



13375 - Deep photometry of two accreted families of globular clusters in the remote M31 halo

Cycle: 21, 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) M31-PANDAS-9 ANY	ACS/WFC WFC3/UVIS	2	19-Jun-2013 22:27:16.0	yes

Proposal 13375 (STScI Edit Number: 0, Created: Wednesday, June 19, 2013 9:30:23 PM EST) - Overview

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
02	(2) M31-PANDAS-13 ANY	ACS/WFC WFC3/UVIS	2	19-Jun-2013 22:27:32.0	yes
03	(3) M31-PANDAS-15 ANY	ACS/WFC WFC3/UVIS	2	19-Jun-2013 22:27:47.0	yes
04	(4) M31-G353 (98) M31-PANDAS-39	ACS/WFC WFC3/UVIS	2	19-Jun-2013 22:28:00.0	yes
05	(5) M31-PANDAS-41 ANY	ACS/WFC WFC3/UVIS	2	19-Jun-2013 22:28:13.0	yes
06	(6) M31-HEC11 ANY	ACS/WFC WFC3/UVIS	2	19-Jun-2013 22:28:26.0	yes
07	(7) M31-PANDAS-42 ANY	ACS/WFC WFC3/UVIS	2	19-Jun-2013 22:28:42.0	yes
08	(8) M31-PANDAS-43 ANY	ACS/WFC WFC3/UVIS	2	19-Jun-2013 22:28:54.0	yes
09	(9) M31-PANDAS-44 ANY	ACS/WFC WFC3/UVIS	2	19-Jun-2013 22:29:07.0	yes
10	(10) M31-PANDAS-45 ANY	ACS/WFC WFC3/UVIS	2	19-Jun-2013 22:29:19.0	yes
11	(11) M31-PANDAS-46 (99) M31-PANDAS-47	ACS/WFC WFC3/UVIS	2	19-Jun-2013 22:29:32.0	yes
12	(12) M31-B517 ANY	ACS/WFC WFC3/UVIS	2	19-Jun-2013 22:29:44.0	yes
13	(13) M31-PANDAS-49 ANY	ACS/WFC WFC3/UVIS	2	19-Jun-2013 22:29:57.0	yes
14	(14) M31-PANDAS-51 ANY	ACS/WFC WFC3/UVIS	2	19-Jun-2013 22:30:13.0	yes

28 Total Orbits Used

ABSTRACT

Globular clusters (GCs) are fossil relics from which we can obtain critical insights into the merger and accretion events that underlie hierarchical galaxy assembly. As part of the major Pan-Andromeda Archaeological Survey (PAndAS) we have discovered two groups of GCs that closely trace narrow stellar debris streams in the M31 halo. These clearly represent two distinct accreted families of GCs - the only known examples apart from the few Galactic GCs arriving with the Sagittarius dwarf. We propose to obtain deep ACS imaging of 14 GCs spanning these two accreted families, allowing us to measure the constituent stellar populations, line-of-sight distance, and structural parameters of each object. We will, for the first time, quantify the typical properties of accreted GCs in the M31 halo as well as the degree of variation amongst them, and how closely they correspond to the suspected accreted GC population in the Milky Way. Combined with new radial velocity measurements for the GCs, our proposed observations will allow us to trace the 3D orbits of the two streams within the M31 halo, and thus break the main degeneracies that plague numerical models designed to probe the gravitational potential and distribution of dark mass.

OBSERVING DESCRIPTION

The aim of this program is to conduct ACS/WFC resolved imaging of 14 globular clusters in the extreme outer reaches of the Andromeda galaxy (M31, NGC224). Using these observations we will construct a colour-magnitude diagram for each target cluster, allowing us to study their constituent stellar populations, structures, and line-of-sight distances.

ACS/WFC possesses a sufficiently wide field of view to fully cover each target cluster and sample the surrounding halo field, while providing a suitably high pixel scale to resolve even the most compact targets in our list into their constituent stars in regions outside their innermost cores. It also possesses somewhat higher throughput than WFC3/UVIS in the mid-optical passbands we will use. Although charge-transfer inefficiency is now a non-negligible issue for ACS/WFC photometry, we do not expect our science to be negatively impacted. CTE effects are somewhat mitigated because (i) we will be conducting deep broadband imaging, where the background is comparatively high, and (ii) our target clusters cover a rather small region on the camera (typically with radius ~ 500 pixels). In addition, sophisticated tools (such as that developed by Anderson & Bedin at STScI) enable CTE effects to be corrected with a high degree of precision.

We will observe using the F606W and F814W filters. These offer maximum throughput and match the vast majority of extant ACS/WFC imaging of M31 and Galactic globular clusters.

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In order to achieve our science goals we require the cluster colour-magnitude diagrams to reach at least 2 magnitudes below the level of the horizontal branch, and cover the possibility that the horizontal branch may extend significantly to blue colours. The horizontal branch level in clusters at the distance and typical foreground extinction of M31 ($D \sim 780$ kpc, $A_V \sim 0.1$ mag) is $V \sim 25$. The ACS/WFC exposure time calculator shows that suitable signal-to-noise can be achieved with three ~ 800 s exposures in both F606W and F814W. With these exposure durations the ETC suggests we will reach $S/N \sim 10$ for red giant branch stars with $V \sim 27.3$ -- that is, more than 2 magnitudes below the horizontal branch level. On the horizontal branch at $V \sim 25$, we expect $S/N \sim 60$, which is excellent for an accurate assessment of horizontal branch morphology even if this feature extends far to the blue. In no individual exposure will the brightest cluster red giants (at $V \sim 22$) be saturated, meaning the upper parts of the red giant branch will be fully sampled at high signal-to-noise (> 350).

For each target our observations are most efficiently arranged over a two orbit visit -- one orbit per filter. Even though our targets span a range of declinations and therefore have a range of orbital visibility periods, at minimum we will obtain 3×800 s exposures in F606W and F814W. We have used the "auto-adjust" feature in APT to deliver maximum on-target exposure time per orbit. We place the F814W exposures, for which ACS/WFC has slightly lower throughput, on the second orbit of each visit as the available exposure time is slightly longer than on the first orbit.

Our overall allocation is $14 \times 2 = 28$ orbits.

We place each target at the WFC1 aperture. This will ensure full coverage of the majority of each cluster, while avoiding the ACS/WFC inter-chip gap. In order to minimise the effect of this gap on our imaging we will employ a 3-point dither in each filter using the ACS-WFC-DITHER-LINE pattern. This will enable cosmic ray and hot pixel rejection across the field of view.

All but two of our visits are unconstrained in orientation. The exceptions are visit 04 (target G353) and visit 11 (target PA-46), both of which lie separated from other M31 globular clusters by ~ 5 arcmin, meaning that we can observe these secondary clusters (PA-39 and PA-47, respectively) with WFC3/UVIS in parallel via the use of some moderate orientation restrictions. For all other visits we will conduct parallel WFC3/UVIS observations to sample the M31 halo near each target cluster. The aim is to construct colour-magnitude diagrams for field halo stars at large distances from the centre of M31. For all our parallel observations we will utilise the F606W and F814W filters, which offer maximum throughput. Exposure times are similar to those employed for our primary observations, but again maximised using the "auto-adjust" feature in APT. For the halo parallels, it does not matter whether the dither pattern we have selected for the primary imaging ends up covering the WFC3/UVIS inter-chip gap or not. For the two cluster parallels, we have checked with the Aladin viewer that the inter-chip gap will not intersect the target.

Each of our visits except 04 and 11 is schedulable on numerous occasions throughout Cycle 21. Windows for visits 04 and 11 are more restricted but still span intervals of nearly a month each within the Cycle.

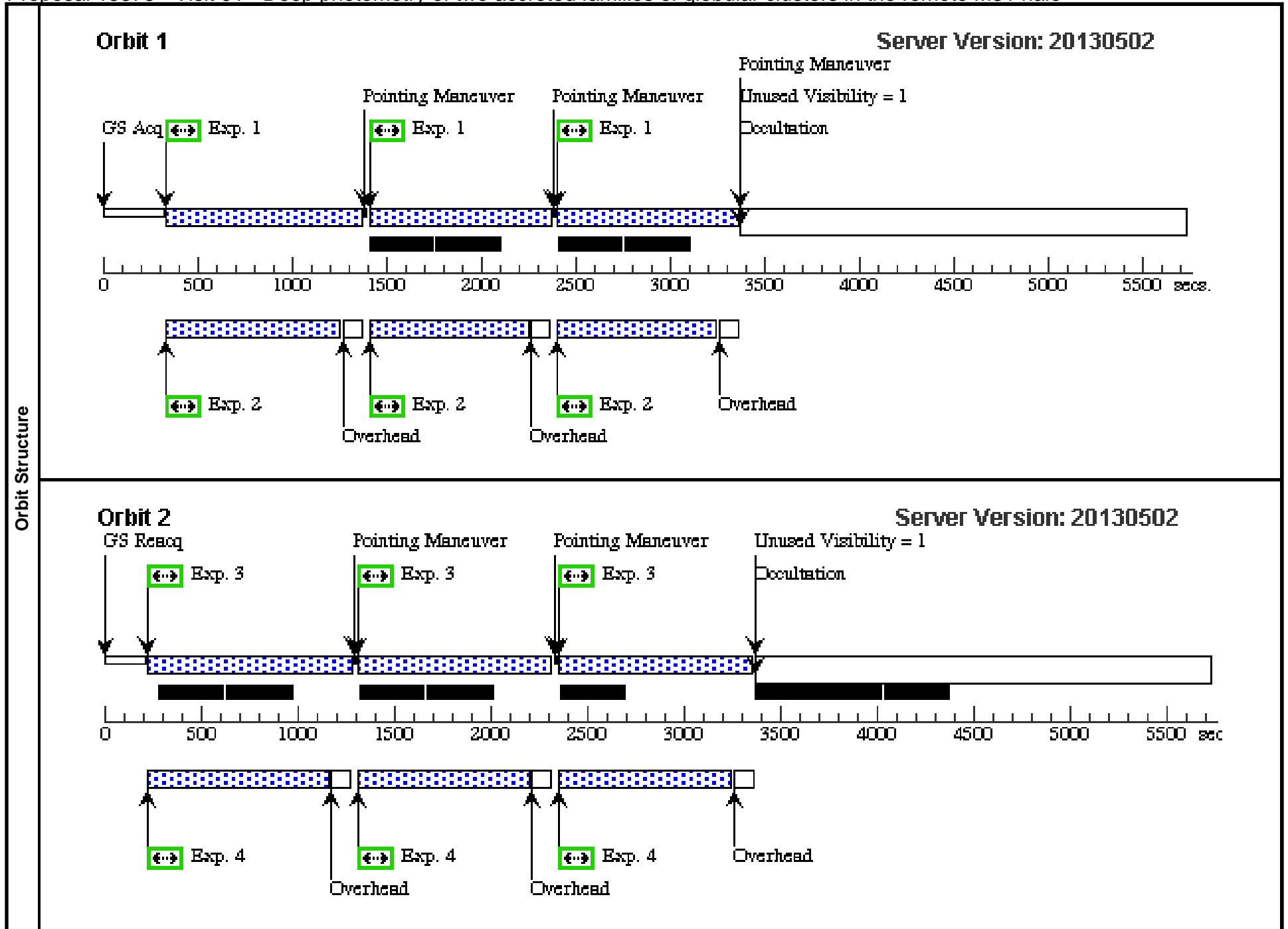
ADDITIONAL COMMENTS

We have added two targets to the list specified in the Phase I proposal (G353 and PA-39) by application to the TTRB. This is because we discovered that we could observe PA-46 and PA-47 in parallel, freeing up two orbits. The two new targets will similarly be observed in parallel.

