



14204 - Multiple stellar populations in two young Large Magellanic Cloud clusters: NGC1755 and NGC1866

Cycle: 23, Proposal Category: GO

(UV Initiative)

(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	(4) NGC-1866-SFT	ACS/WFC WFC3/UVIS	1	11-Jul-2015 21:01:55.0	yes
02	(1) NGC-1866	ACS/WFC WFC3/UVIS	1	11-Jul-2015 21:01:58.0	yes
03	(1) NGC-1866	ACS/WFC WFC3/UVIS	1	11-Jul-2015 21:02:00.0	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	(1) NGC-1866	ACS/WFC WFC3/UVIS	1	11-Jul-2015 21:02:03.0	yes
05	(2) NGC-1755	ACS/WFC WFC3/UVIS	1	11-Jul-2015 21:02:05.0	yes
06	(3) NGC-1755-SF	ACS/WFC WFC3/UVIS	1	11-Jul-2015 21:02:07.0	yes
07	(2) NGC-1755	ACS/WFC WFC3/UVIS	1	11-Jul-2015 21:02:09.0	yes
08	(3) NGC-1755-SF	ACS/WFC WFC3/UVIS	1	11-Jul-2015 21:02:11.0	yes

8 Total Orbits Used

ABSTRACT

Multiple sequences are present in the CMD of nearly all the old Galactic globular clusters (GCs) and correspond to multiple populations with different helium and light-elements abundance.

Multiple populations are not a peculiarity of old clusters, indeed extended main-sequence turn off (eMSTO) have been detected in most of the analyzed intermediate-age clusters in the Magellanic Clouds with age of $\sim 1-2$ Gyr.

The conditions under which GCs experience the formation of multiple populations remain controversial. An unique angle on this problem can be provided by the young star clusters but the many investigations from different techniques reported no evidence for multiple populations in clusters younger than ~ 1 Gyr to date.

Surprisingly, we have recently discovered the first case of a ~ 300 -Myr-old cluster with split main sequence and eMSTO. This finding has been possible thanks to the use of UVIS photometry in the appropriate F336W and F814W filters.

To properly constraint the multipopulation phenomenon in young clusters, we propose deep UVIS imaging of the ~ 150 Myrs-old LMC star clusters NGC1866 and NGC1755 which, according to the analysis of archive *HST* data are excellent candidates to host multiple populations.

The proposed observations will allow us to understand if multiple populations are present in very-young LMC clusters. We will be able to measure

Proposal 14204 (STScI Edit Number: 3, Created: Saturday, July 11, 2015 8:02:13 PM EST) - Overview

the age difference between the populations with errors of less than 20 Myr and detect very small He and CNO differences.

NGC1755 and NGC1866 have different masses, therefore the presence or the absence of multiple sequences in their CMDs will give information on the minimum mass required for a cluster to host multiple populations thus providing fundamental clues on the formation mechanism.

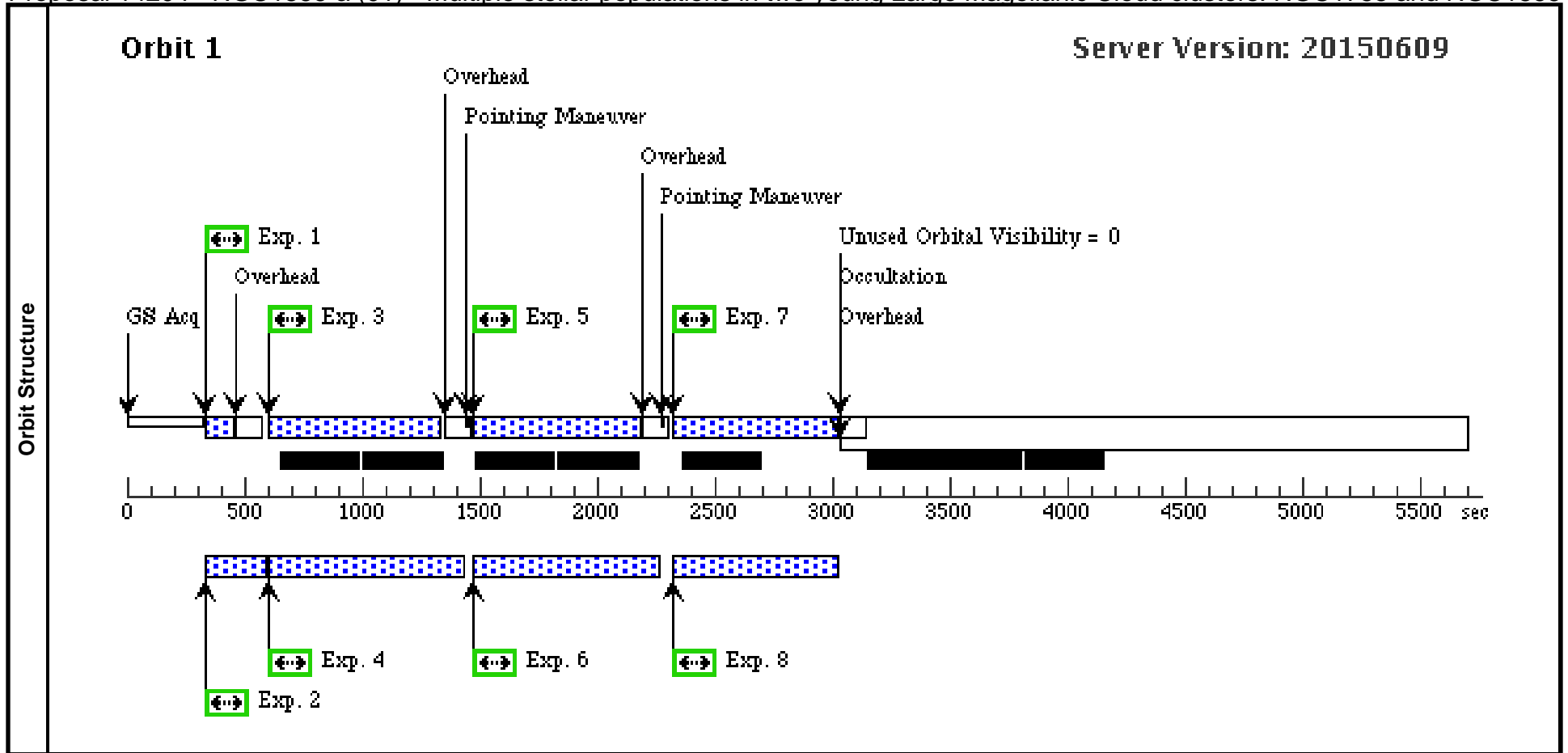
OBSERVING DESCRIPTION

This is a proposal aimed at obtaining high accuracy photometry of the MC clusters NGC 1755 and NGC1866 in the WFC3/UVIS/F336W and WFC3/UVIS/F814W bands.

