



16748 - Proper motions of the star cluster system of the Large Magellanic Cloud

Cycle: 29, Proposal Category: GO

(Availability Mode: SUPPORTED)

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) NGC-1898	WFC3/UVIS	1	04-Mar-2022 10:00:19.0	yes
02	(2) NAME-HODGE-11	WFC3/UVIS	1	04-Mar-2022 10:00:21.0	yes
03	(4) NGC-2005	WFC3/UVIS	1	04-Mar-2022 10:00:22.0	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>
04	(5) NGC-2210	WFC3/UVIS	1	04-Mar-2022 10:00:23.0	yes
05	(6) NGC-2257	WFC3/UVIS	1	04-Mar-2022 10:00:24.0	yes
06	(8) NGC-1841	WFC3/UVIS	1	04-Mar-2022 10:00:25.0	yes
07	(9) NGC-1850	WFC3/UVIS	1	04-Mar-2022 10:00:26.0	yes
08	(10) NGC-1856	WFC3/UVIS	1	04-Mar-2022 10:00:27.0	yes
09	(11) NGC-1651	WFC3/UVIS	1	04-Mar-2022 10:00:28.0	yes
10	(12) NGC-1718	WFC3/UVIS	1	04-Mar-2022 10:00:28.0	yes
11	(13) NGC-2173	WFC3/UVIS	1	04-Mar-2022 10:00:29.0	yes
12	(14) NGC-2203	WFC3/UVIS	1	04-Mar-2022 10:00:30.0	yes
13	(15) NGC-2209	WFC3/UVIS	1	04-Mar-2022 10:00:32.0	yes
14	(16) NGC-1831	WFC3/UVIS	1	04-Mar-2022 10:00:33.0	yes
15	(17) NGC-1866	WFC3/UVIS	1	04-Mar-2022 10:00:34.0	yes
16	(20) NGC-2213	WFC3/UVIS	1	04-Mar-2022 10:00:35.0	yes
17	(21) NGC-1868	WFC3/UVIS	1	04-Mar-2022 10:00:36.0	yes
18	(24) NGC-2108	WFC3/UVIS	1	04-Mar-2022 10:00:37.0	yes
19	(25) NGC-1805	WFC3/UVIS	1	04-Mar-2022 10:00:38.0	yes
20	(1) NGC-1898	WFC3/UVIS	1	04-Mar-2022 10:00:39.0	yes
21	(6) NGC-2257	WFC3/UVIS	1	04-Mar-2022 10:00:39.0	yes

21 Total Orbits Used

ABSTRACT

A number of high-precision proper motion programs utilizing HST have already been used to study different aspects of the Magellanic Cloud system, thereby having a tremendous impact on our understanding of this pair of interacting galaxies and its relation to the Milky Way. It has been shown that both Clouds move much faster than previously assumed, suggesting they are most likely on a first passage around the Milky Way. Also, the internal rotation pattern of the Large Magellanic Cloud (LMC) in the plane of the sky has been revealed for the first time using data from HST. However, to date little is known about the dynamics of the star-cluster system within the LMC. To eliminate this lack of knowledge, we propose here for an

additional epoch of HST observations for a sample of 19 massive LMC star clusters that span a wide range of ages and galactocentric distances to get, for the first time, a precise measurement of the clusters' proper motions. This program aims to use star clusters as tracers to probe the gravitational potential of the LMC, to study the kinematic pattern of the LMC as traced by star clusters at various ages and also to place important constraints on the interaction history of the Magellanic Cloud system.

OBSERVING DESCRIPTION

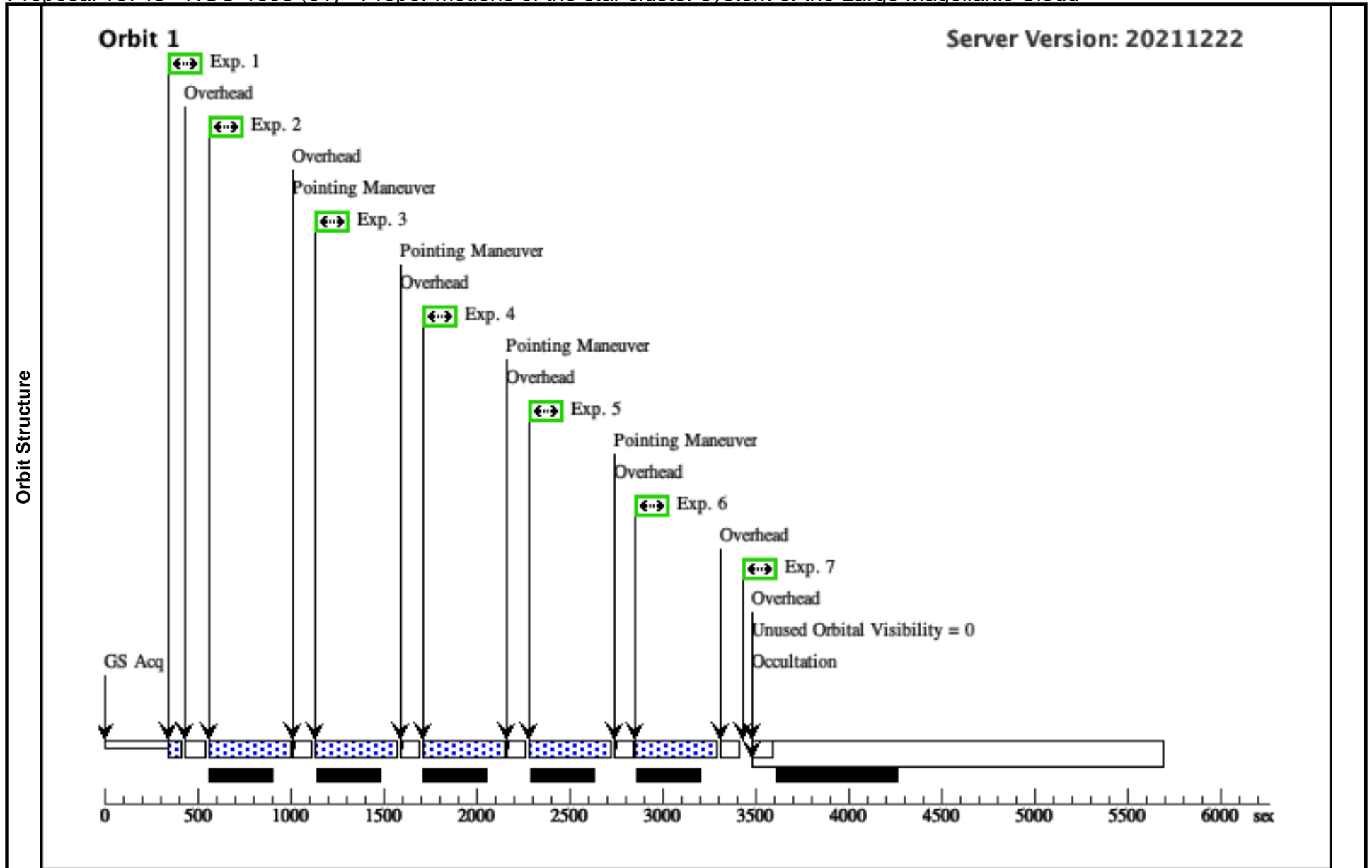
This program aims to measure the proper motions of a sample of 19 massive star clusters within the Large Magellanic Cloud. We proposed one additional epoch of observation for each of the clusters. To reach our science goal, precise measurements of the stellar positions are crucial. We plan therefore with the following observational setup:

The clusters will be observed using the WFC3/UVIS instrument in the F814W filter which has the most accurate ePSF models. The observations are organized in one visit per cluster whereas one visit consists of a single orbit. For each cluster, we plan for 5 properly-dithered long exposures. To measure the positions of stars that are saturated in the long exposures we further require two short exposures (one at the beginning and one at the end of the orbit). We positioned the new observations such that the overlap with existing observations is maximized. Further, we request the new observations to be taken with orientations that are perpendicular to those of the existing, archival epochs. This requirement is crucial to mitigate the impact of uncorrected CTE. The requested range of orientations is specified in the Visit Orientation Requirement for all clusters/visits.

Proposal 16748 - NGC-1898 (01) - Proper motions of the star cluster system of the Large Magellanic Cloud

Fri Mar 04 15:00:40 GMT 2022

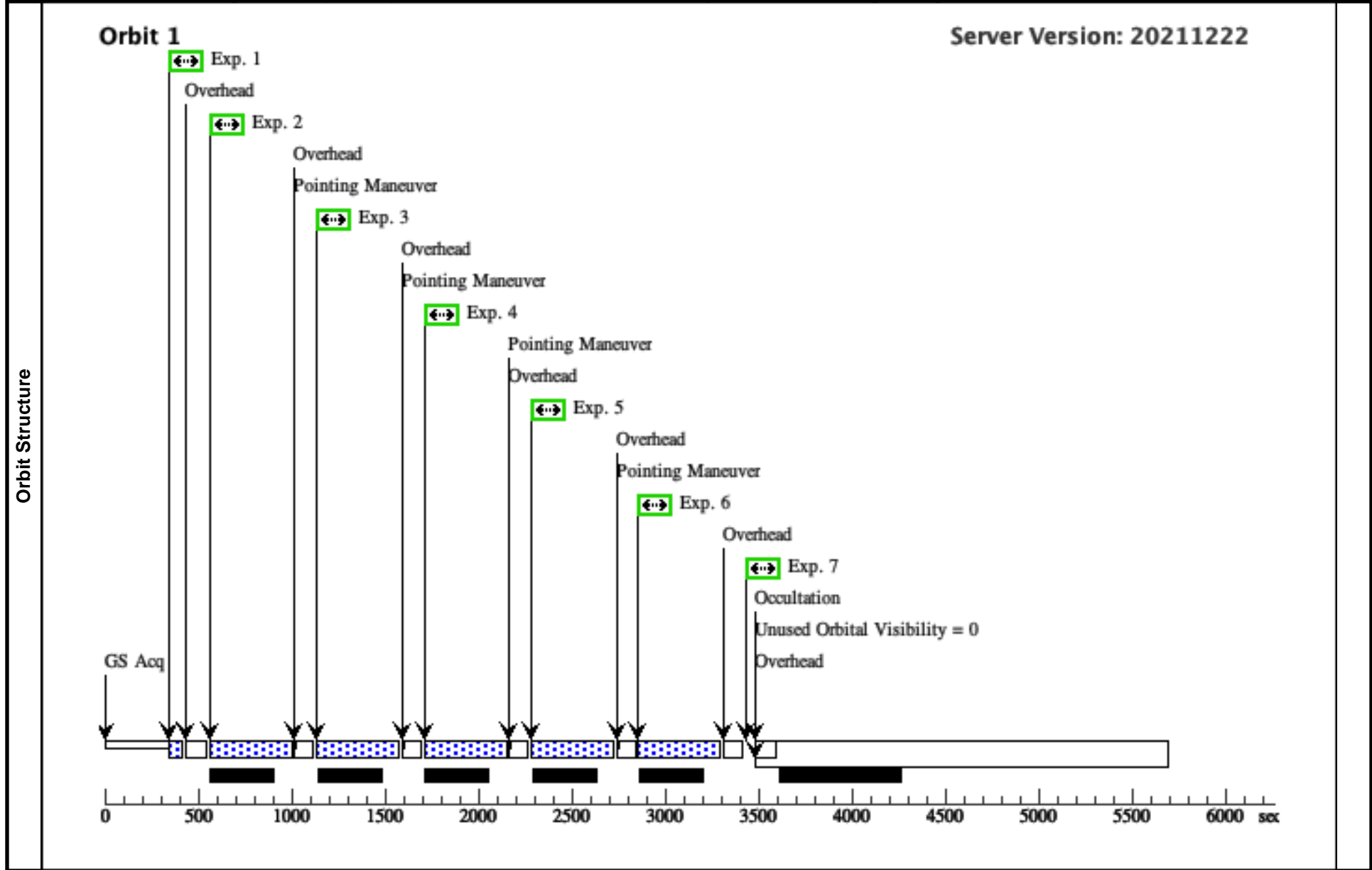
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Fixed Targets		<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>NGC-1898</td> <td>RA: 05 16 46.3727 (79.1932196d) Dec: -69 39 11.10 (-69.65308d) Equinox: J2000</td> <td>Epoch of Position: 2015.5</td> <td>V=11.86</td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER]</p>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	NGC-1898	RA: 05 16 46.3727 (79.1932196d) Dec: -69 39 11.10 (-69.65308d) Equinox: J2000	Epoch of Position: 2015.5	V=11.86	Reference Frame: SIMBAD
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	1	(1) NGC-1898	(1) NGC-1898	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=20	POS TARG -2.5,-2.5		40 Secs (40 Secs) [==>]	[1]									
	2	(1) NGC-1898	(1) NGC-1898	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG -2.5,-2.5		447 Secs (447 Secs) [==>447 Secs]	[1]									
	3	(1) NGC-1898	(1) NGC-1898	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG -5,-5		350 Secs (447 Secs) [==>447.0 Secs]	[1]									
	4	(1) NGC-1898	(1) NGC-1898	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 0,0		350 Secs (446 Secs) [==>446.0 Secs]	[1]									
	5	(1) NGC-1898	(1) NGC-1898	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 5,5		350 Secs (446 Secs) [==>446.0 Secs]	[1]									
	6	(1) NGC-1898	(1) NGC-1898	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 2.5,2.5		350 Secs (446 Secs) [==>446.0 Secs]	[1]									
	7	(1) NGC-1898	(1) NGC-1898	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=20	POS TARG 2.5,2.5		40 Secs (40 Secs) [==>]	[1]									