Proposal 13375 - Visit 01 - Deep photometry of two accreted families of globular clusters in the remote M31 halo

Thu Jun 20 02:30:23 GMT 2013

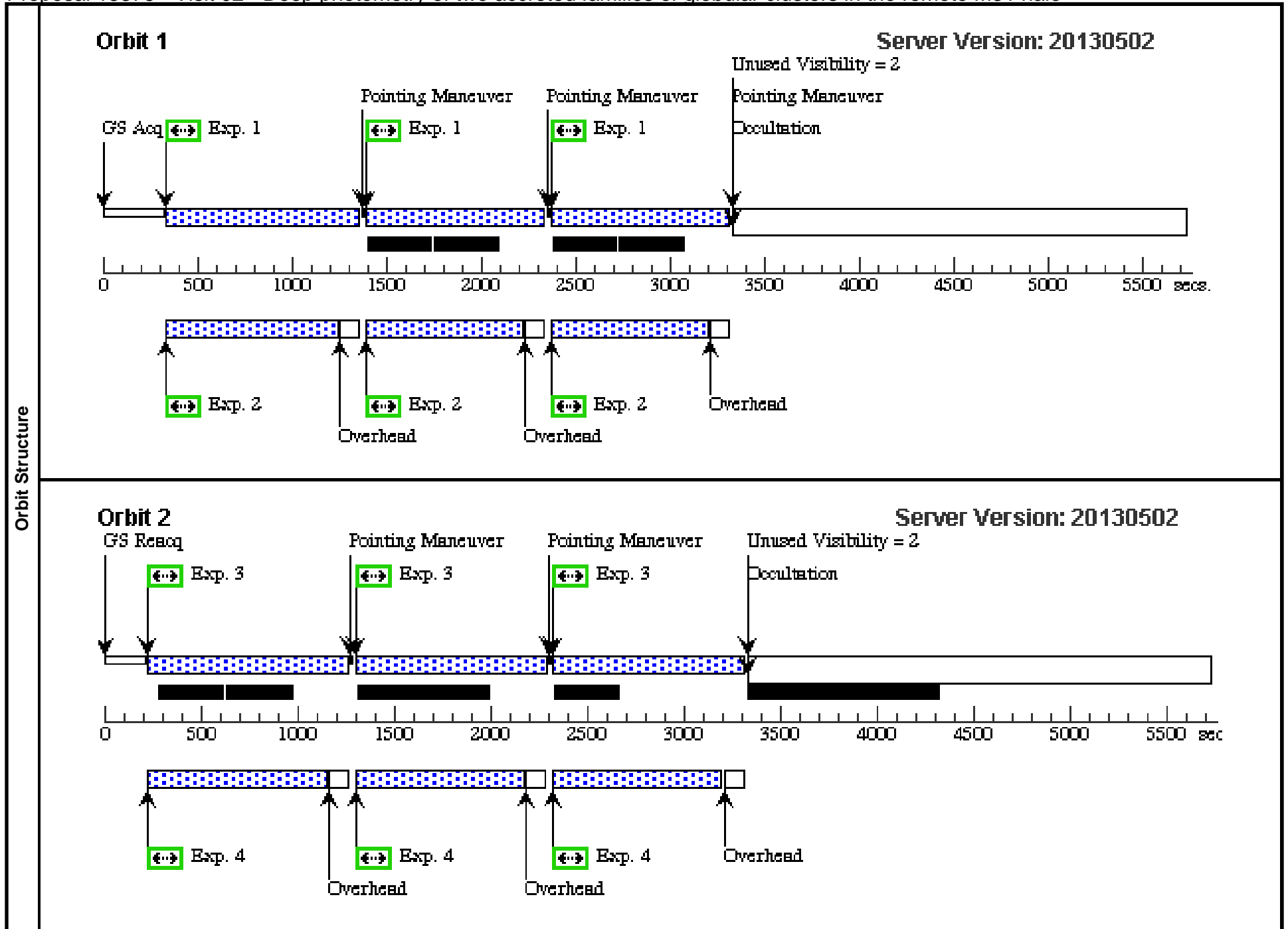
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	(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	M31-PANDAS-9	RA: 00 12 54.6600 (3.2277500d) Dec: +45 05 55.86 (45.09885d) Equinox: J2000		V=18.0+/-0.2 SURF(V) = 18.8 +/- 0.2, (V-I) = 0.9 +/- 0.2, E(B-V) = 0.09 +/- 0.01	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) M31-PANDAS-9	ACS/WFC, ACCUM, WFC1	F606W			Pattern 1, Exps 1-2 in Visit 01 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 01	780 Secs (2499 Secs) [==>833.0 Secs (Pattern 1)] [==>833.0 Secs (Pattern 2)] [==>833.0 Secs (Pattern 3)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W			Pattern 1, Exps 1-2 in Visit 01 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 01	780 Secs (2579 Secs) [==>893.0 Secs (Pattern 1)] [==>843.0 Secs (Pattern 2)] [==>843.0 Secs (Pattern 3)]	[1]
	3		(1) M31-PANDAS-9	ACS/WFC, ACCUM, WFC1	F814W			Pattern 1, Exps 3-4 in Visit 01 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 01	820 Secs (2637 Secs) [==>879.0 Secs (Pattern 1)] [==>879.0 Secs (Pattern 2)] [==>879.0 Secs (Pattern 3)]	[2]
	4		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Pattern 1, Exps 3-4 in Visit 01 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 01	820 Secs (2699 Secs) [==>921.0 Secs (Pattern 1)] [==>889.0 Secs (Pattern 2)] [==>889.0 Secs (Pattern 3)]	[2]



Proposal 13375 - Visit 02 - Deep photometry of two accreted families of globular clusters in the remote M31 halo

Thu Jun 20 02:30:26 GMT 2013

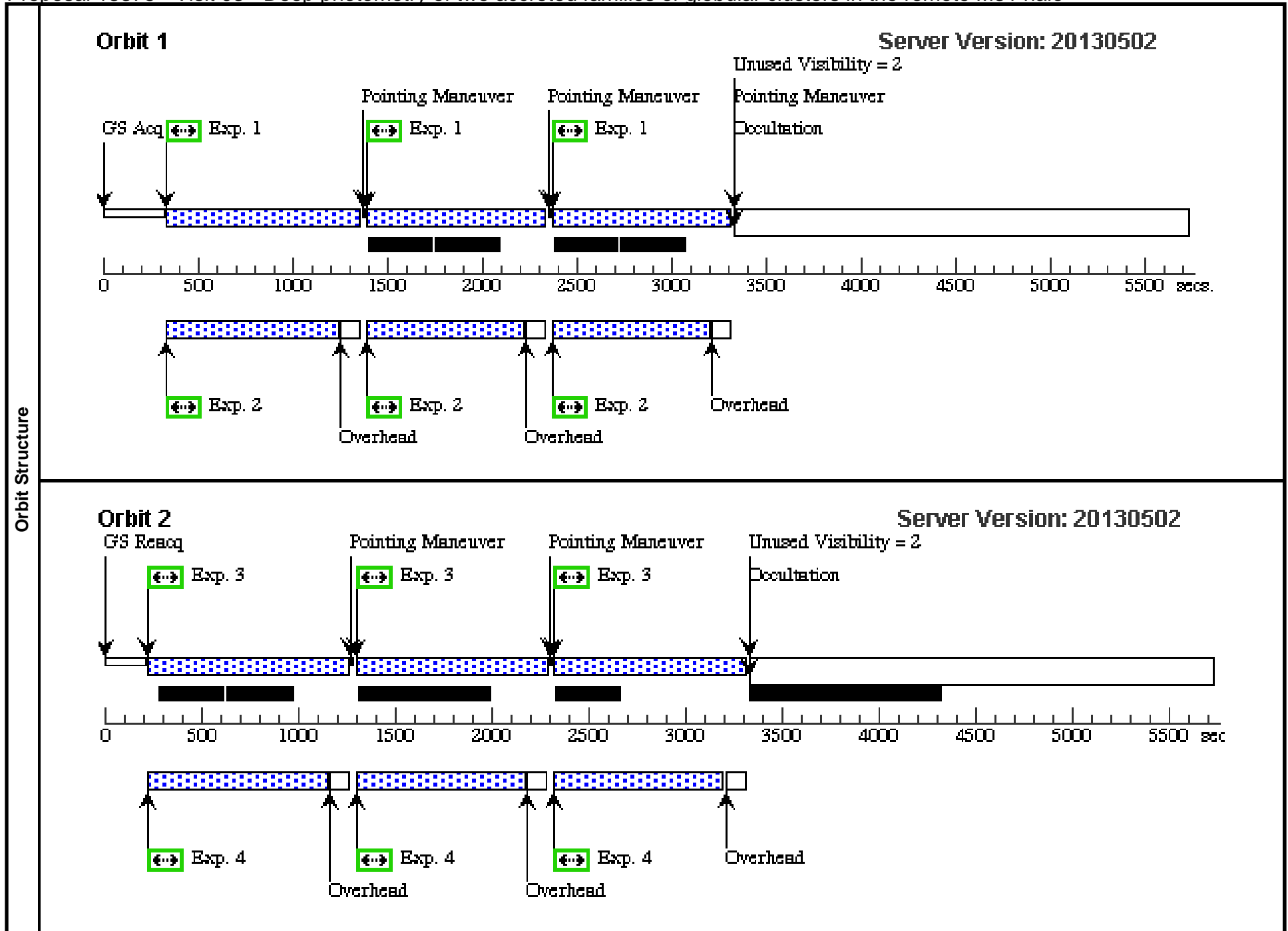
Visit	Proposal 13375, Visit 02 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: (none)									
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	(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	M31-PANDAS-13	RA: 00 17 42.7200 (4.4280000d) Dec: +43 04 31.83 (43.07551d) Equinox: J2000		V=18.2+/-0.2 SURF(V) = 19.5 +/- 0.2, (V-I) = 0.9 +/- 0.2, E(B-V) = 0.06 +/- 0.01	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(2) M31-PANDAS-13	ACS/WFC, ACCUM, WFC1	F606W			Pattern 1, Exps 1-2 in Visit 02 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 02	780 Secs (2454 Secs) [==>818.0 Secs (Pattern 1)] [==>818.0 Secs (Pattern 2)] [==>818.0 Secs (Pattern 3)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W			Pattern 1, Exps 1-2 in Visit 02 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 02	780 Secs (2534 Secs) [==>878.0 Secs (Pattern 1)] [==>828.0 Secs (Pattern 2)] [==>828.0 Secs (Pattern 3)]	[1]
	3		(2) M31-PANDAS-13	ACS/WFC, ACCUM, WFC1	F814W			Pattern 1, Exps 3-4 in Visit 02 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 02	820 Secs (2592 Secs) [==>864.0 Secs (Pattern 1)] [==>864.0 Secs (Pattern 2)] [==>864.0 Secs (Pattern 3)]	[2]
	4		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Pattern 1, Exps 3-4 in Visit 02 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 02	820 Secs (2654 Secs) [==>906.0 Secs (Pattern 1)] [==>874.0 Secs (Pattern 2)] [==>874.0 Secs (Pattern 3)]	[2]



