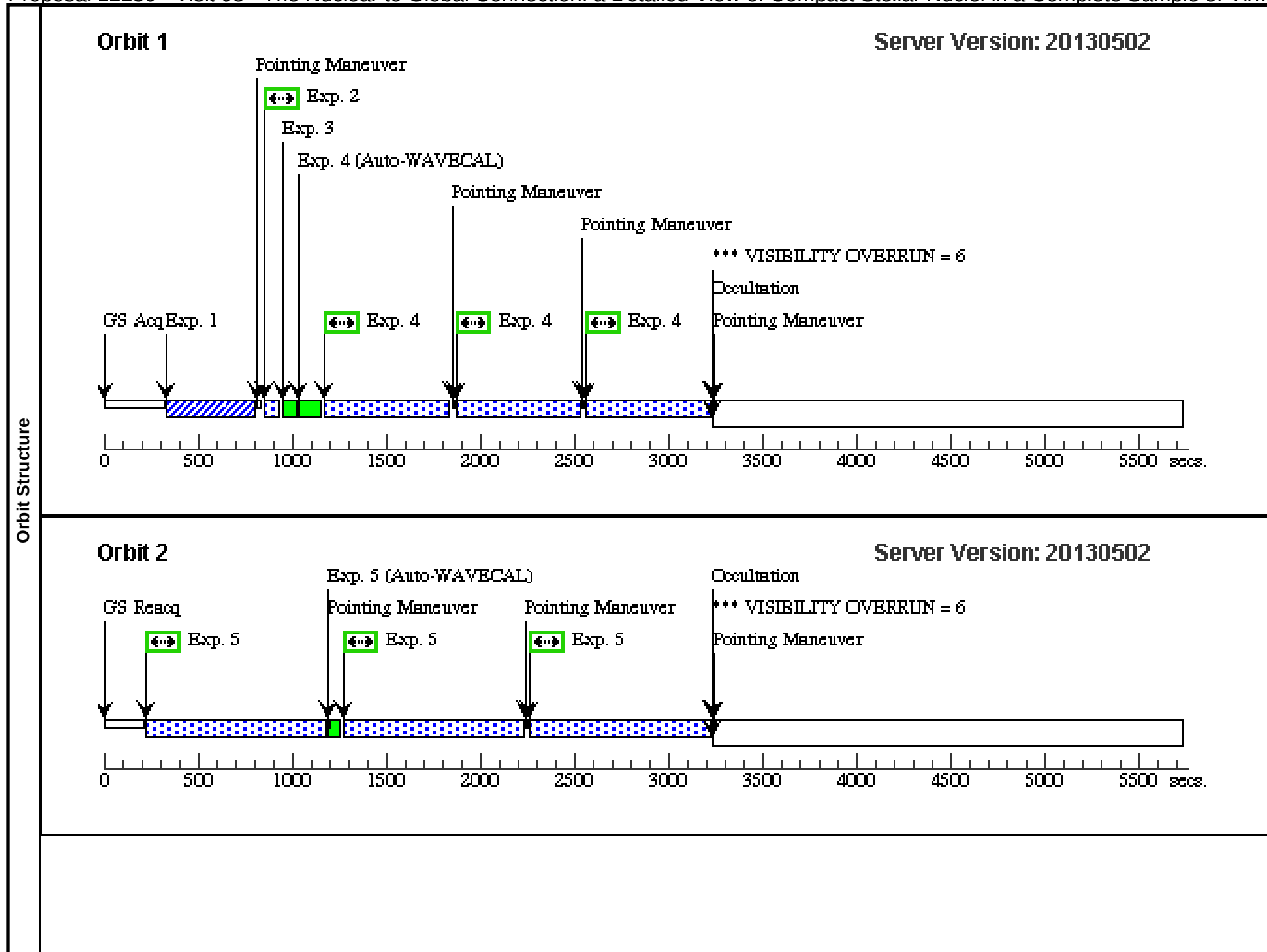


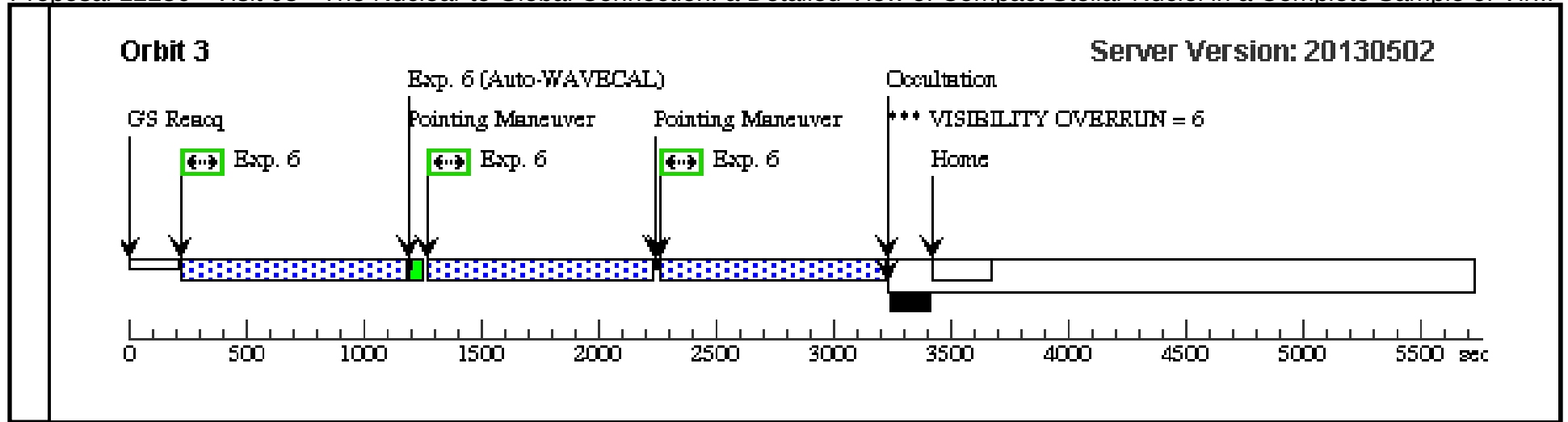
Proposal 12236 - Visit 08 - The Nuclear to Global Connection: a Detailed View of Compact Stellar Nuclei in a Complete Sample of Vir...

Visit	Proposal 12236, Visit 08, completed Wed Jun 19 01:05:25 GMT 2013			
	Diagnostic Status: Warning Scientific Instruments: STIS/CCD Special Requirements: ORIENT 117D TO 148 D; ORIENT 297D TO 328 D			
Diagnostics	(Visit 08) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 08) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 08) Warning (Orbit Planner): VISIBILITY OVERRUN			
Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=STIS-ALONG-SLIT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=90.0 Number Of Points=3 Angle Between Sides= Point Spacing=0.2028 Center Pattern=false Line Spacing=		(4), (5), (6)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections
	(8)	VCC-856	RA: 12 25 57.9283 (186.4913679d)	Fluxes
		Alt Name1: IC3328	Dec: +10 03 13.48 (10.05374d)	Miscellaneous
			Equinox: J2000	
		<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>		
		<i>Coordinates from HLA F475W images corrected using GSC2.</i>		
		<i>The V-band magnitude given is the galaxy's total integrated magnitude from the Virgo Cluster Catalogue (Binggeli et al. 1985), converted from the B-band using Fukugita et al. (1995). As such, it is a "worst case scenario" situation in terms of brightness (i.e. much much brighter than what will actually be entering the slit).</i>		

Proposal 12236 - Visit 08 - The Nuclear to Global Connection: a Detailed View of Compact Stellar Nuclei in a Complete Sample of Vir...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	VCC 856 A CQ	(8) VCC-856	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=5; DIFFUSE-CENTER=FLUX-CENTROID			60 Secs (60 Secs) [==>]	[1]
	2	VCC 856 image through the slit	(8) VCC-856	STIS/CCD, ACCUM, 52X0.2E1	MIRROR	BINAXIS1=1; BINAXIS2=1; CR-SPLIT=NO; GAIN=1			30 Secs (30 Secs) [==>30.0 Secs]	[1]
	Comments: An image of the galaxy through the slit, to be observed after the acquisition sequence to verify where the nucleus is located on the CCD.									
	3	Lamp image through slit (for VCC 856 visit)	NONE	STIS/CCD, ACCUM, 52X0.2	MIRROR	LAMP=TUNGSTEN			0.2 Secs (0.2 Secs) [==>]	[1]
	Comments: Image of lamp through slit in order to determine slit edges.									
	4	VCC 856 Science Exposure	(8) VCC-856	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 4-4 in Visit 08 (1)	650 Secs (1941 Secs) [==>647.0 Secs (Pattern 1)] [==>647.0 Secs (Pattern 2)] [==>647.0 Secs (Pattern 3)]	[1]
	5	VCC 856 Science Exposure	(8) VCC-856	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 5-5 in Visit 08 (1)	750 Secs (2841 Secs) [==>947.0 Secs (Pattern 1)] [==>947.0 Secs (Pattern 2)] [==>947.0 Secs (Pattern 3)]	[2]
	6	VCC 856 Science Exposure	(8) VCC-856	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 6-6 in Visit 08 (1)	750 Secs (2838 Secs) [==>946.0 Secs (Pattern 1)] [==>946.0 Secs (Pattern 2)] [==>946.0 Secs (Pattern 3)]	[3]





Proposal 12236 - Visit 09 - The Nuclear to Global Connection: a Detailed View of Compact Stellar Nuclei in a Complete Sample of Vir...