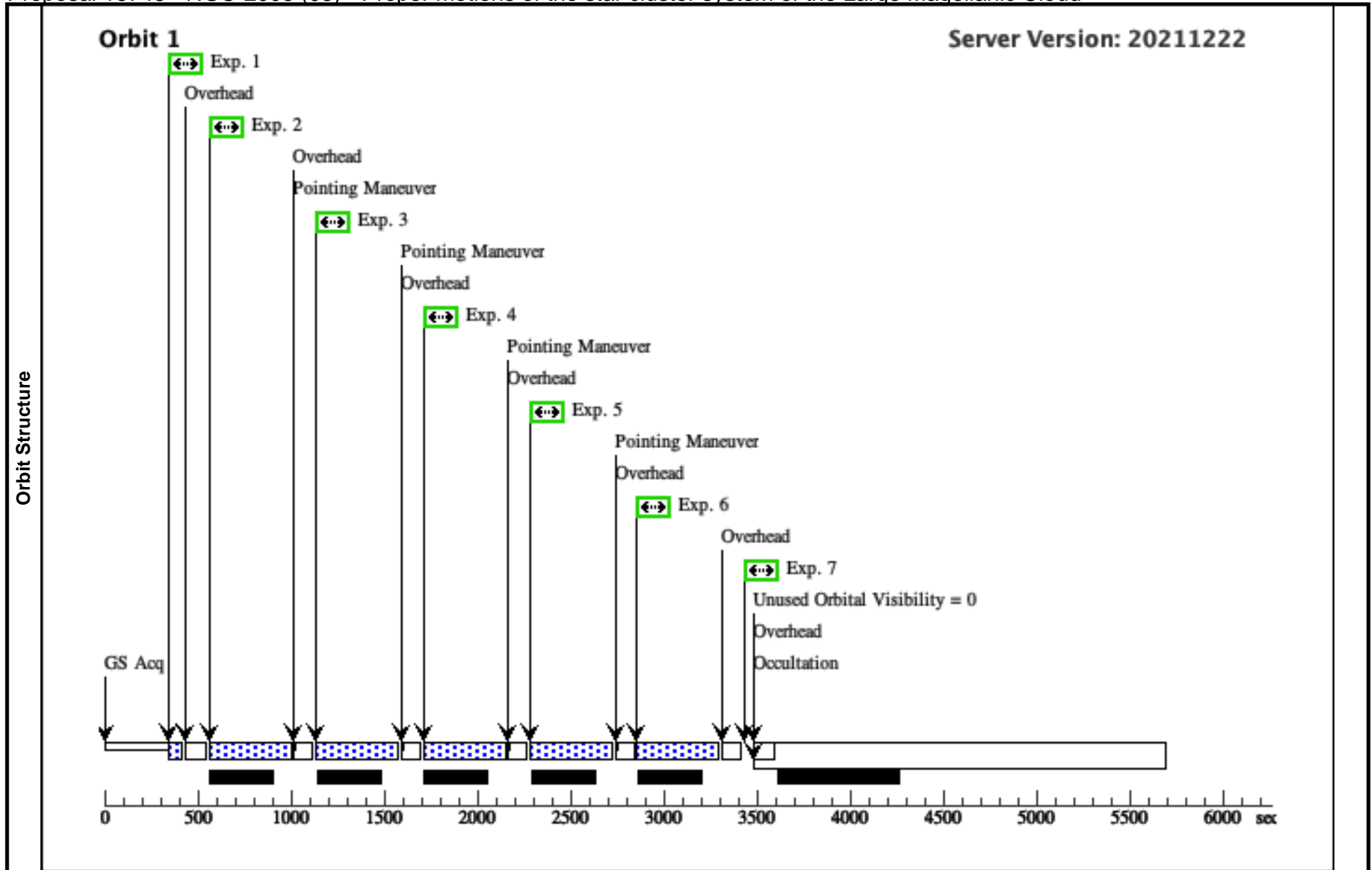


Proposal 16748 - Hodge-11 (02) - Proper motions of the star cluster system of the Large Magellanic Cloud

Fri Mar 04 15:00:40 GMT 2022

Visit	Proposal 16748, Hodge-11 (02), scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 55D TO 65 D; ORIENT 235D TO 245 D																																																																																					
Diagnostics	(Exposure 2 (Hodge-11 (02))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 3 (Hodge-11 (02))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 4 (Hodge-11 (02))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 5 (Hodge-11 (02))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 6 (Hodge-11 (02))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser																																																																																					
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Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>(2) NAME-HODGE-11</td> <td>NAME-HODGE-11</td> <td>WFC3/UVIS, ACCUM, UVIS-CENTER</td> <td>F814W</td> <td>FLASH=20</td> <td>POS TARG -2.5,-2.5</td> <td></td> <td>40 Secs (40 Secs) [==>40 Secs]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>(2) NAME-HODGE-11</td> <td>NAME-HODGE-11</td> <td>WFC3/UVIS, ACCUM, UVIS-CENTER</td> <td>F814W</td> <td></td> <td>POS TARG -2.5,-2.5</td> <td></td> <td>617 Secs (447 Secs) [==>447.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>(2) NAME-HODGE-11</td> <td>NAME-HODGE-11</td> <td>WFC3/UVIS, ACCUM, UVIS-CENTER</td> <td>F814W</td> <td></td> <td>POS TARG -5,-5</td> <td></td> <td>517 Secs (447 Secs) [==>447.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>(2) NAME-HODGE-11</td> <td>NAME-HODGE-11</td> <td>WFC3/UVIS, ACCUM, UVIS-CENTER</td> <td>F814W</td> <td></td> <td>POS TARG 0,0</td> <td></td> <td>517 Secs (446 Secs) [==>446.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>5</td> <td>(2) NAME-HODGE-11</td> <td>NAME-HODGE-11</td> <td>WFC3/UVIS, ACCUM, UVIS-CENTER</td> <td>F814W</td> <td></td> <td>POS TARG 5,5</td> <td></td> <td>516 Secs (446 Secs) [==>446.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>6</td> <td>(2) NAME-HODGE-11</td> <td>NAME-HODGE-11</td> <td>WFC3/UVIS, ACCUM, UVIS-CENTER</td> <td>F814W</td> <td></td> <td>POS TARG 2.5,2.5</td> <td></td> <td>516 Secs (446 Secs) [==>446.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>7</td> <td>(2) NAME-HODGE-11</td> <td>NAME-HODGE-11</td> <td>WFC3/UVIS, ACCUM, UVIS-CENTER</td> <td>F814W</td> <td>FLASH=20</td> <td>POS TARG 2.5,2.5</td> <td></td> <td>40 Secs (40 Secs) [==>40 Secs]</td> <td>[1]</td> </tr> </tbody> </table>						#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	(2) NAME-HODGE-11	NAME-HODGE-11	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=20	POS TARG -2.5,-2.5		40 Secs (40 Secs) [==>40 Secs]	[1]	2	(2) NAME-HODGE-11	NAME-HODGE-11	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG -2.5,-2.5		617 Secs (447 Secs) [==>447.0 Secs]	[1]	3	(2) NAME-HODGE-11	NAME-HODGE-11	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG -5,-5		517 Secs (447 Secs) [==>447.0 Secs]	[1]	4	(2) NAME-HODGE-11	NAME-HODGE-11	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 0,0		517 Secs (446 Secs) [==>446.0 Secs]	[1]	5	(2) NAME-HODGE-11	NAME-HODGE-11	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 5,5		516 Secs (446 Secs) [==>446.0 Secs]	[1]	6	(2) NAME-HODGE-11	NAME-HODGE-11	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 2.5,2.5		516 Secs (446 Secs) [==>446.0 Secs]	[1]	7	(2) NAME-HODGE-11	NAME-HODGE-11	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=20	POS TARG 2.5,2.5		40 Secs (40 Secs) [==>40 Secs]	[1]
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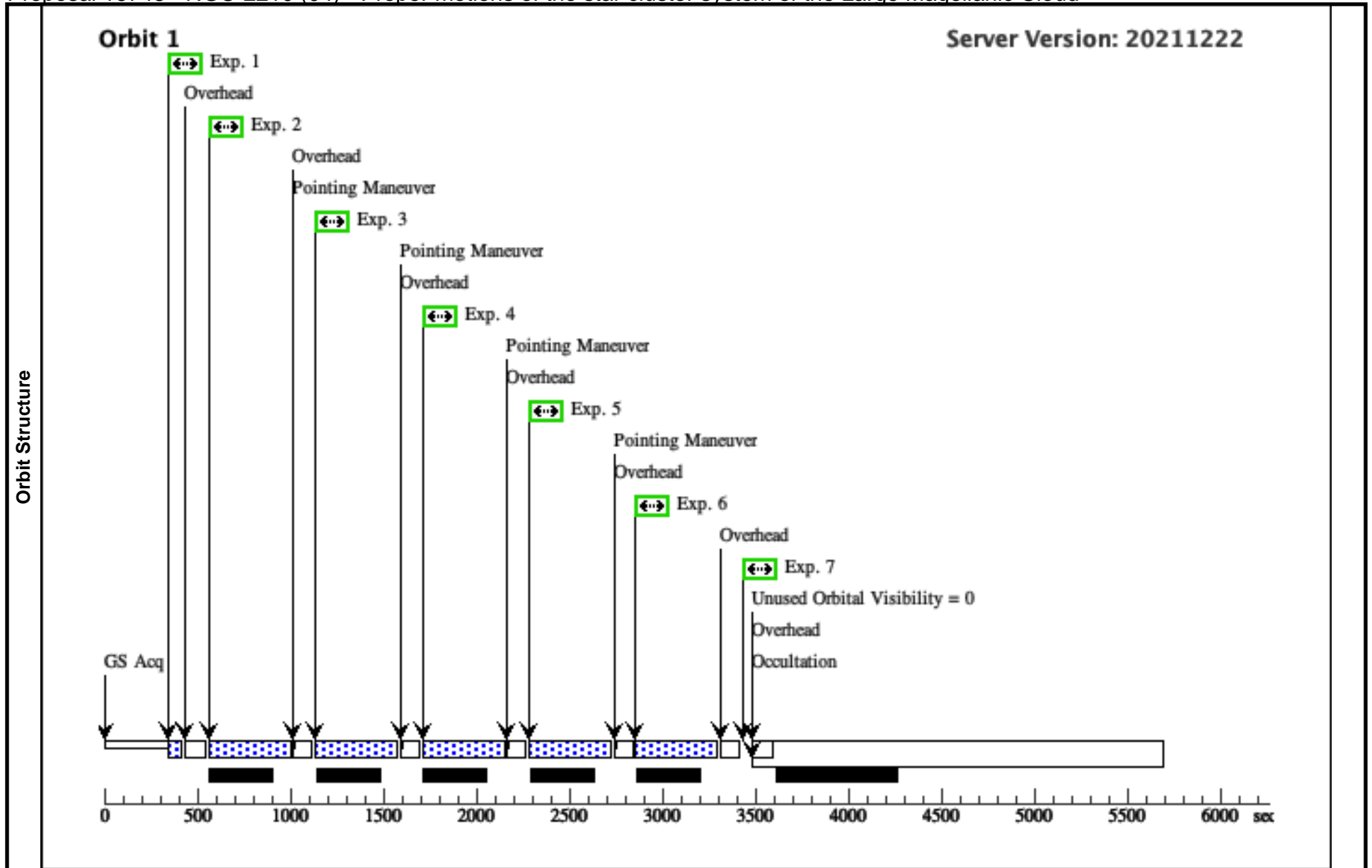