Proposal 13375 - Visit 03 - Deep photometry of two accreted families of globular clusters in the remote M31 halo

Thu Jun 20 02:30:29 GMT 2013

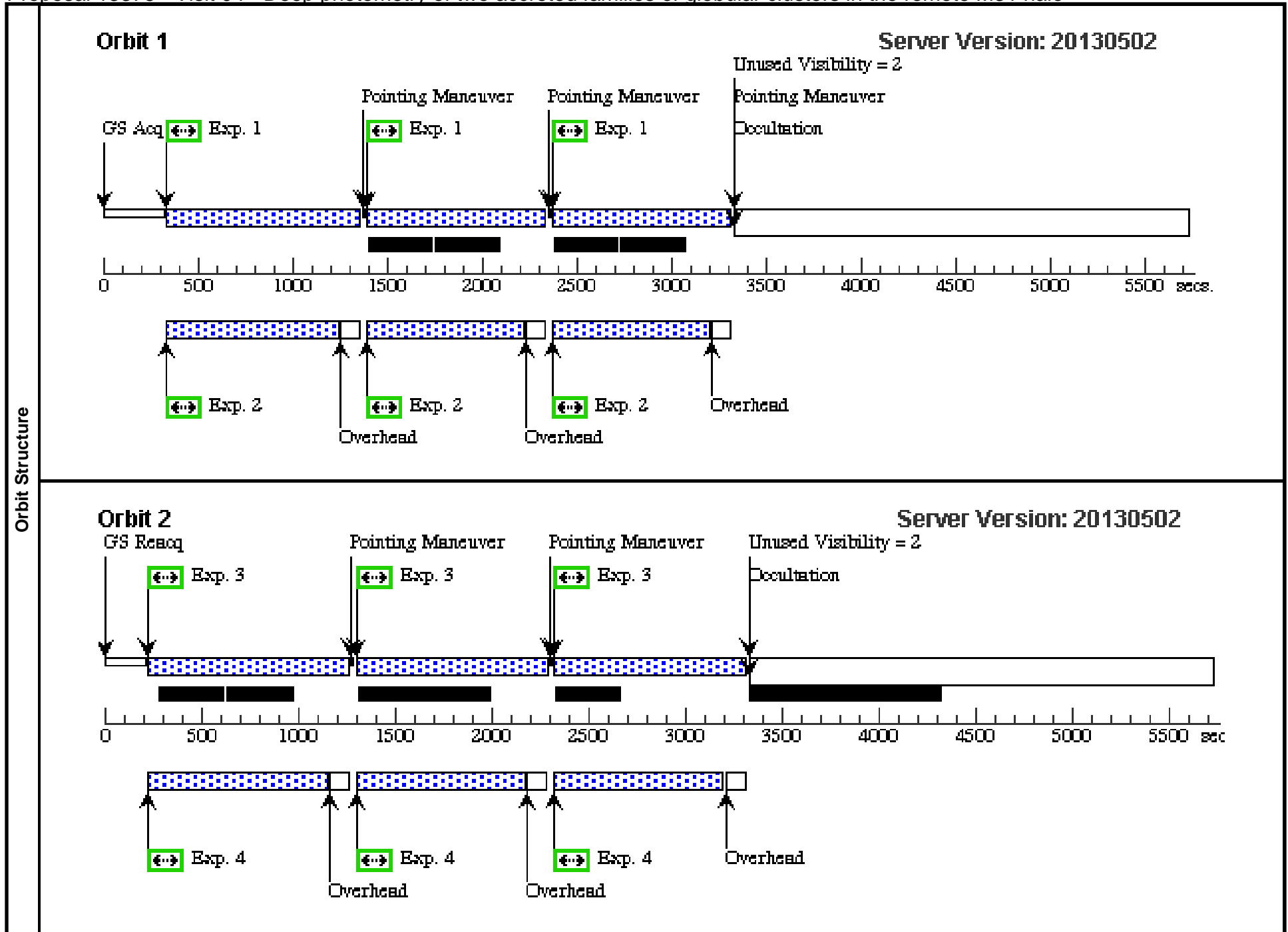
Visit	Proposal 13375, Visit 03 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: (none)									
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		(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false		(1-2), (3-4)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	M31-PANDAS-15	RA: 00 22 44.0700 (5.6836250d) Dec: +41 56 14.16 (41.93727d) Equinox: J2000		V=19.7+/-0.3 SURF(V) = 22.3 +/- 0.3, (V-I) = 1.0 +/- 0.3, E(B-V) = 0.07 +/- 0.01	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) M31-PANDAS-15	ACS/WFC, ACCUM, WFC1	F606W			Pattern 1, Exps 1-2 in Visit 03 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 03	780 Secs (2454 Secs) [==>818.0 Secs (Pattern 1)] [==>818.0 Secs (Pattern 2)] [==>818.0 Secs (Pattern 3)]	[1]
	2	ANY		WFC3/UVIS, ACCUM, UVIS-CENTER	F606W			Pattern 1, Exps 1-2 in Visit 03 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 03	780 Secs (2534 Secs) [==>878.0 Secs (Pattern 1)] [==>828.0 Secs (Pattern 2)] [==>828.0 Secs (Pattern 3)]	[1]
	3		(3) M31-PANDAS-15	ACS/WFC, ACCUM, WFC1	F814W			Pattern 1, Exps 3-4 in Visit 03 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 03	820 Secs (2592 Secs) [==>864.0 Secs (Pattern 1)] [==>864.0 Secs (Pattern 2)] [==>864.0 Secs (Pattern 3)]	[2]
	4	ANY		WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Pattern 1, Exps 3-4 in Visit 03 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 03	820 Secs (2654 Secs) [==>906.0 Secs (Pattern 1)] [==>874.0 Secs (Pattern 2)] [==>874.0 Secs (Pattern 3)]	[2]



Proposal 13375 - Visit 04 - Deep photometry of two accreted families of globular clusters in the remote M31 halo