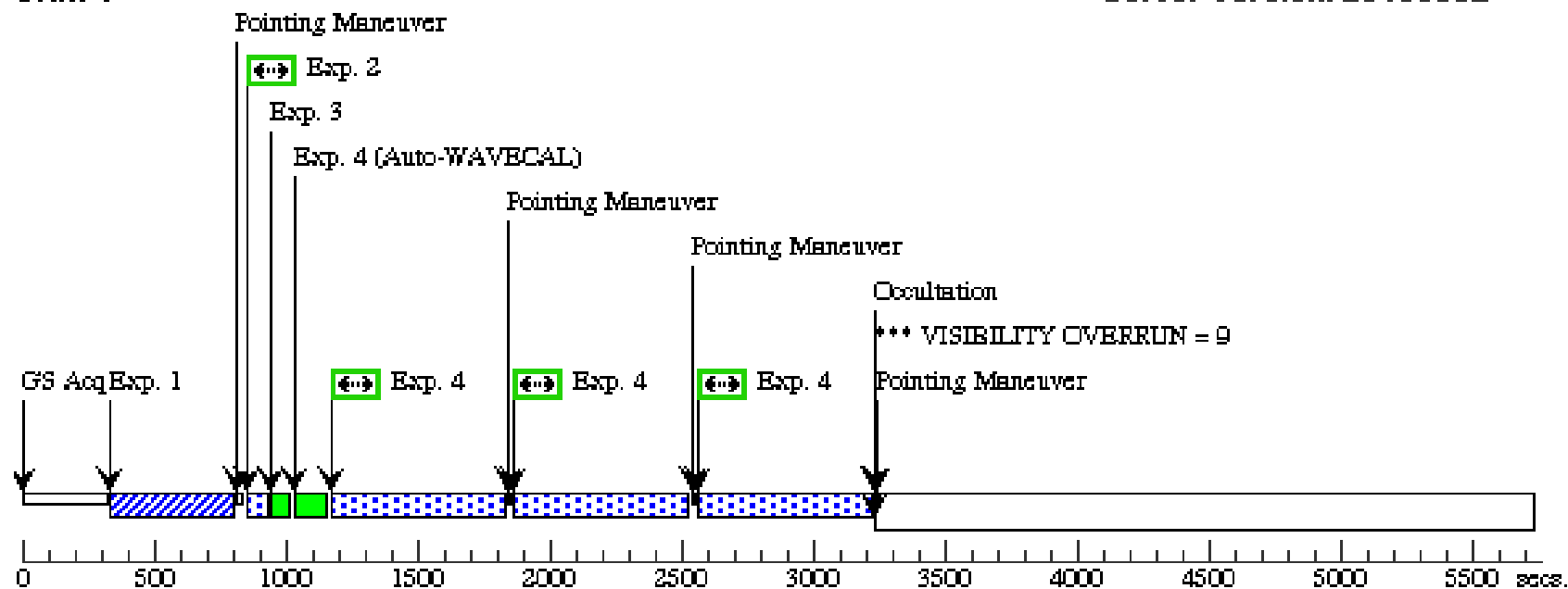
Visit	Proposal 12236, Visit 09, completed Wed Jun 19 01:05:28 GMT 2013			
	Diagnostic Status: Warning Scientific Instruments: STIS/CCD Special Requirements: ORIENT 70D TO 101 D; ORIENT 250D TO 281 D			
Diagnostics	(Visit 09) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 09) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 09) Warning (Orbit Planner): VISIBILITY OVERRUN			
Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=STIS-ALONG-SLIT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=90.0 Number Of Points=3 Angle Between Sides= Point Spacing=0.2028 Center Pattern=false Line Spacing=		(4), (5), (6)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections
	(9)	VCC-1192	RA: 12 29 30.2551 (187.3760629d)	Fluxes
		Alt Name1: NGC4467	Dec: +07 59 34.40 (7.99289d)	Miscellaneous
			Equinox: J2000	
		Comments: This object was generated by the targetselector and retrieved from the NED database. Coordinates from HLA F475W images corrected using GSC2. The V-band magnitude given is the galaxy's total integrated magnitude from the Virgo Cluster Catalogue (Binggeli et al. 1985), converted from the B-band using Fukugita et al. (1995). As such, it is a "worst case scenario" situation in terms of brightness (i.e. much much brighter than what will actually be entering the slit).		

Proposal 12236 - Visit 09 - The Nuclear to Global Connection: a Detailed View of Compact Stellar Nuclei in a Complete Sample of Vir...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	VCC 1192 ACQ	(9) VCC-1192	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=3; DIFFUSE-CENTER=FLUX-CENTROID			60 Secs (60 Secs) [==>]	[1]
	2	VCC 1192 image through the slit	(9) VCC-1192	STIS/CCD, ACCUM, 52X0.2E1	MIRROR	BINAXIS1=1; BINAXIS2=1; CR-SPLIT=NO; GAIN=1			30 Secs (30 Secs) [==>30.0 Secs]	[1]
	<i>Comments: An image of the galaxy through the slit, to be observed after the acquisition sequence to verify where the nucleus is located on the CCD.</i>									
	3	Lamp image through slit (for first VCC 1192 visit)	NONE	STIS/CCD, ACCUM, 52X0.2	MIRROR	LAMP=TUNGSTEN			0.2 Secs (0.2 Secs) [==>]	[1]
	<i>Comments: Image of lamp through slit in order to determine slit edges.</i>									
	4	VCC 1192 Science Exposure	(9) VCC-1192	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 4-4 in Visit 09 (1)	650 Secs (1942 Secs) [==>648.0 Secs (Pattern 1)] [==>647.0 Secs (Pattern 2)] [==>647.0 Secs (Pattern 3)]	[1]
	5	VCC 1192 Science Exposure	(9) VCC-1192	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 5-5 in Visit 09 (1)	750 Secs (2838 Secs) [==>946.0 Secs (Pattern 1)] [==>946.0 Secs (Pattern 2)] [==>946.0 Secs (Pattern 3)]	[2]
	6	VCC 1192 Science Exposure	(9) VCC-1192	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 6-6 in Visit 09 (1)	750 Secs (2835 Secs) [==>945.0 Secs (Pattern 1)] [==>945.0 Secs (Pattern 2)] [==>945.0 Secs (Pattern 3)]	[3]