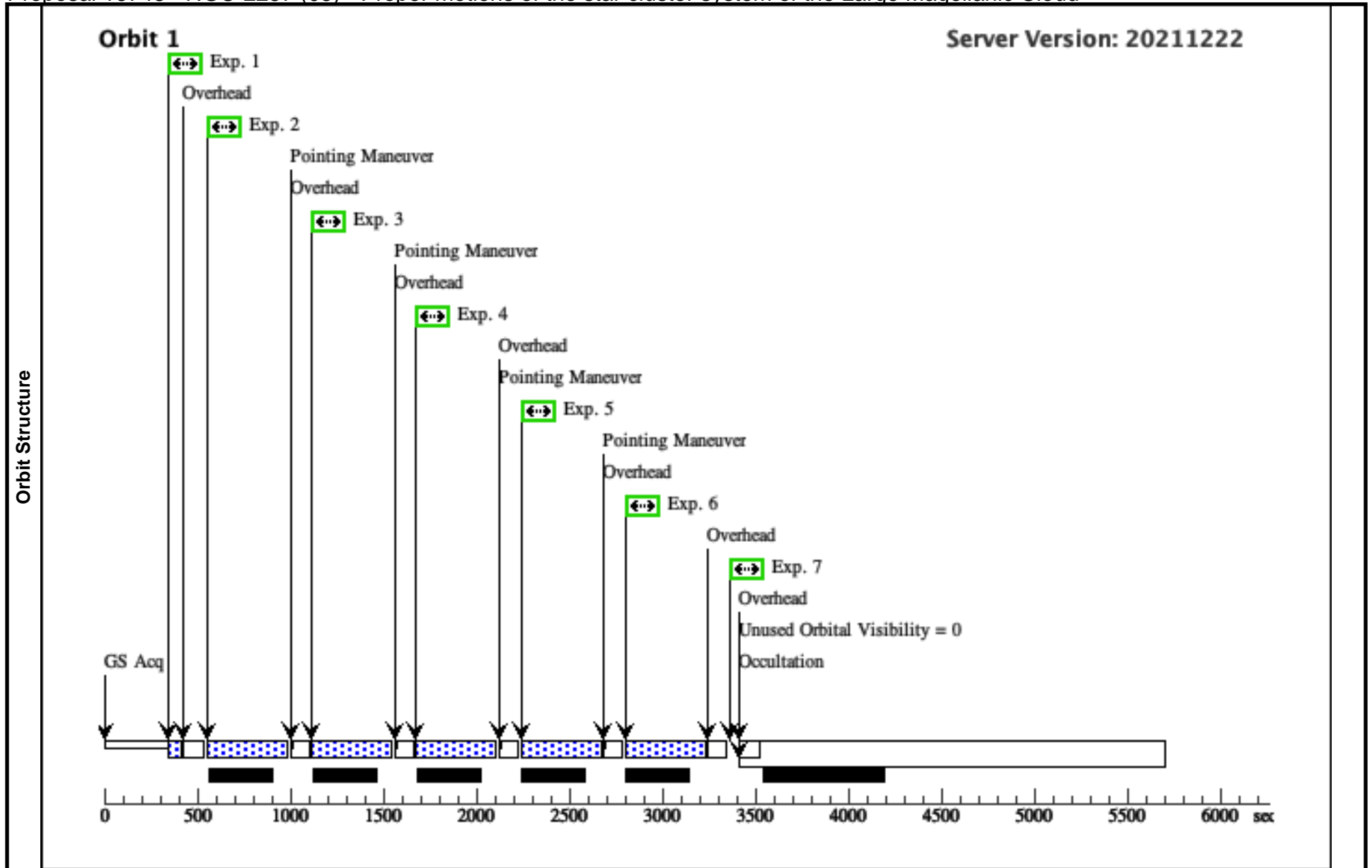


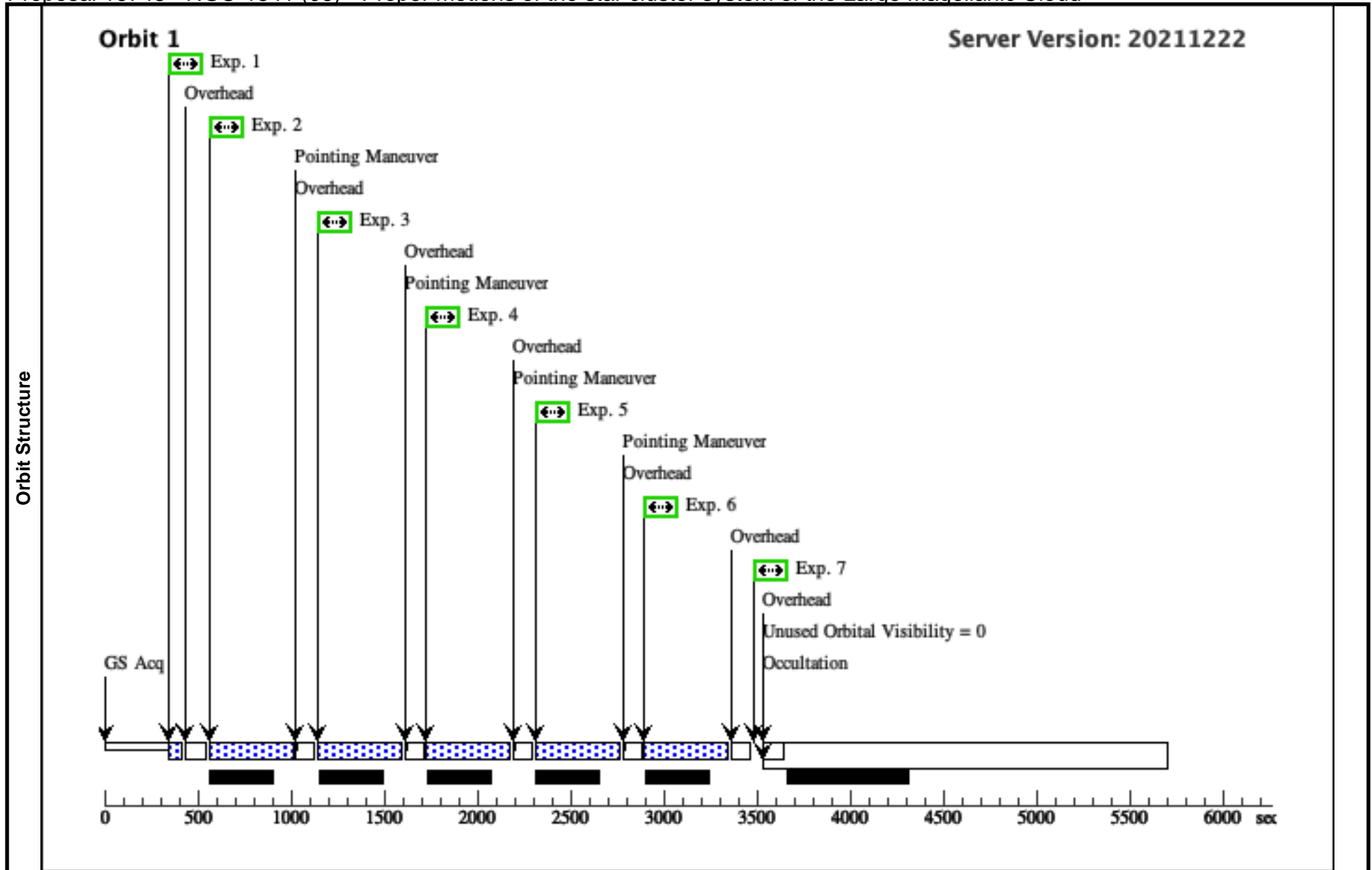
Proposal 16748 - NGC-2210 (04) - Proper motions of the star cluster system of the Large Magellanic Cloud

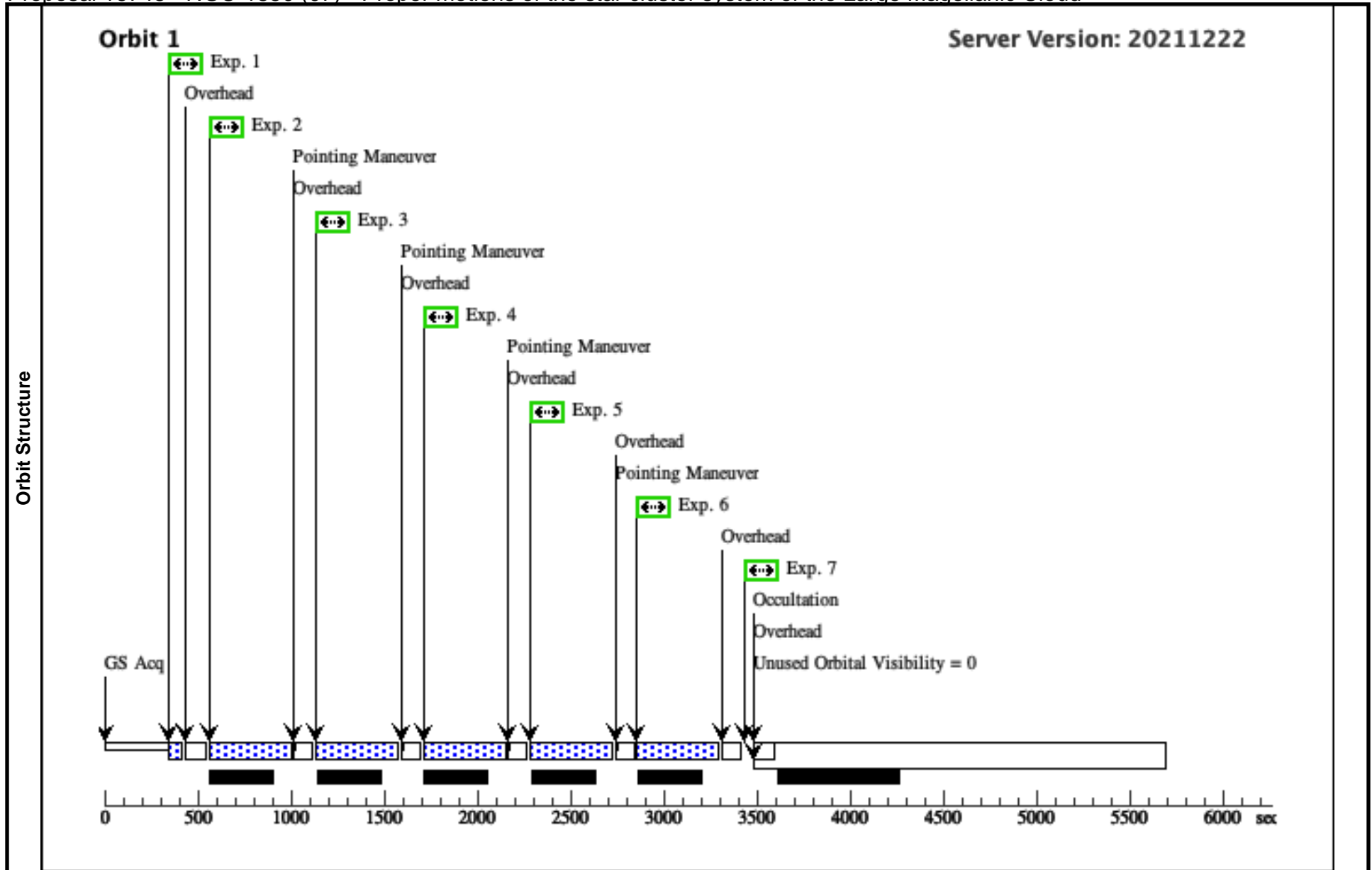
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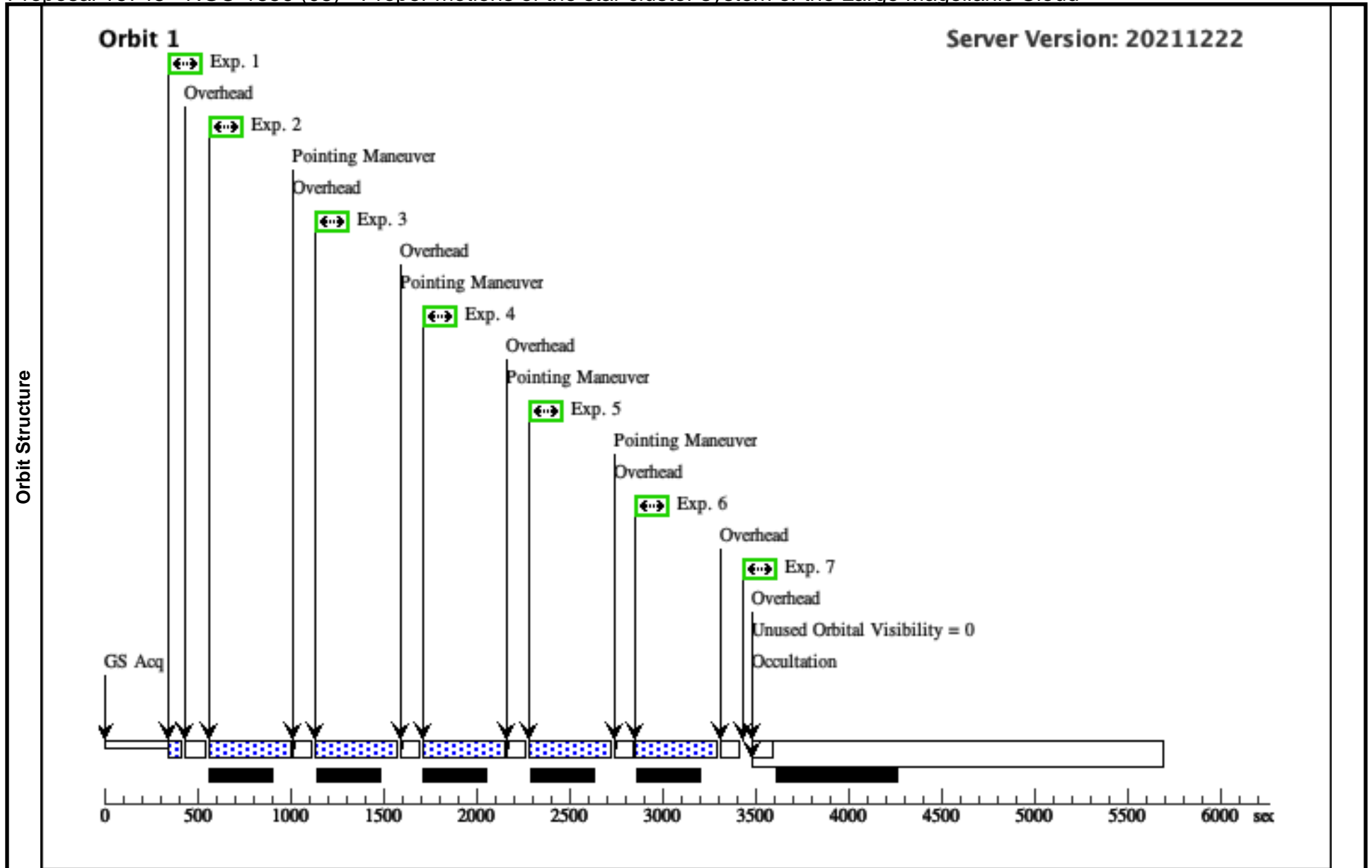
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Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
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Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER]										
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	2	(5) NGC-2210	(5) NGC-2210	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG -2.5,-2.5		350 Secs (447 Secs) [==>447.0 Secs]	[1]
	3	(5) NGC-2210	(5) NGC-2210	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG -5,-5		350 Secs (447 Secs) [==>447.0 Secs]	[1]
	4	(5) NGC-2210	(5) NGC-2210	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 0,0		350 Secs (446 Secs) [==>446.0 Secs]	[1]
	5	(5) NGC-2210	(5) NGC-2210	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 5,5		350 Secs (446 Secs) [==>446.0 Secs]	[1]
	6	(5) NGC-2210	(5) NGC-2210	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 2.5,2.5		350 Secs (446 Secs) [==>446.0 Secs]	[1]
	7	(5) NGC-2210	(5) NGC-2210	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=20	POS TARG 2.5,2.5		40 Secs (40 Secs) [==>40.0 Secs]	[1]

