



11988 - Searching for Intermediate Mass Black Holes in Globular Clusters via Proper Motions

Cycle: 16, 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>
10	(9) NGC362-WFPC2-POS1	WFPC2	2	16-Feb-2009 21:49:20.0	yes
11	(10) NGC362-WFPC2-POS2	WFPC2	2	16-Feb-2009 21:49:28.0	yes
12	(11) NGC362-WFPC2-POS3	WFPC2	2	16-Feb-2009 21:49:35.0	yes
13	(12) NGC362-WFPC2-POS4	WFPC2	2	16-Feb-2009 21:49:45.0	yes
20	(5) NGC6681-WFPC2-POS1	WFPC2	2	16-Feb-2009 21:49:52.0	yes
21	(6) NGC6681-WFPC2-POS2	WFPC2	2	16-Feb-2009 21:49:57.0	yes
22	(7) NGC6681-WFPC2-POS3	WFPC2	2	16-Feb-2009 21:50:02.0	yes
23	(8) NGC6681-WFPC2-POS4	WFPC2	2	16-Feb-2009 21:50:06.0	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>
30	(13) NGC6624-WFPC2-POS1	WFPC2	2	16-Feb-2009 21:50:11.0	yes
31	(14) NGC6624-WFPC2-POS2	WFPC2	2	16-Feb-2009 21:50:16.0	yes
32	(15) NGC6624-WFPC2-POS3	WFPC2	2	16-Feb-2009 21:50:21.0	yes
33	(16) NGC6624-WFPC2-POS4	WFPC2	2	16-Feb-2009 21:50:26.0	yes
40	(1) NGC7099-WFPC2-POS1	WFPC2	2	16-Feb-2009 21:50:33.0	yes
41	(2) NGC7099-WFPC2-POS2	WFPC2	2	16-Feb-2009 21:50:38.0	yes
42	(3) NGC7099-WFPC2-POS3	WFPC2	2	16-Feb-2009 21:50:42.0	yes
43	(4) NGC7099-WFPC2-POS4	WFPC2	2	16-Feb-2009 21:50:47.0	yes
50	(17) NGC7078-WFPC2-POS1	WFPC2	2	16-Feb-2009 21:50:53.0	yes
51	(18) NGC7078-WFPC2-POS2	WFPC2	2	16-Feb-2009 21:50:58.0	yes
52	(19) NGC7078-WFPC2-POS3	WFPC2	2	16-Feb-2009 21:51:04.0	yes
53	(20) NGC7078-WFPC2-POS4	WFPC2	2	16-Feb-2009 21:51:13.0	yes

40 Total Orbits Used

ABSTRACT

The unambiguous detection of an intermediate mass black hole (IMBH) in a globular star cluster would be a major achievement for the Hubble Space Telescope. It is critical to know whether or not IMBHs exist in the centers of clusters in order to understand the dynamical evolution of dense stellar systems. Also, an IMBH detection would prove the existence of BHs in an entirely new mass range. Observationally, the search has been hampered by the low number of stars with known velocities in the central few arcseconds. This limits measurements of the stellar velocity dispersion in the region where the gravitational influence of any IMBH would be felt. Existing IMBH claims in the literature have all been called into question, and have all been based on line-of-sight velocities from spectroscopy. In cycle 13, we obtained ACS/HRC observations for 5 nearby Galactic globular clusters for a new proper motion study. Here, we request WFPC2/PC observations of these clusters, all of which are observable in Feb-May 2009. This 4 year baseline will allow us to measure the proper motions of stars into the very center of each cluster, and either detect or place firm

constraints on the presence of an IMBH. In addition, we will determine whether or not the clusters rotate or show any anisotropy in their motions. Our small (<75 orbit) program meets the criteria of addressing high impact science (IMBH detection) using innovative methods (proper motions).