Proposal 14204 - NGC1866-a (01) - Multiple stellar populations in two young Large Magellanic Cloud clusters: NGC1755 and NGC1866

Sun Jul 12 01:02:13 GMT 2015

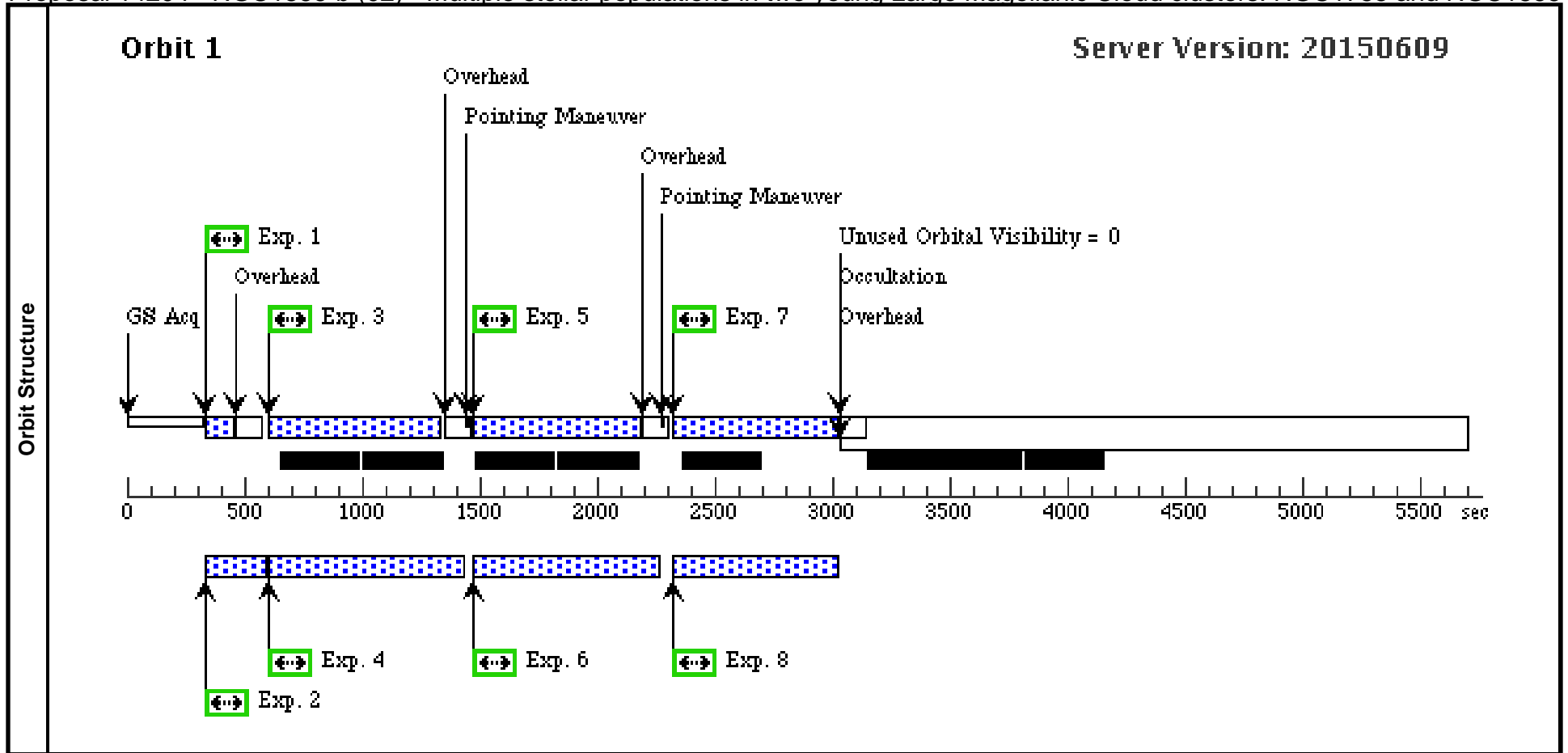
Visit	Proposal 14204, NGC1866-a (01), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 100%; ORIENT 174D TO 176 D <i>Comments: NGC-1866 - part 1</i>									
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	NGC-1866-SFT	RA: 05 13 56.0000 (78.4833333d) Dec: -65 26 15.00 (-65.43750d) Equinox: J2000		V=9.73	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(4) NGC-1866-SFT	(4) NGC-1866-SFT	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=8	POS TARG -3,-3	Prime + Parallel Group 1-2 in NGC1866-a (01)	90 Secs (90 Secs) [==>]	[1]
	2	(4) NGC-1866-SFT	(4) NGC-1866-SFT	ACS/WFC, ACCUM, WFCENTER	F814W	FLASH=16		Prime + Parallel Group 1-2 in NGC1866-a (01)	42 Secs (42 Secs) [==>]	[1]
	3	(4) NGC-1866-SFT	(4) NGC-1866-SFT	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8	POS TARG -3,-3	Prime + Parallel Group 3-4 in NGC1866-a (01)	711 Secs (711 Secs) [==>]	[1]
	4	(4) NGC-1866-SFT	(4) NGC-1866-SFT	ACS/WFC, ACCUM, WFCENTER	F475W			Prime + Parallel Group 3-4 in NGC1866-a (01)	665 Secs (665 Secs) [==>]	[1]
	5	(4) NGC-1866-SFT	(4) NGC-1866-SFT	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8	POS TARG 0,0	Prime + Parallel Group 5-6 in NGC1866-a (01)	711 Secs (711 Secs) [==>]	[1]
	6	(4) NGC-1866-SFT	(4) NGC-1866-SFT	ACS/WFC, ACCUM, WFCENTER	F475W			Prime + Parallel Group 5-6 in NGC1866-a (01)	665 Secs (665 Secs) [==>]	[1]
	7	(4) NGC-1866-SFT	(4) NGC-1866-SFT	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=8	POS TARG +3,+3	Prime + Parallel Group 7-8 in NGC1866-a (01)	678 Secs (678 Secs) [==>]	[1]
	8	(4) NGC-1866-SFT	(4) NGC-1866-SFT	ACS/WFC, ACCUM, WFCENTER	F814W			Prime + Parallel Group 7-8 in NGC1866-a (01)	533 Secs (533 Secs) [==>]	[1]



Proposal 14204 - NGC1866-b (02) - Multiple stellar populations in two young Large Magellanic Cloud clusters: NGC1755 and NGC1866