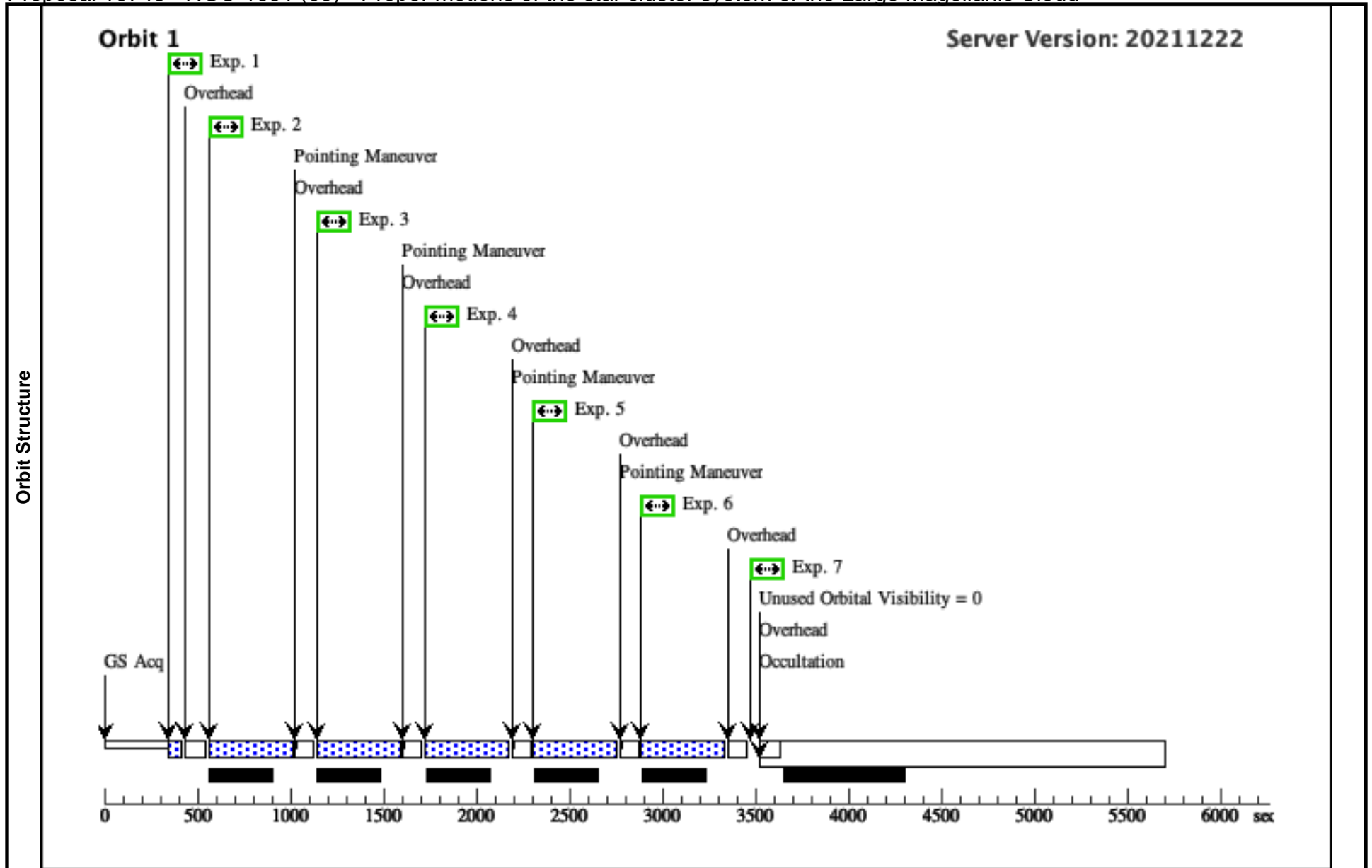


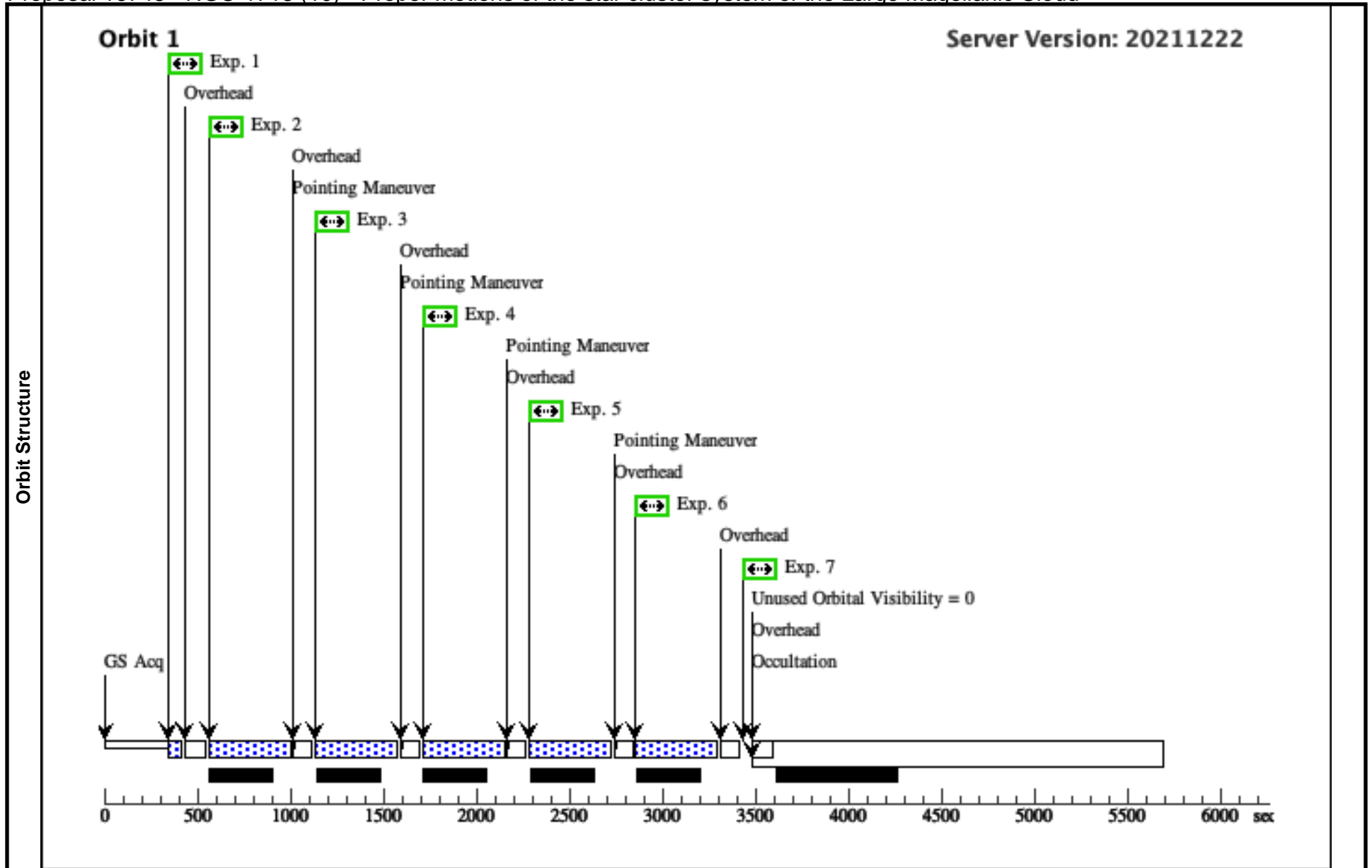








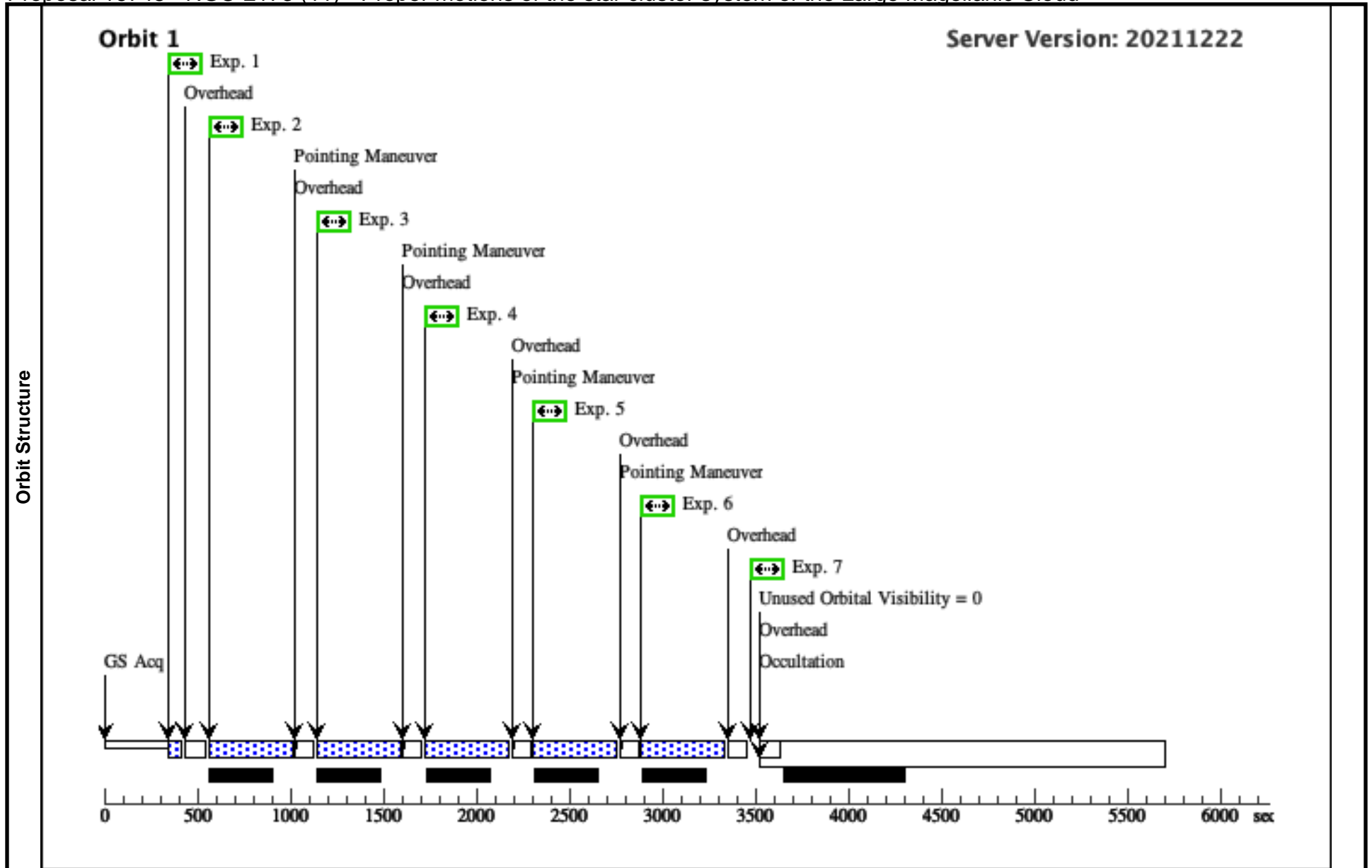




Proposal 16748 - NGC-2173 (11) - Proper motions of the star cluster system of the Large Magellanic Cloud