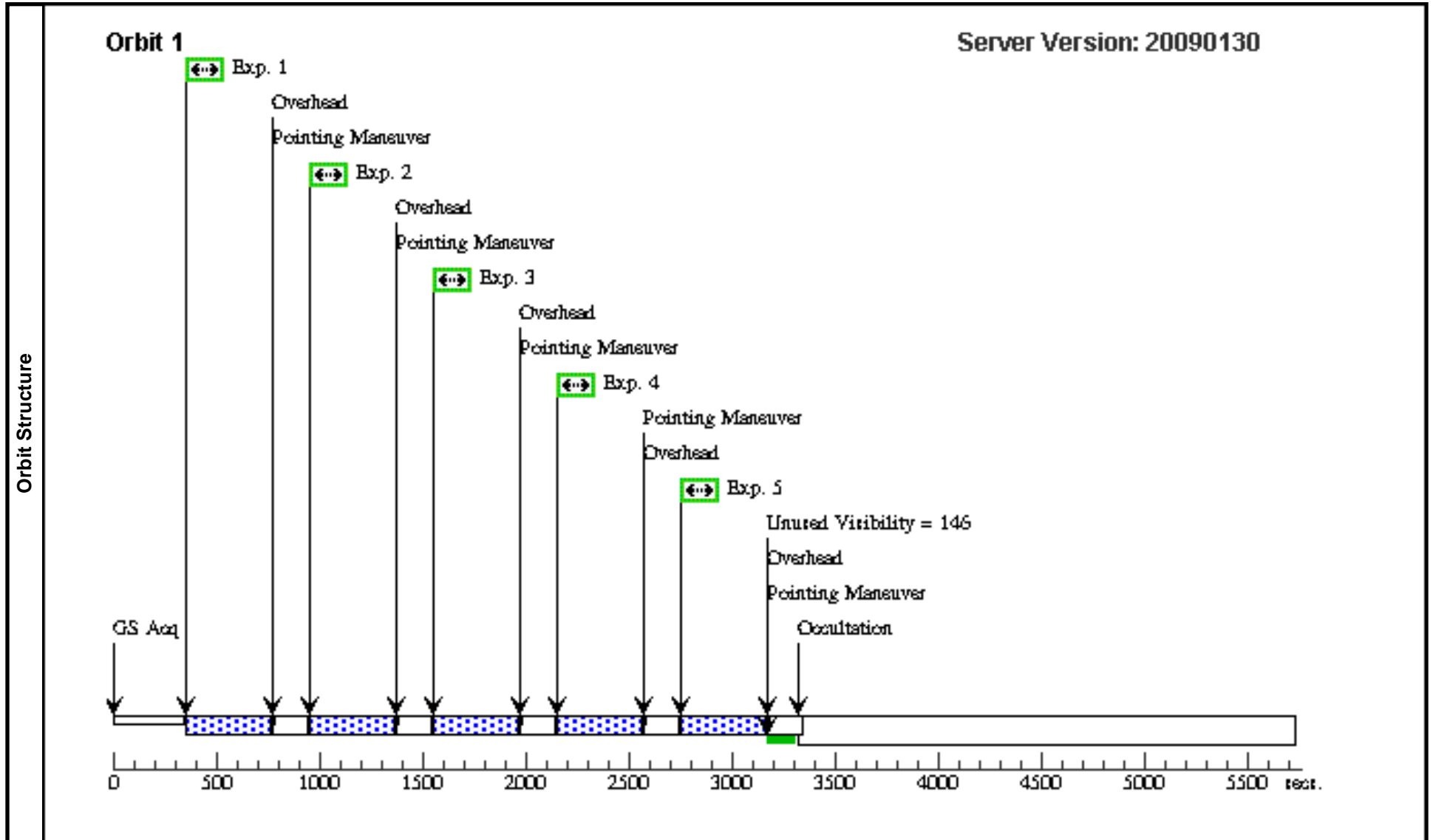
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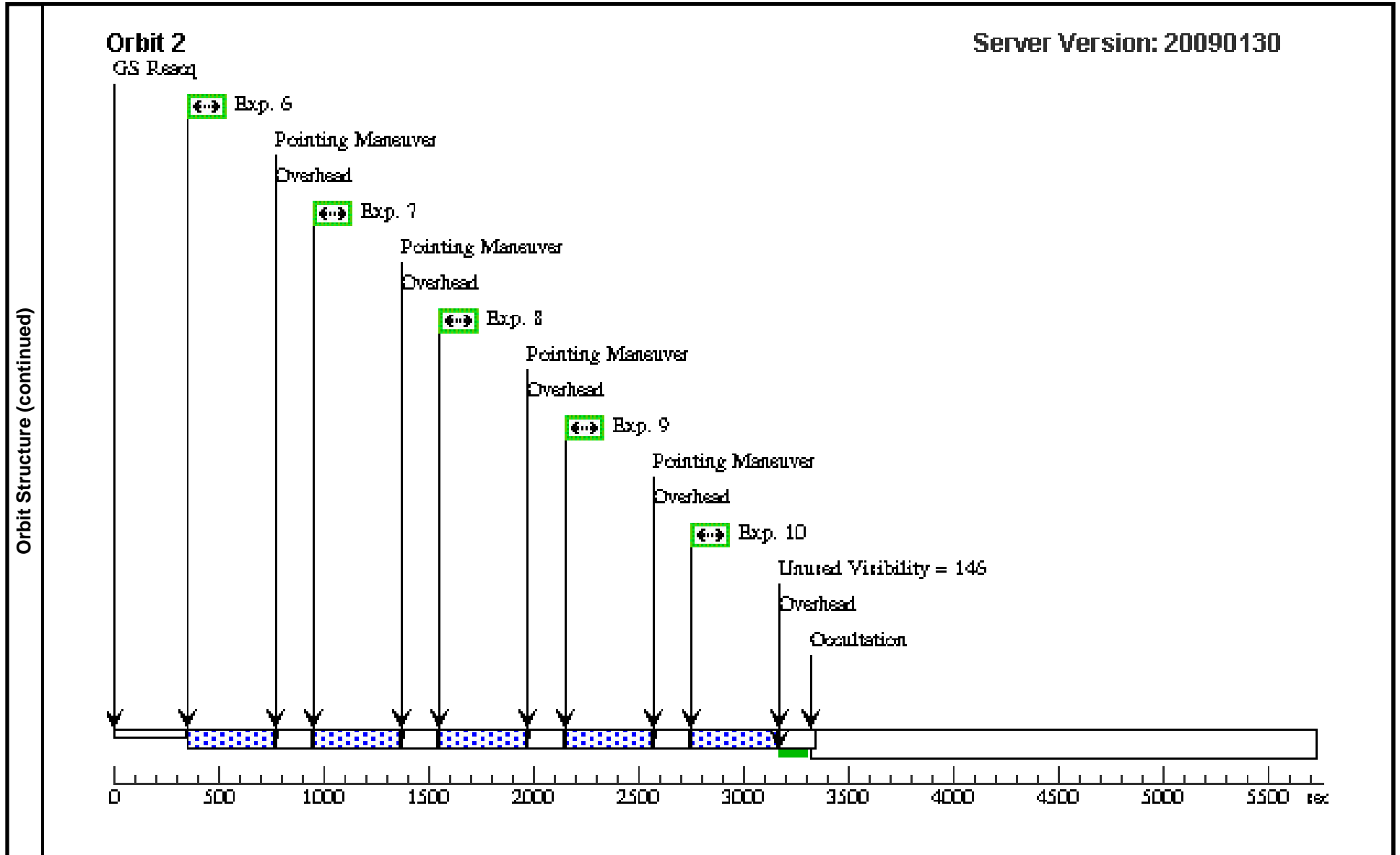
The success of this project hinges on accurate astrometric measurements for a large number of stars in the centers of five crowded Galactic globular clusters. We have previously obtained first epoch ACS/HRC (GO-10401) and second epoch WFPC2/PC (10841) images. This program will obtain third epoch WFPC2/PC images which will allow us to directly constrain the presence of intermediate mass black holes in our target clusters. We found that the filter and exposure times used in the 2nd epoch observations were ideal, and use the same values as in our 10841 program. We also use gain=15. We have checked the images taken in our previous 10841 program, which confirms that the clusters are well centered in the previous epoch, and so we use the same coordinates here. In this program, we dedicate 8 orbits to each cluster, broken into 4 visits of 2 orbits each. In order to best characterize the distortions across the field, we have constructed a dither pattern which moves the center of the cluster around in a circle with a radius of 100 pixels. This will allow us to sample different places on the detector, enabling us to randomize any systematic errors in distortion. The 100 pixel radius was chosen as a compromise between large-scale dithers and not losing too much of the cluster off the CCD for any given pointing. We will further randomize the positions of each star by observing each of the 4 visits at a different orientation.

