



# 17440 - Assembling the Milky Way: Adding Globular Clusters from the Sagittarius Dwarf Galaxy

Cycle: 31, Proposal Category: GO  
(Availability Mode: SUPPORTED)

## INVESTIGATORS

<i>Name</i>	<i>Institution</i>
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Dr. Maren Hempel (CoI) (Contact)	Universidad Andres Bello

## 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>
44	(1) MINNI144	WFC3/UVIS	1	25-Jun-2024 18:00:18.0	yes
45	(2) MINNI145	WFC3/UVIS	1	25-Jun-2024 18:00:19.0	yes
46	(3) MINNI146	WFC3/UVIS	1	25-Jun-2024 18:00:19.0	yes
47	(4) MINNI147	WFC3/UVIS	1	25-Jun-2024 18:00:20.0	yes
48	(5) MINNI148	WFC3/UVIS	1	25-Jun-2024 18:00:21.0	yes
11	(6) MINNI311	WFC3/UVIS	1	25-Jun-2024 18:00:22.0	yes
24	(7) MINNI324	WFC3/UVIS	1	25-Jun-2024 18:00:22.0	yes
25	(8) MINNI325	WFC3/UVIS	1	25-Jun-2024 18:00:23.0	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>
26	(9) MINNI326	WFC3/UVIS	1	25-Jun-2024 18:00:24.0	yes
28	(10) MINNI328	WFC3/UVIS	1	25-Jun-2024 18:00:25.0	yes
29	(11) MINNI329	WFC3/UVIS	1	25-Jun-2024 18:00:25.0	yes
30	(12) MINNI330	WFC3/UVIS	1	25-Jun-2024 18:00:26.0	yes

12 Total Orbits Used

### **ABSTRACT**

Globular clusters (GCs) are important tools to rebuild the accretion history of a galaxy. The newly discovered population of GCs in the main body of the Sagittarius (Sgr) dwarf galaxy can be used to probe this ongoing accretion event onto the Milky Way (MW). We propose to obtain deep WFC3 color-magnitude diagrams, reaching 2-3 magnitudes below the main sequence turn-off, for a dozen of these new Sgr GCs. Our main aim is to measure precise metallicities and ages for these objects, and also derive their structural parameters. The results will allow us to more fully characterize the complete GC system of the infalling Sgr dwarf galaxy, and its ongoing contributions to metallicity distribution, luminosity function, and age-metallicity relations of the Milky Way. This will help paint a detailed picture of galactic cannibalization in our own backyard, a process which continues to shape the Milky Way, and the evolution of galaxies everywhere.

### **OBSERVING DESCRIPTION**

We have opted for F606W and F814W for this program because these WFC3 filters have been used in the Treasury Survey of MW GCs and for the current 'missing' clusters program as well.

Each of the 12 targets will receive a visit of one orbit. The orbit will be divided into 6 exposures, three in each filter, with the exposure time sequence 10-510-510 for F606W and then 510-510-10 for F814W. The short exposures allow unsaturated photometry of the upper RGB ( $V \sim 14$ ) in the targets. We have opted for the same exposure times in the two filters because they each reach comparable S/N in equal

Proposal 17440 (STScI Edit Number: 1, Created: Tuesday, June 25, 2024 at 5:00:27 PM Eastern Standard Time) - Overview times for a K0III SED.

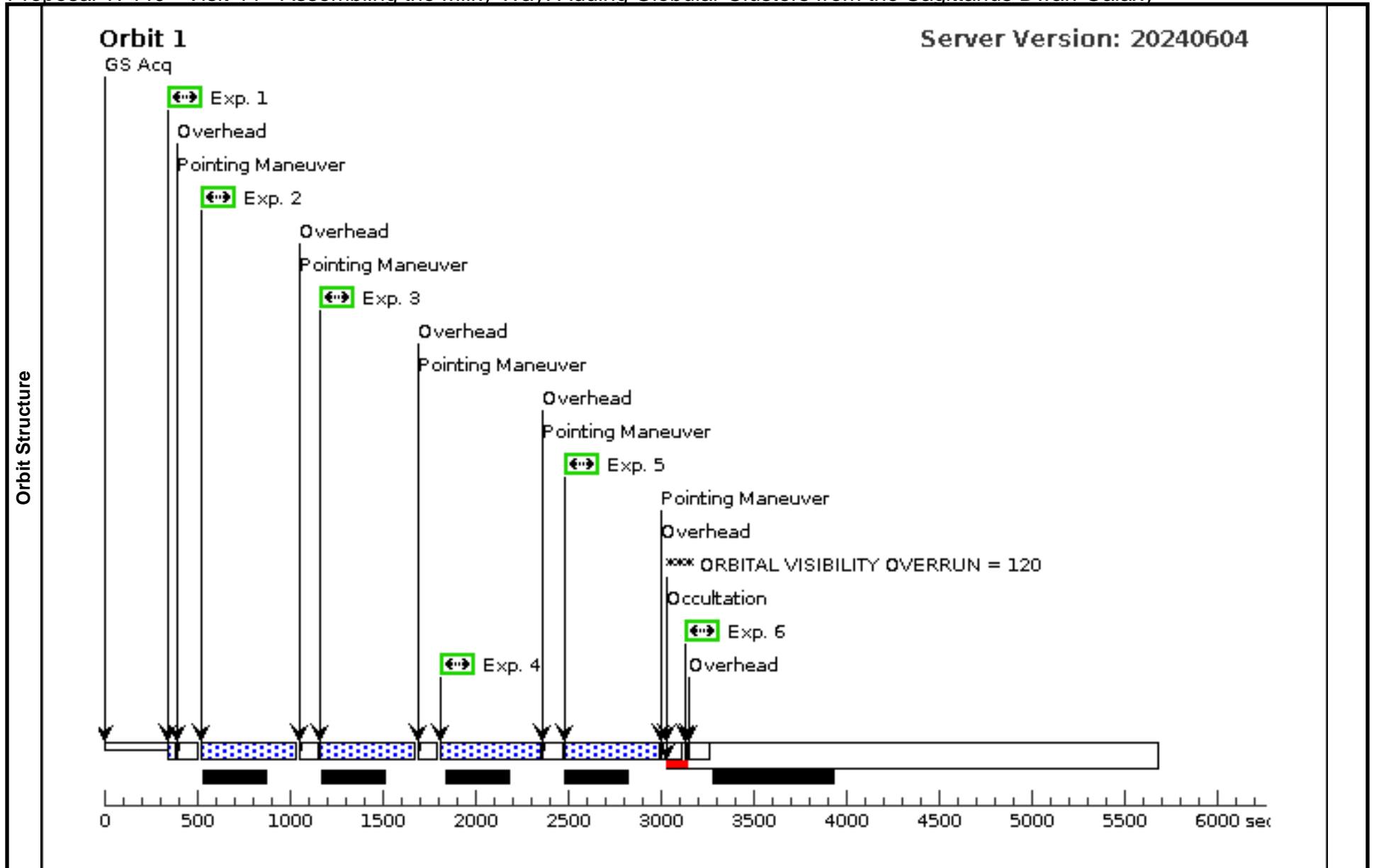
Our goal is to reach 2-3 magnitudes below the old metal-poor MSTO in the targets to measure the lower main sequence and turnoff regions. Adopting a typical distance of 26.5 kpc, and  $A_V \approx 0.25$  the effective  $m-M = 17.5$ . Scaling from the well-studied Sagittarius GC M54, this puts the MSTO at  $V \approx 22$  with  $V-I \approx 0.6$ , corresponding to a late F-star or early G-star. At 2.5 magnitudes fainter than the MSTO, the color is  $\sim 0.8-1.0$ , an early to mid K-star with  $V=24.5$ . The WFC3 ETC shows that WFC3 will reach an optimum S/N of  $\sim 40-50$  at 2.5 magnitudes below the MSTO. At the MSTO, both filters reach S/N of  $\sim 100$  or better, providing high quality photometry for fitting isochrones and determining cluster properties.