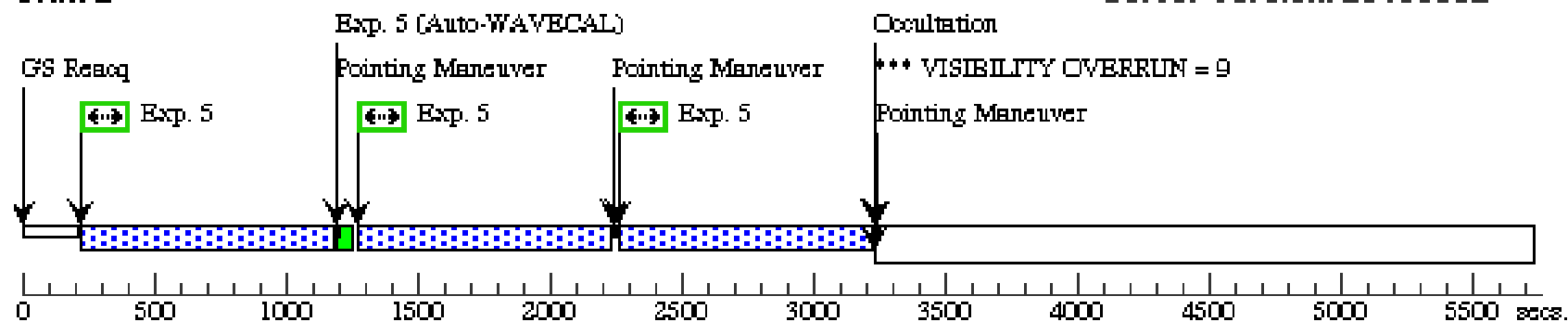
Orbit 1

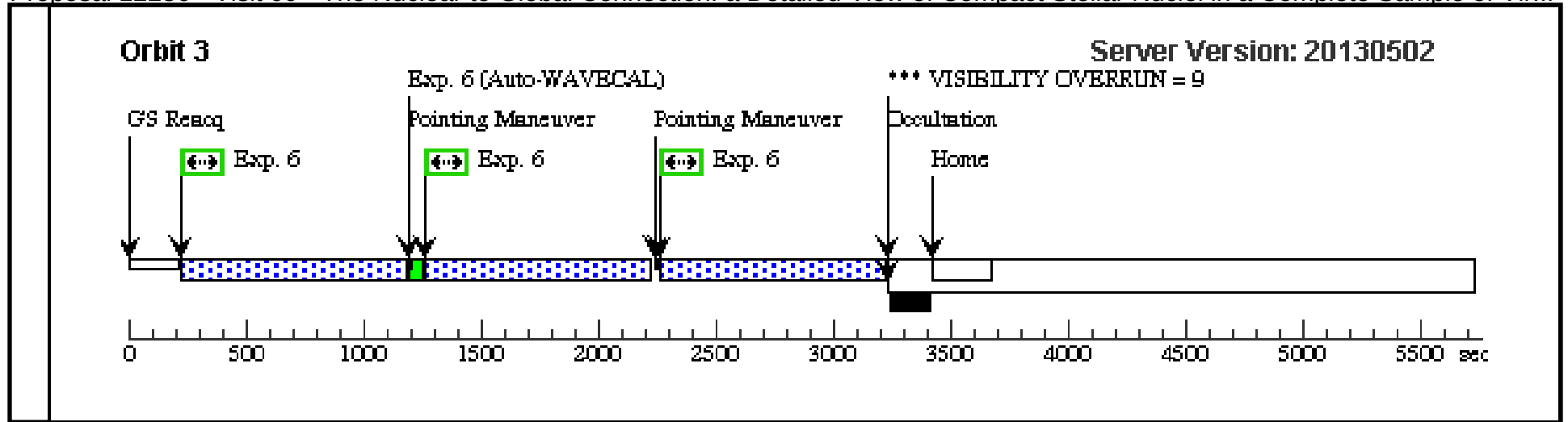
Server Version: 20130502



Orbit 2

Server Version: 20130502



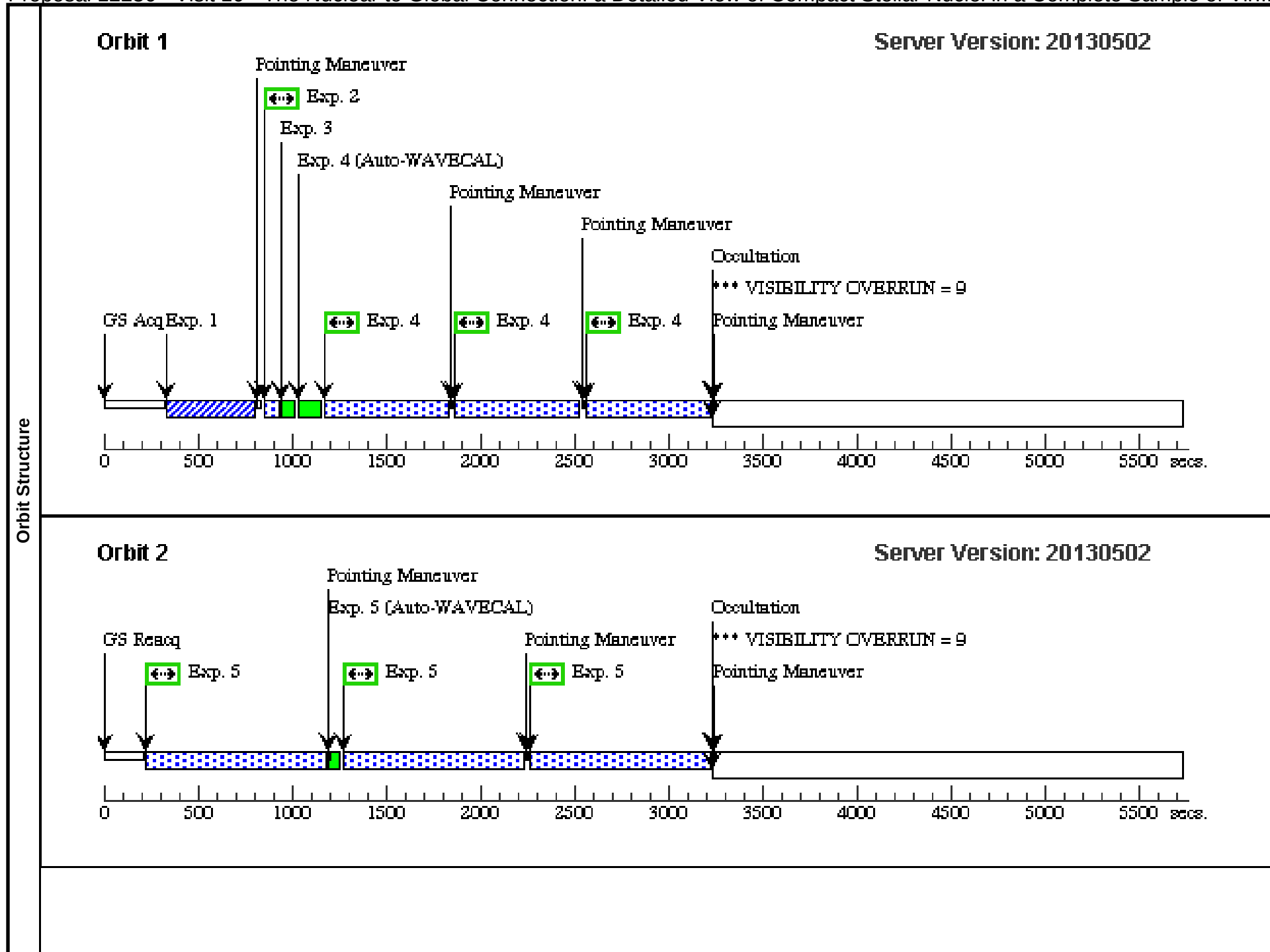


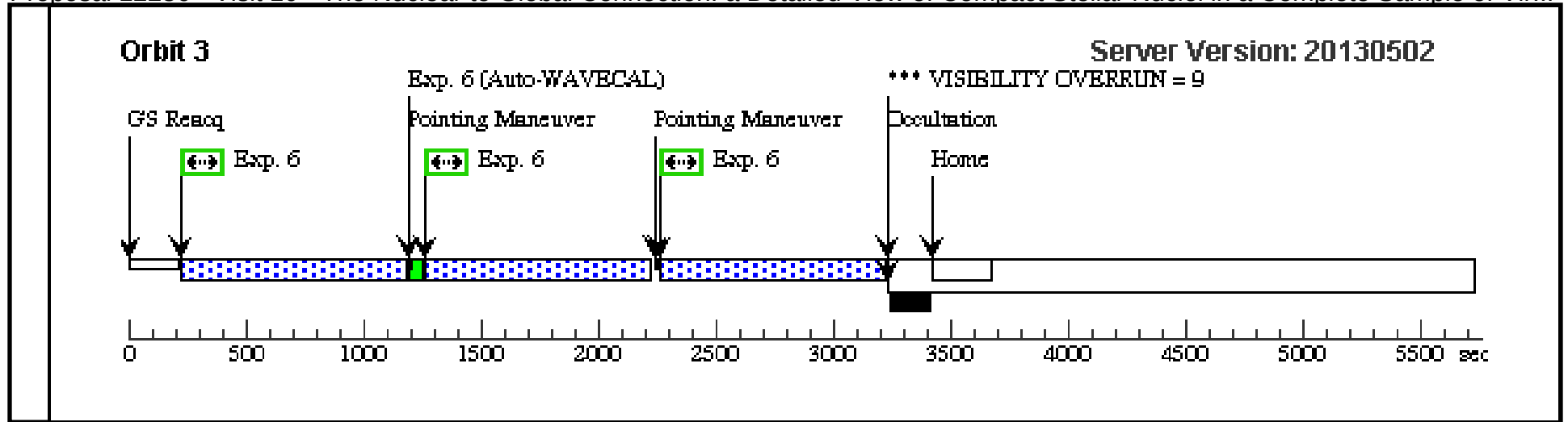
Proposal 12236 - Visit 10 - The Nuclear to Global Connection: a Detailed View of Compact Stellar Nuclei in a Complete Sample of Vir...

Visit	Proposal 12236, Visit 10, completed Wed Jun 19 01:05:30 GMT 2013			
	Diagnostic Status: Warning Scientific Instruments: STIS/CCD Special Requirements: SAME ORIENT AS 09			
Diagnostics	(Visit 10) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 10) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 10) Warning (Orbit Planner): VISIBILITY OVERRUN			
Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=STIS-ALONG-SLIT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=90.0 Number Of Points=3 Angle Between Sides= Point Spacing=0.2028 Center Pattern=false Line Spacing=		(4), (5), (6)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections
	(9)	VCC-1192	RA: 12 29 30.2551 (187.3760629d)	Fluxes
		Alt Name1: NGC4467	Dec: +07 59 34.40 (7.99289d)	Miscellaneous
			Equinox: J2000	
		<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>		
		<i>Coordinates from HLA F475W images corrected using GSC2.</i>		
		<i>The V-band magnitude given is the galaxy's total integrated magnitude from the Virgo Cluster Catalogue (Binggeli et al. 1985), converted from the B-band using Fukugita et al. (1995). As such, it is a "worst case scenario" situation in terms of brightness (i.e. much much brighter than what will actually be entering the slit).</i>		

Proposal 12236 - Visit 10 - The Nuclear to Global Connection: a Detailed View of Compact Stellar Nuclei in a Complete Sample of Vir...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	VCC 1192 ACQ	(9) VCC-1192	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=3; DIFFUSE-CENTER=FLUX-CENTROID			60 Secs (60 Secs) [==>]	[1]
	2	VCC 1192 image through the slit	(9) VCC-1192	STIS/CCD, ACCUM, 52X0.2E1	MIRROR	BINAXIS1=1; BINAXIS2=1; CR-SPLIT=NO; GAIN=1			30 Secs (30 Secs) [==>30.0 Secs]	[1]
	Comments: An image of the galaxy through the slit, to be observed after the acquisition sequence to verify where the nucleus is located on the CCD.									
	3	Lamp image through slit (for second VCC 1192 visit)	NONE	STIS/CCD, ACCUM, 52X0.2	MIRROR	LAMP=TUNGSTEN			0.2 Secs (0.2 Secs) [==>]	[1]
	Comments: Image of lamp through slit in order to determine slit edges.									
	4	VCC 1192 Science Exposure	(9) VCC-1192	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 4-4 in Visit 10 (1)	650 Secs (1942 Secs) [==>648.0 Secs (Pattern 1)] [==>647.0 Secs (Pattern 2)] [==>647.0 Secs (Pattern 3)]	[1]
	5	VCC 1192 Science Exposure	(9) VCC-1192	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 5-5 in Visit 10 (1)	750 Secs (2838 Secs) [==>946.0 Secs (Pattern 1)] [==>946.0 Secs (Pattern 2)] [==>946.0 Secs (Pattern 3)]	[2]
	6	VCC 1192 Science Exposure	(9) VCC-1192	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 6-6 in Visit 10 (1)	750 Secs (2835 Secs) [==>945.0 Secs (Pattern 1)] [==>945.0 Secs (Pattern 2)] [==>945.0 Secs (Pattern 3)]	[3]