Sun Jul 12 01:02:14 GMT 2015

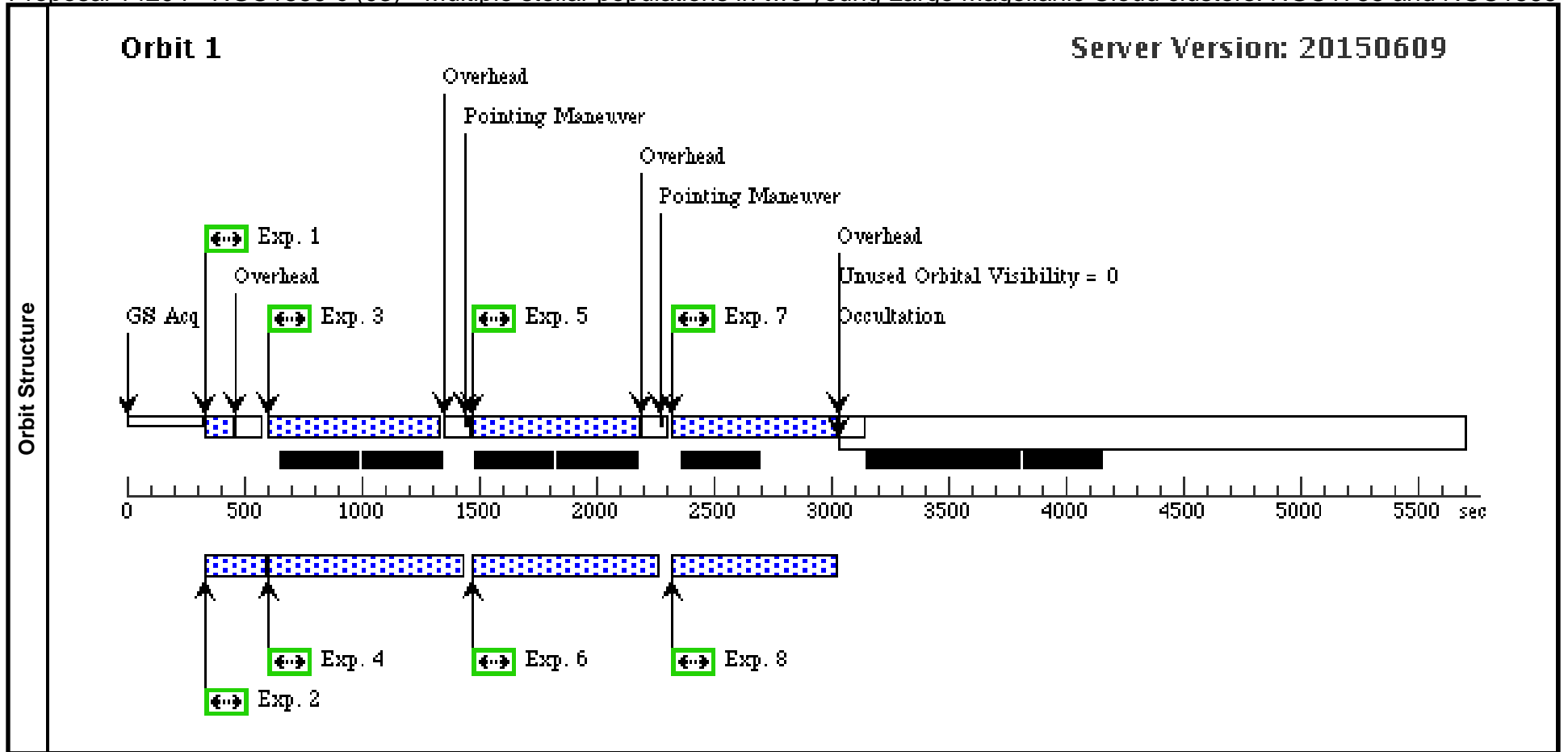
Visit	Proposal 14204, NGC1866-b (02), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 100%; SAME ORIENT AS 01 <i>Comments: NGC-1866 - part 2</i>									
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-1866	RA: 05 13 38.9200 (78.4121667d) Dec: -65 27 52.75 (-65.46465d) Equinox: J2000		V=9.73	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) NGC-1866	(1) NGC-1866	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=8	POS TARG -3,-3	Prime + Parallel Group 1-2 in NGC1866-b (02)	90 Secs (90 Secs) [==>]	[1]
	2	(1) NGC-1866	(1) NGC-1866	ACS/WFC, ACCUM, WFCENTER	F814W	FLASH=16		Prime + Parallel Group 1-2 in NGC1866-b (02)	42 Secs (42 Secs) [==>]	[1]
	3	(1) NGC-1866	(1) NGC-1866	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8	POS TARG -3,-3	Prime + Parallel Group 3-4 in NGC1866-b (02)	711 Secs (711 Secs) [==>]	[1]
	4	(1) NGC-1866	(1) NGC-1866	ACS/WFC, ACCUM, WFCENTER	F475W			Prime + Parallel Group 3-4 in NGC1866-b (02)	665 Secs (665 Secs) [==>]	[1]
	5	(1) NGC-1866	(1) NGC-1866	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8	POS TARG 0,0	Prime + Parallel Group 5-6 in NGC1866-b (02)	711 Secs (711 Secs) [==>]	[1]
	6	(1) NGC-1866	(1) NGC-1866	ACS/WFC, ACCUM, WFCENTER	F475W			Prime + Parallel Group 5-6 in NGC1866-b (02)	665 Secs (665 Secs) [==>]	[1]
	7	(1) NGC-1866	(1) NGC-1866	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=8	POS TARG +3,+3	Prime + Parallel Group 7-8 in NGC1866-b (02)	678 Secs (678 Secs) [==>]	[1]
	8	(1) NGC-1866	(1) NGC-1866	ACS/WFC, ACCUM, WFCENTER	F814W			Prime + Parallel Group 7-8 in NGC1866-b (02)	533 Secs (533 Secs) [==>]	[1]



Proposal 14204 - NGC1866-c (03) - Multiple stellar populations in two young Large Magellanic Cloud clusters: NGC1755 and NGC1866