Thu Jun 20 02:30:31 GMT 2013

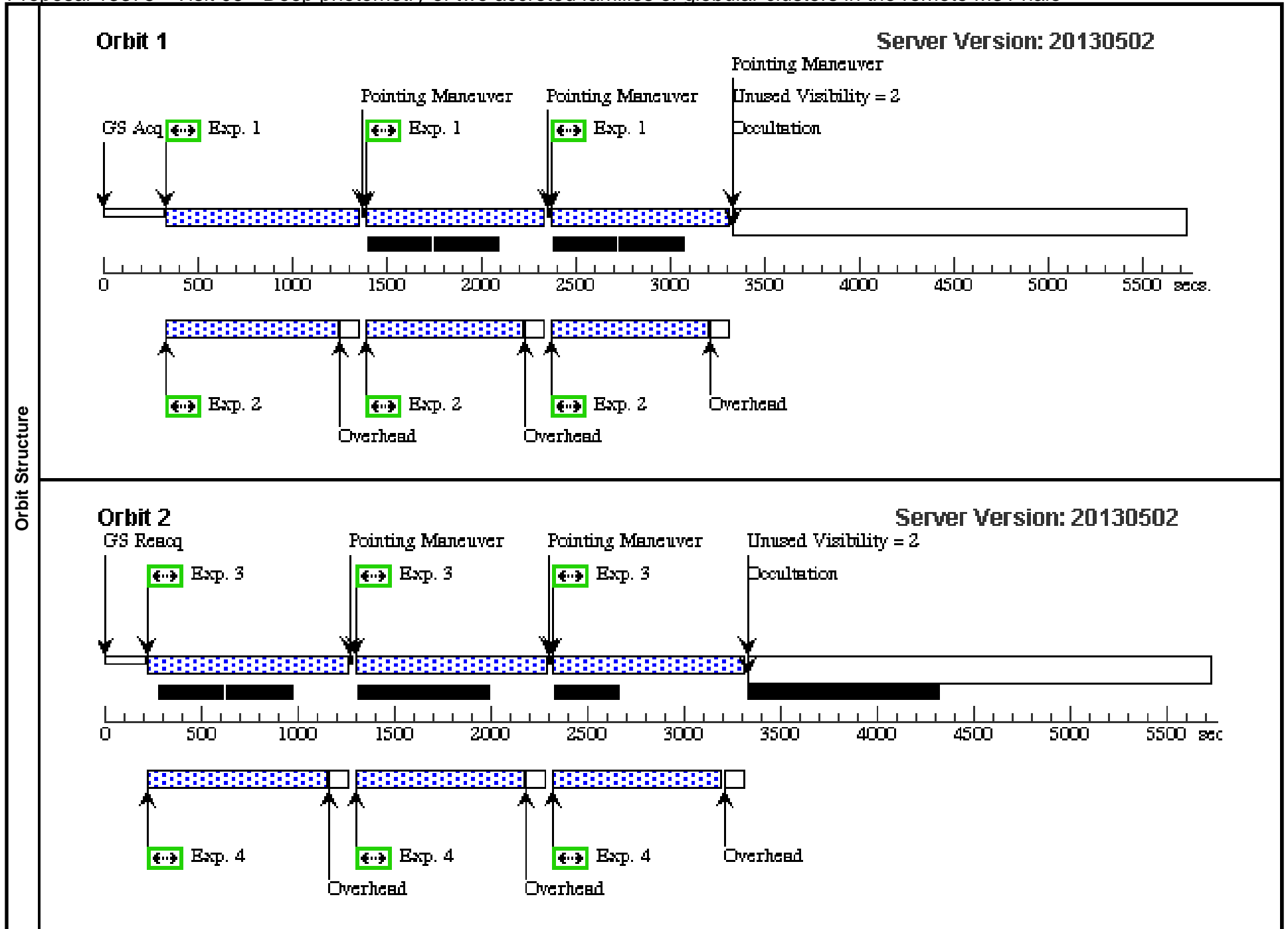
Visit	Proposal 13375, Visit 04 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: ORIENT 72.5D TO 98.5 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	M31-G353	RA: 00 50 18.1800 (12.5757500d) Dec: +42 35 44.24 (42.59562d) Equinox: J2000		V=17.2+/-0.1 SURF(V) = 18.3 +/- 0.1, (V-I) = 0.9 +/- 0.1, E(B-V) = 0.08 +/- 0.01	Reference Frame: ICRS				
	(98)	M31-PANDAS-39	RA: 00 50 36.2200 (12.6509167d) Dec: +42 31 49.29 (42.53036d) Equinox: J2000		V=18.6+/-0.2 SURF(V) = 22.5 +/- 0.2, (V-I) = 1.0 +/- 0.2, E(B-V) = 0.09 +/- 0.01	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(4) M31-G353	ACS/WFC, ACCUM, WFC1	F606W			Pattern 1, Exps 1-2 in Visit 04 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 04	780 Secs (2454 Secs) [==>818.0 Secs (Pattern 1)] [==>818.0 Secs (Pattern 2)] [==>818.0 Secs (Pattern 3)]	[1]
	2		(98) M31-PANDAS-39	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W			Pattern 1, Exps 1-2 in Visit 04 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 04	780 Secs (2534 Secs) [==>878.0 Secs (Pattern 1)] [==>828.0 Secs (Pattern 2)] [==>828.0 Secs (Pattern 3)]	[1]
	3		(4) M31-G353	ACS/WFC, ACCUM, WFC1	F814W			Pattern 1, Exps 3-4 in Visit 04 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 04	820 Secs (2592 Secs) [==>864.0 Secs (Pattern 1)] [==>864.0 Secs (Pattern 2)] [==>864.0 Secs (Pattern 3)]	[2]
	4		(98) M31-PANDAS-39	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Pattern 1, Exps 3-4 in Visit 04 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 04	820 Secs (2654 Secs) [==>906.0 Secs (Pattern 1)] [==>874.0 Secs (Pattern 2)] [==>874.0 Secs (Pattern 3)]	[2]



Proposal 13375 - Visit 05 - Deep photometry of two accreted families of globular clusters in the remote M31 halo

Thu Jun 20 02:30:33 GMT 2013

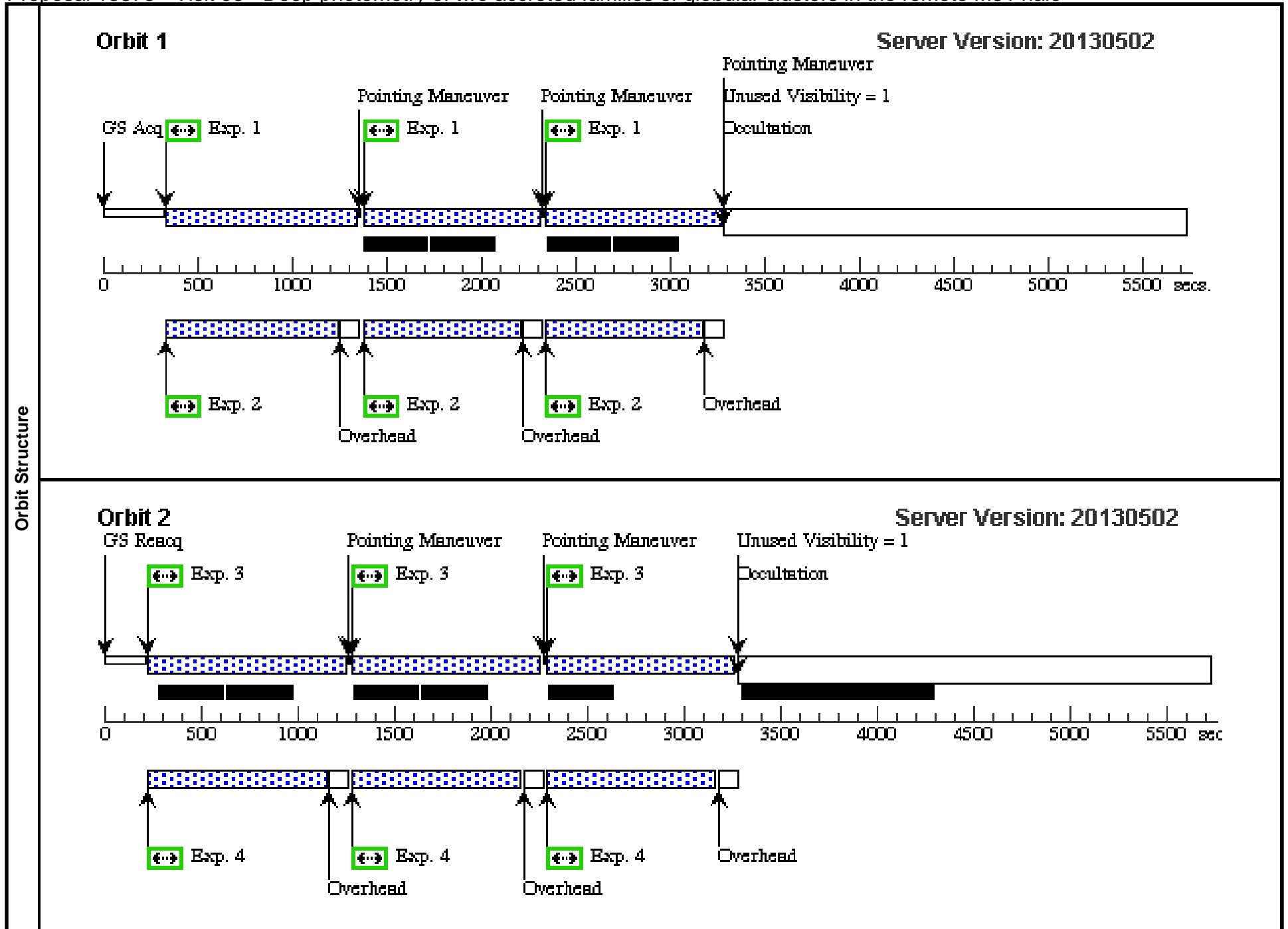
Visit	Proposal 13375, Visit 05 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: (none)									
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	M31-PANDAS-41	RA: 00 53 39.5800 (13.4149167d) Dec: +42 35 14.98 (42.58749d) Equinox: J2000		V=18.3+/-0.2 SURF(V) = 20.5 +/- 0.2, (V-I) = 1.0 +/- 0.2, E(B-V) = 0.10 +/- 0.01	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(5) M31-PANDAS-41	ACS/WFC, ACCUM, WFC1	F606W			Pattern 1, Exps 1-2 in Visit 05 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 05	780 Secs (2454 Secs) [==>818.0 Secs (Pattern 1)] [==>818.0 Secs (Pattern 2)] [==>818.0 Secs (Pattern 3)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W			Pattern 1, Exps 1-2 in Visit 05 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 05	780 Secs (2534 Secs) [==>878.0 Secs (Pattern 1)] [==>828.0 Secs (Pattern 2)] [==>828.0 Secs (Pattern 3)]	[1]
	3		(5) M31-PANDAS-41	ACS/WFC, ACCUM, WFC1	F814W			Pattern 1, Exps 3-4 in Visit 05 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 05	820 Secs (2592 Secs) [==>864.0 Secs (Pattern 1)] [==>864.0 Secs (Pattern 2)] [==>864.0 Secs (Pattern 3)]	[2]
	4		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Pattern 1, Exps 3-4 in Visit 05 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 05	820 Secs (2654 Secs) [==>906.0 Secs (Pattern 1)] [==>874.0 Secs (Pattern 2)] [==>874.0 Secs (Pattern 3)]	[2]



Proposal 13375 - Visit 06 - Deep photometry of two accreted families of globular clusters in the remote M31 halo