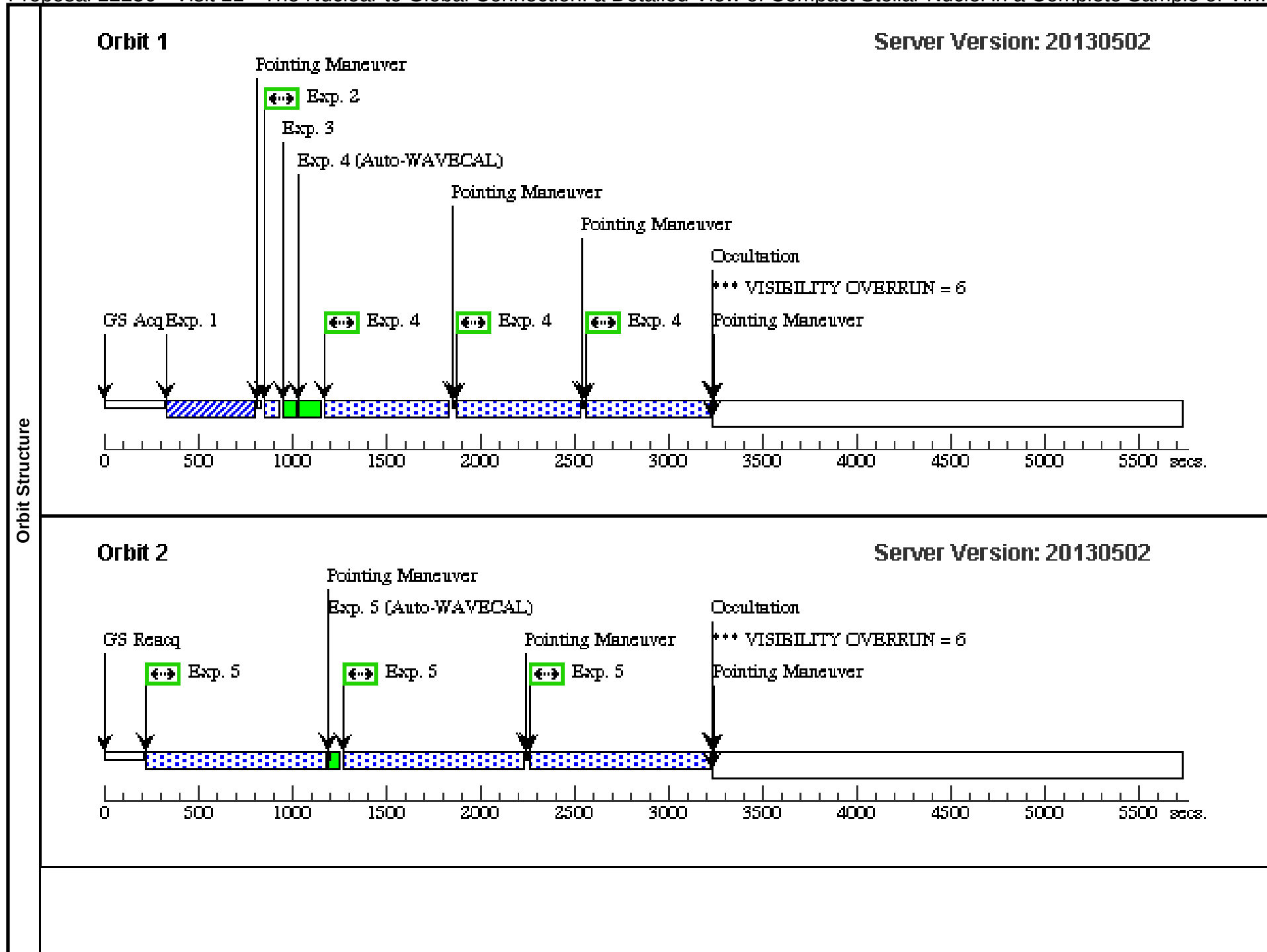


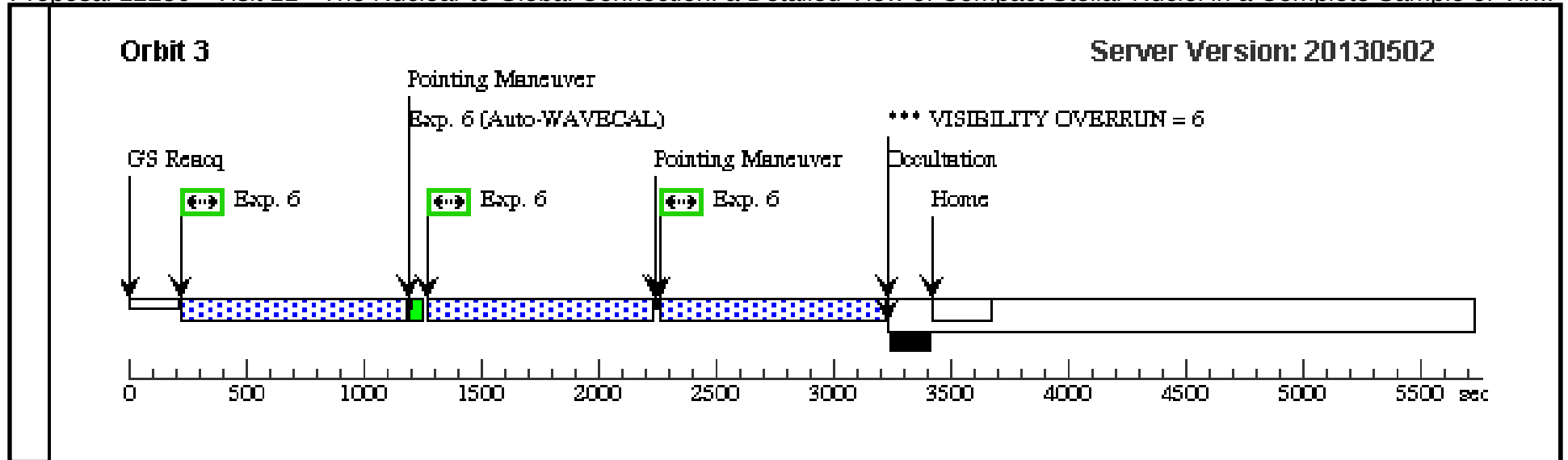
Proposal 12236 - Visit 11 - The Nuclear to Global Connection: a Detailed View of Compact Stellar Nuclei in a Complete Sample of Vir...

Visit	Proposal 12236, Visit 11, completed Wed Jun 19 01:05:33 GMT 2013			
	Diagnostic Status: Warning Scientific Instruments: STIS/CCD Special Requirements: ORIENT 132D TO 163 D; ORIENT 312D TO 343 D			
Diagnostics	(Visit 11) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 11) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 11) Warning (Orbit Planner): VISIBILITY OVERRUN			
Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=STIS-ALONG-SLIT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=90.0 Number Of Points=3 Angle Between Sides= Point Spacing=0.2028 Center Pattern=false Line Spacing=		(4), (5), (6)
Fixed Targets	#	Name	Targ. Coord. Corrections	Fluxes
	(10)	VCC-1627	RA: 12 35 37.2668 (188.9052783d) Dec: +12 22 55.50 (12.38208d) Equinox: J2000	V=14.2
Miscellaneous Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the NED database. Coordinates from HLA F475W images corrected using GSC2. The V-band magnitude given is the galaxy's total integrated magnitude from the Virgo Cluster Catalogue (Binggeli et al. 1985), converted from the B-band using Fukugita et al. (1995). As such, it is a "worst case scenario" situation in terms of brightness (i.e. much much brighter than what will actually be entering the slit).				

Proposal 12236 - Visit 11 - The Nuclear to Global Connection: a Detailed View of Compact Stellar Nuclei in a Complete Sample of Vir...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	VCC 1627 ACQ	(10) VCC-1627	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=5; DIFFUSE-CENTER=FLUX-CENTROID	GS ACQ SCENARIO BASE1B3		60 Secs (60 Secs) [==>]	[1]
	2	VCC 1627 image through the slit	(10) VCC-1627	STIS/CCD, ACCUM, 52X0.2E1	MIRROR	BINAXIS1=1; BINAXIS2=1; CR-SPLIT=NO; GAIN=1			30 Secs (30 Secs) [==>30.0 Secs]	[1]
	Comments: An image of the galaxy through the slit, to be observed after the acquisition sequence to verify where the nucleus is located on the CCD.									
	3	Lamp image through slit (for VCC 1627 visit)	NONE	STIS/CCD, ACCUM, 52X0.2	MIRROR	LAMP=TUNGSTEN			0.2 Secs (0.2 Secs) [==>]	[1]
	Comments: Image of lamp through slit in order to determine slit edges.									
	4	VCC 1627 Science Exposure	(10) VCC-1627	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 4-4 in Visit 11 (1)	650 Secs (1941 Secs) [==>647.0 Secs (Pattern 1)] [==>647.0 Secs (Pattern 2)] [==>647.0 Secs (Pattern 3)]	[1]
	5	VCC 1627 Science Exposure	(10) VCC-1627	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 5-5 in Visit 11 (1)	750 Secs (2841 Secs) [==>947.0 Secs (Pattern 1)] [==>947.0 Secs (Pattern 2)] [==>947.0 Secs (Pattern 3)]	[2]
	6	VCC 1627 Science Exposure	(10) VCC-1627	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 6-6 in Visit 11 (1)	750 Secs (2838 Secs) [==>946.0 Secs (Pattern 1)] [==>946.0 Secs (Pattern 2)] [==>946.0 Secs (Pattern 3)]	[3]