We use small dither steps between exposures as it is not necessary to cover the inter-chip gap region, thus all parts of the image receive the full exposure time. Buffer dump limitations, unfortunately, make parallel ACS exposures impossible with the chosen strategy.

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Tue Jun 25 22:00:27 GMT 2024

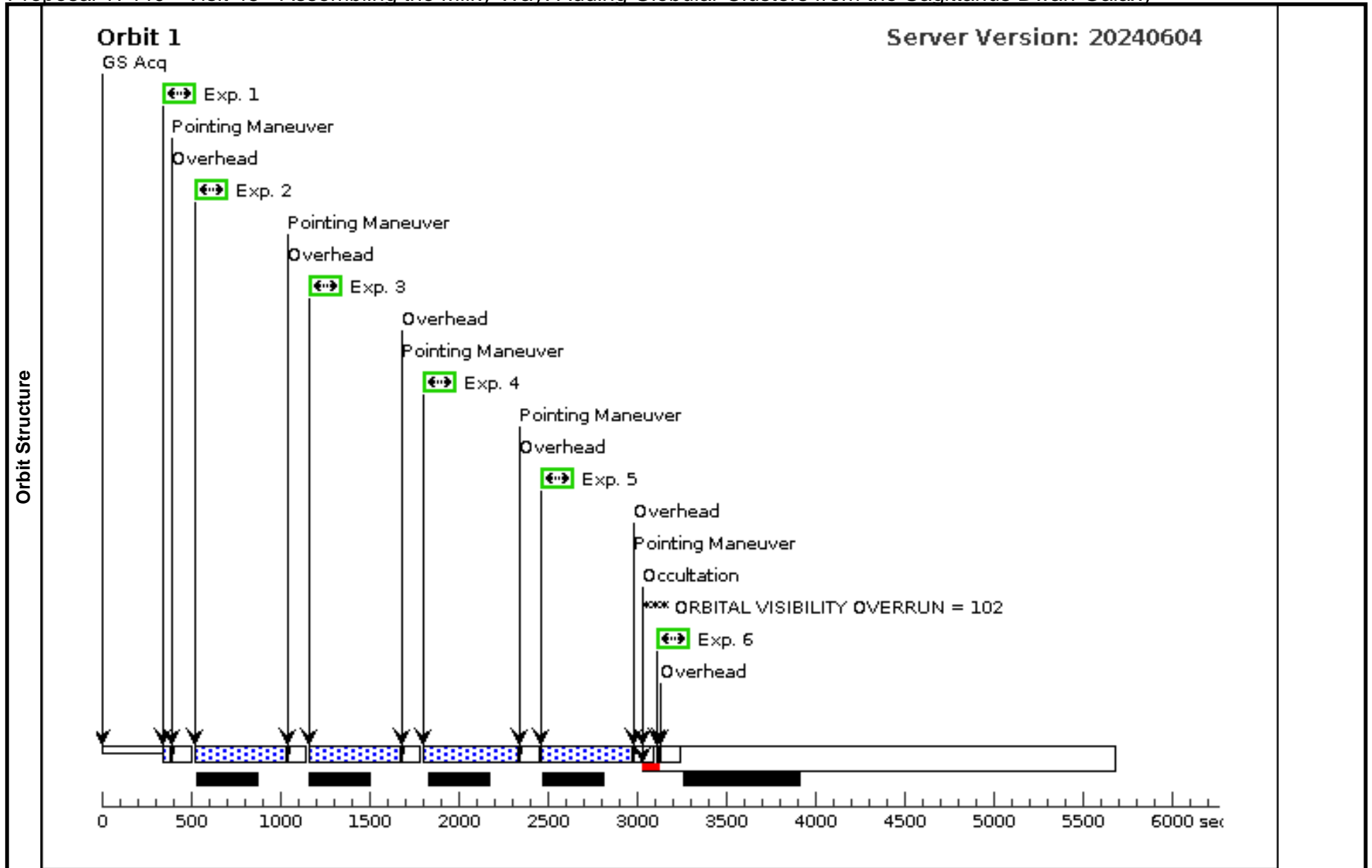
<b>Visit</b>	Proposal 17440, Visit 44, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(Visit 44) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	MINNI144	RA: 18 40 9.0000 (280.0375000d) Dec: -30 34 26.00 (-30.57389d) Equinox: J2000		V=24.0+/-0.1	Reference Frame: ICRS				
Comments: Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER]										
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) MINNI144	(1) MINNI144	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	FLASH=16	POS TARG -0.1785, -0.1908		10 Secs (10 Secs)	
									[==>]	[1]
	2	(1) MINNI144	(1) MINNI144	WFC3/UVIS, ACCUM, UVIS-FIX	F606W		POS TARG 0.0,0.0		515 Secs (515 Secs)	
									[==>]	[1]
	3	(1) MINNI144	(1) MINNI144	WFC3/UVIS, ACCUM, UVIS-FIX	F606W		POS TARG 0.1785,0 .1908		515 Secs (515 Secs)	
									[==>]	[1]
	4	(1) MINNI144	(1) MINNI144	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=5	POS TARG 0.3173,0 .3591		515 Secs (515 Secs)	
								[==>]	[1]	
5	(1) MINNI144	(1) MINNI144	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=5	POS TARG 0.4958,0 .5499		515 Secs (515 Secs)		
								[==>]	[1]	
6	(1) MINNI144	(1) MINNI144	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=16	POS TARG 0.6743,0 .7407		10 Secs (10 Secs)		
								[==>]	[1]	