Thu Jun 20 02:30:35 GMT 2013

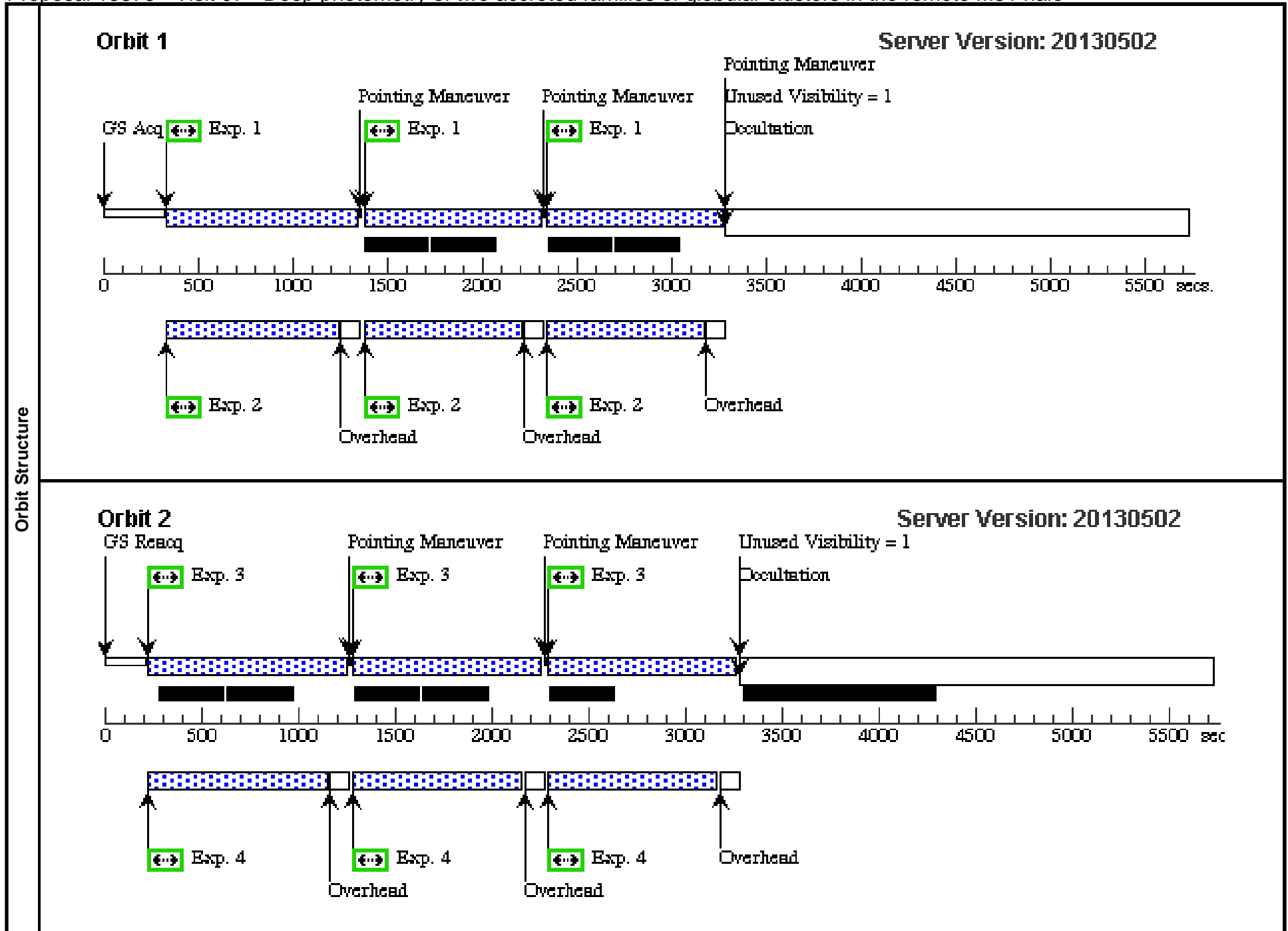
Visit	Proposal 13375, Visit 06 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	M31-HEC11	RA: 00 55 17.4000 (13.8225000d) Dec: +38 51 1.97 (38.85055d) Equinox: J2000		V=18.1+/-0.2 SURF(V) = 22.6 +/- 0.2, (V-I) = 1.0 +/- 0.2, E(B-V) = 0.05 +/- 0.01	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(6) M31-HEC11	ACS/WFC, ACCUM, WFC1	F606W			Pattern 1, Exps 1-2 in Visit 06 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 06	780 Secs (2409 Secs) [==>803.0 Secs (Pattern 1)] [==>803.0 Secs (Pattern 2)] [==>803.0 Secs (Pattern 3)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W			Pattern 1, Exps 1-2 in Visit 06 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 06	780 Secs (2534 Secs) [==>878.0 Secs (Pattern 1)] [==>828.0 Secs (Pattern 2)] [==>828.0 Secs (Pattern 3)]	[1]
	3		(6) M31-HEC11	ACS/WFC, ACCUM, WFC1	F814W			Pattern 1, Exps 3-4 in Visit 06 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 06	820 Secs (2547 Secs) [==>849.0 Secs (Pattern 1)] [==>849.0 Secs (Pattern 2)] [==>849.0 Secs (Pattern 3)]	[2]
	4		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Pattern 1, Exps 3-4 in Visit 06 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 06	820 Secs (2654 Secs) [==>906.0 Secs (Pattern 1)] [==>874.0 Secs (Pattern 2)] [==>874.0 Secs (Pattern 3)]	[2]



Proposal 13375 - Visit 07 - Deep photometry of two accreted families of globular clusters in the remote M31 halo

Thu Jun 20 02:30:37 GMT 2013

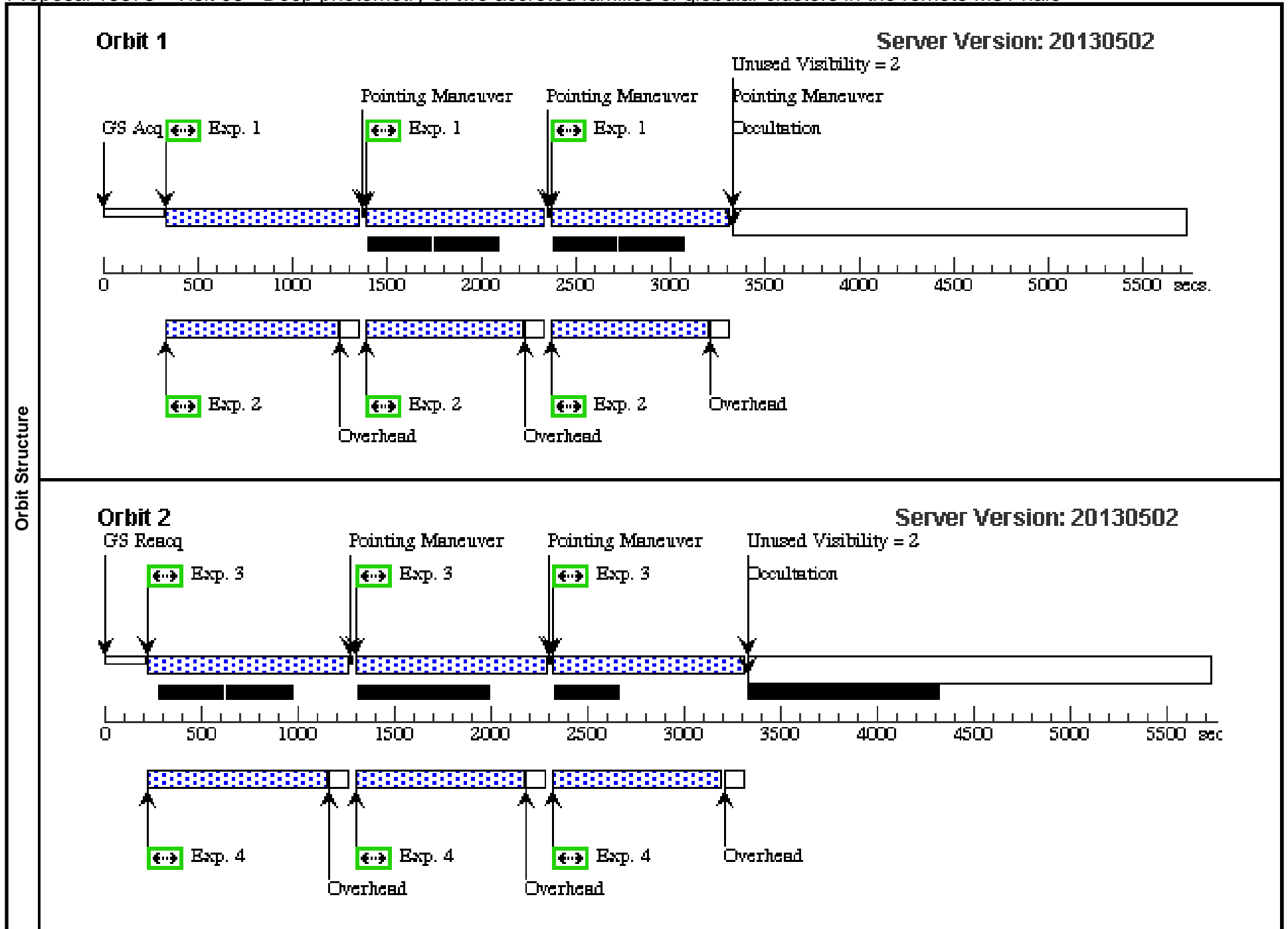
Visit	Proposal 13375, Visit 07 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false		(1-2), (3-4)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	M31-PANDAS-42	RA: 00 56 38.0400 (14.1585000d) Dec: +39 40 25.93 (39.67387d) Equinox: J2000		V=18.2+/-0.2 SURF(V) = 22.2 +/- 0.2, (V-I) = 1.1 +/- 0.2, E(B-V) = 0.06 +/- 0.01	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(7) M31-PANDAS-42	ACS/WFC, ACCUM, WFC1	F606W			Pattern 1, Exps 1-2 in Visit 07 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 07	780 Secs (2409 Secs) [==>803.0 Secs (Pattern 1)] [==>803.0 Secs (Pattern 2)] [==>803.0 Secs (Pattern 3)]	[1]
	2	ANY		WFC3/UVIS, ACCUM, UVIS-CENTER	F606W			Pattern 1, Exps 1-2 in Visit 07 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 07	780 Secs (2534 Secs) [==>878.0 Secs (Pattern 1)] [==>828.0 Secs (Pattern 2)] [==>828.0 Secs (Pattern 3)]	[1]
	3		(7) M31-PANDAS-42	ACS/WFC, ACCUM, WFC1	F814W			Pattern 1, Exps 3-4 in Visit 07 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 07	820 Secs (2547 Secs) [==>849.0 Secs (Pattern 1)] [==>849.0 Secs (Pattern 2)] [==>849.0 Secs (Pattern 3)]	[2]
	4	ANY		WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Pattern 1, Exps 3-4 in Visit 07 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 07	820 Secs (2654 Secs) [==>906.0 Secs (Pattern 1)] [==>874.0 Secs (Pattern 2)] [==>874.0 Secs (Pattern 3)]	[2]



Proposal 13375 - Visit 08 - Deep photometry of two accreted families of globular clusters in the remote M31 halo