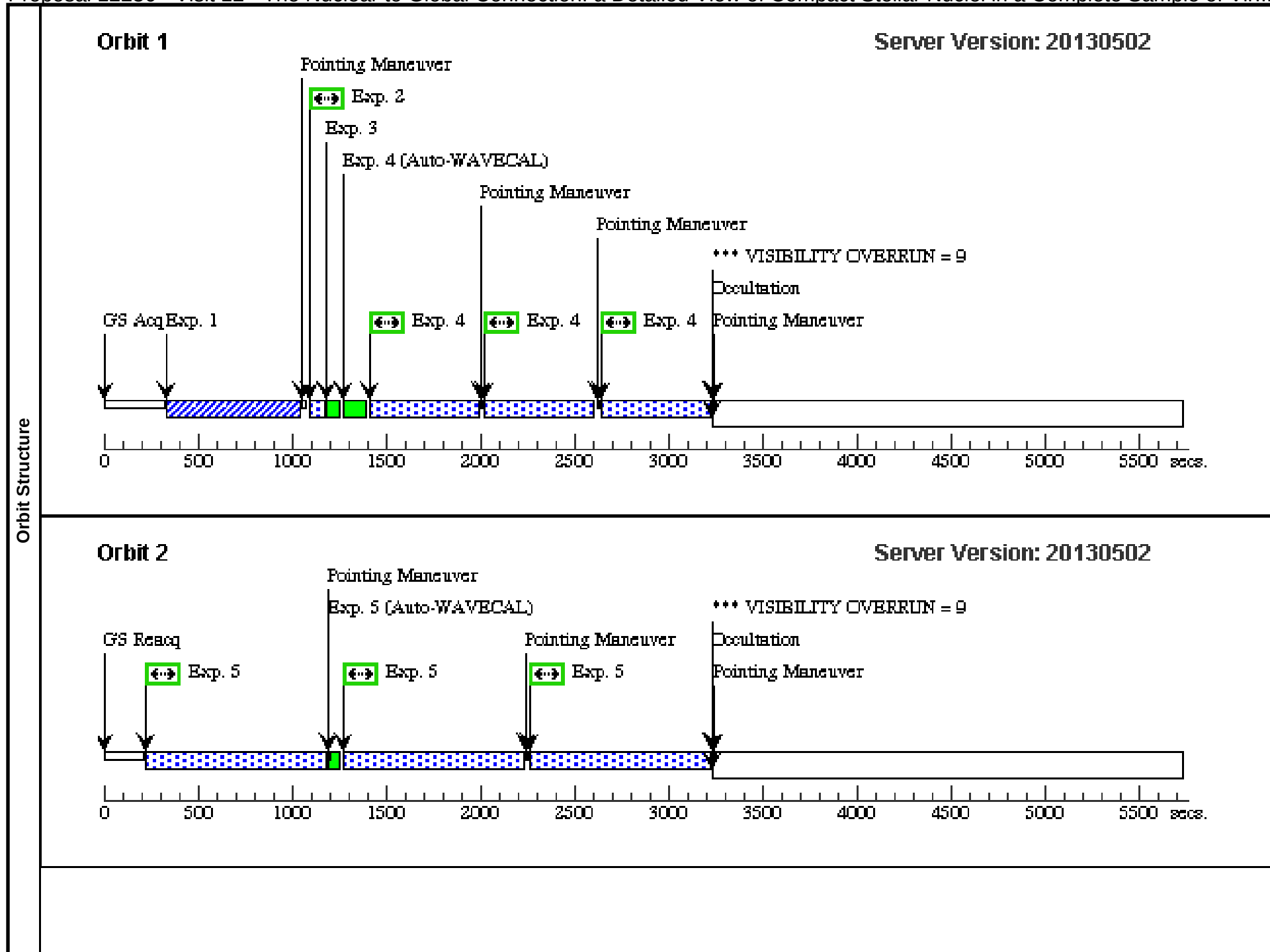


Proposal 12236 - Visit 12 - The Nuclear to Global Connection: a Detailed View of Compact Stellar Nuclei in a Complete Sample of Vir...

Visit	Proposal 12236, Visit 12, completed Wed Jun 19 01:05:36 GMT 2013			
	Diagnostic Status: Warning Scientific Instruments: STIS/CCD Special Requirements: ORIENT 50D TO 101 D; ORIENT 240D TO 281 D			
Diagnostics	(Visit 12) Warning (Orbit Planner): VISIBILITY OVERRUN			
	(Visit 12) Warning (Orbit Planner): VISIBILITY OVERRUN			
	(Visit 12) Warning (Orbit Planner): VISIBILITY OVERRUN			
	(Visit 12) Warning (Orbit Planner): VISIBILITY OVERRUN			
	(Visit 12) Warning (Orbit Planner): VISIBILITY OVERRUN			
Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=STIS-ALONG-SLIT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=90.0 Number Of Points=3 Angle Between Sides= Point Spacing=0.2028 Center Pattern=false Line Spacing=		(4), (5), (6), (7), (8)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections
	(11)	VCC-1199	RA: 12 29 35.0144 (187.3958933d) Dec: +08 03 28.99 (8.05805d) Equinox: J2000	V=14.54
Comments: This object was generated by the targetselector and retrieved from the NED database. Coordinates from HLA F475W images corrected using GSC2. The V-band magnitude given is the galaxy's total integrated magnitude from the Virgo Cluster Catalogue (Binggeli et al. 1985), converted from the B-band using Fukugita et al. (1995). As such, it is a "worst case scenario" situation in terms of brightness (i.e. much much brighter than what will actually be entering the slit).				
Fluxes Miscellaneous Reference Frame: ICRS				

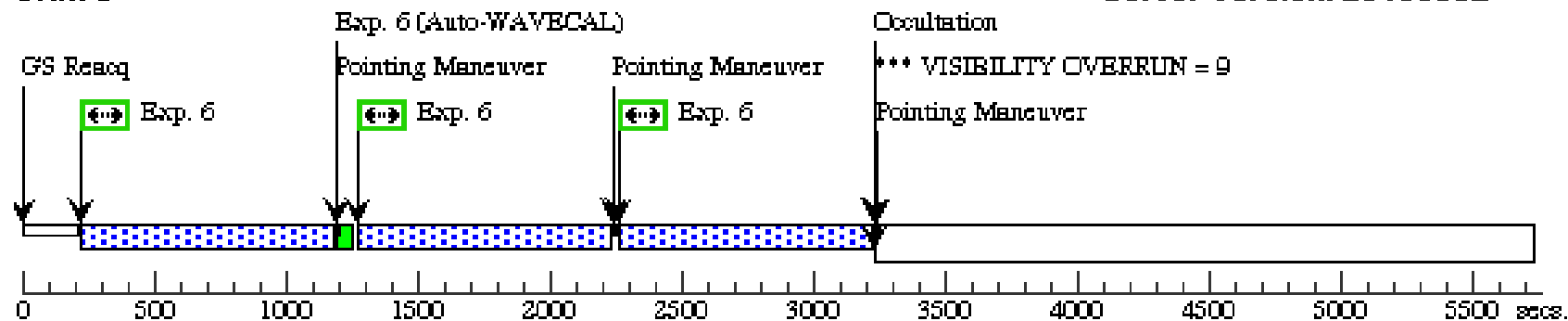
Proposal 12236 - Visit 12 - The Nuclear to Global Connection: a Detailed View of Compact Stellar Nuclei in a Complete Sample of Vir...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	VCC 1199 ACQ	(11) VCC-1199	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=3; DIFFUSE-CENTER=FLUX-CENTROID			120 Secs (120 Secs) [==>]	[1]
	2	VCC 1199 image through the slit	(11) VCC-1199	STIS/CCD, ACCUM, 52X0.2E1	MIRROR	BINAXIS1=1; BINAXIS2=1; CR-SPLIT=NO; GAIN=1			30 Secs (30 Secs) [==>30.0 Secs]	[1]
	Comments: An image of the galaxy through the slit, to be observed after the acquisition sequence to verify where the nucleus is located on the CCD.									
	3	Lamp image through slit (for first VCC 1199 visit)	NONE	STIS/CCD, ACCUM, 52X0.2	MIRROR	LAMP=TUNGSTEN			0.2 Secs (0.2 Secs) [==>]	[1]
	Comments: Image of lamp through slit in order to determine slit edges.									
	4	VCC 1199 Science Exposure	(11) VCC-1199	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 4-4 in Visit 12 (1)	500 Secs (1702 Secs) [==>568.0 Secs (Pattern 1)] [==>567.0 Secs (Pattern 2)] [==>567.0 Secs (Pattern 3)]	[1]
	5	VCC 1199 Science Exposure	(11) VCC-1199	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 5-5 in Visit 12 (1)	850 Secs (2838 Secs) [==>946.0 Secs (Pattern 1)] [==>946.0 Secs (Pattern 2)] [==>946.0 Secs (Pattern 3)]	[2]
	6	VCC 1199 Science Exposure	(11) VCC-1199	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 6-6 in Visit 12 (1)	850 Secs (2838 Secs) [==>946.0 Secs (Pattern 1)] [==>946.0 Secs (Pattern 2)] [==>946.0 Secs (Pattern 3)]	[3]
	7	VCC 1199 Science Exposure	(11) VCC-1199	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 7-7 in Visit 12 (1)	850 Secs (2838 Secs) [==>946.0 Secs (Pattern 1)] [==>946.0 Secs (Pattern 2)] [==>946.0 Secs (Pattern 3)]	[4]
	8	VCC 1199 Science Exposure	(11) VCC-1199	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 8-8 in Visit 12 (1)	850 Secs (2835 Secs) [==>945.0 Secs (Pattern 1)] [==>945.0 Secs (Pattern 2)] [==>945.0 Secs (Pattern 3)]	[5]