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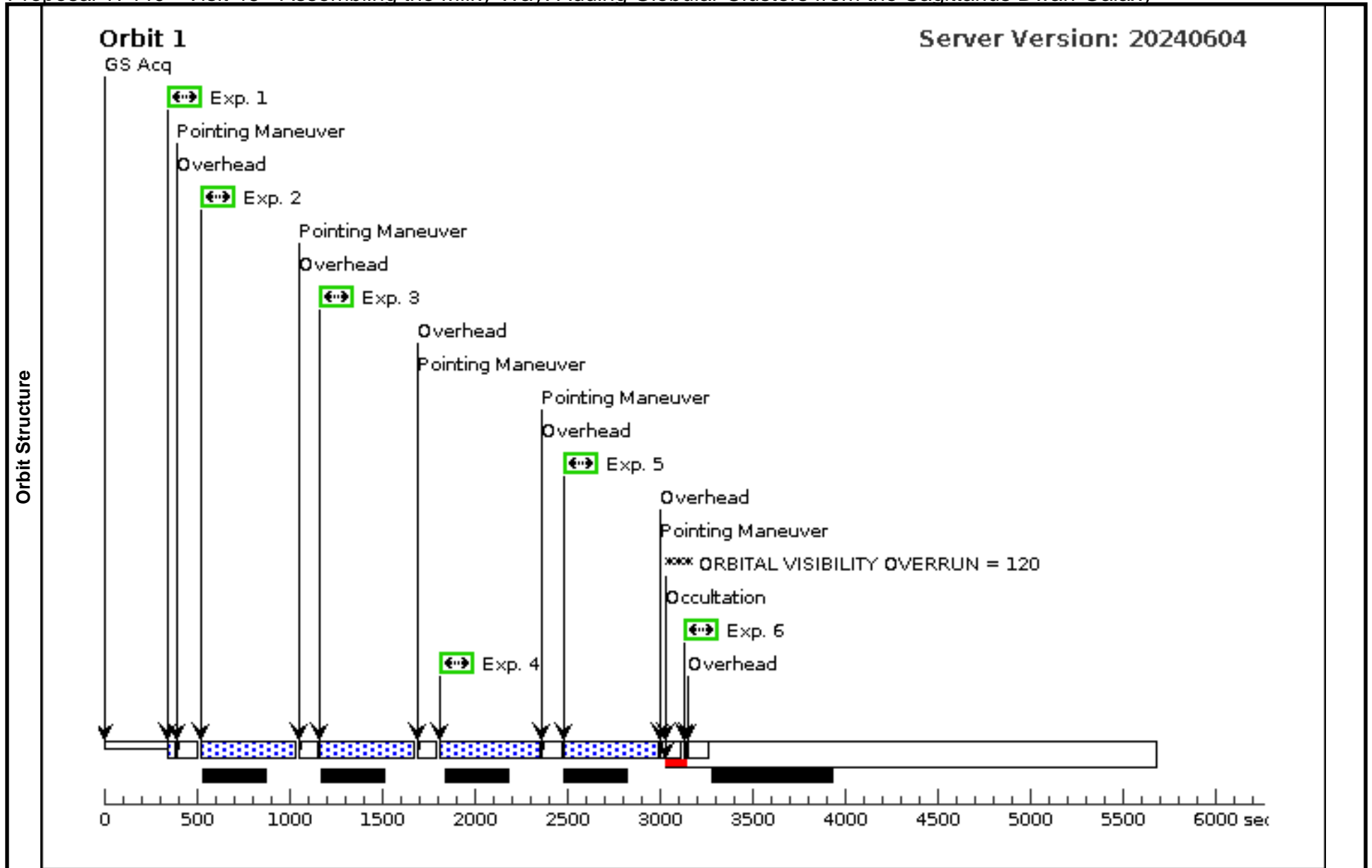
<b>Visit</b>	Proposal 17440, Visit 45, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(Visit 45) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	MINNI145	RA: 18 53 28.0000 (283.366667d) Dec: -28 33 44.00 (-28.56222d) Equinox: J2000		V=24.0+/-0.1	Reference Frame: ICRS				
Comments: Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER]										
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(2) MINNI145		WFC3/UVIS, ACCUM, UVIS-FIX	F606W	FLASH=16	POS TARG -0.1785, -0.1908		10 Secs (10 Secs)	
									[==>]	[1]
	2	(2) MINNI145		WFC3/UVIS, ACCUM, UVIS-FIX	F606W		POS TARG 0.0,0.0		510 Secs (510 Secs)	
									[==>]	[1]
	3	(2) MINNI145		WFC3/UVIS, ACCUM, UVIS-FIX	F606W		POS TARG 0.1785,0 .1908		510 Secs (510 Secs)	
									[==>]	[1]
	4	(2) MINNI145		WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=5	POS TARG 0.3173,0 .3591		510 Secs (510 Secs)	
								[==>]	[1]	
5	(2) MINNI145		WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=5	POS TARG 0.4958,0 .5499		510 Secs (510 Secs)		
								[==>]	[1]	
6	(2) MINNI145		WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=16	POS TARG 0.6743,0 .7407		10 Secs (10 Secs)		
								[==>]	[1]	



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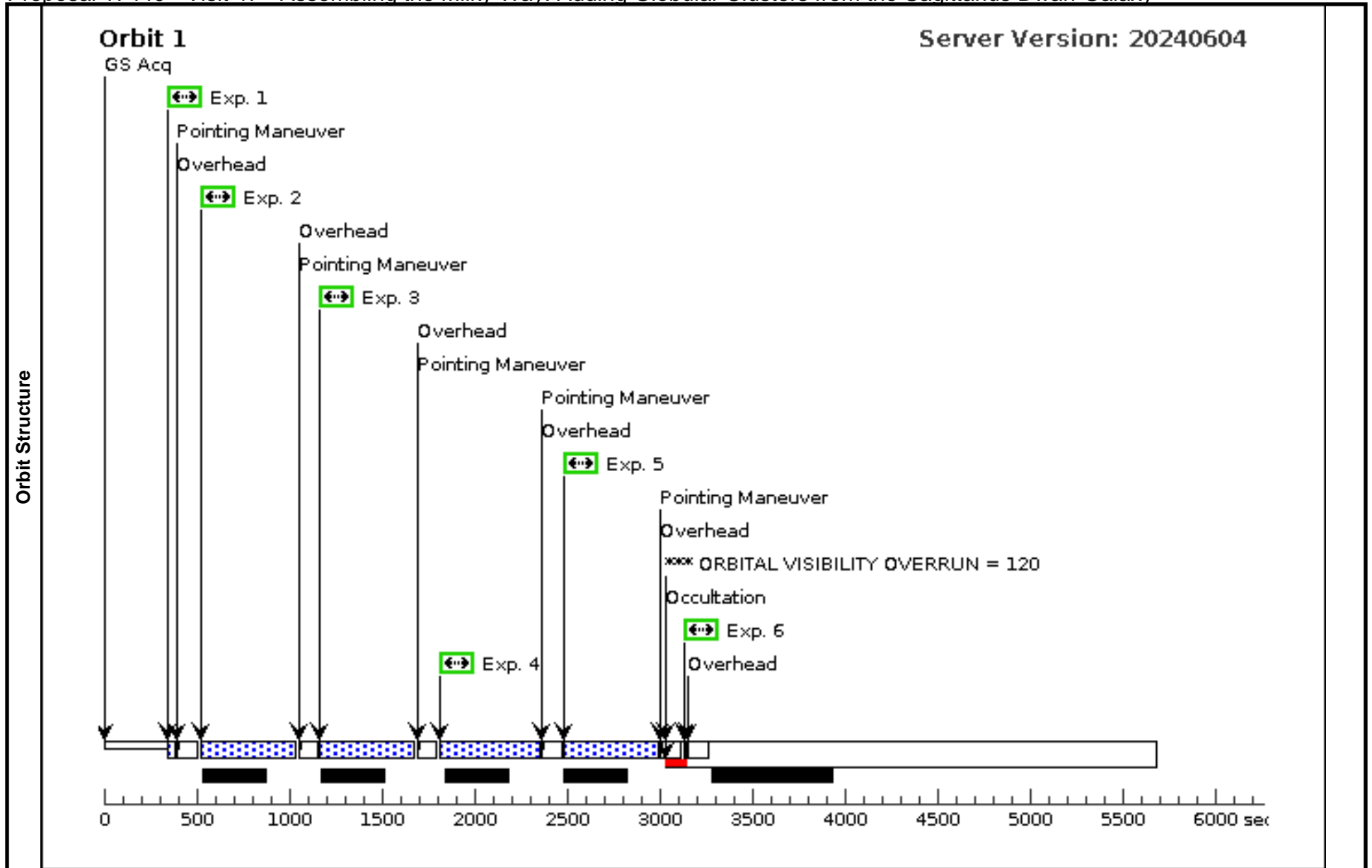
<b>Visit</b>	Proposal 17440, Visit 46, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(Visit 46) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	MINNI146	RA: 18 52 12.0000 (283.0500000d) Dec: -31 56 45.00 (-31.94583d) Equinox: J2000		V=24.0+/-0.1	Reference Frame: ICRS				
Comments: Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER]										
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) MINNI146		WFC3/UVIS, ACCUM, UVIS-FIX	F606W	FLASH=16	POS TARG -0.1785, -0.1908		10 Secs (10 Secs)	
									[==>]	[1]
	2	(3) MINNI146		WFC3/UVIS, ACCUM, UVIS-FIX	F606W		POS TARG 0.0,0.0		515 Secs (515 Secs)	
									[==>]	[1]
	3	(3) MINNI146		WFC3/UVIS, ACCUM, UVIS-FIX	F606W		POS TARG 0.1785,0 .1908		515 Secs (515 Secs)	
									[==>]	[1]
	4	(3) MINNI146		WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=5	POS TARG 0.3173,0 .3591		515 Secs (515 Secs)	
								[==>]	[1]	
5	(3) MINNI146		WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=5	POS TARG 0.4958,0 .5499		515 Secs (515 Secs)		
								[==>]	[1]	
6	(3) MINNI146		WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=16	POS TARG 0.6743,0 .7407		10 Secs (10 Secs)		
								[==>]	[1]	