Sun Jul 12 01:02:14 GMT 2015

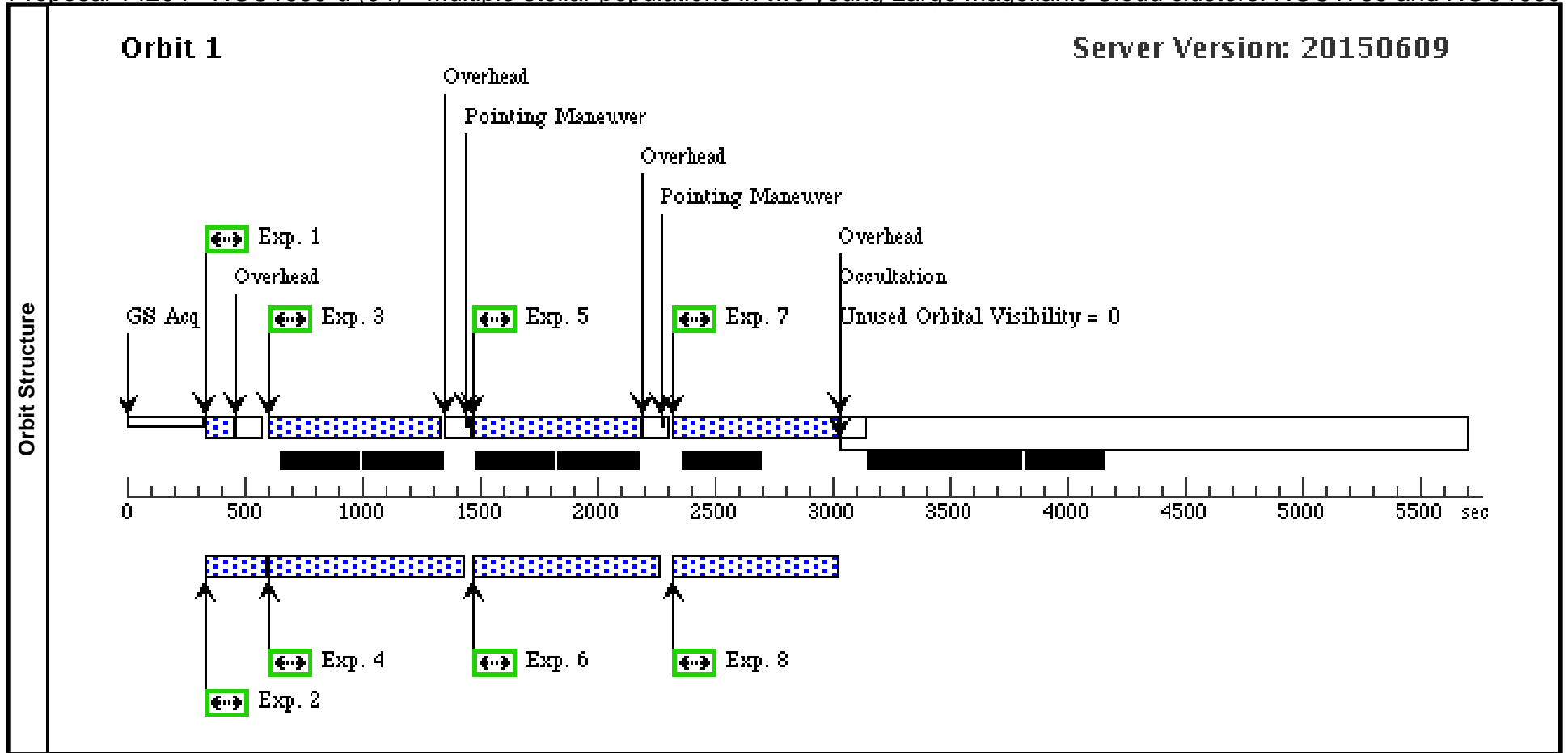
Visit	Proposal 14204, NGC1866-c (03), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 100%; ORIENT 90D TO 90D FROM 01 <i>Comments: NGC-1866 - part 3</i>									
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-1866	RA: 05 13 38.9200 (78.4121667d) Dec: -65 27 52.75 (-65.46465d) Equinox: J2000		V=9.73	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) NGC-1866	(1) NGC-1866	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=8	POS TARG -3,-3	Prime + Parallel Group 1-2 in NGC1866-c (03)	90 Secs (90 Secs) [==>]	[1]
	2	(1) NGC-1866	(1) NGC-1866	ACS/WFC, ACCUM, WFCENTER	F814W	FLASH=16		Prime + Parallel Group 1-2 in NGC1866-c (03)	42 Secs (42 Secs) [==>]	[1]
	3	(1) NGC-1866	(1) NGC-1866	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8	POS TARG -3,-3	Prime + Parallel Group 3-4 in NGC1866-c (03)	711 Secs (711 Secs) [==>]	[1]
	4	(1) NGC-1866	(1) NGC-1866	ACS/WFC, ACCUM, WFCENTER	F475W			Prime + Parallel Group 3-4 in NGC1866-c (03)	665 Secs (665 Secs) [==>]	[1]
	5	(1) NGC-1866	(1) NGC-1866	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8	POS TARG 0,0	Prime + Parallel Group 5-6 in NGC1866-c (03)	711 Secs (711 Secs) [==>]	[1]
	6	(1) NGC-1866	(1) NGC-1866	ACS/WFC, ACCUM, WFCENTER	F475W			Prime + Parallel Group 5-6 in NGC1866-c (03)	665 Secs (665 Secs) [==>]	[1]
	7	(1) NGC-1866	(1) NGC-1866	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=8	POS TARG +3,+3	Prime + Parallel Group 7-8 in NGC1866-c (03)	678 Secs (678 Secs) [==>]	[1]
	8	(1) NGC-1866	(1) NGC-1866	ACS/WFC, ACCUM, WFCENTER	F814W			Prime + Parallel Group 7-8 in NGC1866-c (03)	533 Secs (533 Secs) [==>]	[1]



Proposal 14204 - NGC1866-d (04) - Multiple stellar populations in two young Large Magellanic Cloud clusters: NGC1755 and NGC1866