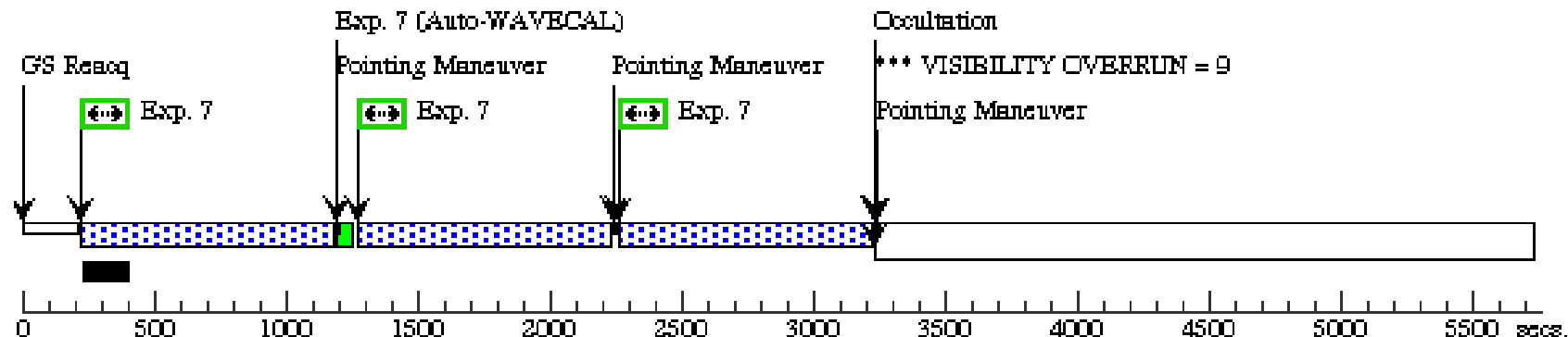
Orbit 3

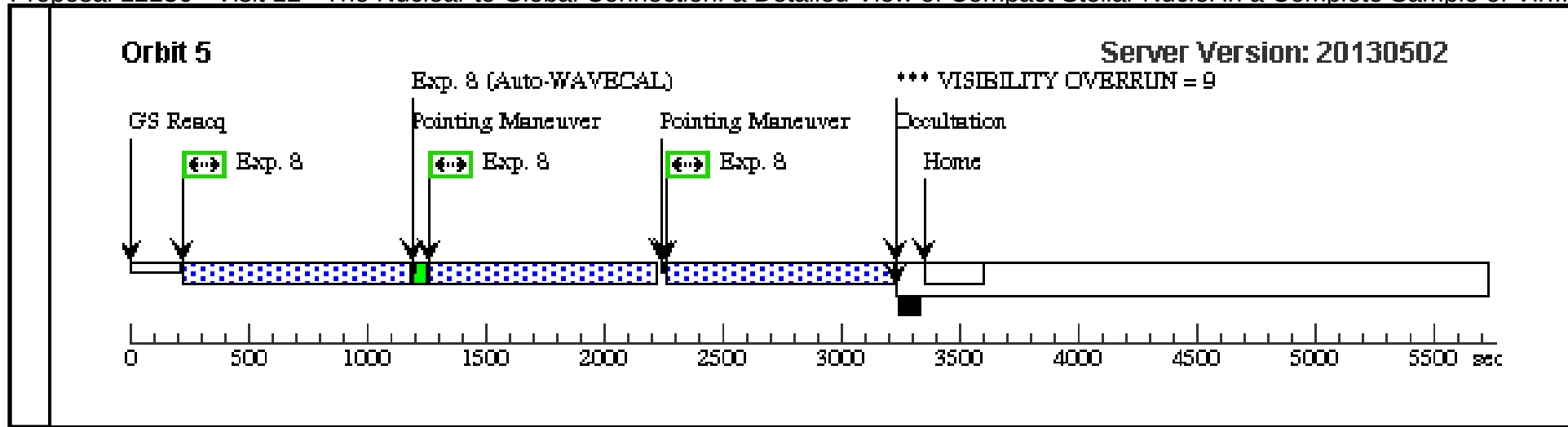
Server Version: 20130502



Orbit 4

Server Version: 20130502





Proposal 12236 - Visit 13 - The Nuclear to Global Connection: a Detailed View of Compact Stellar Nuclei in a Complete Sample of Vir...

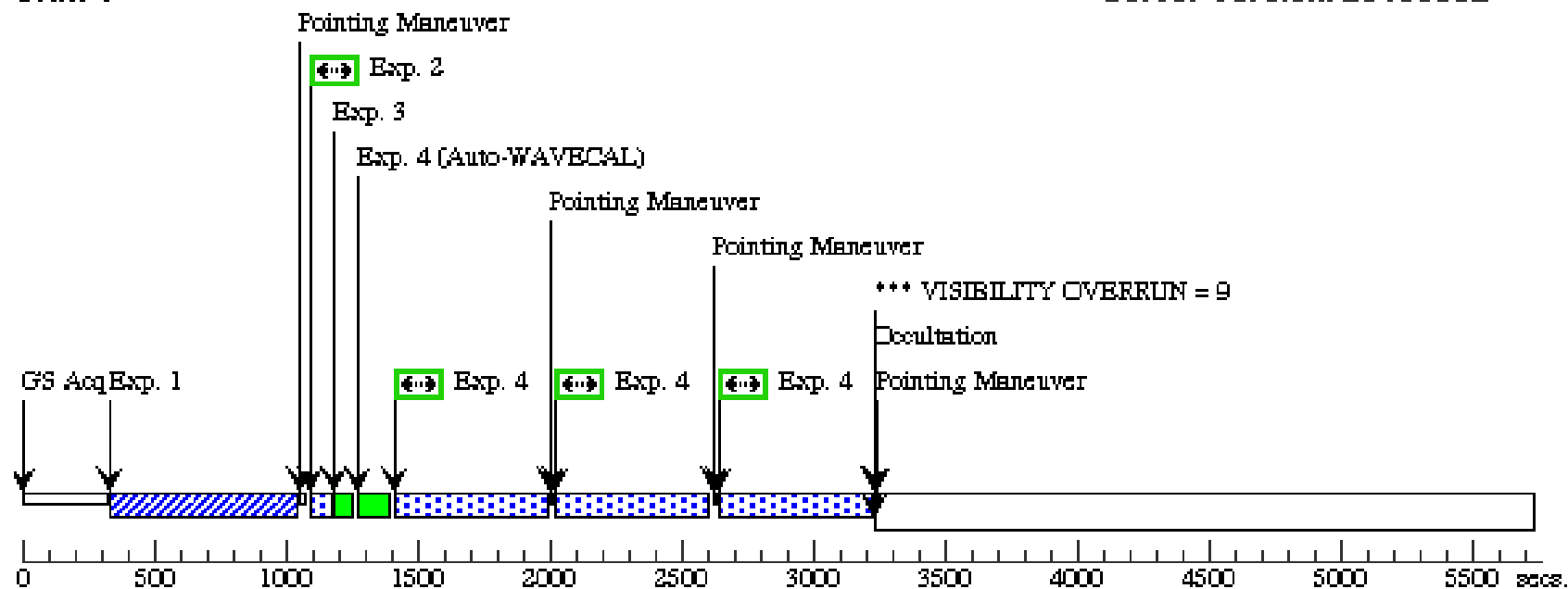
Visit	Proposal 12236, Visit 13, failed Wed Jun 19 01:05:40 GMT 2013			
	Diagnostic Status: Warning Scientific Instruments: STIS/CCD Special Requirements: SAME ORIENT AS 12			
Diagnostics	(Visit 13) Warning (Orbit Planner): VISIBILITY OVERRUN			
	(Visit 13) Warning (Orbit Planner): VISIBILITY OVERRUN			
	(Visit 13) Warning (Orbit Planner): VISIBILITY OVERRUN			
	(Visit 13) Warning (Orbit Planner): VISIBILITY OVERRUN			
	(Visit 13) Warning (Orbit Planner): VISIBILITY OVERRUN			
Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=STIS-ALONG-SLIT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=90.0 Number Of Points=3 Angle Between Sides= Point Spacing=0.2028 Center Pattern=false Line Spacing=		(4), (5), (6), (7), (8)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections
	(11)	VCC-1199	RA: 12 29 35.0144 (187.3958933d) Dec: +08 03 28.99 (8.05805d) Equinox: J2000	Fluxes V=14.54
Miscellaneous Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> <i>Coordinates from HLA F475W images corrected using GSC2.</i> <i>The V-band magnitude given is the galaxy's total integrated magnitude from the Virgo Cluster Catalogue (Binggeli et al. 1985), converted from the B-band using Fukugita et al. (1995). As such, it is a "worst case scenario" situation in terms of brightness (i.e. much much brighter than what will actually be entering the slit).</i>				