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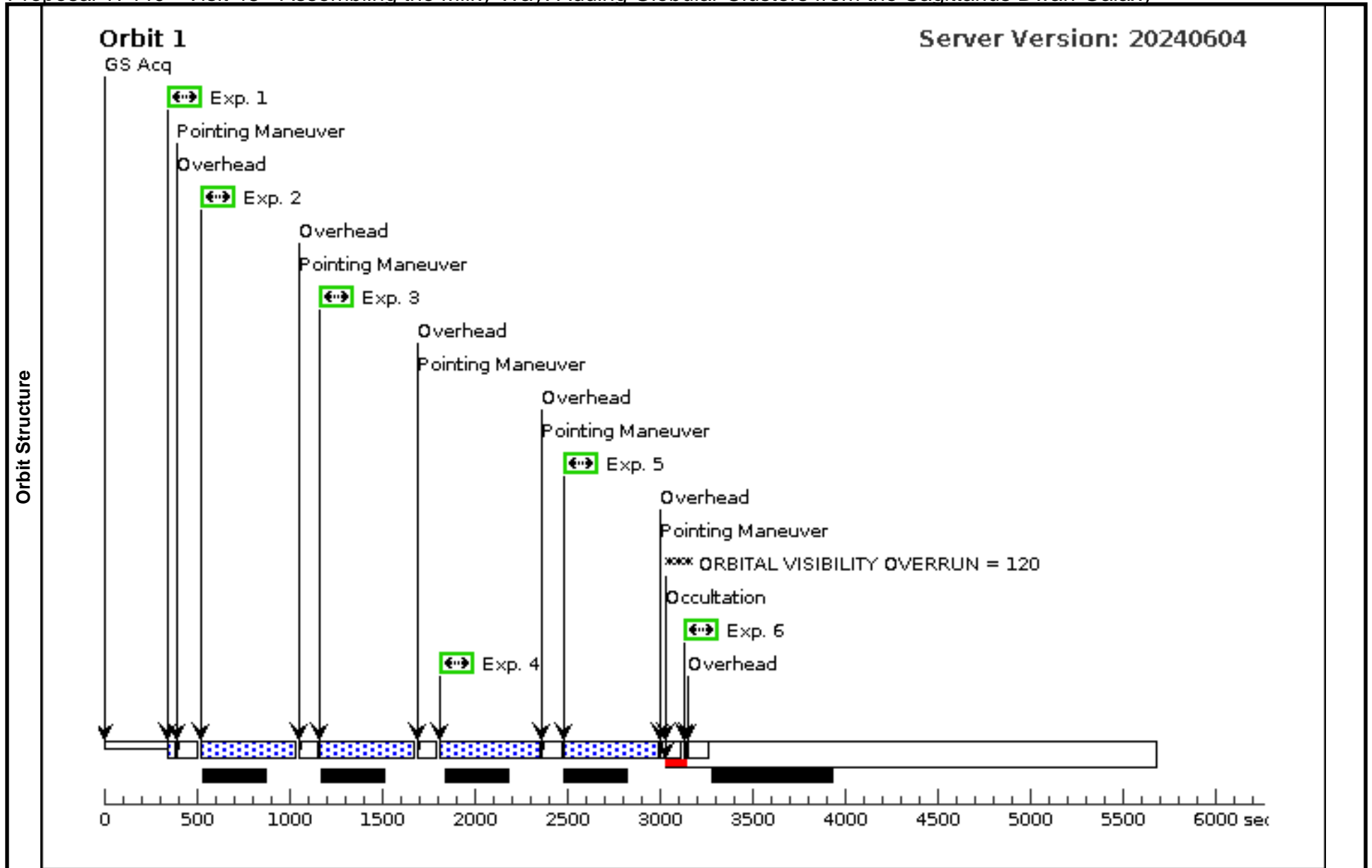
<b>Visit</b>	Proposal 17440, Visit 47, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(Visit 47) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	MINNI147	RA: 18 41 56.0000 (280.4833333d) Dec: -30 56 7.00 (-30.93528d) Equinox: J2000		V=24.0+/-0.1	Reference Frame: ICRS				
Comments: Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER]										
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(4) MINNI147	(4) MINNI147	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	FLASH=16	POS TARG -0.1785, -0.1908		10 Secs (10 Secs)	
									[==>]	[1]
	2	(4) MINNI147	(4) MINNI147	WFC3/UVIS, ACCUM, UVIS-FIX	F606W		POS TARG 0.0,0.0		515 Secs (515 Secs)	
									[==>]	[1]
	3	(4) MINNI147	(4) MINNI147	WFC3/UVIS, ACCUM, UVIS-FIX	F606W		POS TARG 0.1785,0 .1908		515 Secs (515 Secs)	
									[==>]	[1]
	4	(4) MINNI147	(4) MINNI147	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=5	POS TARG 0.3173,0 .3591		515 Secs (515 Secs)	
								[==>]	[1]	
5	(4) MINNI147	(4) MINNI147	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=5	POS TARG 0.4958,0 .5499		515 Secs (515 Secs)		
								[==>]	[1]	
6	(4) MINNI147	(4) MINNI147	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=16	POS TARG 0.6743,0 .7407		10 Secs (10 Secs)		
								[==>]	[1]	



Proposal 17440 - Visit 48 - Assembling the Milky Way: Adding Globular Clusters from the Sagittarius Dwarf Galaxy