Sun Jul 12 01:02:14 GMT 2015

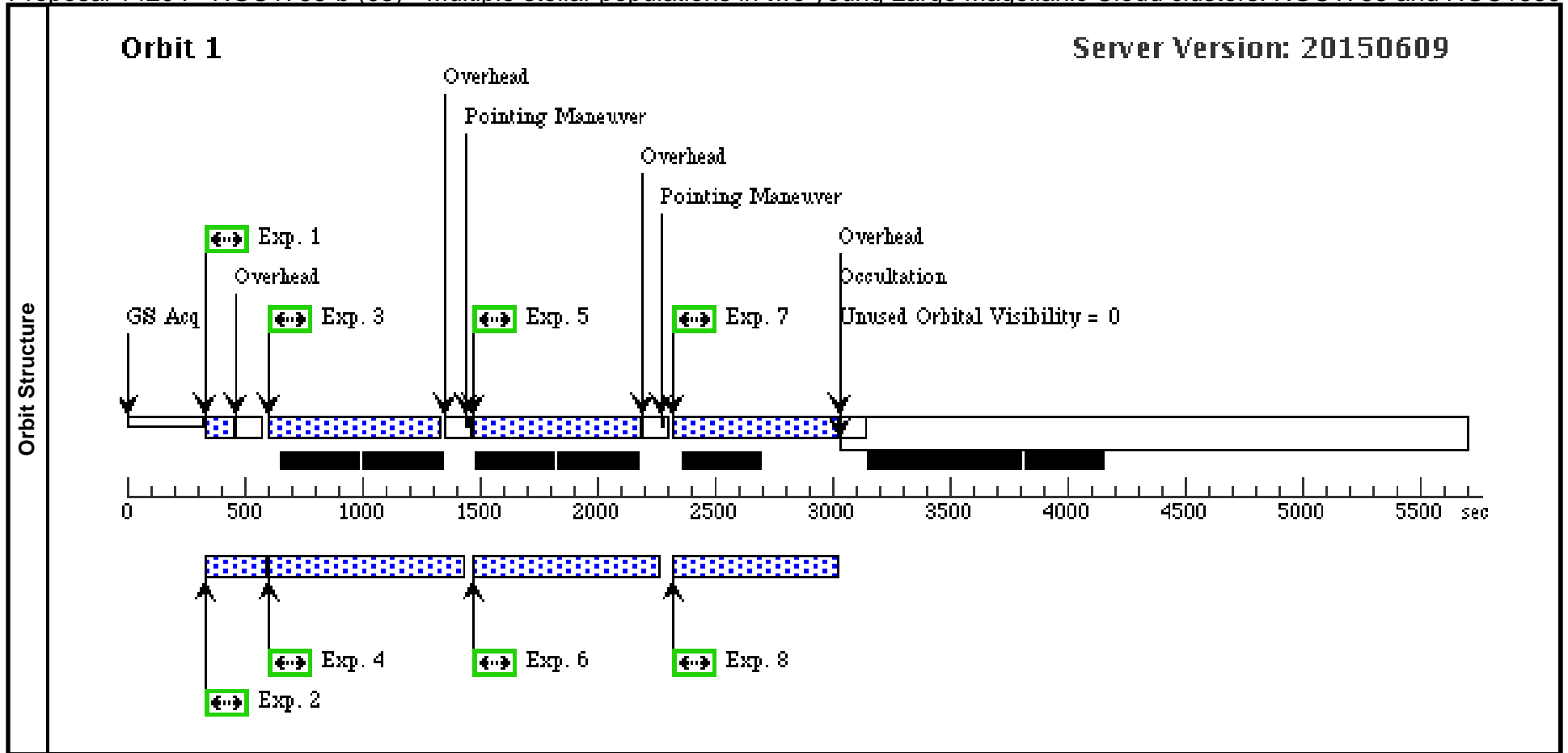
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-1866	RA: 05 13 38.9200 (78.4121667d) Dec: -65 27 52.75 (-65.46465d) Equinox: J2000		V=9.73	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(1) NGC-1866	(1) NGC-1866	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=8	POS TARG -3,-3	Prime + Parallel Group 1-2 in NGC1866-d (04)	90 Secs (90 Secs) [==>]	[1]
	2	(1) NGC-1866	(1) NGC-1866	ACS/WFC, ACCUM, WFCENTER	F814W	FLASH=16		Prime + Parallel Group 1-2 in NGC1866-d (04)	42 Secs (42 Secs) [==>]	[1]
	3	(1) NGC-1866	(1) NGC-1866	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8	POS TARG -3,-3	Prime + Parallel Group 3-4 in NGC1866-d (04)	711 Secs (711 Secs) [==>]	[1]
	4	(1) NGC-1866	(1) NGC-1866	ACS/WFC, ACCUM, WFCENTER	F475W			Prime + Parallel Group 3-4 in NGC1866-d (04)	665 Secs (665 Secs) [==>]	[1]
	5	(1) NGC-1866	(1) NGC-1866	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8	POS TARG 0,0	Prime + Parallel Group 5-6 in NGC1866-d (04)	711 Secs (711 Secs) [==>]	[1]
	6	(1) NGC-1866	(1) NGC-1866	ACS/WFC, ACCUM, WFCENTER	F475W			Prime + Parallel Group 5-6 in NGC1866-d (04)	665 Secs (665 Secs) [==>]	[1]
	7	(1) NGC-1866	(1) NGC-1866	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=8	POS TARG +3,+3	Prime + Parallel Group 7-8 in NGC1866-d (04)	678 Secs (678 Secs) [==>]	[1]
	8	(1) NGC-1866	(1) NGC-1866	ACS/WFC, ACCUM, WFCENTER	F814W			Prime + Parallel Group 7-8 in NGC1866-d (04)	533 Secs (533 Secs) [==>]	[1]



Proposal 14204 - NGC1755-b (05) - Multiple stellar populations in two young Large Magellanic Cloud clusters: NGC1755 and NGC1866