Thu Jun 20 02:30:39 GMT 2013

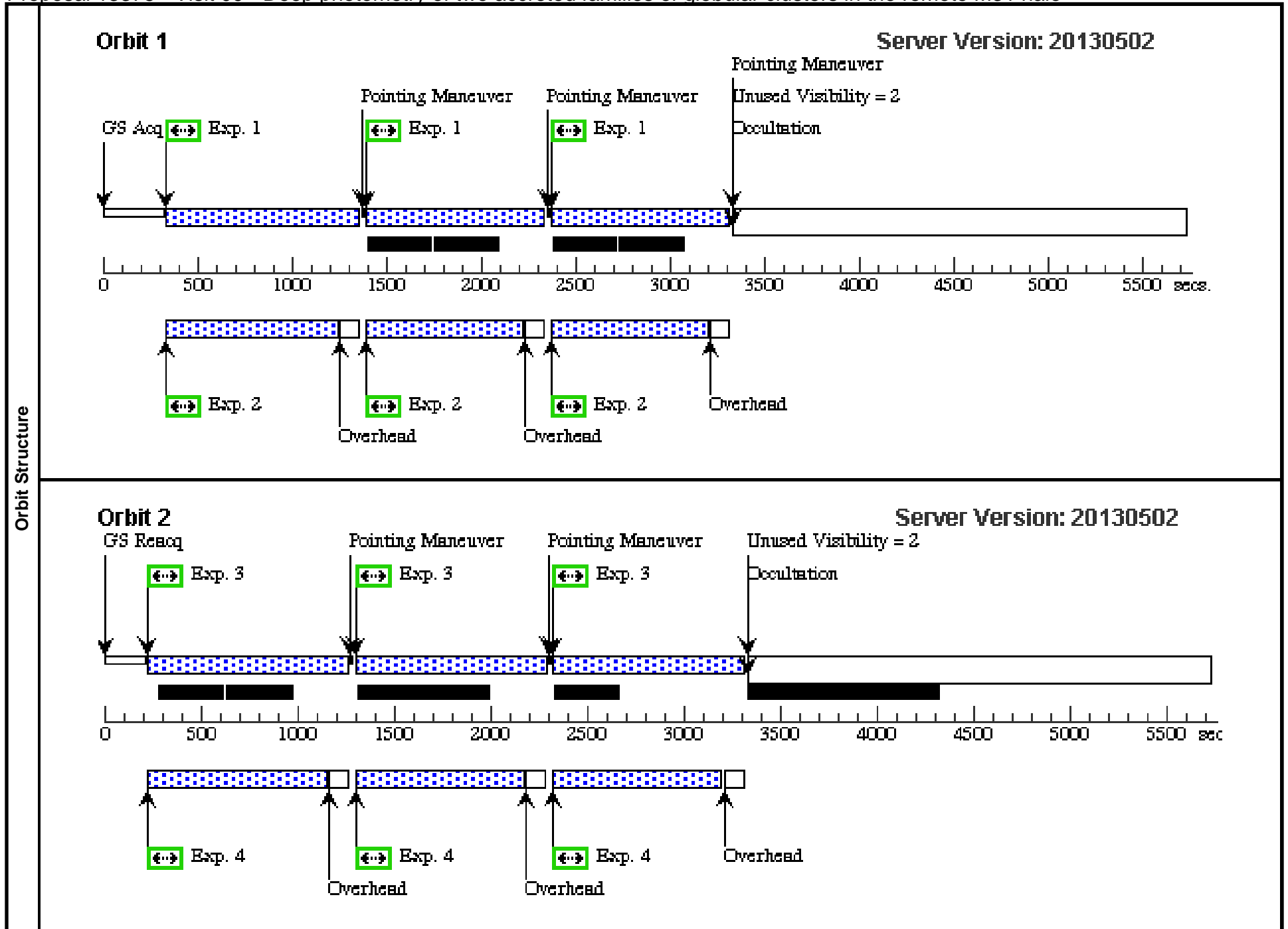
Visit	Proposal 13375, Visit 08 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false		(1-2), (3-4)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	M31-PANDAS-43	RA: 00 56 38.8000 (14.1616667d) Dec: +42 27 17.77 (42.45494d) Equinox: J2000		V=19.5+/-0.3 SURF(V) = 22.0 +/- 0.3, (V-I) = 1.0 +/- 0.3, E(B-V) = 0.09 +/- 0.01	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(8) M31-PANDAS-43	ACS/WFC, ACCUM, WFC1	F606W			Pattern 1, Exps 1-2 in Visit 08 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 08	780 Secs (2454 Secs) [==>818.0 Secs (Pattern 1)] [==>818.0 Secs (Pattern 2)] [==>818.0 Secs (Pattern 3)]	[1]
	2	ANY		WFC3/UVIS, ACCUM, UVIS-CENTER	F606W			Pattern 1, Exps 1-2 in Visit 08 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 08	780 Secs (2534 Secs) [==>878.0 Secs (Pattern 1)] [==>828.0 Secs (Pattern 2)] [==>828.0 Secs (Pattern 3)]	[1]
	3		(8) M31-PANDAS-43	ACS/WFC, ACCUM, WFC1	F814W			Pattern 1, Exps 3-4 in Visit 08 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 08	820 Secs (2592 Secs) [==>864.0 Secs (Pattern 1)] [==>864.0 Secs (Pattern 2)] [==>864.0 Secs (Pattern 3)]	[2]
	4	ANY		WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Pattern 1, Exps 3-4 in Visit 08 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 08	820 Secs (2654 Secs) [==>906.0 Secs (Pattern 1)] [==>874.0 Secs (Pattern 2)] [==>874.0 Secs (Pattern 3)]	[2]



Proposal 13375 - Visit 09 - Deep photometry of two accreted families of globular clusters in the remote M31 halo

Thu Jun 20 02:30:41 GMT 2013

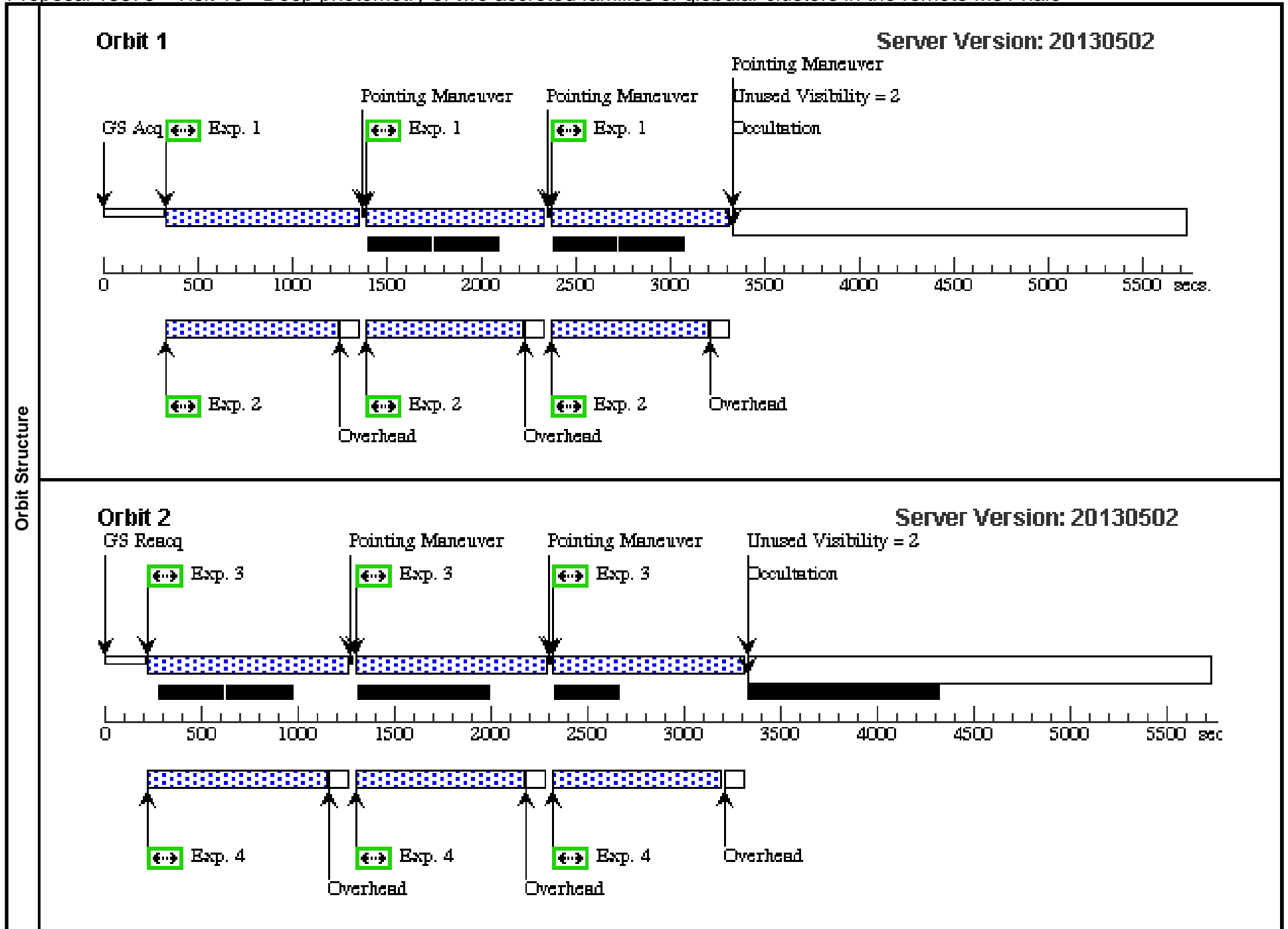
Visit	Proposal 13375, Visit 09 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false		(1-2), (3-4)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	M31-PANDAS-44	RA: 00 57 55.8900 (14.4828750d) Dec: +41 42 57.01 (41.71584d) Equinox: J2000		V=17.0+/-0.1 SURF(V) = 17.6 +/- 0.1, (V-I) = 0.8 +/- 0.1, E(B-V) = 0.06 +/- 0.01	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(9) M31-PANDAS-44	ACS/WFC, ACCUM, WFC1	F606W			Pattern 1, Exps 1-2 in Visit 09 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 09	780 Secs (2454 Secs) [==>818.0 Secs (Pattern 1)] [==>818.0 Secs (Pattern 2)] [==>818.0 Secs (Pattern 3)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W			Pattern 1, Exps 1-2 in Visit 09 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 09	780 Secs (2534 Secs) [==>878.0 Secs (Pattern 1)] [==>828.0 Secs (Pattern 2)] [==>828.0 Secs (Pattern 3)]	[1]
	3		(9) M31-PANDAS-44	ACS/WFC, ACCUM, WFC1	F814W			Pattern 1, Exps 3-4 in Visit 09 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 09	820 Secs (2592 Secs) [==>864.0 Secs (Pattern 1)] [==>864.0 Secs (Pattern 2)] [==>864.0 Secs (Pattern 3)]	[2]
	4		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Pattern 1, Exps 3-4 in Visit 09 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 09	820 Secs (2654 Secs) [==>906.0 Secs (Pattern 1)] [==>874.0 Secs (Pattern 2)] [==>874.0 Secs (Pattern 3)]	[2]