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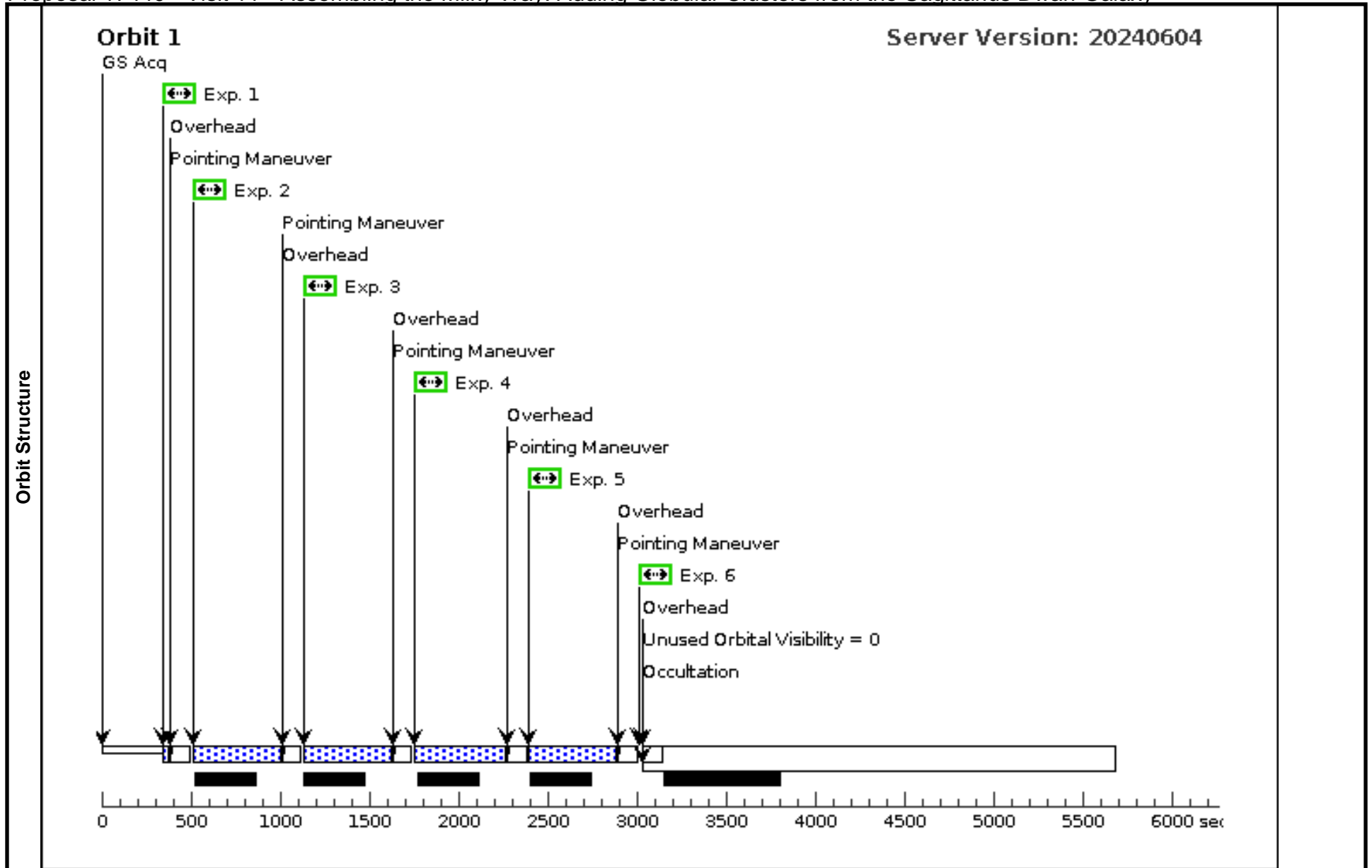
<b>Visit</b>	Proposal 17440, Visit 48, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(Visit 48) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	MINNI148	RA: 18 51 36.0000 (282.9000000d) Dec: -30 24 58.00 (-30.41611d) Equinox: J2000		V=24.0+/-0.1	Reference Frame: ICRS				
Comments: Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER]										
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(5) MINNI148		WFC3/UVIS, ACCUM, UVIS-FIX	F606W	FLASH=16	POS TARG -0.1785, -0.1908		10 Secs (10 Secs)	
									[==>]	[1]
	2	(5) MINNI148		WFC3/UVIS, ACCUM, UVIS-FIX	F606W			POS TARG 0.0,0.0	515 Secs (515 Secs)	
									[==>]	[1]
	3	(5) MINNI148		WFC3/UVIS, ACCUM, UVIS-FIX	F606W			POS TARG 0.1785,0 .1908	515 Secs (515 Secs)	
									[==>]	[1]
4	(5) MINNI148		WFC3/UVIS, ACCUM, UVIS-FIX	F814W		FLASH=5	POS TARG 0.3173,0 .3591	515 Secs (515 Secs)		
								[==>]	[1]	
5	(5) MINNI148		WFC3/UVIS, ACCUM, UVIS-FIX	F814W		FLASH=5	POS TARG 0.4958,0 .5499	515 Secs (515 Secs)		
								[==>]	[1]	
6	(5) MINNI148		WFC3/UVIS, ACCUM, UVIS-FIX	F814W		FLASH=16	POS TARG 0.6743,0 .7407	10 Secs (10 Secs)		
								[==>]	[1]	



Proposal 17440 - Visit 11 - Assembling the Milky Way: Adding Globular Clusters from the Sagittarius Dwarf Galaxy

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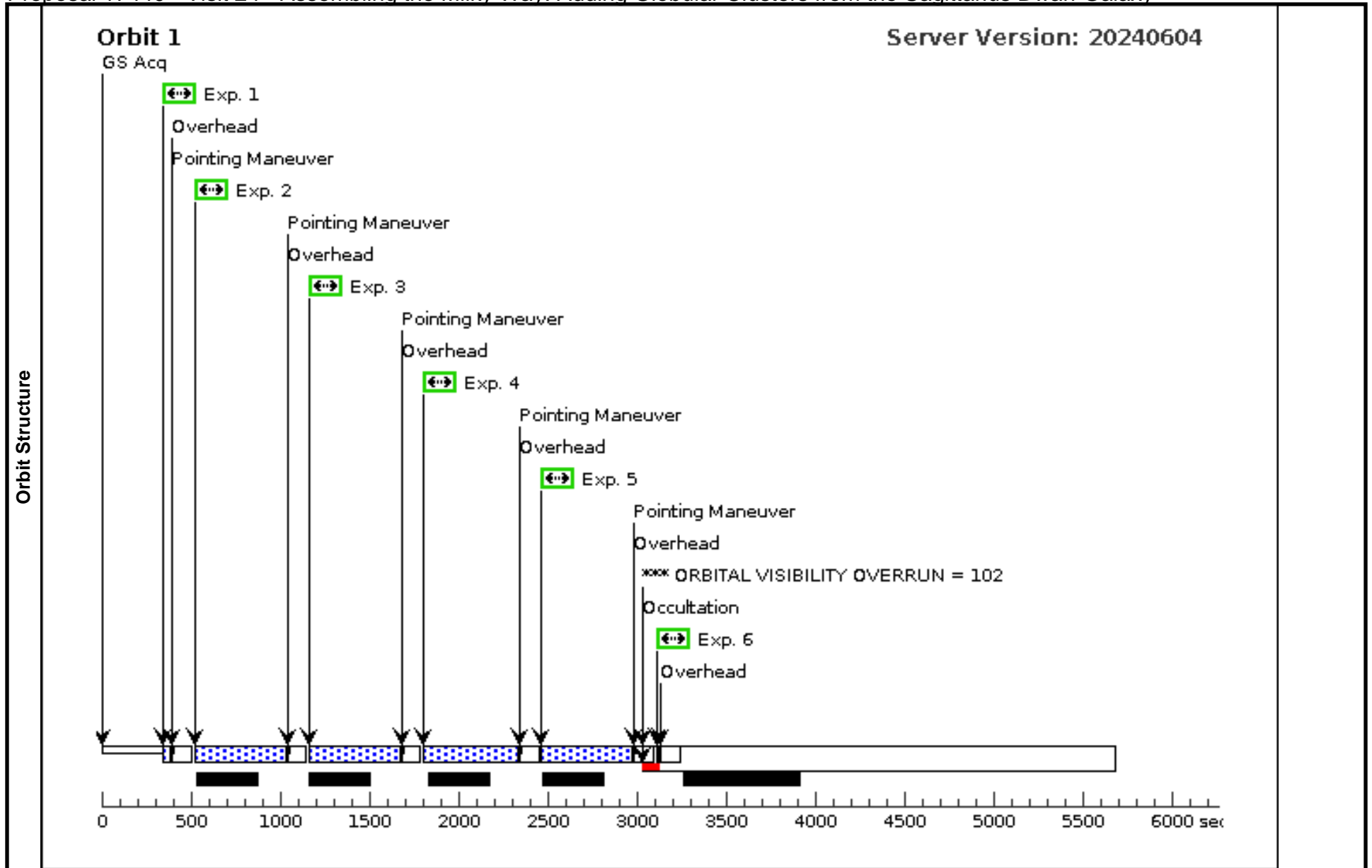
<b>Visit</b>	<b>Proposal 17440, Visit 11, implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(Exposure 4 (Visit 11)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 5 (Visit 11)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									
<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(6)	MINNI311	RA: 18 34 30.0000 (278.6250000d) Dec: -28 47 3.00 (-28.78417d) Equinox: J2000		V=24.0+/-0.1	Reference Frame: ICRS				
Comments: Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER]										
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(6) MINNI311	(6) MINNI311	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	FLASH=16	POS TARG -0.1785, -0.1908		10 Secs (0.5 Secs) [==>0.5 Secs ]	[1]
	2	(6) MINNI311	(6) MINNI311	WFC3/UVIS, ACCUM, UVIS-FIX	F606W		POS TARG 0.0,0.0		510 Secs (489 Secs) [==>489.0 Secs ]	[1]
	3	(6) MINNI311	(6) MINNI311	WFC3/UVIS, ACCUM, UVIS-FIX	F606W		POS TARG 0.1785,0 .1908		510 Secs (489 Secs) [==>489.0 Secs ]	[1]
	4	(6) MINNI311	(6) MINNI311	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=5	POS TARG 0.3173,0 .3591		510 Secs (489 Secs) [==>489.0 Secs ]	[1]
	5	(6) MINNI311	(6) MINNI311	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=5	POS TARG 0.4958,0 .5499		510 Secs (489 Secs) [==>489.0 Secs ]	[1]
	6	(6) MINNI311	(6) MINNI311	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=16	POS TARG 0.6743,0 .7407		10 Secs (0.5 Secs) [==>0.5 Secs ]	[1]