Sun Jul 12 01:02:14 GMT 2015

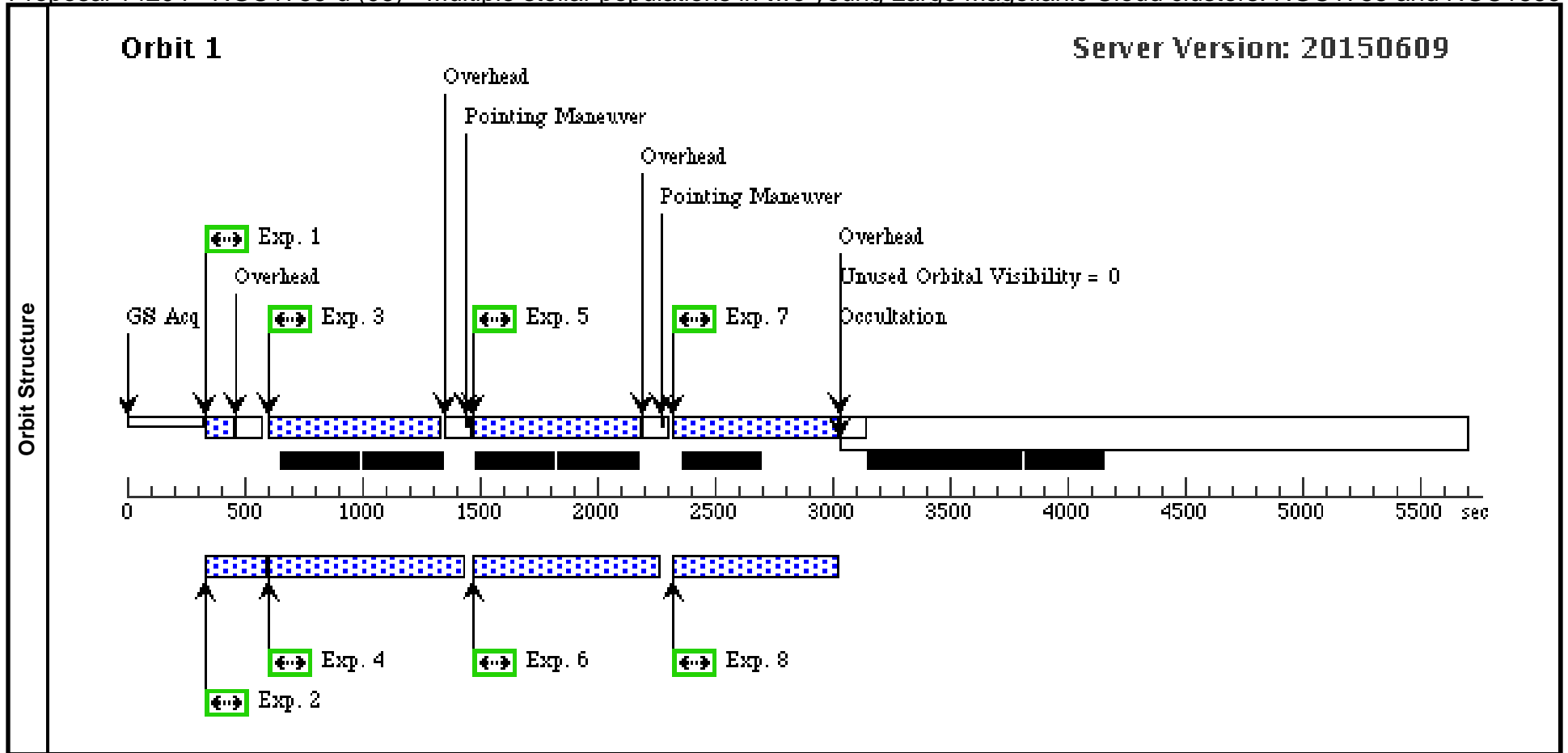
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Diagnostics	(Primary Exposure 1 (Prime + Parallel Group 1-2 in NGC1755-b (05))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Primary Exposure 3 (Prime + Parallel Group 3-4 in NGC1755-b (05))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Primary Exposure 5 (Prime + Parallel Group 5-6 in NGC1755-b (05))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Primary Exposure 7 (Prime + Parallel Group 7-8 in NGC1755-b (05))) Warning (Form): FLASH level may be too high for this exposure or a long 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>(2)</td> <td>NGC-1755</td> <td>RA: 04 55 20.0000 (73.8333333d) Dec: -68 12 18.00 (-68.20500d) Equinox: J2000</td> <td></td> <td>V=9.85</td> <td>Reference Frame: SIMBAD</td> </tr> </tbody> </table> <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	NGC-1755	RA: 04 55 20.0000 (73.8333333d) Dec: -68 12 18.00 (-68.20500d) Equinox: J2000		V=9.85	Reference Frame: SIMBAD																																																																														
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																																																															
(2)	NGC-1755	RA: 04 55 20.0000 (73.8333333d) Dec: -68 12 18.00 (-68.20500d) Equinox: J2000		V=9.85	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>(2) NGC-1755</td> <td></td> <td>WFC3/UVIS, ACCUM, UVIS-CENTER</td> <td>F814W</td> <td>FLASH=8</td> <td>POS TARG -3,-3; GS ACQ SCENARI O BASE1B3</td> <td>Prime + Parallel Group 1-2 in NGC1755-b (05)</td> <td>90 Secs (90 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>(2) NGC-1755</td> <td></td> <td>ACS/WFC, ACCUM, WFCENTER</td> <td>F814W</td> <td>FLASH=16</td> <td></td> <td>Prime + Parallel Group 1-2 in NGC1755-b (05)</td> <td>42 Secs (42 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>(2) NGC-1755</td> <td></td> <td>WFC3/UVIS, ACCUM, UVIS-CENTER</td> <td>F336W</td> <td>FLASH=8</td> <td>POS TARG -3,-3</td> <td>Prime + Parallel Group 3-4 in NGC1755-b (05)</td> <td>711 Secs (711 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>(2) NGC-1755</td> <td></td> <td>ACS/WFC, ACCUM, WFCENTER</td> <td>F475W</td> <td></td> <td></td> <td>Prime + Parallel Group 3-4 in NGC1755-b (05)</td> <td>665 Secs (665 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>5</td> <td>(2) NGC-1755</td> <td></td> <td>WFC3/UVIS, ACCUM, UVIS-CENTER</td> <td>F336W</td> <td>FLASH=8</td> <td>POS TARG 0,0</td> <td>Prime + Parallel Group 5-6 in NGC1755-b (05)</td> <td>711 Secs (711 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>6</td> <td>(2) NGC-1755</td> <td></td> <td>ACS/WFC, ACCUM, WFCENTER</td> <td>F475W</td> <td></td> <td></td> <td>Prime + Parallel Group 5-6 in NGC1755-b (05)</td> <td>665 Secs (665 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>7</td> <td>(2) NGC-1755</td> <td></td> <td>WFC3/UVIS, ACCUM, UVIS-CENTER</td> <td>F814W</td> <td>FLASH=8</td> <td>POS TARG +3,+3</td> <td>Prime + Parallel Group 7-8 in NGC1755-b (05)</td> <td>678 Secs (678 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>8</td> <td>(2) NGC-1755</td> <td></td> <td>ACS/WFC, ACCUM, WFCENTER</td> <td>F814W</td> <td></td> <td></td> <td>Prime + Parallel Group 7-8 in NGC1755-b (05)</td> <td>533 Secs (533 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) NGC-1755		WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=8	POS TARG -3,-3; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in NGC1755-b (05)	90 Secs (90 Secs) [==>]	[1]	2	(2) NGC-1755		ACS/WFC, ACCUM, WFCENTER	F814W	FLASH=16		Prime + Parallel Group 1-2 in NGC1755-b (05)	42 Secs (42 Secs) [==>]	[1]	3	(2) NGC-1755		WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8	POS TARG -3,-3	Prime + Parallel Group 3-4 in NGC1755-b (05)	711 Secs (711 Secs) [==>]	[1]	4	(2) NGC-1755		ACS/WFC, ACCUM, WFCENTER	F475W			Prime + Parallel Group 3-4 in NGC1755-b (05)	665 Secs (665 Secs) [==>]	[1]	5	(2) NGC-1755		WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8	POS TARG 0,0	Prime + Parallel Group 5-6 in NGC1755-b (05)	711 Secs (711 Secs) [==>]	[1]	6	(2) NGC-1755		ACS/WFC, ACCUM, WFCENTER	F475W			Prime + Parallel Group 5-6 in NGC1755-b (05)	665 Secs (665 Secs) [==>]	[1]	7	(2) NGC-1755		WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=8	POS TARG +3,+3	Prime + Parallel Group 7-8 in NGC1755-b (05)	678 Secs (678 Secs) [==>]	[1]	8	(2) NGC-1755		ACS/WFC, ACCUM, WFCENTER	F814W			Prime + Parallel Group 7-8 in NGC1755-b (05)	533 Secs (533 Secs) [==>]	[1]
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																																																											
1	(2) NGC-1755		WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=8	POS TARG -3,-3; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in NGC1755-b (05)	90 Secs (90 Secs) [==>]	[1]																																																																																											
2	(2) NGC-1755		ACS/WFC, ACCUM, WFCENTER	F814W	FLASH=16		Prime + Parallel Group 1-2 in NGC1755-b (05)	42 Secs (42 Secs) [==>]	[1]																																																																																											
3	(2) NGC-1755		WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8	POS TARG -3,-3	Prime + Parallel Group 3-4 in NGC1755-b (05)	711 Secs (711 Secs) [==>]	[1]																																																																																											
4	(2) NGC-1755		ACS/WFC, ACCUM, WFCENTER	F475W			Prime + Parallel Group 3-4 in NGC1755-b (05)	665 Secs (665 Secs) [==>]	[1]																																																																																											
5	(2) NGC-1755		WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8	POS TARG 0,0	Prime + Parallel Group 5-6 in NGC1755-b (05)	711 Secs (711 Secs) [==>]	[1]																																																																																											
6	(2) NGC-1755		ACS/WFC, ACCUM, WFCENTER	F475W			Prime + Parallel Group 5-6 in NGC1755-b (05)	665 Secs (665 Secs) [==>]	[1]																																																																																											
7	(2) NGC-1755		WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=8	POS TARG +3,+3	Prime + Parallel Group 7-8 in NGC1755-b (05)	678 Secs (678 Secs) [==>]	[1]																																																																																											
8	(2) NGC-1755		ACS/WFC, ACCUM, WFCENTER	F814W			Prime + Parallel Group 7-8 in NGC1755-b (05)	533 Secs (533 Secs) [==>]	[1]																																																																																											