Proposal 11988 - Visit 10 - Searching for Intermediate Mass Black Holes in Globular Clusters via Proper Motions

Tue Feb 17 02:51:17 GMT 2009

Visit	Proposal 11988, Visit 10, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none) <i>Comments: Please try and schedule visits 10 - 13 at different oriens.</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(9)	NGC362-WFPC2-POS1	RA: 01 03 14.3700 (15.8098750d) Dec: -70 50 58.00 (-70.84944d) Equinox: J2000		V=6.4	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N362-ORIE NT1-POS1	(9) NGC362-WFPC2 -POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 4.5729,0 .00		230.0 Secs [==>]	[1]
	2	N362-ORIE NT1-POS2	(9) NGC362-WFPC2 -POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.22389, 3.20675		230.0 Secs [==>]	[1]
	3	N362-ORIE NT1-POS3	(9) NGC362-WFPC2 -POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.00572, 4.58433		230.0 Secs [==>]	[1]
	4	N362-ORIE NT1-POS4	(9) NGC362-WFPC2 -POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1701 6.3.21818		230.0 Secs [==>]	[1]
	5	N362-ORIE NT1-POS5	(9) NGC362-WFPC2 -POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -4.5557 5.0.02286		230.0 Secs [==>]	[1]
	6	N362-ORIE NT1-POS6	(9) NGC362-WFPC2 -POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1610 2,-3.17245		230.0 Secs [==>]	[2]
	7	N362-ORIE NT1-POS7	(9) NGC362-WFPC2 -POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.01143, -4.53860		230.0 Secs [==>]	[2]
	8	N362-ORIE NT1-POS8	(9) NGC362-WFPC2 -POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.23533, -3.16102		230.0 Secs [==>]	[2]
	9	N362-ORIE NT1-POS9	(9) NGC362-WFPC2 -POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -2.2864 5.0.00000		230.0 Secs [==>]	[2]
10	N362-ORIE NT1-POS10	(9) NGC362-WFPC2 -POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 2.30931, 0.0000		230.0 Secs [==>]	[2]	