Proposal 13375 - Visit 10 - Deep photometry of two accreted families of globular clusters in the remote M31 halo

Thu Jun 20 02:30:43 GMT 2013

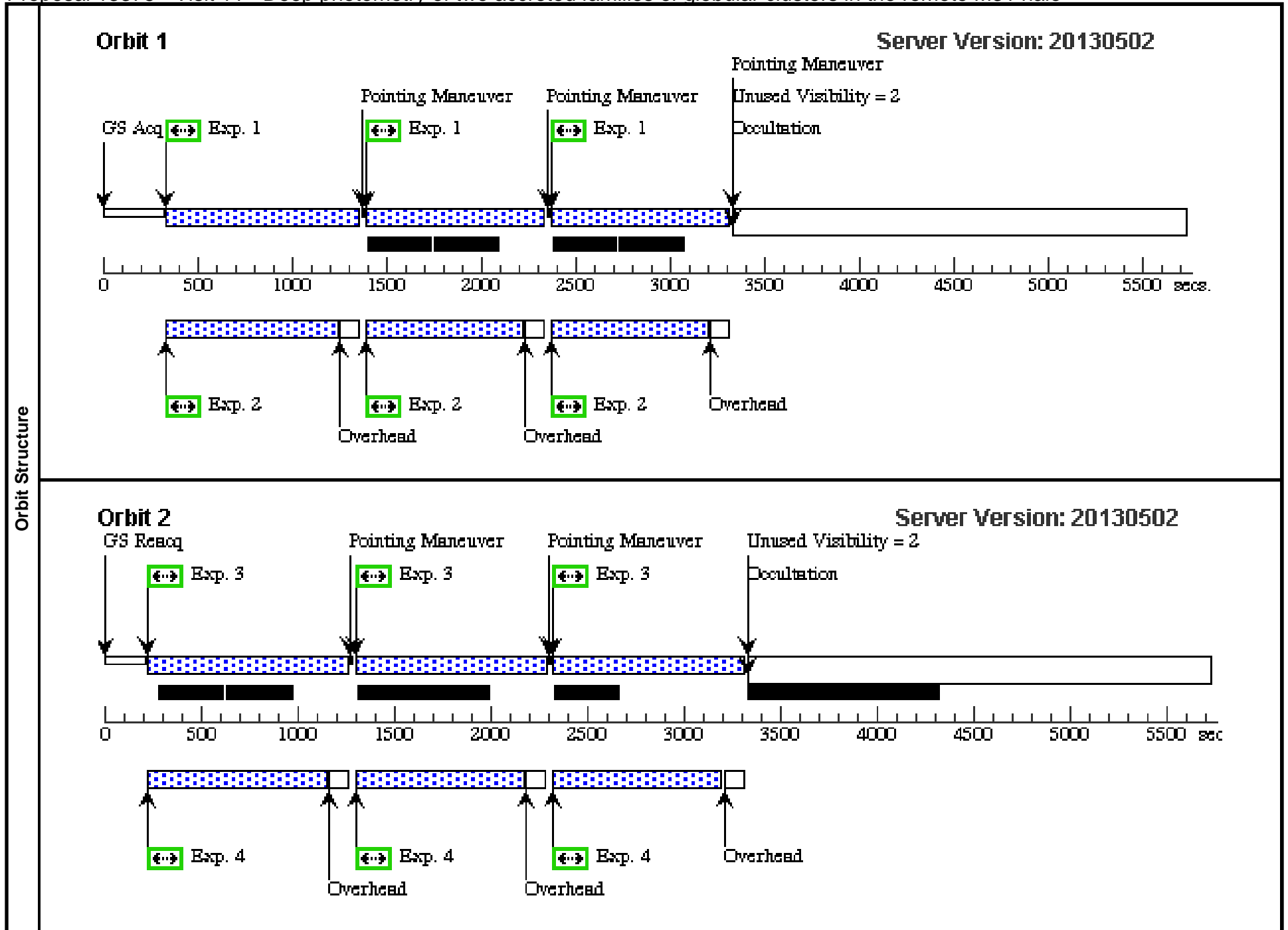
Visit	Proposal 13375, Visit 10 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	M31-PANDAS-45	RA: 00 58 37.9600 (14.6581667d) Dec: +41 57 11.48 (41.95319d) Equinox: J2000		V=20.7+/-0.3 SURF(V) = 24.3 +/- 0.3, (V-I) = 1.0 +/- 0.3, E(B-V) = 0.08 +/- 0.01	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(10) M31-PANDAS-45	ACS/WFC, ACCUM, WFC1	F606W			Pattern 1, Exps 1-2 in Visit 10 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 10	780 Secs (2454 Secs) [==>818.0 Secs (Pattern 1)] [==>818.0 Secs (Pattern 2)] [==>818.0 Secs (Pattern 3)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W			Pattern 1, Exps 1-2 in Visit 10 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 10	780 Secs (2534 Secs) [==>878.0 Secs (Pattern 1)] [==>828.0 Secs (Pattern 2)] [==>828.0 Secs (Pattern 3)]	[1]
	3		(10) M31-PANDAS-45	ACS/WFC, ACCUM, WFC1	F814W			Pattern 1, Exps 3-4 in Visit 10 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 10	820 Secs (2592 Secs) [==>864.0 Secs (Pattern 1)] [==>864.0 Secs (Pattern 2)] [==>864.0 Secs (Pattern 3)]	[2]
	4		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Pattern 1, Exps 3-4 in Visit 10 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 10	820 Secs (2654 Secs) [==>906.0 Secs (Pattern 1)] [==>874.0 Secs (Pattern 2)] [==>874.0 Secs (Pattern 3)]	[2]



Proposal 13375 - Visit 11 - Deep photometry of two accreted families of globular clusters in the remote M31 halo

Thu Jun 20 02:30:45 GMT 2013

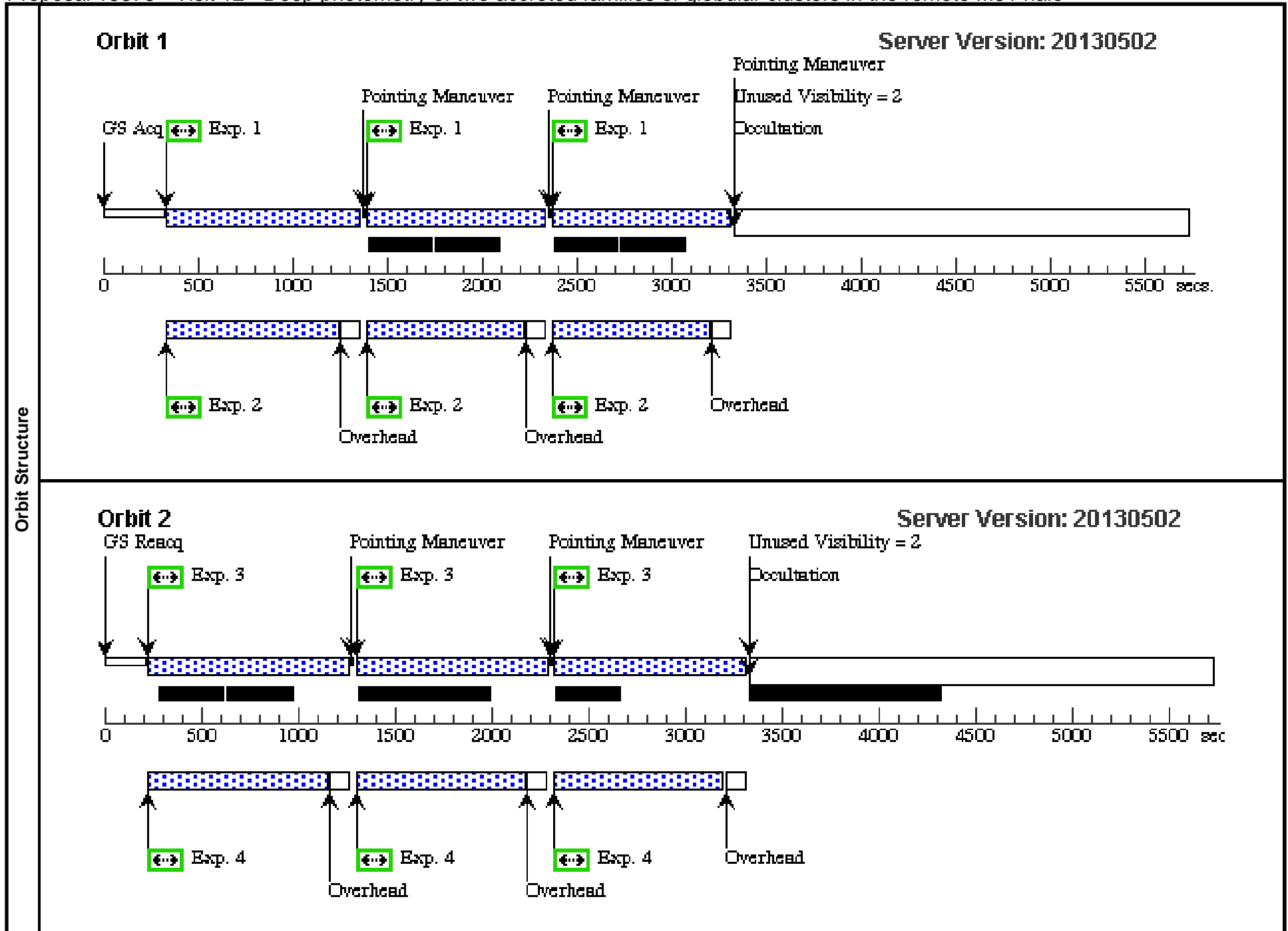
Visit	Proposal 13375, Visit 11 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: ORIENT 97D TO 122 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(11)	M31-PANDAS-46	RA: 00 58 56.4000 (14.7350000d) Dec: +42 27 38.29 (42.46064d) Equinox: J2000		V=16.0+/-0.1 SURF(V) = 17.2 +/- 0.1, (V-I) = 0.9 +/- 0.1, E(B-V) = 0.07 +/- 0.01	Reference Frame: ICRS				
	(99)	M31-PANDAS-47	RA: 00 59 4.7800 (14.7699167d) Dec: +42 22 35.06 (42.37641d) Equinox: J2000		V=19.0+/-0.3 SURF(V) = 20.3 +/- 0.3, (V-I) = 1.2 +/- 0.3, E(B-V) = 0.07 +/- 0.01	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(11) M31-PANDAS-46	ACS/WFC, ACCUM, WFC1	F606W			Pattern 1, Exps 1-2 in Visit 11 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 11	780 Secs (2454 Secs) [==>818.0 Secs (Pattern 1)] [==>818.0 Secs (Pattern 2)] [==>818.0 Secs (Pattern 3)]	[1]
	2		(99) M31-PANDAS-47	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W			Pattern 1, Exps 1-2 in Visit 11 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 11	780 Secs (2534 Secs) [==>878.0 Secs (Pattern 1)] [==>828.0 Secs (Pattern 2)] [==>828.0 Secs (Pattern 3)]	[1]
	3		(11) M31-PANDAS-46	ACS/WFC, ACCUM, WFC1	F814W			Pattern 1, Exps 3-4 in Visit 11 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 11	820 Secs (2592 Secs) [==>864.0 Secs (Pattern 1)] [==>864.0 Secs (Pattern 2)] [==>864.0 Secs (Pattern 3)]	[2]
	4		(99) M31-PANDAS-47	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Pattern 1, Exps 3-4 in Visit 11 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 11	820 Secs (2654 Secs) [==>906.0 Secs (Pattern 1)] [==>874.0 Secs (Pattern 2)] [==>874.0 Secs (Pattern 3)]	[2]