Proposal 17440 - Visit 24 - Assembling the Milky Way: Adding Globular Clusters from the Sagittarius Dwarf Galaxy

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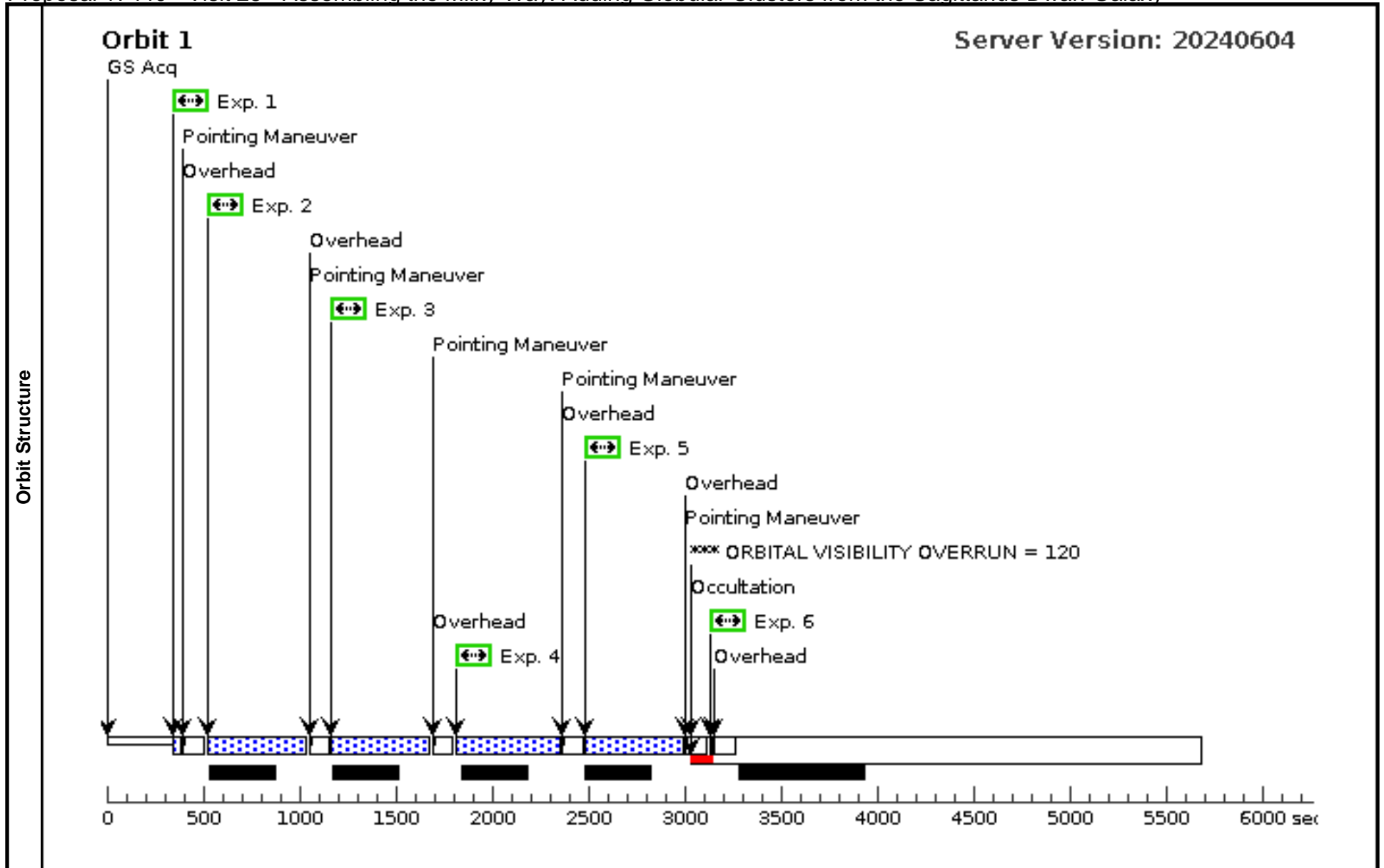
<b>Visit</b>	Proposal 17440, Visit 24, completed <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: (none)										
	(Visit 24) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(7)	MINNI324	RA: 18 46 21.6663 (281.5902762d) Dec: -29 28 47.09 (-29.47975d) Equinox: J2000				V=24.0+/-0.1	Reference Frame: ICRS			
Comments: Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER]											
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>		<b>Orbit</b>
	1	(7) MINNI324	(7) MINNI324	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	FLASH=16	POS TARG -0.1785, -0.1908		10 Secs (10 Secs)	[1]	
	2	(7) MINNI324	(7) MINNI324	WFC3/UVIS, ACCUM, UVIS-FIX	F606W		POS TARG 0.0,0.0		510 Secs (510 Secs)	[1]	
	3	(7) MINNI324	(7) MINNI324	WFC3/UVIS, ACCUM, UVIS-FIX	F606W		POS TARG 0.1785,0 .1908		510 Secs (510 Secs)	[1]	
	4	(7) MINNI324	(7) MINNI324	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=5	POS TARG 0.3173,0 .3591		510 Secs (510 Secs)	[1]	
	5	(7) MINNI324	(7) MINNI324	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=5	POS TARG 0.4958,0 .5499		510 Secs (510 Secs)	[1]	
	6	(7) MINNI324	(7) MINNI324	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=16	POS TARG 0.6743,0 .7407		10 Secs (10 Secs)	[1]	



Proposal 17440 - Visit 25 - Assembling the Milky Way: Adding Globular Clusters from the Sagittarius Dwarf Galaxy