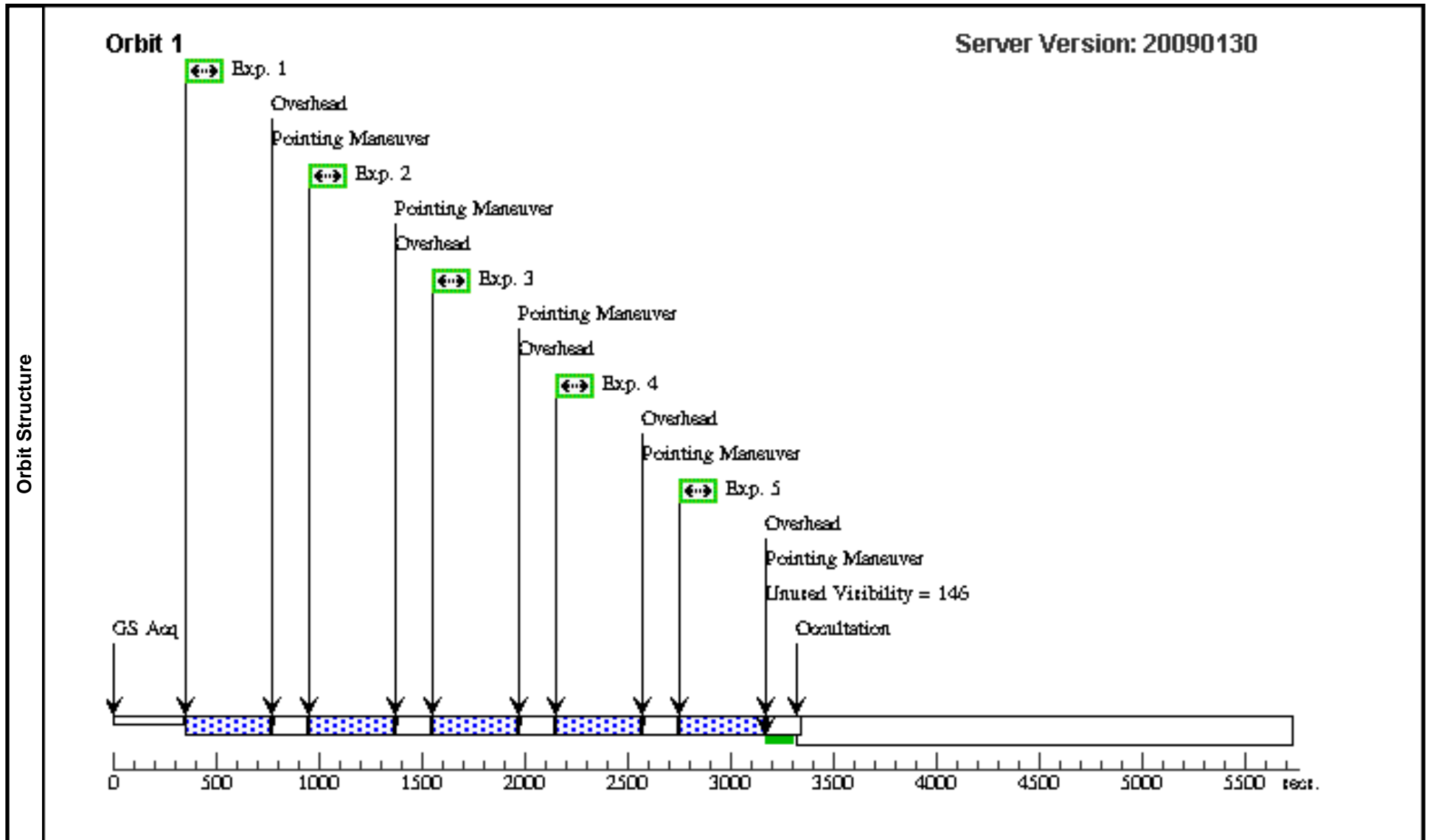


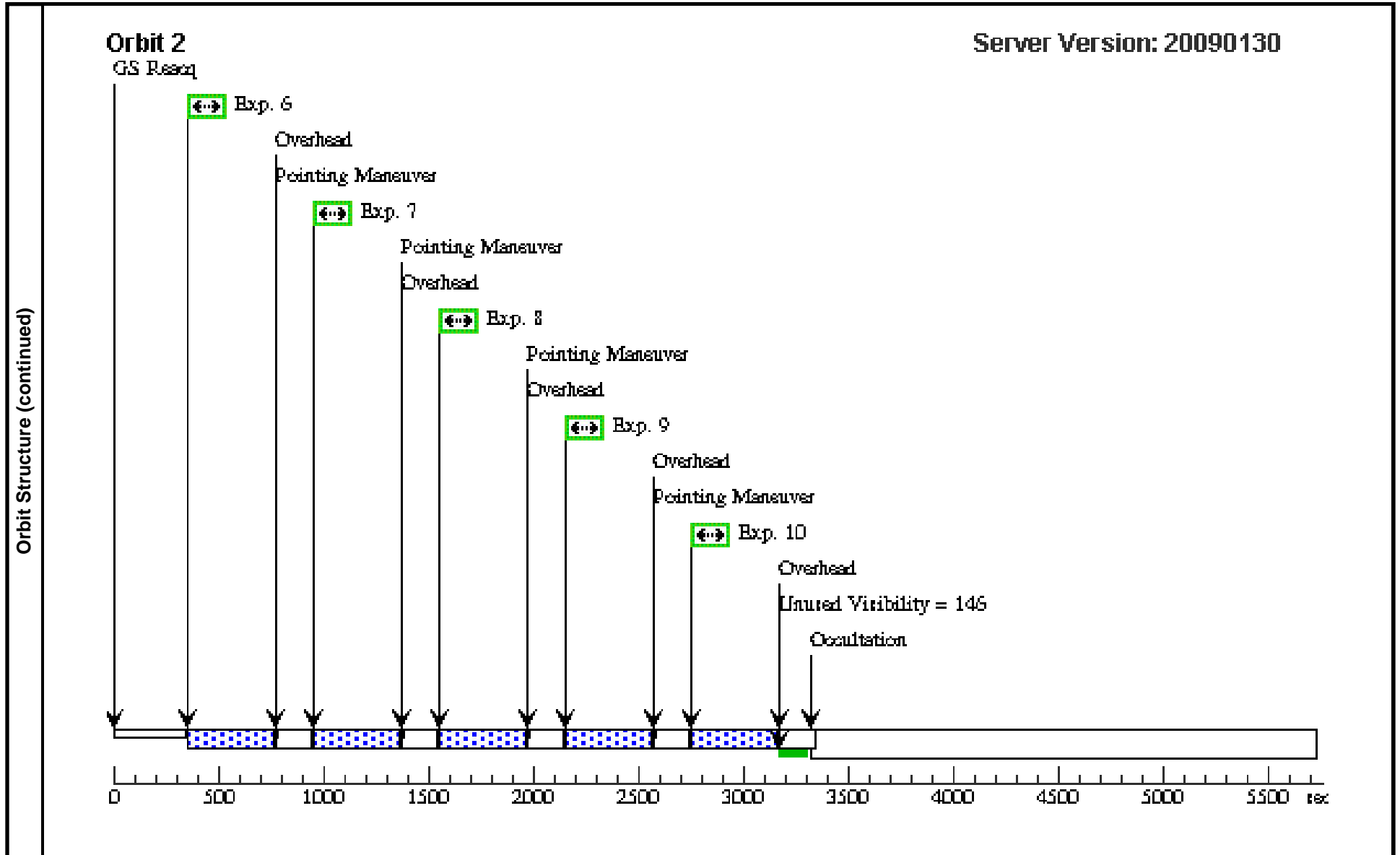


Proposal 11988 - Visit 11 - Searching for Intermediate Mass Black Holes in Globular Clusters via Proper Motions

Tue Feb 17 02:51:18 GMT 2009

Visit	Proposal 11988, Visit 11, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none) <i>Comments: Please try and schedule visits 10 - 13 at different oriens.</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(10)	NGC362-WFPC2-POS2	RA: 01 03 14.3700 (15.8098750d) Dec: -70 50 58.30 (-70.84953d) Equinox: J2000		V=6.4	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N362-ORIE NT2-POS1	(10) NGC362-WFPC 2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 4.5729,0 .00		230.0 Secs [==>]	[1]
	2	N362-ORIE NT2-POS2	(10) NGC362-WFPC 2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.22389, 3.20675		230.0 Secs [==>]	[1]
	3	N362-ORIE NT2-POS3	(10) NGC362-WFPC 2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.00572, 4.58433		230.0 Secs [==>]	[1]
	4	N362-ORIE NT2-POS4	(10) NGC362-WFPC 2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1701 6.3.21818		230.0 Secs [==>]	[1]
	5	N362-ORIE NT2-POS5	(10) NGC362-WFPC 2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -4.5557 5.0.02286		230.0 Secs [==>]	[1]
	6	N362-ORIE NT2-POS6	(10) NGC362-WFPC 2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1610 2,-3.17245		230.0 Secs [==>]	[2]
	7	N362-ORIE NT2-POS7	(10) NGC362-WFPC 2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.01143, -4.53860		230.0 Secs [==>]	[2]
	8	N362-ORIE NT2-POS8	(10) NGC362-WFPC 2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.23533, -3.16102		230.0 Secs [==>]	[2]
	9	N362-ORIE NT2-POS9	(10) NGC362-WFPC 2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -2.2864 5.0.00000		230.0 Secs [==>]	[2]
10	N362-ORIE NT2-POS10	(10) NGC362-WFPC 2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 2.30931, 0.0000		230.0 Secs [==>]	[2]	