Proposal 14204 - NGC1755-d (06) - Multiple stellar populations in two young Large Magellanic Cloud clusters: NGC1755 and NGC1866

Sun Jul 12 01:02:15 GMT 2015

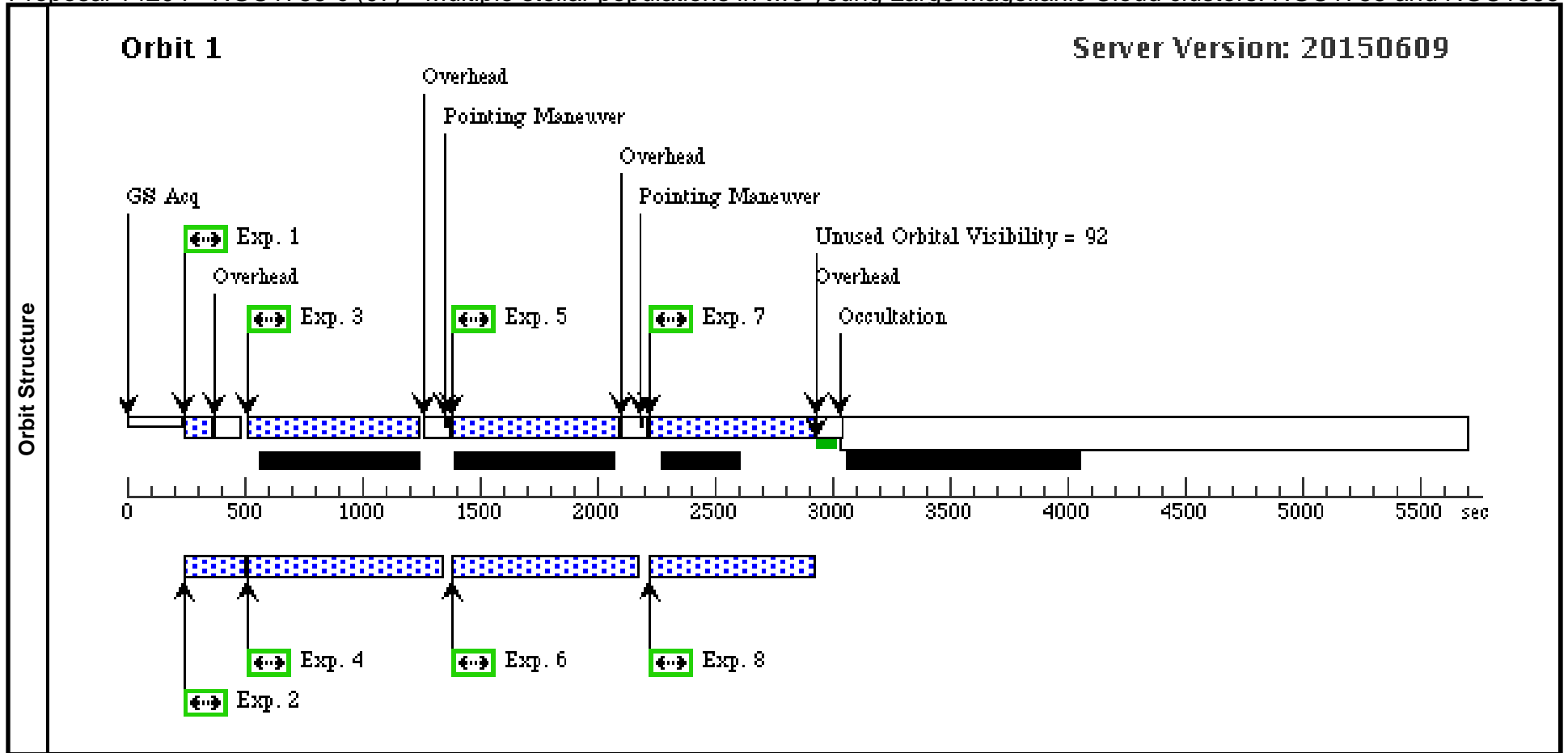
Visit	Proposal 14204, NGC1755-d (06), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 100%; ORIENT 90D TO 90D FROM 05 <i>Comments: NGC-1755 - part 4</i>									
	Diagnostics	(Primary Exposure 1 (Prime + Parallel Group 1-2 in NGC1755-d (06))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Primary Exposure 3 (Prime + Parallel Group 3-4 in NGC1755-d (06))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Primary Exposure 5 (Prime + Parallel Group 5-6 in NGC1755-d (06))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Primary Exposure 7 (Prime + Parallel Group 7-8 in NGC1755-d (06))) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(3)	NGC-1755-SF	RA: 04 55 10.0000 (73.7916667d) Dec: -68 12 4.00 (-68.20111d) Equinox: J2000		V=9.85	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) NGC-1755-SF	(3) NGC-1755-SF	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=8	POS TARG -3,-3; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in NGC1755-d (06)	90 Secs (90 Secs) [==>]	[1]
	2	(3) NGC-1755-SF	(3) NGC-1755-SF	ACS/WFC, ACCUM, WFCENTER	F814W	FLASH=16		Prime + Parallel Group 1-2 in NGC1755-d (06)	42 Secs (42 Secs) [==>]	[1]
	3	(3) NGC-1755-SF	(3) NGC-1755-SF	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8	POS TARG -3,-3	Prime + Parallel Group 3-4 in NGC1755-d (06)	711 Secs (711 Secs) [==>]	[1]
	4	(3) NGC-1755-SF	(3) NGC-1755-SF	ACS/WFC, ACCUM, WFCENTER	F475W			Prime + Parallel Group 3-4 in NGC1755-d (06)	665 Secs (665 Secs) [==>]	[1]
	5	(3) NGC-1755-SF	(3) NGC-1755-SF	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8	POS TARG 0,0	Prime + Parallel Group 5-6 in NGC1755-d (06)	711 Secs (711 Secs) [==>]	[1]
	6	(3) NGC-1755-SF	(3) NGC-1755-SF	ACS/WFC, ACCUM, WFCENTER	F475W			Prime + Parallel Group 5-6 in NGC1755-d (06)	665 Secs (665 Secs) [==>]	[1]
	7	(3) NGC-1755-SF	(3) NGC-1755-SF	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=8	POS TARG +3,+3	Prime + Parallel Group 7-8 in NGC1755-d (06)	678 Secs (678 Secs) [==>]	[1]
	8	(3) NGC-1755-SF	(3) NGC-1755-SF	ACS/WFC, ACCUM, WFCENTER	F814W			Prime + Parallel Group 7-8 in NGC1755-d (06)	533 Secs (533 Secs) [==>]	[1]