Proposal 13375 - Visit 12 - Deep photometry of two accreted families of globular clusters in the remote M31 halo

Thu Jun 20 02:30:47 GMT 2013

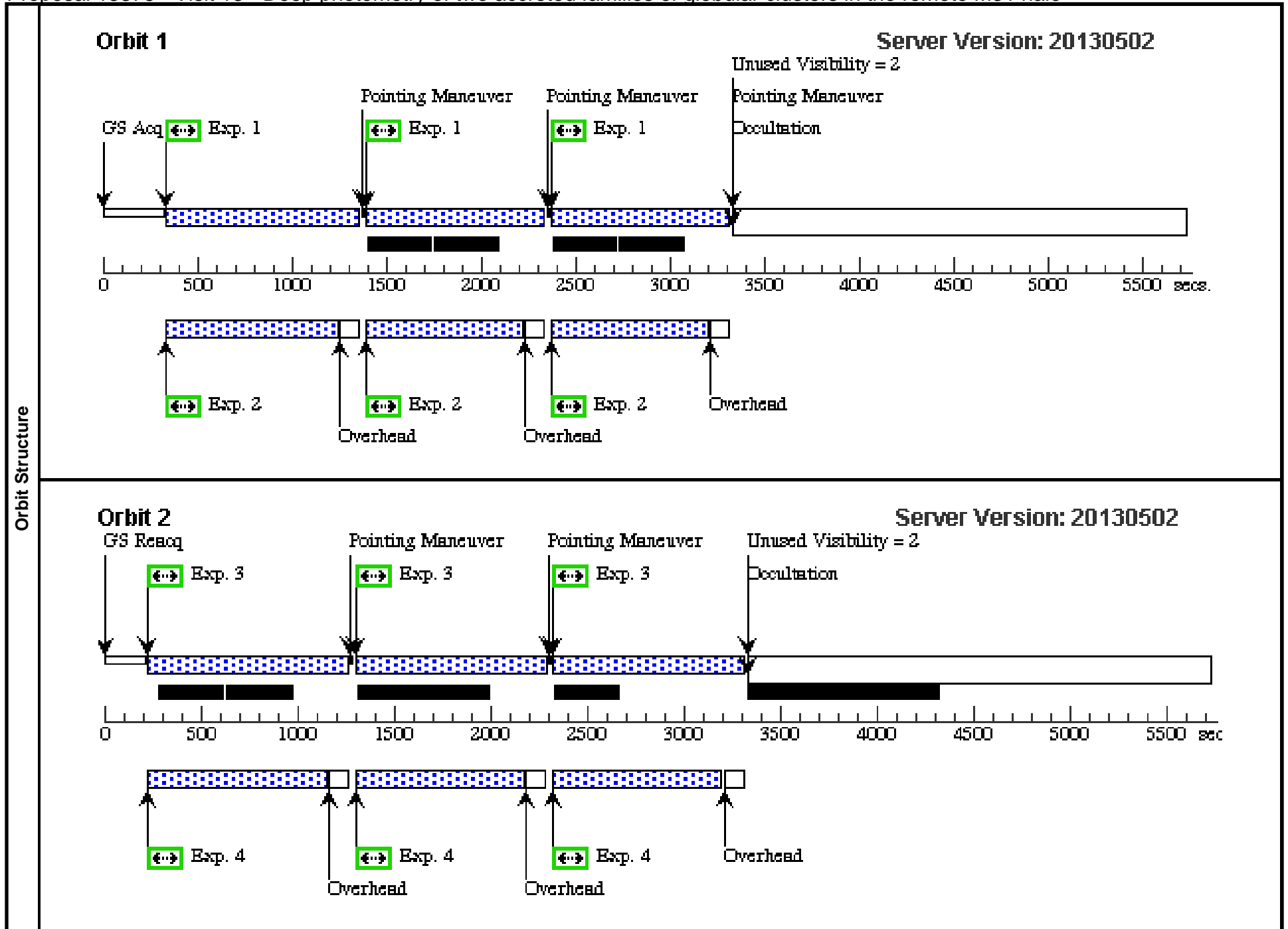
Visit	Proposal 13375, Visit 12 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	M31-B517	RA: 00 59 59.9200 (14.9996667d) Dec: +41 54 6.41 (41.90178d) Equinox: J2000		V=16.1+/-0.2 SURF(V) = 18.1 +/- 0.2, (V-I) = 0.8 +/- 0.2, E(B-V) = 0.07 +/- 0.01	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(12) M31-B517	ACS/WFC, ACCUM, WFC1	F606W			Pattern 1, Exps 1-2 in Visit 12 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 12	780 Secs (2454 Secs) [==>818.0 Secs (Pattern 1)] [==>818.0 Secs (Pattern 2)] [==>818.0 Secs (Pattern 3)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W			Pattern 1, Exps 1-2 in Visit 12 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 12	780 Secs (2534 Secs) [==>878.0 Secs (Pattern 1)] [==>828.0 Secs (Pattern 2)] [==>828.0 Secs (Pattern 3)]	[1]
	3		(12) M31-B517	ACS/WFC, ACCUM, WFC1	F814W			Pattern 1, Exps 3-4 in Visit 12 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 12	820 Secs (2592 Secs) [==>864.0 Secs (Pattern 1)] [==>864.0 Secs (Pattern 2)] [==>864.0 Secs (Pattern 3)]	[2]
	4		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Pattern 1, Exps 3-4 in Visit 12 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 12	820 Secs (2654 Secs) [==>906.0 Secs (Pattern 1)] [==>874.0 Secs (Pattern 2)] [==>874.0 Secs (Pattern 3)]	[2]



Proposal 13375 - Visit 13 - Deep photometry of two accreted families of globular clusters in the remote M31 halo

Thu Jun 20 02:30:49 GMT 2013

Visit	Proposal 13375, Visit 13 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false		(1-2), (3-4)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(13)	M31-PANDAS-49	RA: 01 00 50.0700 (15.2086250d) Dec: +42 18 13.25 (42.30368d) Equinox: J2000		V=19.9+/-0.3 SURF(V) = 24.5 +/- 0.3, (V-I) = 1.2 +/- 0.3, E(B-V) = 0.07 +/- 0.01	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(13) M31-PANDAS-49	ACS/WFC, ACCUM, WFC1	F606W			Pattern 1, Exps 1-2 in Visit 13 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 13	780 Secs (2454 Secs) [==>818.0 Secs (Pattern 1)] [==>818.0 Secs (Pattern 2)] [==>818.0 Secs (Pattern 3)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W			Pattern 1, Exps 1-2 in Visit 13 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 13	780 Secs (2534 Secs) [==>878.0 Secs (Pattern 1)] [==>828.0 Secs (Pattern 2)] [==>828.0 Secs (Pattern 3)]	[1]
	3		(13) M31-PANDAS-49	ACS/WFC, ACCUM, WFC1	F814W			Pattern 1, Exps 3-4 in Visit 13 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 13	820 Secs (2592 Secs) [==>864.0 Secs (Pattern 1)] [==>864.0 Secs (Pattern 2)] [==>864.0 Secs (Pattern 3)]	[2]
	4		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Pattern 1, Exps 3-4 in Visit 13 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 13	820 Secs (2654 Secs) [==>906.0 Secs (Pattern 1)] [==>874.0 Secs (Pattern 2)] [==>874.0 Secs (Pattern 3)]	[2]



Proposal 13375 - Visit 14 - Deep photometry of two accreted families of globular clusters in the remote M31 halo

Thu Jun 20 02:30:51 GMT 2013

Visit	Proposal 13375, Visit 14 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS, ACS/WFC Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.28 Angle Between Sides= Center Pattern=false		(1-2), (3-4)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(14)	M31-PANDAS-51	RA: 01 02 6.6100 (15.5275417d) Dec: +42 48 6.64 (42.80184d) Equinox: J2000		V=19.5+/-0.5 (V-I) = 1.0 +/- 0.5, E(B-V) = 0.07 +/- 0.01	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(14) M31-PANDAS-51	ACS/WFC, ACCUM, WFC1	F606W			Pattern 1, Exps 1-2 in Visit 14 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 14	780 Secs (2454 Secs) [==>818.0 Secs (Pattern 1)] [==>818.0 Secs (Pattern 2)] [==>818.0 Secs (Pattern 3)]	[1]
	2		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W			Pattern 1, Exps 1-2 in Visit 14 (1) Prime + Parallel Group 1-2 in Pattern 1, Exps 1-2 in Visit 14	780 Secs (2534 Secs) [==>878.0 Secs (Pattern 1)] [==>828.0 Secs (Pattern 2)] [==>828.0 Secs (Pattern 3)]	[1]
	3		(14) M31-PANDAS-51	ACS/WFC, ACCUM, WFC1	F814W			Pattern 1, Exps 3-4 in Visit 14 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 14	820 Secs (2592 Secs) [==>864.0 Secs (Pattern 1)] [==>864.0 Secs (Pattern 2)] [==>864.0 Secs (Pattern 3)]	[2]
	4		ANY	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W			Pattern 1, Exps 3-4 in Visit 14 (1) Prime + Parallel Group 3-4 in Pattern 1, Exps 3-4 in Visit 14	820 Secs (2654 Secs) [==>906.0 Secs (Pattern 1)] [==>874.0 Secs (Pattern 2)] [==>874.0 Secs (Pattern 3)]	[2]