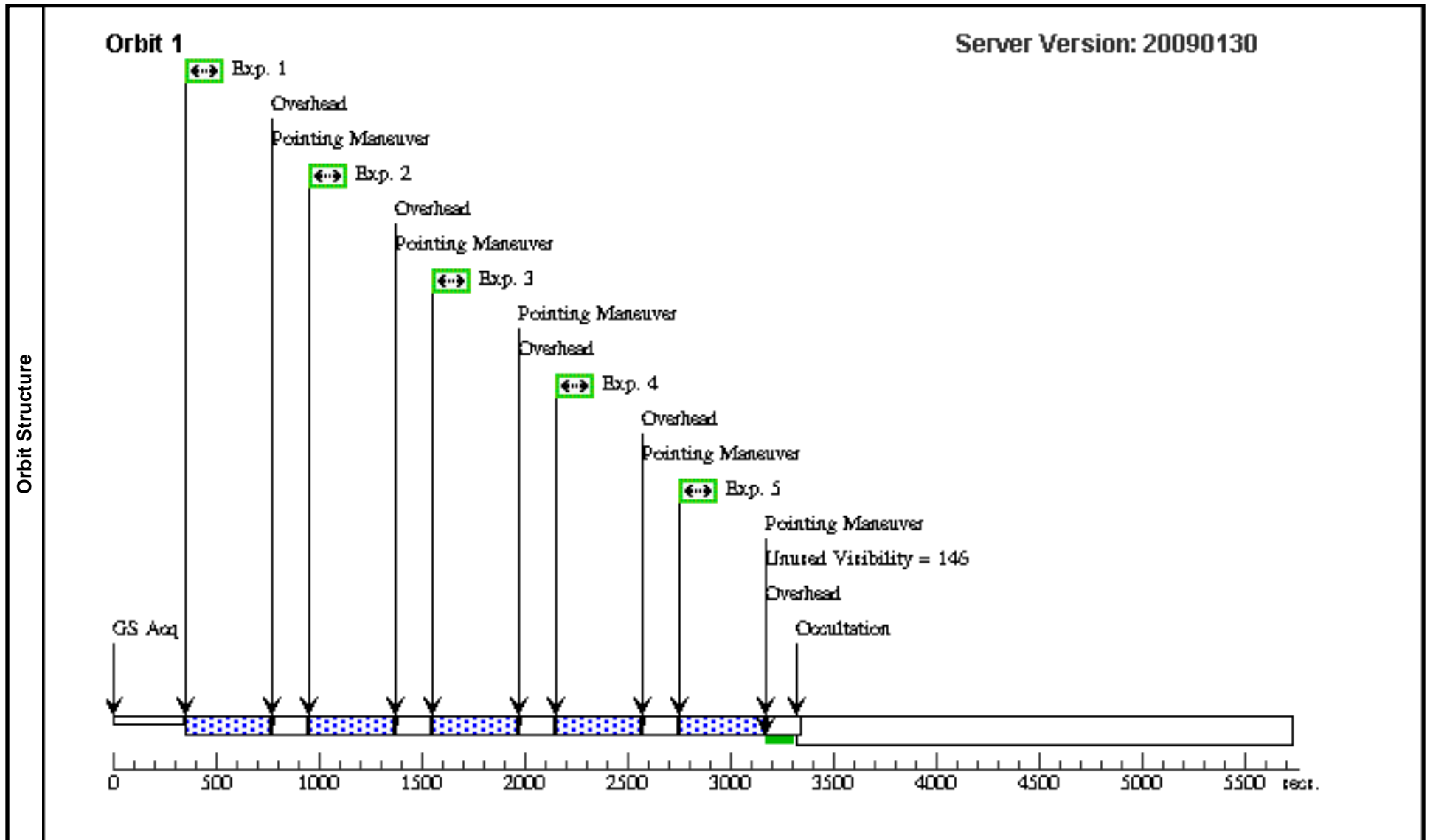


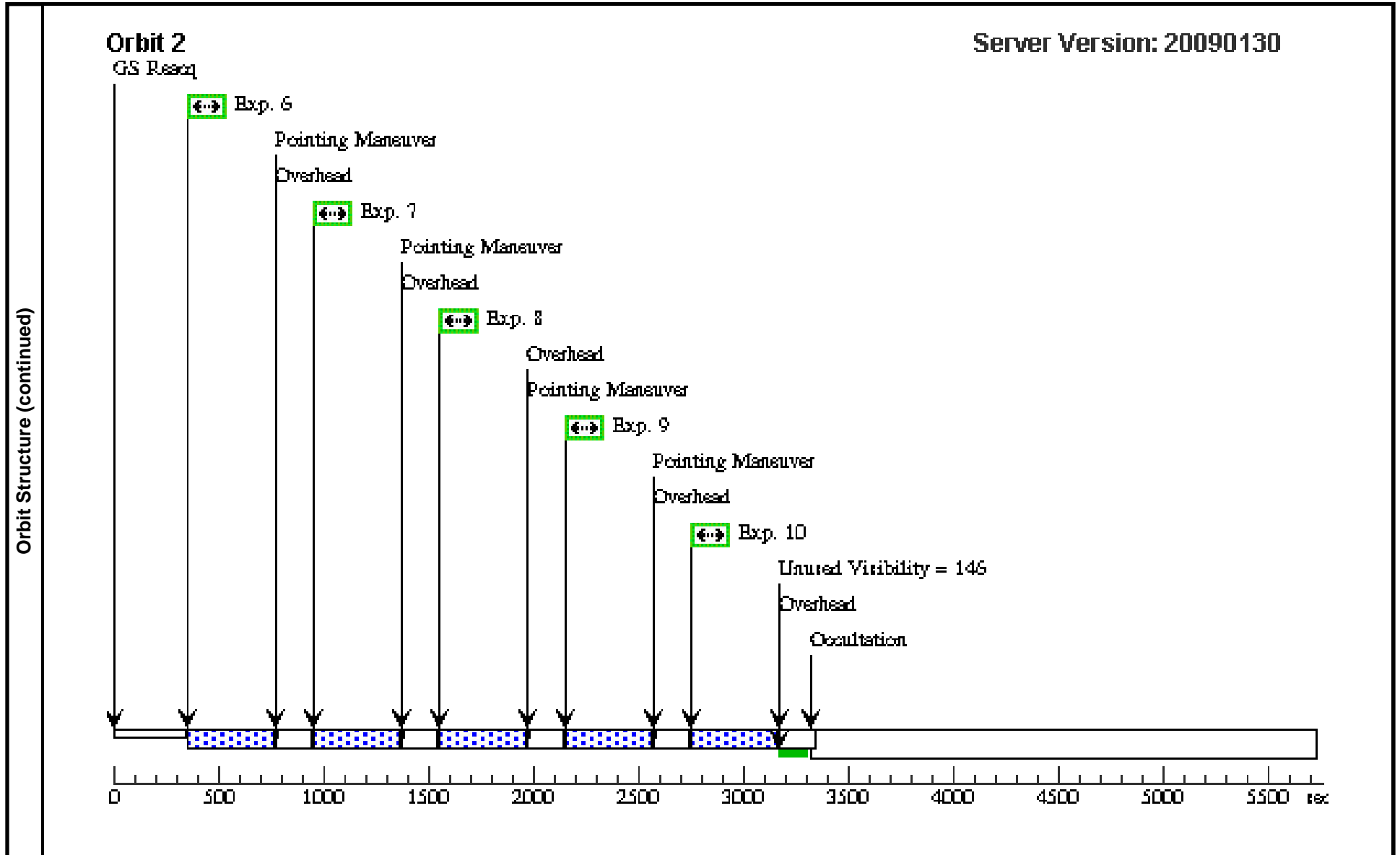


Proposal 11988 - Visit 12 - Searching for Intermediate Mass Black Holes in Globular Clusters via Proper Motions

Tue Feb 17 02:51:19 GMT 2009

Visit	Proposal 11988, Visit 12, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none) <i>Comments: Please try and schedule visits 10 - 13 at different oriens.</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(11)	NGC362-WFPC2-POS3	RA: 01 03 14.3700 (15.8098750d) Dec: -70 50 58.60 (-70.84961d) Equinox: J2000		V=6.4	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N362-ORIE NT3-POS1	(11) NGC362-WFPC 2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 4.5729,0 .00		230.0 Secs [==>]	[1]
	2	N362-ORIE NT3-POS2	(11) NGC362-WFPC 2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.22389, 3.20675		230.0 Secs [==>]	[1]
	3	N362-ORIE NT3-POS3	(11) NGC362-WFPC 2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.00572, 4.58433		230.0 Secs [==>]	[1]
	4	N362-ORIE NT3-POS4	(11) NGC362-WFPC 2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1701 6.3.21818		230.0 Secs [==>]	[1]
	5	N362-ORIE NT3-POS5	(11) NGC362-WFPC 2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -4.5557 5.0.02286		230.0 Secs [==>]	[1]
	6	N362-ORIE NT3-POS6	(11) NGC362-WFPC 2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1610 2,-3.17245		230.0 Secs [==>]	[2]
	7	N362-ORIE NT3-POS7	(11) NGC362-WFPC 2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.01143, -4.53860		230.0 Secs [==>]	[2]
	8	N362-ORIE NT3-POS8	(11) NGC362-WFPC 2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.23533, -3.16102		230.0 Secs [==>]	[2]
	9	N362-ORIE NT3-POS9	(11) NGC362-WFPC 2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -2.2864 5.0.00000		230.0 Secs [==>]	[2]
10	N362-ORIE NT3-POS10	(11) NGC362-WFPC 2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 2.30931, 0.0000		230.0 Secs [==>]	[2]	