Proposal 14204 - NGC1755-c (07) - Multiple stellar populations in two young Large Magellanic Cloud clusters: NGC1755 and NGC1866

Sun Jul 12 01:02:15 GMT 2015

Visit	Proposal 14204, NGC1755-c (07), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 100%; ORIENT 180D TO 180D FROM 05 <i>Comments: NGC-1755 - part 3</i>									
	Diagnostics	(Primary Exposure 1 (Prime + Parallel Group 1-2 in NGC1755-c (07))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Primary Exposure 3 (Prime + Parallel Group 3-4 in NGC1755-c (07))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Primary Exposure 5 (Prime + Parallel Group 5-6 in NGC1755-c (07))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Primary Exposure 7 (Prime + Parallel Group 7-8 in NGC1755-c (07))) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(2)	NGC-1755	RA: 04 55 20.0000 (73.8333333d) Dec: -68 12 18.00 (-68.20500d) Equinox: J2000		V=9.85	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(2) NGC-1755	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=8	POS TARG -3,-3; GS ACQ SCENARI O ONEB1B3	Prime + Parallel Group 1-2 in NGC1755-c (07)	90 Secs (90 Secs) [==>]	[1]
	2		(2) NGC-1755	ACS/WFC, ACCUM, WFCENTER	F814W	FLASH=16		Prime + Parallel Group 1-2 in NGC1755-c (07)	42 Secs (42 Secs) [==>]	[1]
	3		(2) NGC-1755	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8	POS TARG -3,-3	Prime + Parallel Group 3-4 in NGC1755-c (07)	711 Secs (711 Secs) [==>]	[1]
	4		(2) NGC-1755	ACS/WFC, ACCUM, WFCENTER	F475W			Prime + Parallel Group 3-4 in NGC1755-c (07)	665 Secs (665 Secs) [==>]	[1]
	5		(2) NGC-1755	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8	POS TARG 0,0	Prime + Parallel Group 5-6 in NGC1755-c (07)	711 Secs (711 Secs) [==>]	[1]
	6		(2) NGC-1755	ACS/WFC, ACCUM, WFCENTER	F475W			Prime + Parallel Group 5-6 in NGC1755-c (07)	665 Secs (665 Secs) [==>]	[1]
	7		(2) NGC-1755	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=8	POS TARG +3,+3	Prime + Parallel Group 7-8 in NGC1755-c (07)	678 Secs (678 Secs) [==>]	[1]
	8		(2) NGC-1755	ACS/WFC, ACCUM, WFCENTER	F814W			Prime + Parallel Group 7-8 in NGC1755-c (07)	533 Secs (533 Secs) [==>]	[1]



Proposal 14204 - NGC1755-a (08) - Multiple stellar populations in two young Large Magellanic Cloud clusters: NGC1755 and NGC1866

Sun Jul 12 01:02:15 GMT 2015

Visit	Proposal 14204, NGC1755-a (08), implementation Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: SCHED 100%; ORIENT -90D TO -90D FROM 05 <i>Comments: NGC-1755 - part a</i>									
	Diagnostics	(Primary Exposure 1 (Prime + Parallel Group 1-2 in NGC1755-a (08))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Primary Exposure 3 (Prime + Parallel Group 3-4 in NGC1755-a (08))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Primary Exposure 5 (Prime + Parallel Group 5-6 in NGC1755-a (08))) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (Primary Exposure 7 (Prime + Parallel Group 7-8 in NGC1755-a (08))) Warning (Form): FLASH level may be too high for this exposure or a long subexposure. See extended explanation in the diagnostic browser								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(3)	NGC-1755-SF	RA: 04 55 10.0000 (73.7916667d) Dec: -68 12 4.00 (-68.20111d) Equinox: J2000		V=9.85	Reference Frame: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) NGC-1755-SF	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=8	POS TARG -3,-3; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in NGC1755-a (08)	90 Secs (90 Secs) [==>]	[1]	
	2	(3) NGC-1755-SF	ACS/WFC, ACCUM, WFCENTER	F814W	FLASH=16		Prime + Parallel Group 1-2 in NGC1755-a (08)	42 Secs (42 Secs) [==>]	[1]	
	3	(3) NGC-1755-SF	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8	POS TARG -3,-3	Prime + Parallel Group 3-4 in NGC1755-a (08)	711 Secs (711 Secs) [==>]	[1]	
	4	(3) NGC-1755-SF	ACS/WFC, ACCUM, WFCENTER	F475W			Prime + Parallel Group 3-4 in NGC1755-a (08)	665 Secs (665 Secs) [==>]	[1]	
	5	(3) NGC-1755-SF	WFC3/UVIS, ACCUM, UVIS-CENTER	F336W	FLASH=8	POS TARG 0,0	Prime + Parallel Group 5-6 in NGC1755-a (08)	711 Secs (711 Secs) [==>]	[1]	
	6	(3) NGC-1755-SF	ACS/WFC, ACCUM, WFCENTER	F475W			Prime + Parallel Group 5-6 in NGC1755-a (08)	665 Secs (665 Secs) [==>]	[1]	
	7	(3) NGC-1755-SF	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W	FLASH=8	POS TARG +3,+3	Prime + Parallel Group 7-8 in NGC1755-a (08)	678 Secs (678 Secs) [==>]	[1]	
	8	(3) NGC-1755-SF	ACS/WFC, ACCUM, WFCENTER	F814W			Prime + Parallel Group 7-8 in NGC1755-a (08)	533 Secs (533 Secs) [==>]	[1]	