Fri Mar 04 15:00:41 GMT 2022

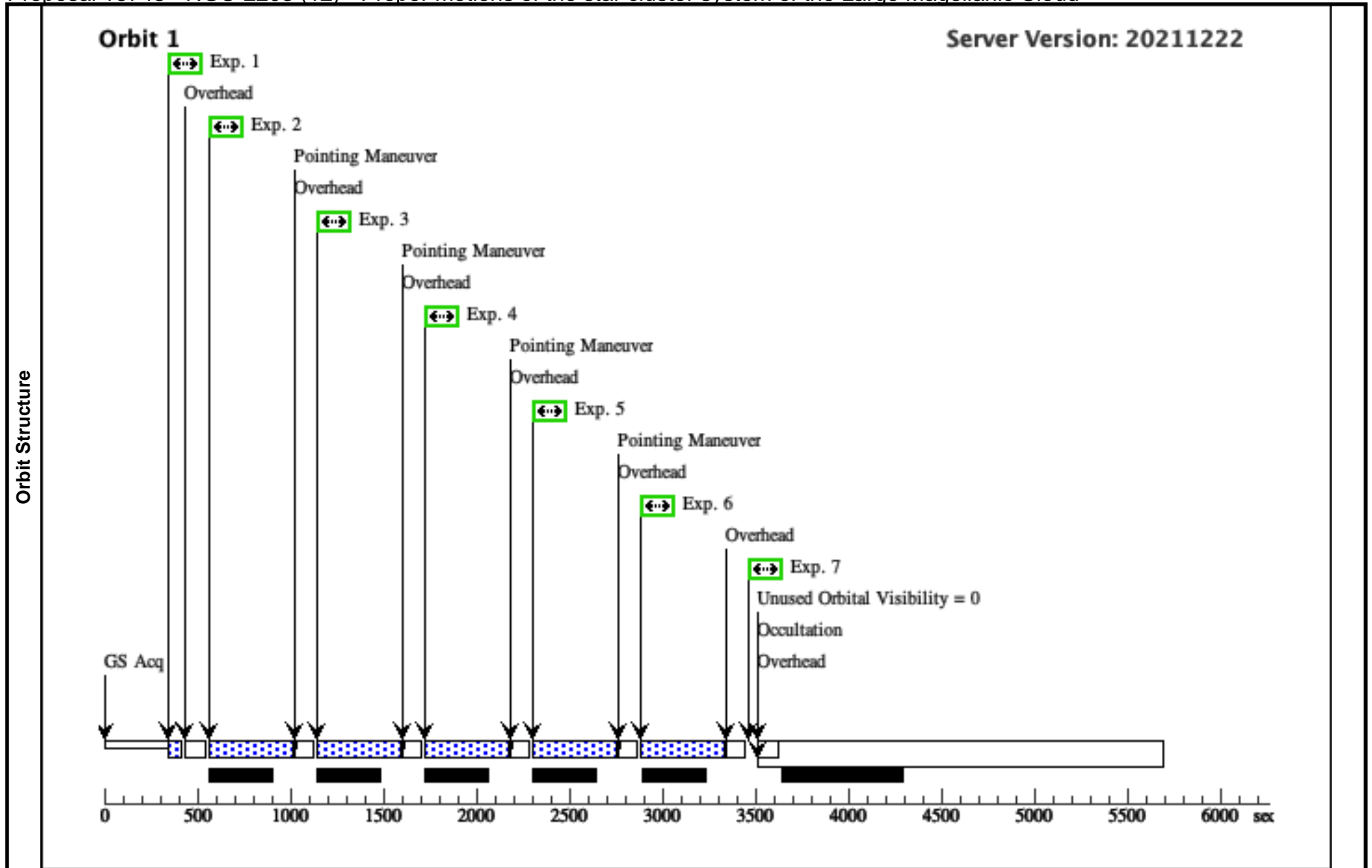
Visit	Proposal 16748, NGC-2173 (11), scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 12D TO 22 D; ORIENT 192D TO 202 D									
	(Exposure 2 (NGC-2173 (11))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 3 (NGC-2173 (11))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 4 (NGC-2173 (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 (NGC-2173 (11))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 6 (NGC-2173 (11))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									
Diagnosics	(Exposure 2 (NGC-2173 (11))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 3 (NGC-2173 (11))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 4 (NGC-2173 (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 (NGC-2173 (11))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 6 (NGC-2173 (11))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(13)	NGC-2173	RA: 05 57 55.9601 (89.4831671d) Dec: -72 58 26.85 (-72.97413d) Equinox: J2000	Epoch of Position: 2015.5	V=11.88	Reference Frame: SIMBAD				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(13) NGC-2173	(13) NGC-2173	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=20	POS TARG -2.5,-2.5		40 Secs (40 Secs) [=>40.0 Secs]	[1]
	2	(13) NGC-2173	(13) NGC-2173	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG -2.5,-2.5		350 Secs (455 Secs) [=>455.0 Secs]	[1]
	3	(13) NGC-2173	(13) NGC-2173	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG -5,-5		350 Secs (454 Secs) [=>454.0 Secs]	[1]
	4	(13) NGC-2173	(13) NGC-2173	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 0,0		350 Secs (454 Secs) [=>454.0 Secs]	[1]
	5	(13) NGC-2173	(13) NGC-2173	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 5,5		350 Secs (454 Secs) [=>454.0 Secs]	[1]
	6	(13) NGC-2173	(13) NGC-2173	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 2.5,2.5		350 Secs (454 Secs) [=>454.0 Secs]	[1]
	7	(13) NGC-2173	(13) NGC-2173	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=20	POS TARG 2.5,2.5		40 Secs (40 Secs) [=>40.0 Secs]	[1]

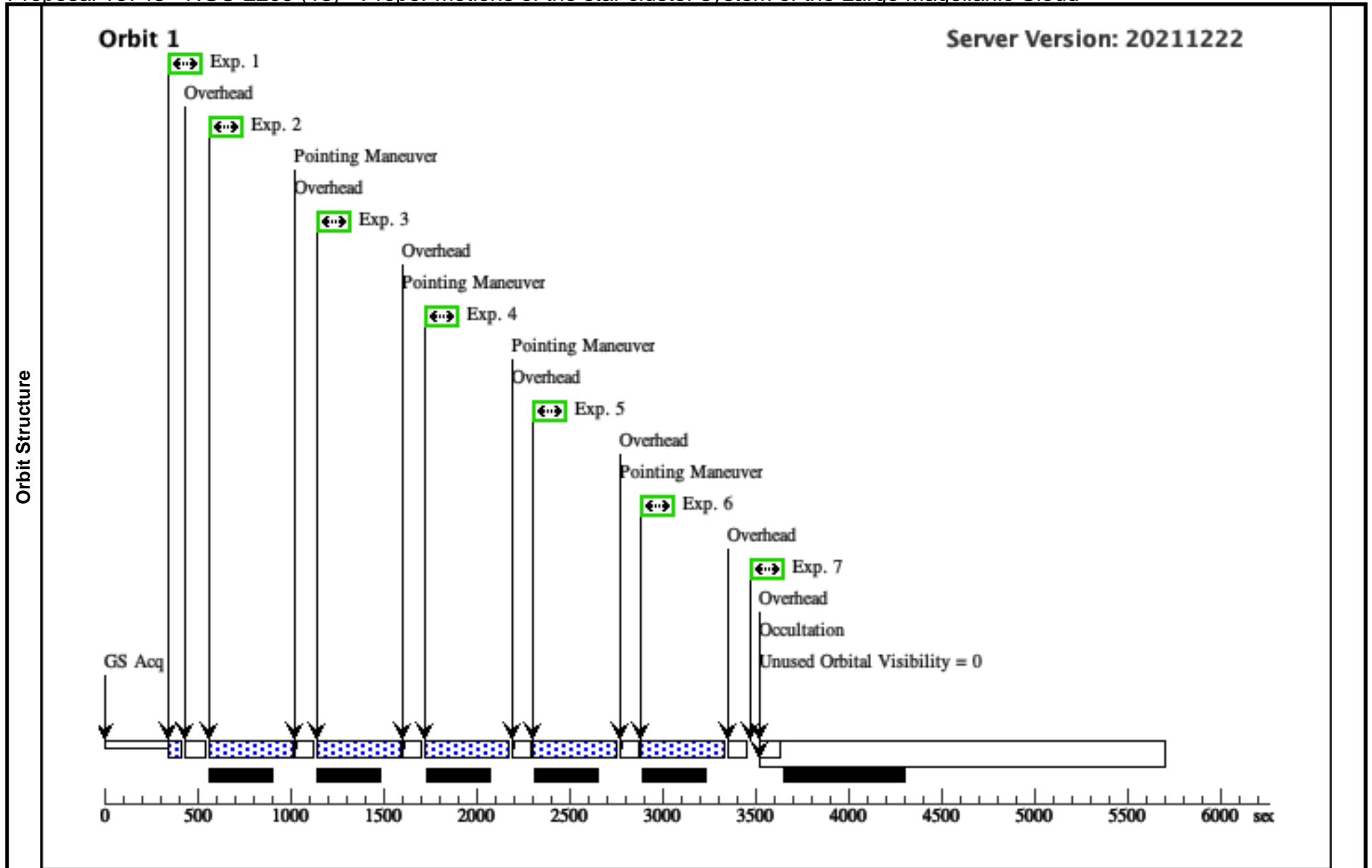


Proposal 16748 - NGC-2203 (12) - Proper motions of the star cluster system of the Large Magellanic Cloud

Fri Mar 04 15:00:41 GMT 2022

Visit	Proposal 16748, NGC-2203 (12), scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 7D TO 17 D; ORIENT 187D TO 197 D									
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Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(14)	NGC-2203	RA: 06 04 38.3611 (91.1598379d) Dec: -75 26 1.59 (-75.43377d) Equinox: J2000	Epoch of Position: 2015.5	V=11.29	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(14) NGC-2203	(14) NGC-2203	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=20	POS TARG -2.5,-2.5		40 Secs (40 Secs) [=>40.0 Secs]	[1]
	2	(14) NGC-2203	(14) NGC-2203	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG -2.5,-2.5		350 Secs (453 Secs) [=>453.0 Secs]	[1]
	3	(14) NGC-2203	(14) NGC-2203	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG -5,-5		350 Secs (453 Secs) [=>453.0 Secs]	[1]
	4	(14) NGC-2203	(14) NGC-2203	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 0,0		350 Secs (453 Secs) [=>453.0 Secs]	[1]
	5	(14) NGC-2203	(14) NGC-2203	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 5,5		350 Secs (453 Secs) [=>453.0 Secs]	[1]
	6	(14) NGC-2203	(14) NGC-2203	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 2.5,2.5		350 Secs (453 Secs) [=>453.0 Secs]	[1]
	7	(14) NGC-2203	(14) NGC-2203	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=20	POS TARG 2.5,2.5		40 Secs (40 Secs) [=>40.0 Secs]	[1]