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<b>Visit</b>	Proposal 17440, Visit 25, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(Visit 25) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	MINNI325	RA: 18 54 10.0000 (283.5416667d) Dec: -31 58 12.00 (-31.97000d) Equinox: J2000		V=24.0+/-0.1	Reference Frame: ICRS				
Comments: Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER]										
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(8) MINNI325	(8) MINNI325	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	FLASH=16	POS TARG -0.1785, -0.1908		10 Secs (10 Secs)	
									[==>]	[1]
	2	(8) MINNI325	(8) MINNI325	WFC3/UVIS, ACCUM, UVIS-FIX	F606W		POS TARG 0.0,0.0		515 Secs (515 Secs)	
									[==>]	[1]
	3	(8) MINNI325	(8) MINNI325	WFC3/UVIS, ACCUM, UVIS-FIX	F606W		POS TARG 0.1785,0 .1908		515 Secs (515 Secs)	
									[==>]	[1]
	4	(8) MINNI325	(8) MINNI325	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=5	POS TARG 0.3173,0 .3591		515 Secs (515 Secs)	
								[==>]	[1]	
5	(8) MINNI325	(8) MINNI325	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=5	POS TARG 0.4958,0 .5499		515 Secs (515 Secs)		
								[==>]	[1]	
6	(8) MINNI325	(8) MINNI325	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=16	POS TARG 0.6743,0 .7407		10 Secs (10 Secs)		
								[==>]	[1]	



Proposal 17440 - Visit 26 - Assembling the Milky Way: Adding Globular Clusters from the Sagittarius Dwarf Galaxy

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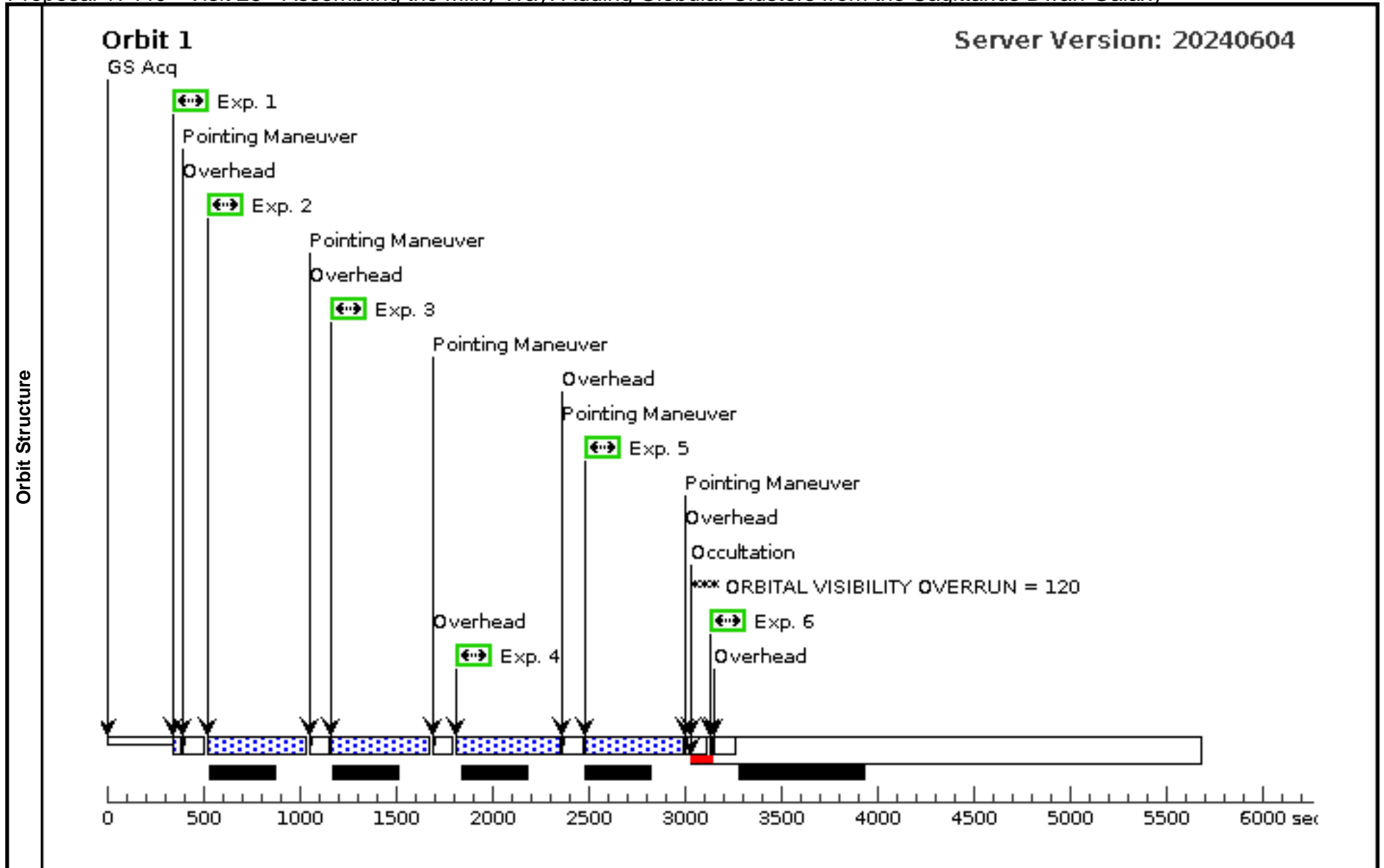
<b>Visit</b>	Proposal 17440, Visit 26, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(Visit 26) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	MINNI326	RA: 18 51 7.0000 (282.7791667d) Dec: -29 56 24.00 (-29.94000d) Equinox: J2000		V=24.0+/-0.1	Reference Frame: ICRS				
Comments: Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER]										
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(9) MINNI326	(9) MINNI326	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	FLASH=16	POS TARG -0.1785, -0.1908		10 Secs (10 Secs) [==>]	[1]
	2	(9) MINNI326	(9) MINNI326	WFC3/UVIS, ACCUM, UVIS-FIX	F606W		POS TARG 0.0,0.0		510 Secs (510 Secs) [==>]	[1]
	3	(9) MINNI326	(9) MINNI326	WFC3/UVIS, ACCUM, UVIS-FIX	F606W		POS TARG 0.1785,0 .1908		510 Secs (510 Secs) [==>]	[1]
	4	(9) MINNI326	(9) MINNI326	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=5	POS TARG 0.3173,0 .3591		510 Secs (510 Secs) [==>]	[1]
	5	(9) MINNI326	(9) MINNI326	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=5	POS TARG 0.4958,0 .5499		510 Secs (510 Secs) [==>]	[1]
	6	(9) MINNI326	(9) MINNI326	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=16	POS TARG 0.6743,0 .7407		10 Secs (10 Secs) [==>]	[1]



Proposal 17440 - Visit 28 - Assembling the Milky Way: Adding Globular Clusters from the Sagittarius Dwarf Galaxy