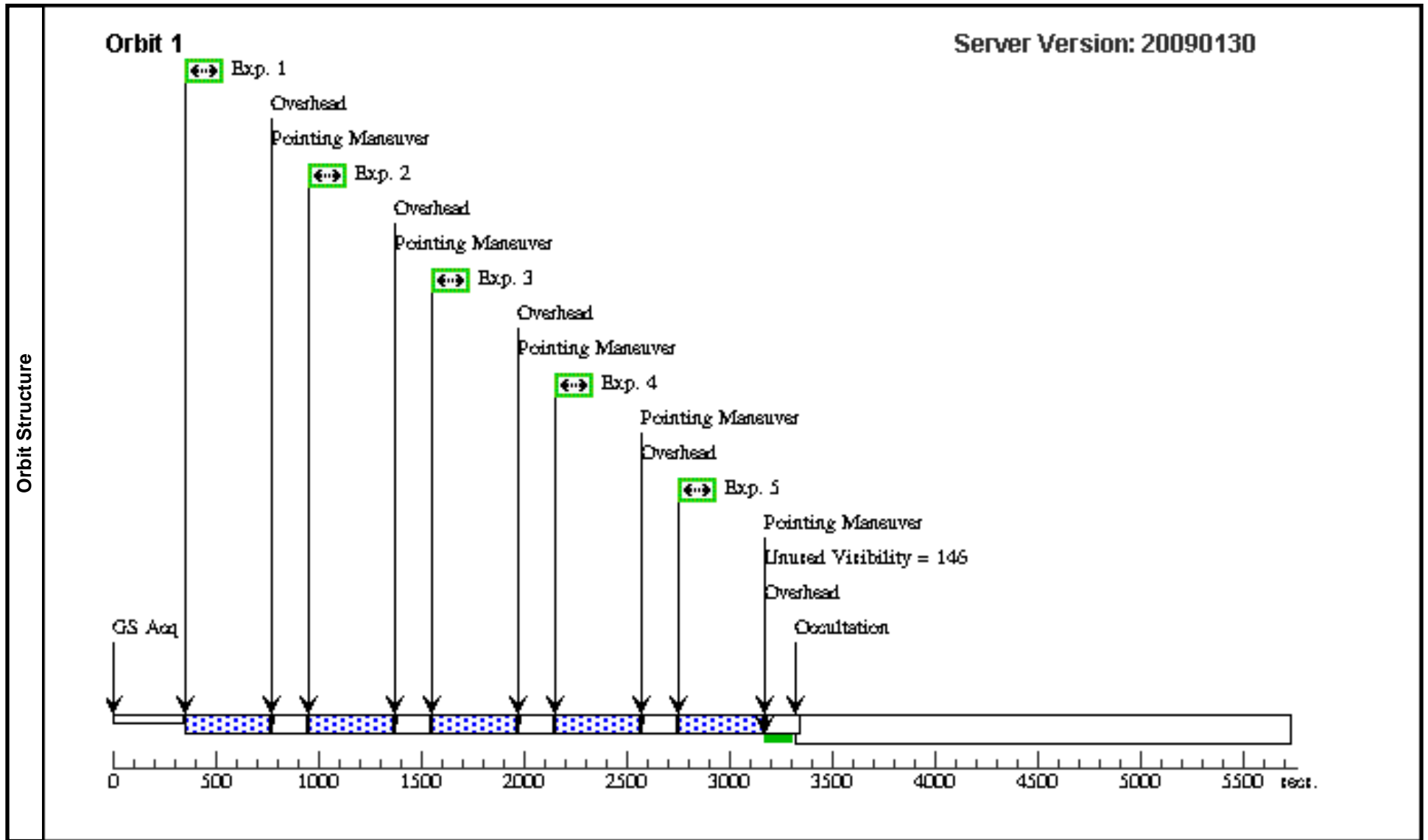


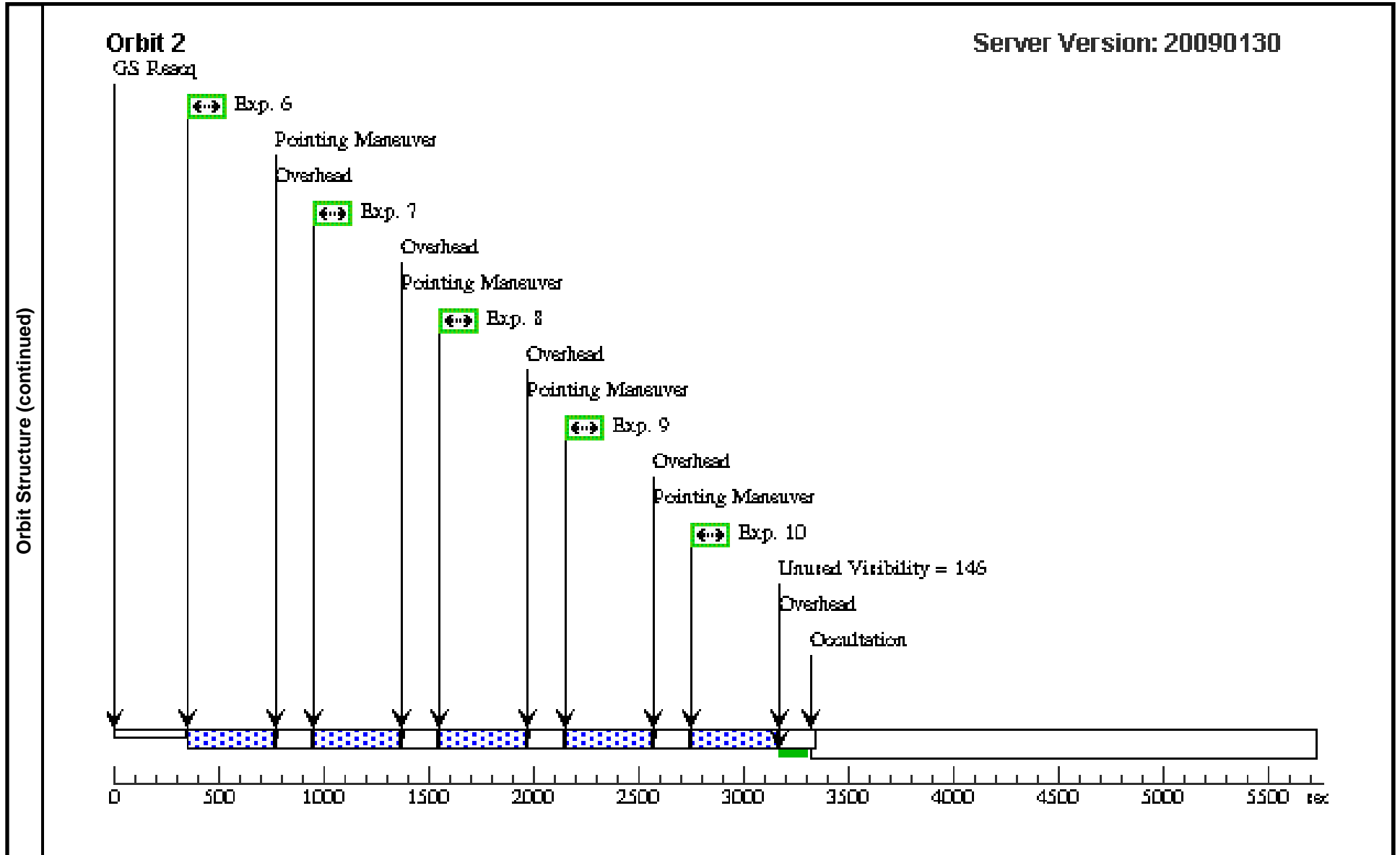


Proposal 11988 - Visit 13 - Searching for Intermediate Mass Black Holes in Globular Clusters via Proper Motions