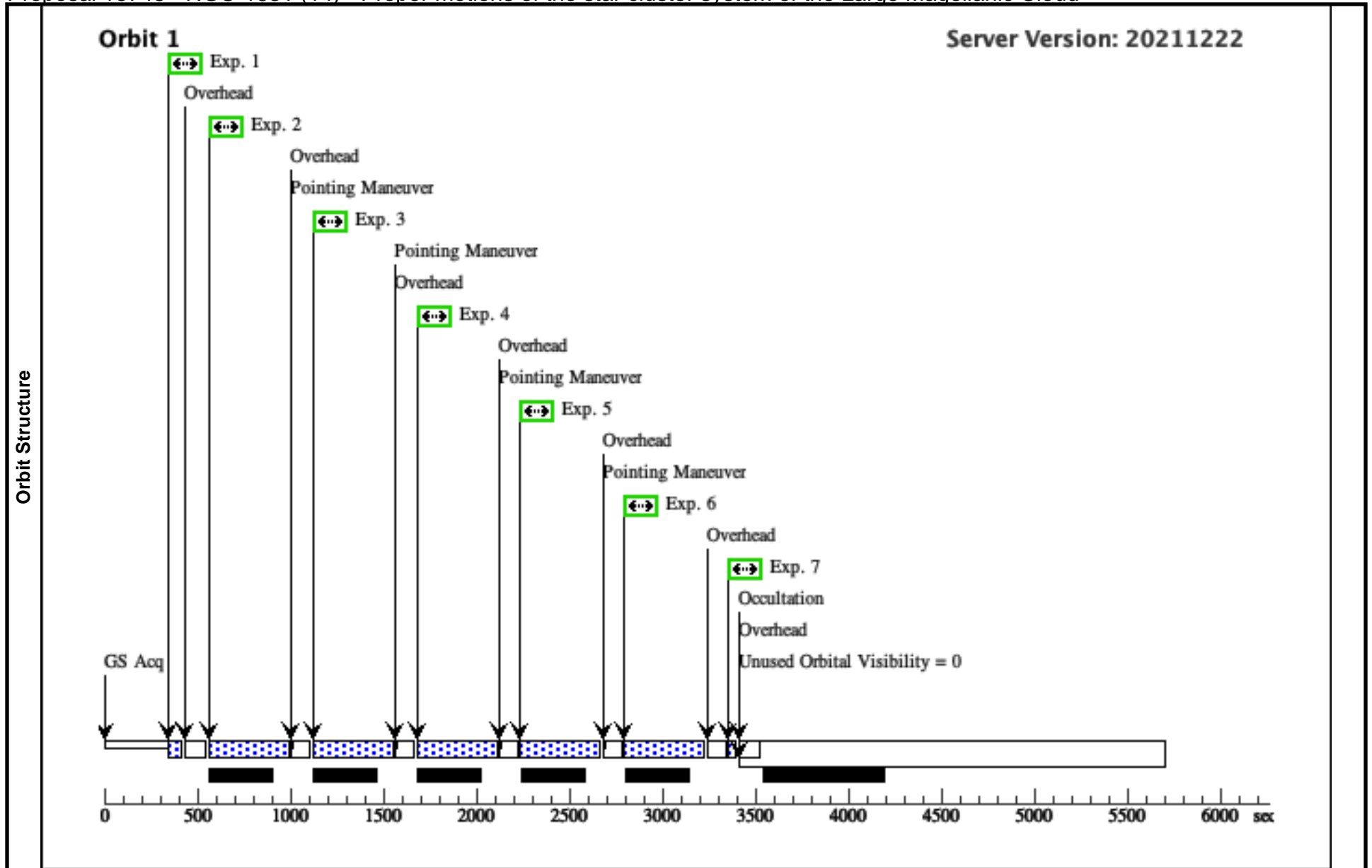


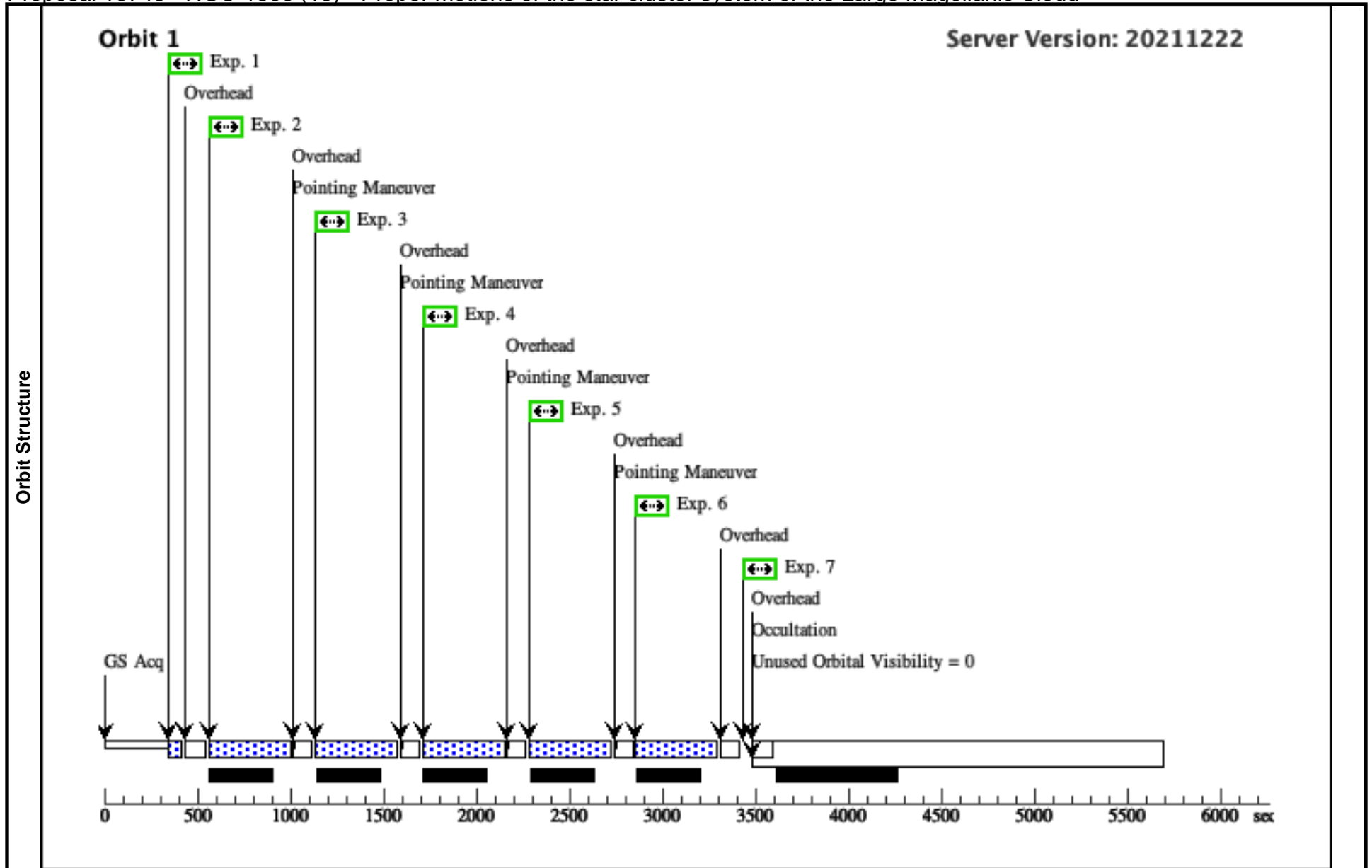


Proposal 16748 - NGC-1831 (14) - Proper motions of the star cluster system of the Large Magellanic Cloud

Fri Mar 04 15:00:41 GMT 2022

Visit	Proposal 16748, NGC-1831 (14), scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 249D TO 259 D; ORIENT 69D TO 79 D																																																																																					
	Diagnostics	(Exposure 2 (NGC-1831 (14))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 3 (NGC-1831 (14))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 4 (NGC-1831 (14))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 5 (NGC-1831 (14))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 6 (NGC-1831 (14))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser																																																																																				
Fixed Targets		<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(16)</td> <td>NGC-1831</td> <td>RA: 05 06 14.9934 (76.5624725d) Dec: -64 55 40.13 (-64.92781d) Equinox: J2000</td> <td>Epoch of Position: 2015.5</td> <td>V=11.18</td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER]</p>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(16)	NGC-1831	RA: 05 06 14.9934 (76.5624725d) Dec: -64 55 40.13 (-64.92781d) Equinox: J2000	Epoch of Position: 2015.5	V=11.18	Reference Frame: SIMBAD																																																																			
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(16)		NGC-1831	RA: 05 06 14.9934 (76.5624725d) Dec: -64 55 40.13 (-64.92781d) Equinox: J2000	Epoch of Position: 2015.5	V=11.18	Reference Frame: SIMBAD																																																																																
Exposures		<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>(16) NGC-1831</td> <td>(16) NGC-1831</td> <td>WFC3/UVIS, ACCUM, UVIS-CENTER</td> <td>F814W</td> <td>FLASH=20</td> <td>POS TARG -2.5,-2.5</td> <td></td> <td>40 Secs (40 Secs) [==>40.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>(16) NGC-1831</td> <td>(16) NGC-1831</td> <td>WFC3/UVIS, ACCUM, UVIS-CENTER</td> <td>F814W</td> <td></td> <td>POS TARG -2.5,-2.5</td> <td></td> <td>350 Secs (432 Secs) [==>432.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>(16) NGC-1831</td> <td>(16) NGC-1831</td> <td>WFC3/UVIS, ACCUM, UVIS-CENTER</td> <td>F814W</td> <td></td> <td>POS TARG -5,-5</td> <td></td> <td>350 Secs (432 Secs) [==>432.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>(16) NGC-1831</td> <td>(16) NGC-1831</td> <td>WFC3/UVIS, ACCUM, UVIS-CENTER</td> <td>F814W</td> <td></td> <td>POS TARG 0,0</td> <td></td> <td>350 Secs (431 Secs) [==>431.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>5</td> <td>(16) NGC-1831</td> <td>(16) NGC-1831</td> <td>WFC3/UVIS, ACCUM, UVIS-CENTER</td> <td>F814W</td> <td></td> <td>POS TARG 5,5</td> <td></td> <td>350 Secs (431 Secs) [==>431.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>6</td> <td>(16) NGC-1831</td> <td>(16) NGC-1831</td> <td>WFC3/UVIS, ACCUM, UVIS-CENTER</td> <td>F814W</td> <td></td> <td>POS TARG 2.5,2.5</td> <td></td> <td>350 Secs (431 Secs) [==>431.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>7</td> <td>(16) NGC-1831</td> <td>(16) NGC-1831</td> <td>WFC3/UVIS, ACCUM, UVIS-CENTER</td> <td>F814W</td> <td>FLASH=20</td> <td>POS TARG 2.5,2.5</td> <td></td> <td>40 Secs (40 Secs) [==>40.0 Secs]</td> <td>[1]</td> </tr> </tbody> </table>						#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	(16) NGC-1831	(16) NGC-1831	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=20	POS TARG -2.5,-2.5		40 Secs (40 Secs) [==>40.0 Secs]	[1]	2	(16) NGC-1831	(16) NGC-1831	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG -2.5,-2.5		350 Secs (432 Secs) [==>432.0 Secs]	[1]	3	(16) NGC-1831	(16) NGC-1831	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG -5,-5		350 Secs (432 Secs) [==>432.0 Secs]	[1]	4	(16) NGC-1831	(16) NGC-1831	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 0,0		350 Secs (431 Secs) [==>431.0 Secs]	[1]	5	(16) NGC-1831	(16) NGC-1831	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 5,5		350 Secs (431 Secs) [==>431.0 Secs]	[1]	6	(16) NGC-1831	(16) NGC-1831	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 2.5,2.5		350 Secs (431 Secs) [==>431.0 Secs]	[1]	7	(16) NGC-1831	(16) NGC-1831	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=20	POS TARG 2.5,2.5		40 Secs (40 Secs) [==>40.0 Secs]
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																																												
	1	(16) NGC-1831	(16) NGC-1831	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=20	POS TARG -2.5,-2.5		40 Secs (40 Secs) [==>40.0 Secs]	[1]																																																																												
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	3	(16) NGC-1831	(16) NGC-1831	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG -5,-5		350 Secs (432 Secs) [==>432.0 Secs]	[1]																																																																												
	4	(16) NGC-1831	(16) NGC-1831	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 0,0		350 Secs (431 Secs) [==>431.0 Secs]	[1]																																																																												
	5	(16) NGC-1831	(16) NGC-1831	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 5,5		350 Secs (431 Secs) [==>431.0 Secs]	[1]																																																																												
	6	(16) NGC-1831	(16) NGC-1831	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 2.5,2.5		350 Secs (431 Secs) [==>431.0 Secs]	[1]																																																																												
7	(16) NGC-1831	(16) NGC-1831	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=20	POS TARG 2.5,2.5		40 Secs (40 Secs) [==>40.0 Secs]	[1]																																																																													