Proposal 12236 - Visit 13 - The Nuclear to Global Connection: a Detailed View of Compact Stellar Nuclei in a Complete Sample of Vir...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	VCC 1199 ACQ	(11) VCC-1199	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=3; DIFFUSE-CENTER=FLUX-CENTROID			120 Secs (120 Secs) [==>]	[1]
	2	VCC 1199 image through the slit	(11) VCC-1199	STIS/CCD, ACCUM, 52X0.2E1	MIRROR	BINAXIS1=1; BINAXIS2=1; CR-SPLIT=NO; GAIN=1			30 Secs (30 Secs) [==>30.0 Secs]	[1]
	Comments: An image of the galaxy through the slit, to be observed after the acquisition sequence to verify where the nucleus is located on the CCD.									
	3	Lamp image through slit (for second VCC 1199 visit)	NONE	STIS/CCD, ACCUM, 52X0.2	MIRROR	LAMP=TUNGSTEN			0.2 Secs (0.2 Secs) [==>]	[1]
	Comments: Image of lamp through slit in order to determine slit edges.									
	4	VCC 1199 Science Exposure	(11) VCC-1199	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 4-4 in Visit 13 (1)	500 Secs (1702 Secs) [==>568.0 Secs (Pattern 1)] [==>567.0 Secs (Pattern 2)] [==>567.0 Secs (Pattern 3)]	[1]
	5	VCC 1199 Science Exposure	(11) VCC-1199	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 5-5 in Visit 13 (1)	850 Secs (2838 Secs) [==>946.0 Secs (Pattern 1)] [==>946.0 Secs (Pattern 2)] [==>946.0 Secs (Pattern 3)]	[2]
	6	VCC 1199 Science Exposure	(11) VCC-1199	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 6-6 in Visit 13 (1)	850 Secs (2838 Secs) [==>946.0 Secs (Pattern 1)] [==>946.0 Secs (Pattern 2)] [==>946.0 Secs (Pattern 3)]	[3]
	7	VCC 1199 Science Exposure	(11) VCC-1199	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 7-7 in Visit 13 (1)	850 Secs (2838 Secs) [==>946.0 Secs (Pattern 1)] [==>946.0 Secs (Pattern 2)] [==>946.0 Secs (Pattern 3)]	[4]
	8	VCC 1199 Science Exposure	(11) VCC-1199	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 8-8 in Visit 13 (1)	850 Secs (2835 Secs) [==>945.0 Secs (Pattern 1)] [==>945.0 Secs (Pattern 2)] [==>945.0 Secs (Pattern 3)]	[5]