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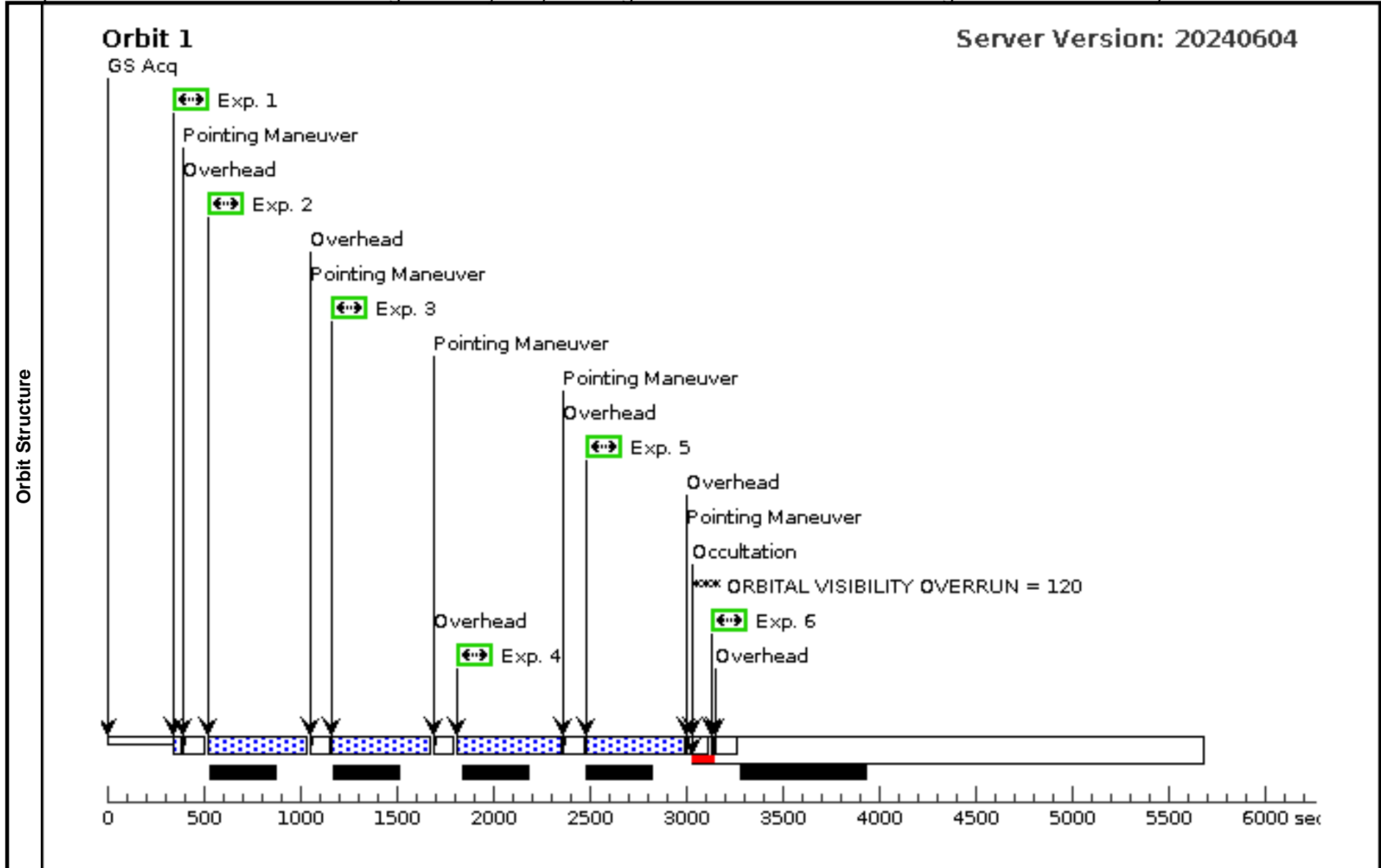
<b>Visit</b>	Proposal 17440, Visit 28, completed <b>Diagnostic Status: Warning</b> Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(Visit 28) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	MINNI328	RA: 18 47 17.0000 (281.8208333d) Dec: -30 06 0.00 (-30.10000d) Equinox: J2000		V=24.0+/-0.1	Reference Frame: ICRS				
Comments: Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER]										
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(10) MINNI328	(10) MINNI328	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	FLASH=16	POS TARG -0.1785, -0.1908		10 Secs (10 Secs)	
									[==>]	[1]
	2	(10) MINNI328	(10) MINNI328	WFC3/UVIS, ACCUM, UVIS-FIX	F606W		POS TARG 0.0,0.0		515 Secs (515 Secs)	
									[==>]	[1]
	3	(10) MINNI328	(10) MINNI328	WFC3/UVIS, ACCUM, UVIS-FIX	F606W		POS TARG 0.1785,0 .1908		515 Secs (515 Secs)	
									[==>]	[1]
	4	(10) MINNI328	(10) MINNI328	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=5	POS TARG 0.3173,0 .3591		515 Secs (515 Secs)	
								[==>]	[1]	
5	(10) MINNI328	(10) MINNI328	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=5	POS TARG 0.4958,0 .5499		515 Secs (515 Secs)		
								[==>]	[1]	
6	(10) MINNI328	(10) MINNI328	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=16	POS TARG 0.6743,0 .7407		10 Secs (10 Secs)		
								[==>]	[1]	



Proposal 17440 - Visit 29 - Assembling the Milky Way: Adding Globular Clusters from the Sagittarius Dwarf Galaxy

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<b>Visit</b>	Proposal 17440, Visit 29, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(Visit 29) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(11)	MINNI329	RA: 18 44 31.0000 (281.1291667d) Dec: -30 01 12.00 (-30.02000d) Equinox: J2000		V=24.0+/-0.1	Reference Frame: ICRS				
Comments: Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER]										
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(11) MINNI329		WFC3/UVIS, ACCUM, UVIS-FIX	F606W	FLASH=16	POS TARG -0.1785, -0.1908		10 Secs (10 Secs)	
									[==>]	[1]
	2	(11) MINNI329		WFC3/UVIS, ACCUM, UVIS-FIX	F606W		POS TARG 0.0,0.0		515 Secs (515 Secs)	
									[==>]	[1]
	3	(11) MINNI329		WFC3/UVIS, ACCUM, UVIS-FIX	F606W		POS TARG 0.1785,0 .1908		515 Secs (515 Secs)	
									[==>]	[1]
4	(11) MINNI329		WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=5	POS TARG 0.3173,0 .3591		515 Secs (515 Secs)		
								[==>]	[1]	
5	(11) MINNI329		WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=5	POS TARG 0.4958,0 .5499		515 Secs (515 Secs)		
								[==>]	[1]	
6	(11) MINNI329		WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=16	POS TARG 0.6743,0 .7407		10 Secs (10 Secs)		
								[==>]	[1]	



Proposal 17440 - Visit 30 - Assembling the Milky Way: Adding Globular Clusters from the Sagittarius Dwarf Galaxy

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<b>Visit</b>	Proposal 17440, Visit 30, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(Visit 30) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	MINNI330	RA: 18 55 38.0000 (283.9083333d) Dec: -29 59 24.00 (-29.99000d) Equinox: J2000		V=24.0+/-0.1	Reference Frame: ICRS				
Comments: Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER]										
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(12) MINNI330	(12) MINNI330	WFC3/UVIS, ACCUM, UVIS-FIX	F606W	FLASH=16	POS TARG -0.1785, -0.1908		10 Secs (10 Secs) [==>]	[1]
	2	(12) MINNI330	(12) MINNI330	WFC3/UVIS, ACCUM, UVIS-FIX	F606W		POS TARG 0.0,0.0		510 Secs (510 Secs) [==>]	[1]
	3	(12) MINNI330	(12) MINNI330	WFC3/UVIS, ACCUM, UVIS-FIX	F606W		POS TARG 0.1785,0 .1908		510 Secs (510 Secs) [==>]	[1]
	4	(12) MINNI330	(12) MINNI330	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=5	POS TARG 0.3173,0 .3591		510 Secs (510 Secs) [==>]	[1]
	5	(12) MINNI330	(12) MINNI330	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=5	POS TARG 0.4958,0 .5499		510 Secs (510 Secs) [==>]	[1]
	6	(12) MINNI330	(12) MINNI330	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	FLASH=16	POS TARG 0.6743,0 .7407		10 Secs (10 Secs) [==>]	[1]