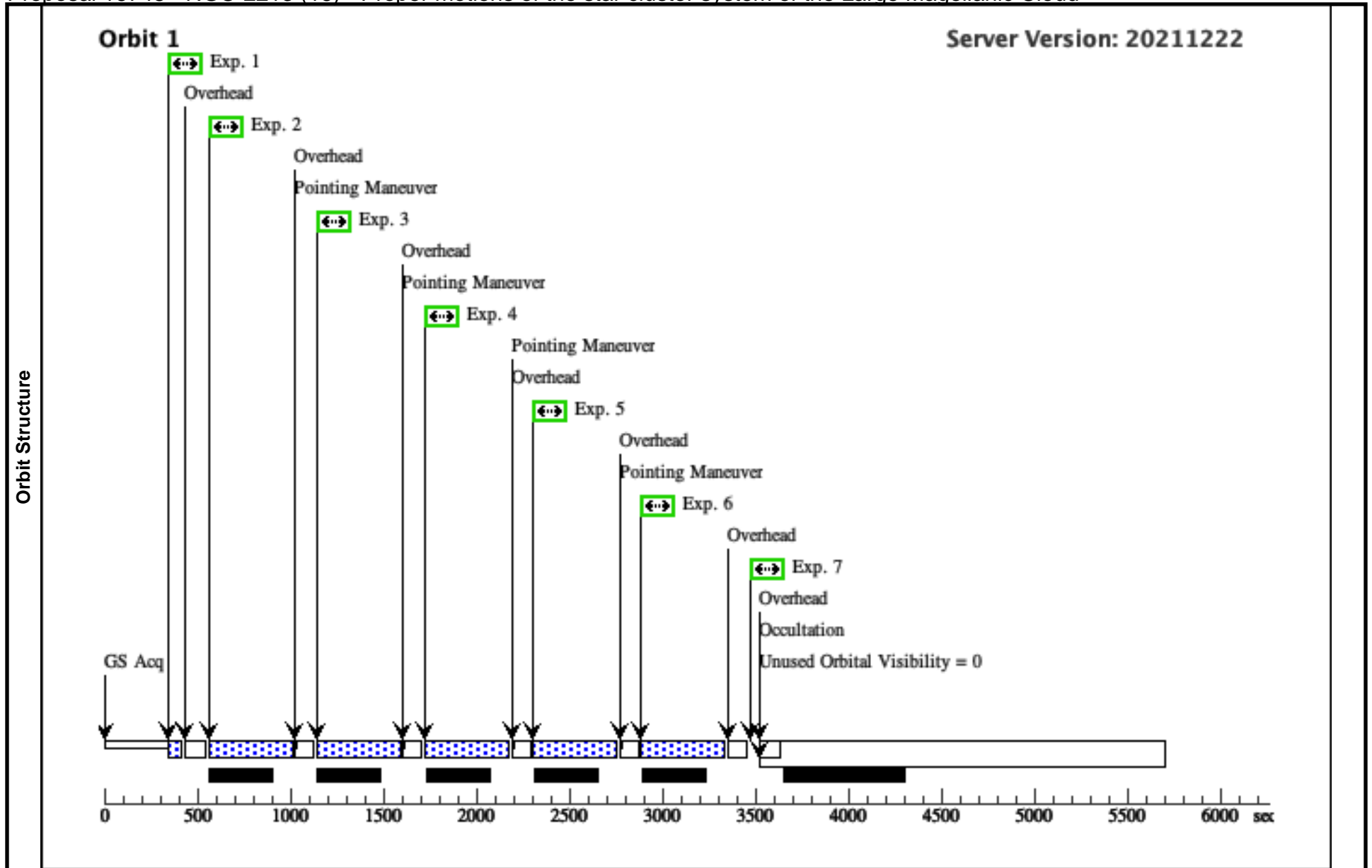


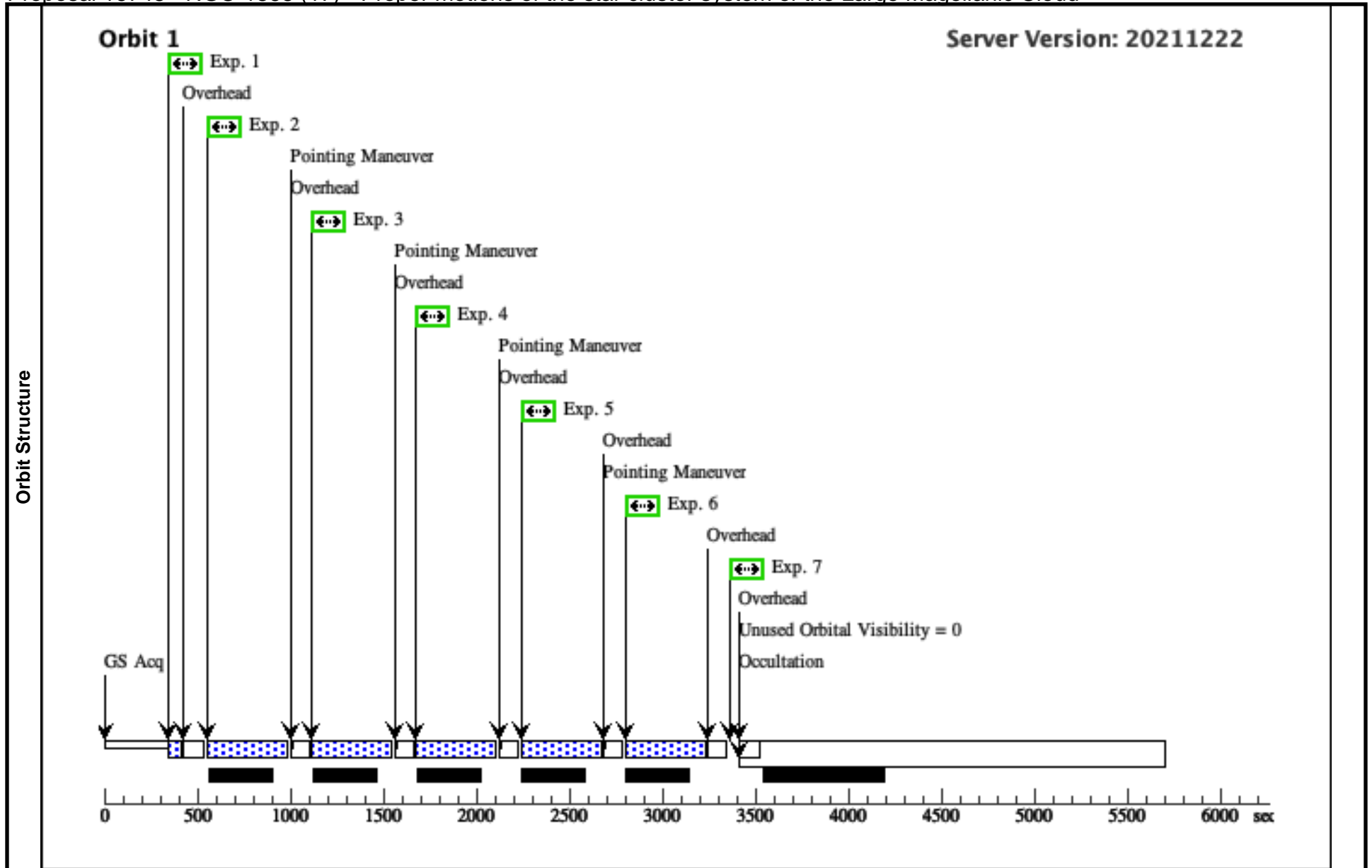


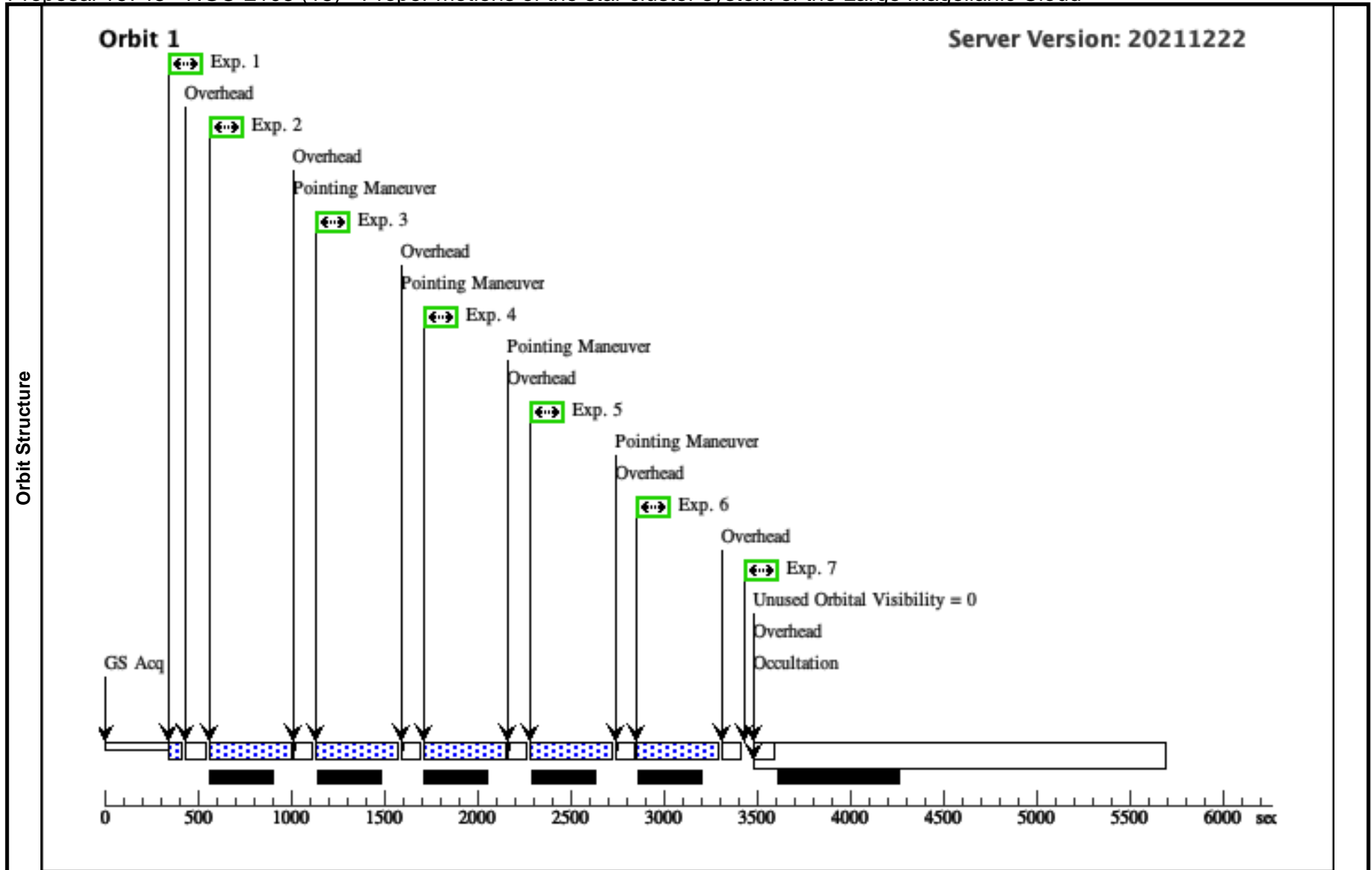
Proposal 16748 - NGC-2213 (16) - Proper motions of the star cluster system of the Large Magellanic Cloud