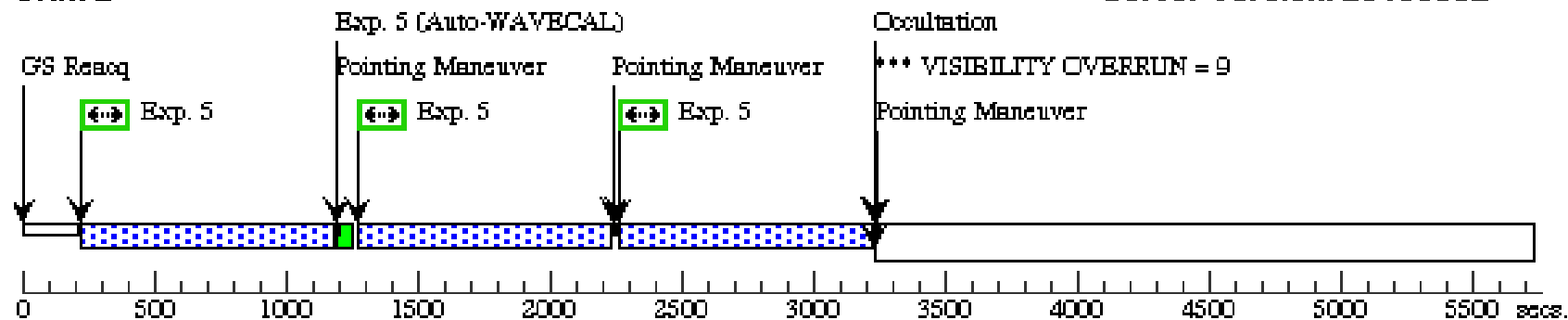
Orbit 1

Server Version: 20130502



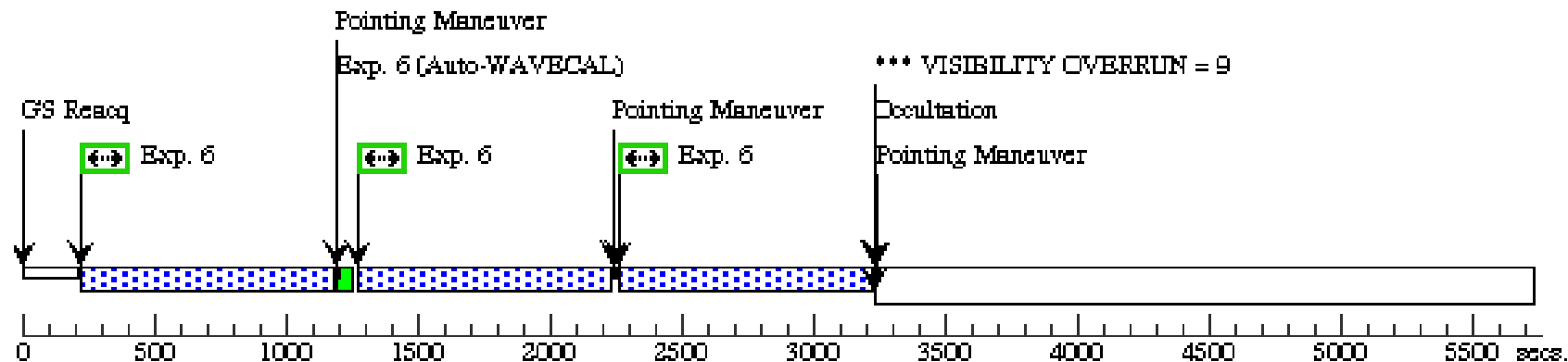
Orbit 2

Server Version: 20130502



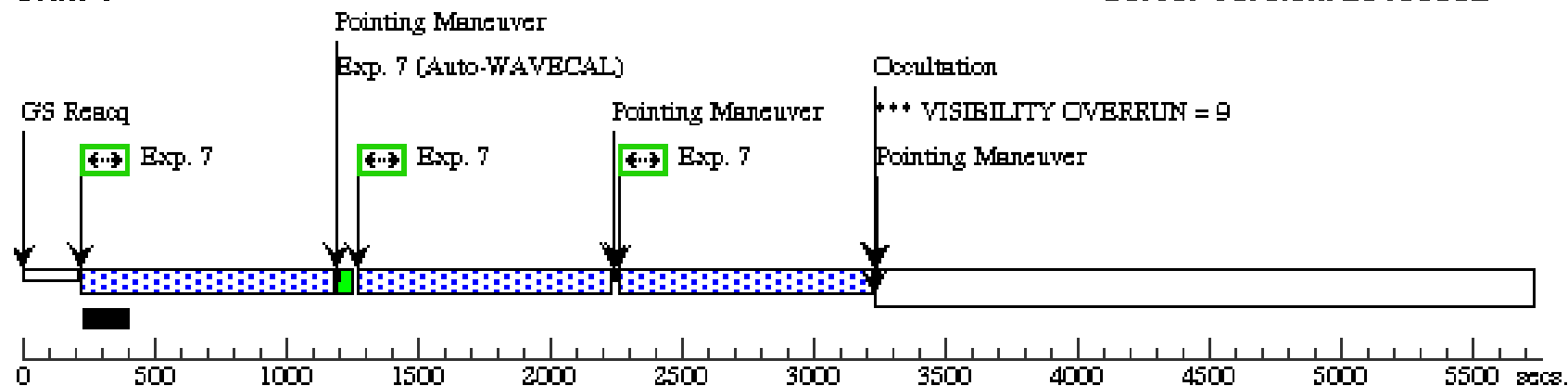
Orbit 3

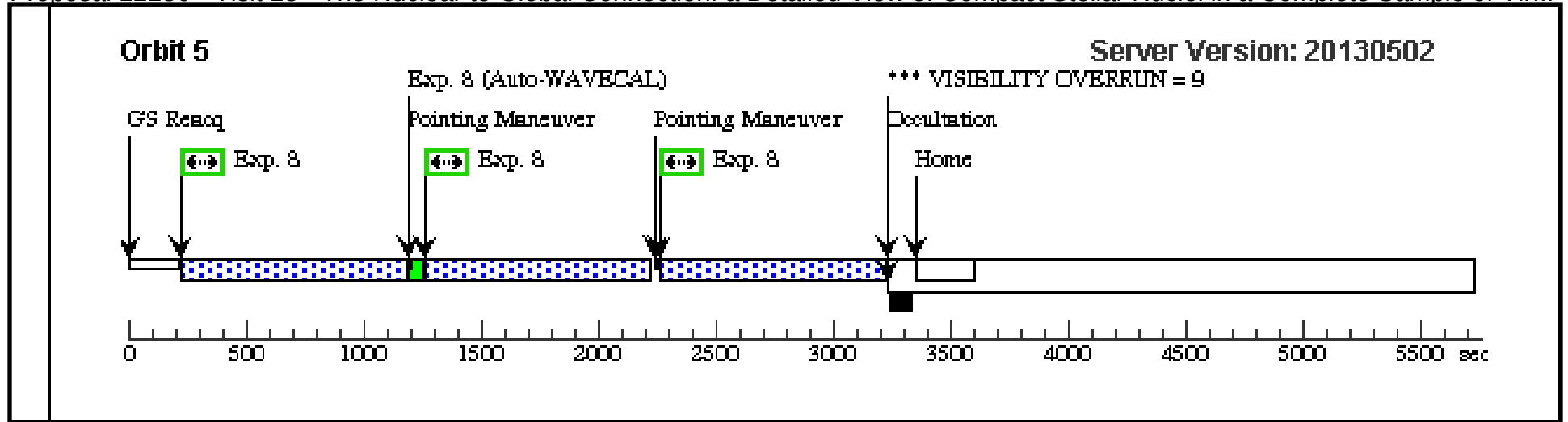
Server Version: 20130502



Orbit 4

Server Version: 20130502



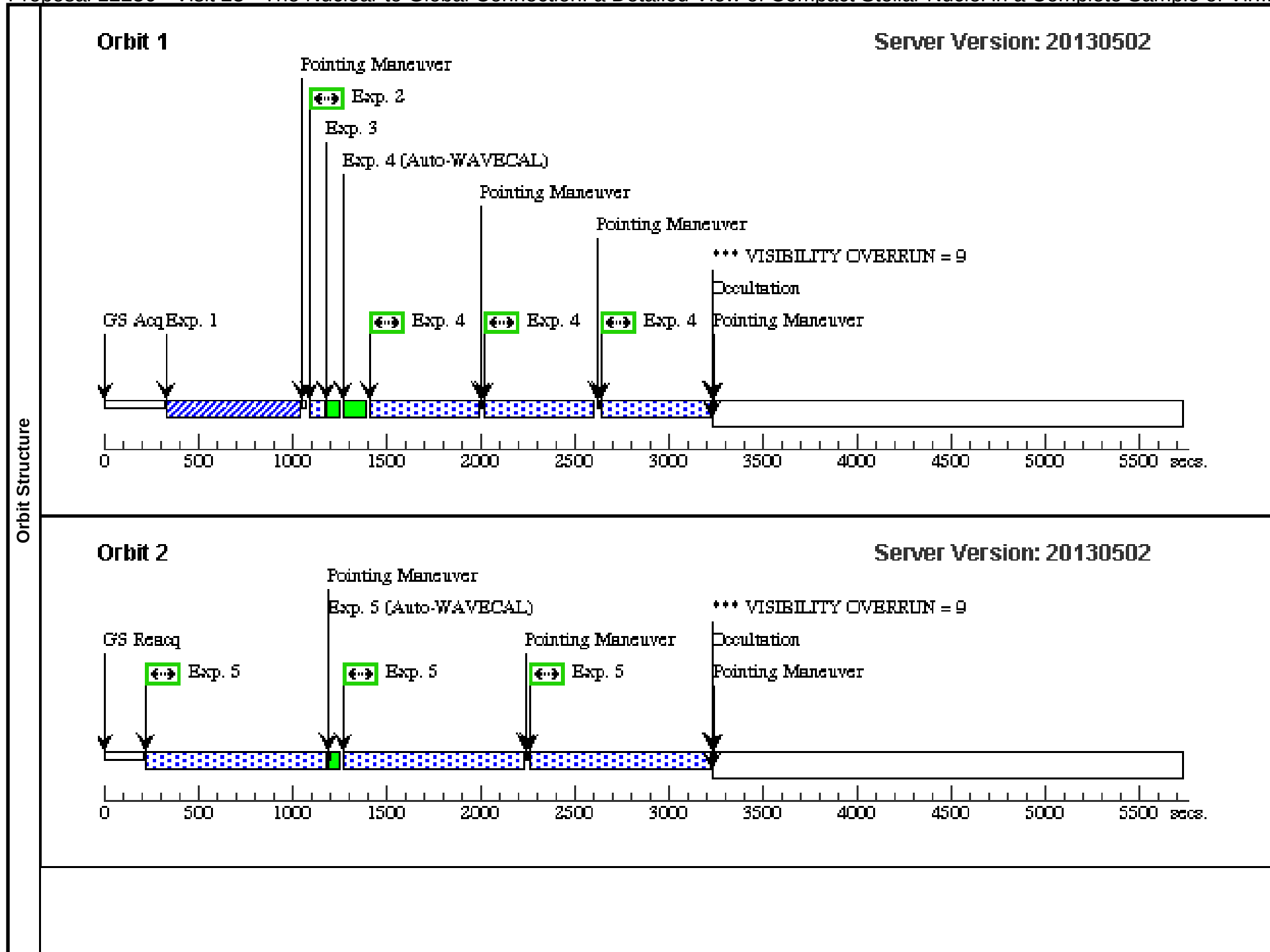


Proposal 12236 - Visit 23 - The Nuclear to Global Connection: a Detailed View of Compact Stellar Nuclei in a Complete Sample of Vir...

Visit	Proposal 12236, Visit 23, completed Wed Jun 19 01:05:44 GMT 2013			
	Diagnostic Status: Warning Scientific Instruments: STIS/CCD Special Requirements: SAME ORIENT AS 12 <i>Comments: Repeat of orbits 2-4 of visit 13.</i>			
Diagnostics	(Visit 23) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 23) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 23) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 23) Warning (Orbit Planner): VISIBILITY OVERRUN			
Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=STIS-ALONG-SLIT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=90.0 Number Of Points=3 Angle Between Sides= Point Spacing=0.2028 Center Pattern=false Line Spacing=		(4), (5), (6), (7)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections
	(11)	VCC-1199	RA: 12 29 35.0144 (187.3958933d) Dec: +08 03 28.99 (8.05805d) Equinox: J2000	Fluxes
	Comments: This object was generated by the targetselector and retrieved from the NED database. Coordinates from HLA F475W images corrected using GSC2. The V-band magnitude given is the galaxy's total integrated magnitude from the Virgo Cluster Catalogue (Binggeli et al. 1985), converted from the B-band using Fukugita et al. (1995). As such, it is a "worst case scenario" situation in terms of brightness (i.e. much much brighter than what will actually be entering the slit).			
	Miscellaneous Reference Frame: ICRS			

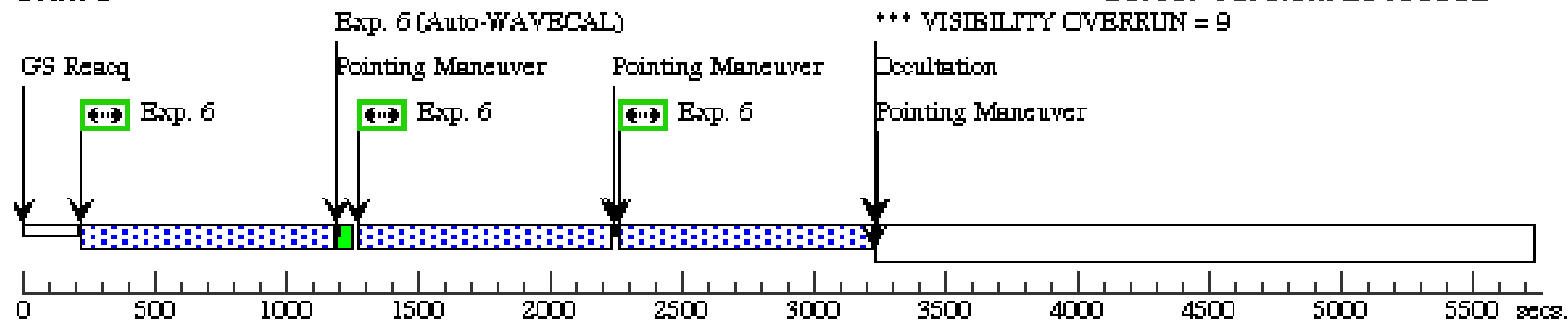
Proposal 12236 - Visit 23 - The Nuclear to Global Connection: a Detailed View of Compact Stellar Nuclei in a Complete Sample of Vir...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	VCC 1199 ACQ	(11) VCC-1199	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=3; DIFFUSE-CENTER=FLUX-CENTROID			120 Secs (120 Secs) [==>]	[1]
	2	VCC 1199 image through the slit	(11) VCC-1199	STIS/CCD, ACCUM, 52X0.2E1	MIRROR	BINAXIS1=1; BINAXIS2=1; CR-SPLIT=NO; GAIN=1			30 Secs (30 Secs) [==>30.0 Secs]	[1]
	Comments: An image of the galaxy through the slit, to be observed after the acquisition sequence to verify where the nucleus is located on the CCD.									
	3	Lamp image through slit (for second VCC 1199 visit)	NONE	STIS/CCD, ACCUM, 52X0.2	MIRROR	LAMP=TUNGSTEN			0.2 Secs (0.2 Secs) [==>]	[1]
	Comments: Image of lamp through slit in order to determine slit edges.									
	4	VCC 1199 Science Exposure	(11) VCC-1199	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 4-4 in Visit 23 (1)	500 Secs (1702 Secs) [==>568.0 Secs (Pattern 1)] [==>567.0 Secs (Pattern 2)] [==>567.0 Secs (Pattern 3)]	[1]
	5	VCC 1199 Science Exposure	(11) VCC-1199	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 5-5 in Visit 23 (1)	850 Secs (2838 Secs) [==>946.0 Secs (Pattern 1)] [==>946.0 Secs (Pattern 2)] [==>946.0 Secs (Pattern 3)]	[2]
	6	VCC 1199 Science Exposure	(11) VCC-1199	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 6-6 in Visit 23 (1)	850 Secs (2838 Secs) [==>946.0 Secs (Pattern 1)] [==>946.0 Secs (Pattern 2)] [==>946.0 Secs (Pattern 3)]	[3]
	7	VCC 1199 Science Exposure	(11) VCC-1199	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A	CR-SPLIT=NO; BINAXIS1=1; BINAXIS2=4; GAIN=1		Pattern 1, Exps 7-7 in Visit 23 (1)	850 Secs (2838 Secs) [==>946.0 Secs (Pattern 1)] [==>946.0 Secs (Pattern 2)] [==>946.0 Secs (Pattern 3)]	[4]



Orbit 3

Server Version: 20130502



Orbit 4

Server Version: 20130502