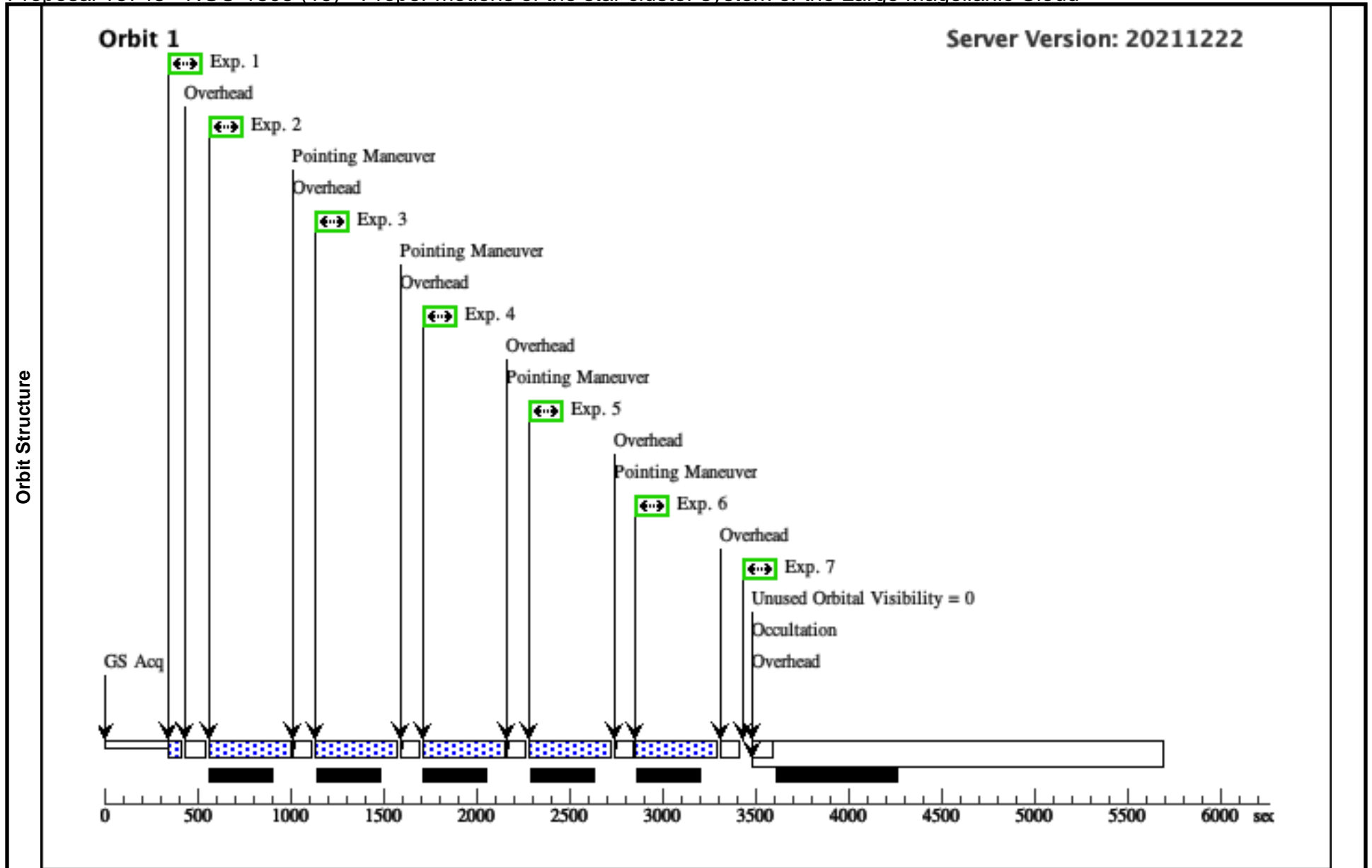
Fri Mar 04 15:00:41 GMT 2022

Visit	Proposal 16748, NGC-2213 (16), scheduled Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 59D TO 69 D; ORIENT 239D TO 249 D																		
	Diagnostics	(Exposure 2 (NGC-2213 (16))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 3 (NGC-2213 (16))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 4 (NGC-2213 (16))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 5 (NGC-2213 (16))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 6 (NGC-2213 (16))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser																	
Fixed Targets		<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(20)</td> <td>NGC-2213</td> <td>RA: 06 10 42.6242 (92.6776008d) Dec: -71 31 24.26 (-71.52341d) Equinox: J2000</td> <td>Epoch of Position: 2015.5</td> <td>V=12.38</td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER]</p>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(20)	NGC-2213	RA: 06 10 42.6242 (92.6776008d) Dec: -71 31 24.26 (-71.52341d) Equinox: J2000	Epoch of Position: 2015.5	V=12.38	Reference Frame: SIMBAD
		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(20)		NGC-2213	RA: 06 10 42.6242 (92.6776008d) Dec: -71 31 24.26 (-71.52341d) Equinox: J2000	Epoch of Position: 2015.5	V=12.38	Reference Frame: SIMBAD													
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit								
	1	(20) NGC-2213	(20) NGC-2213	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=20	POS TARG -2.5,-2.5		40 Secs (40 Secs) [==>40.0 Secs]	[1]									
	2	(20) NGC-2213	(20) NGC-2213	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG -2.5,-2.5		350 Secs (455 Secs) [==>455.0 Secs]	[1]									
	3	(20) NGC-2213	(20) NGC-2213	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG -5,-5		350 Secs (454 Secs) [==>454.0 Secs]	[1]									
	4	(20) NGC-2213	(20) NGC-2213	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 0,0		350 Secs (454 Secs) [==>454.0 Secs]	[1]									
	5	(20) NGC-2213	(20) NGC-2213	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 5,5		350 Secs (454 Secs) [==>454.0 Secs]	[1]									
	6	(20) NGC-2213	(20) NGC-2213	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 2.5,2.5		350 Secs (454 Secs) [==>454.0 Secs]	[1]									
	7	(20) NGC-2213	(20) NGC-2213	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=20	POS TARG 2.5,2.5		40 Secs (40 Secs) [==>40.0 Secs]	[1]									





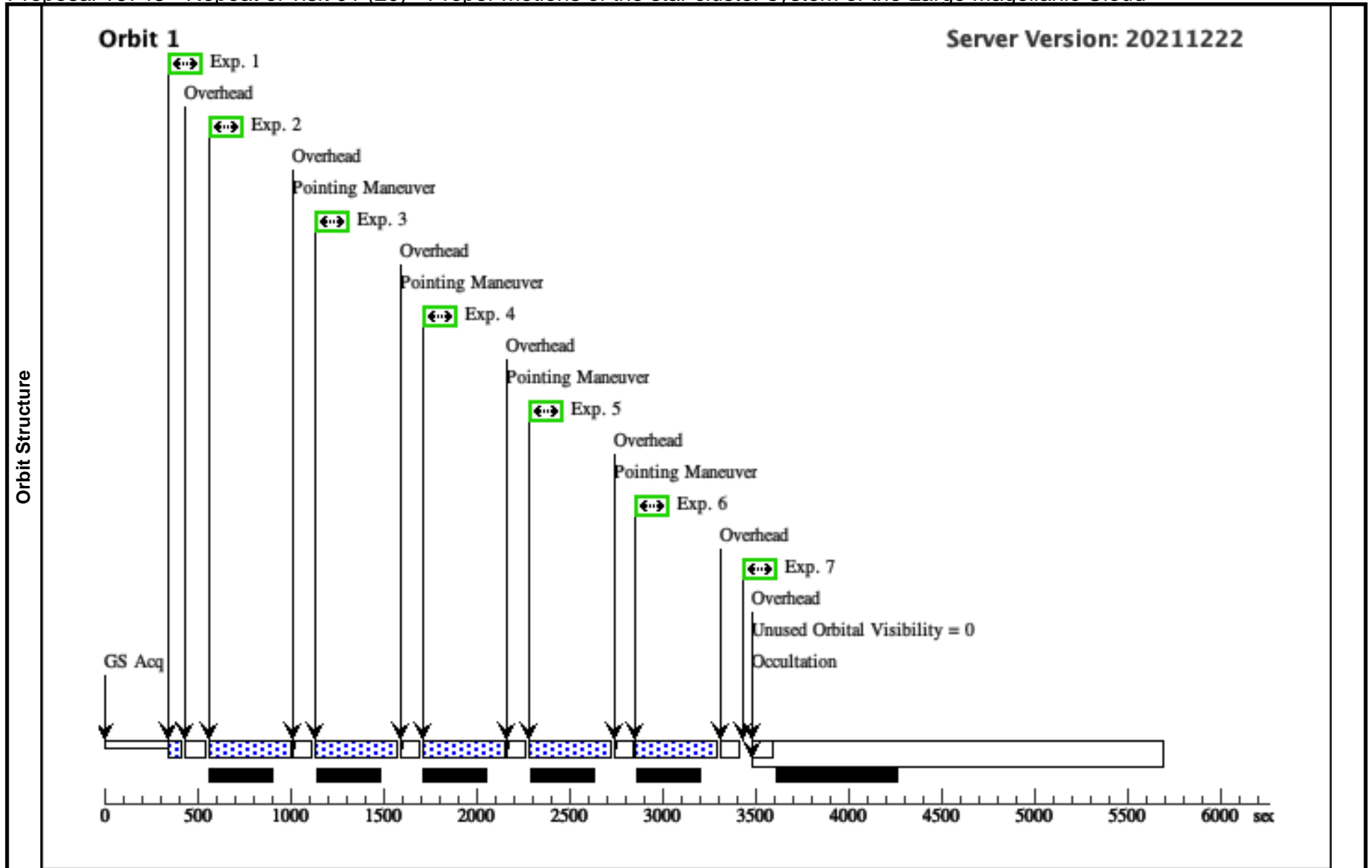




Proposal 16748 - Repeat of visit 01 (20) - Proper motions of the star cluster system of the Large Magellanic Cloud

Fri Mar 04 15:00:41 GMT 2022

Visit	Proposal 16748, Repeat of visit 01 (20) Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 250D TO 260 D; ORIENT 70D TO 80 D																		
	Diagnostics	(Exposure 2 (Repeat of visit 01 (20))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 3 (Repeat of visit 01 (20))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 4 (Repeat of visit 01 (20))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 5 (Repeat of visit 01 (20))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 6 (Repeat of visit 01 (20))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser																	
Fixed Targets		<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>NGC-1898</td> <td>RA: 05 16 46.3727 (79.1932196d) Dec: -69 39 11.10 (-69.65308d) Equinox: J2000</td> <td>Epoch of Position: 2015.5</td> <td>V=11.86</td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STELLAR CLUSTER Description=[GLOBULAR CLUSTER]</i></p>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	NGC-1898	RA: 05 16 46.3727 (79.1932196d) Dec: -69 39 11.10 (-69.65308d) Equinox: J2000	Epoch of Position: 2015.5	V=11.86	Reference Frame: SIMBAD
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Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit								
	1	(1) NGC-1898	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=20	POS TARG -2.5,-2.5	40 Secs (40 Secs)	[==>]	[1]										
	2	(1) NGC-1898	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	POS TARG -2.5,-2.5	447 Secs (447 Secs)	[==>447 Secs]	[1]											
	3	(1) NGC-1898	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	POS TARG -5,-5	350 Secs (447 Secs)	[==>447.0 Secs]	[1]											
	4	(1) NGC-1898	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	POS TARG 0,0	350 Secs (446 Secs)	[==>446.0 Secs]	[1]											
	5	(1) NGC-1898	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	POS TARG 5,5	350 Secs (446 Secs)	[==>446.0 Secs]	[1]											
	6	(1) NGC-1898	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	POS TARG 2.5,2.5	350 Secs (446 Secs)	[==>446.0 Secs]	[1]											
	7	(1) NGC-1898	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=20	POS TARG 2.5,2.5	40 Secs (40 Secs)	[==>]	[1]										



Proposal 16748 - Repeat of visit 05 (21) - Proper motions of the star cluster system of the Large Magellanic Cloud

Fri Mar 04 15:00:41 GMT 2022

Visit	Proposal 16748, Repeat of visit 05 (21) Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 74D TO 84 D; ORIENT 254D TO 264 D																		
	Diagnostics	(Exposure 2 (Repeat of visit 05 (21))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 3 (Repeat of visit 05 (21))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 4 (Repeat of visit 05 (21))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 5 (Repeat of visit 05 (21))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Exposure 6 (Repeat of visit 05 (21))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser																	
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(6)		NGC-2257	RA: 06 30 12.0000 (97.5500000d) Dec: -64 19 36.00 (-64.32667d) Equinox: J2000	Epoch of Position: 2015.5	V=12.62	Reference Frame: SIMBAD													
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit								
	1	(6) NGC-2257	(6) NGC-2257	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=20	POS TARG -2.5,-2.5		40 Secs (35 Secs) [==>35.0 Secs]	[1]									
	2	(6) NGC-2257	(6) NGC-2257	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG -2.5,-2.5		350 Secs (434 Secs) [==>434.0 Secs]	[1]									
	3	(6) NGC-2257	(6) NGC-2257	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG -5,-5		350 Secs (434 Secs) [==>434.0 Secs]	[1]									
	4	(6) NGC-2257	(6) NGC-2257	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 0,0		350 Secs (433 Secs) [==>433.0 Secs]	[1]									
	5	(6) NGC-2257	(6) NGC-2257	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 5,5		350 Secs (433 Secs) [==>433.0 Secs]	[1]									
	6	(6) NGC-2257	(6) NGC-2257	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 2.5,2.5		350 Secs (433 Secs) [==>433.0 Secs]	[1]									
	7	(6) NGC-2257	(6) NGC-2257	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=20	POS TARG 2.5,2.5		40 Secs (35 Secs) [==>35.0 Secs]	[1]									