Tue Feb 17 02:51:20 GMT 2009

Visit	Proposal 11988, Visit 13, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none) <i>Comments: Please try and schedule visits 10 - 13 at different orients.</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(12)	NGC362-WFPC2-POS4	RA: 01 03 14.3700 (15.8098750d) Dec: -70 50 57.70 (-70.84936d) Equinox: J2000		V=6.4	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N362-ORIE NT4-POS1	(12) NGC362-WFPC 2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 4.5729,0 .00		230.0 Secs [==>]	[1]
	2	N362-ORIE NT4-POS2	(12) NGC362-WFPC 2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.22389, 3.20675		230.0 Secs [==>]	[1]
	3	N362-ORIE NT4-POS3	(12) NGC362-WFPC 2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.00572, 4.58433		230.0 Secs [==>]	[1]
	4	N362-ORIE NT4-POS4	(12) NGC362-WFPC 2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1701 6.3.21818		230.0 Secs [==>]	[1]
	5	N362-ORIE NT4-POS5	(12) NGC362-WFPC 2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -4.5557 5.0.02286		230.0 Secs [==>]	[1]
	6	N362-ORIE NT4-POS6	(12) NGC362-WFPC 2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1610 2,-3.17245		230.0 Secs [==>]	[2]
	7	N362-ORIE NT4-POS7	(12) NGC362-WFPC 2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.01143, -4.53860		230.0 Secs [==>]	[2]
	8	N362-ORIE NT4-POS8	(12) NGC362-WFPC 2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.23533, -3.16102		230.0 Secs [==>]	[2]
	9	N362-ORIE NT4-POS9	(12) NGC362-WFPC 2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -2.2864 5.0.00000		230.0 Secs [==>]	[2]
10	N362-ORIE NT4-POS10	(12) NGC362-WFPC 2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 2.30931, 0.0000		230.0 Secs [==>]	[2]	

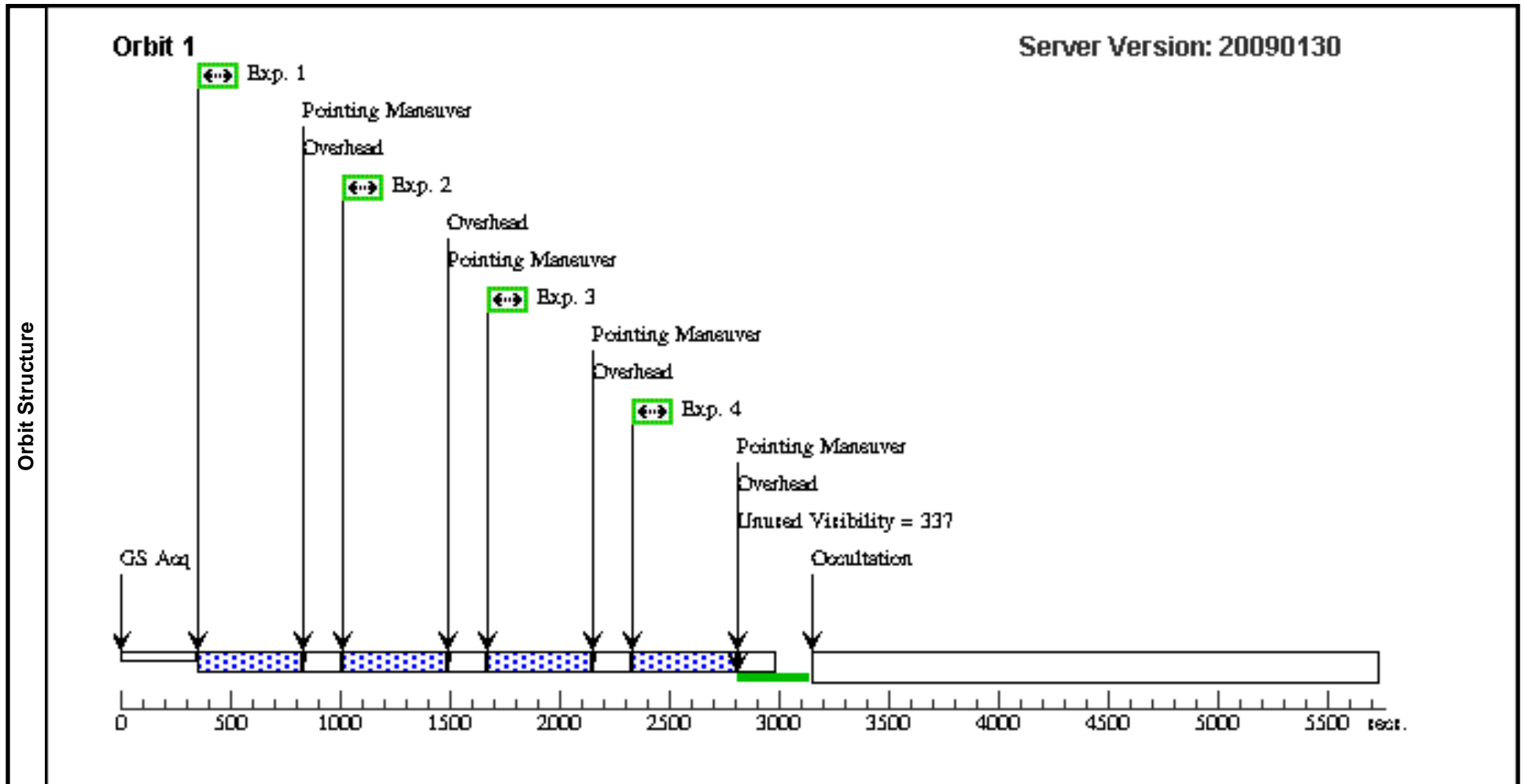


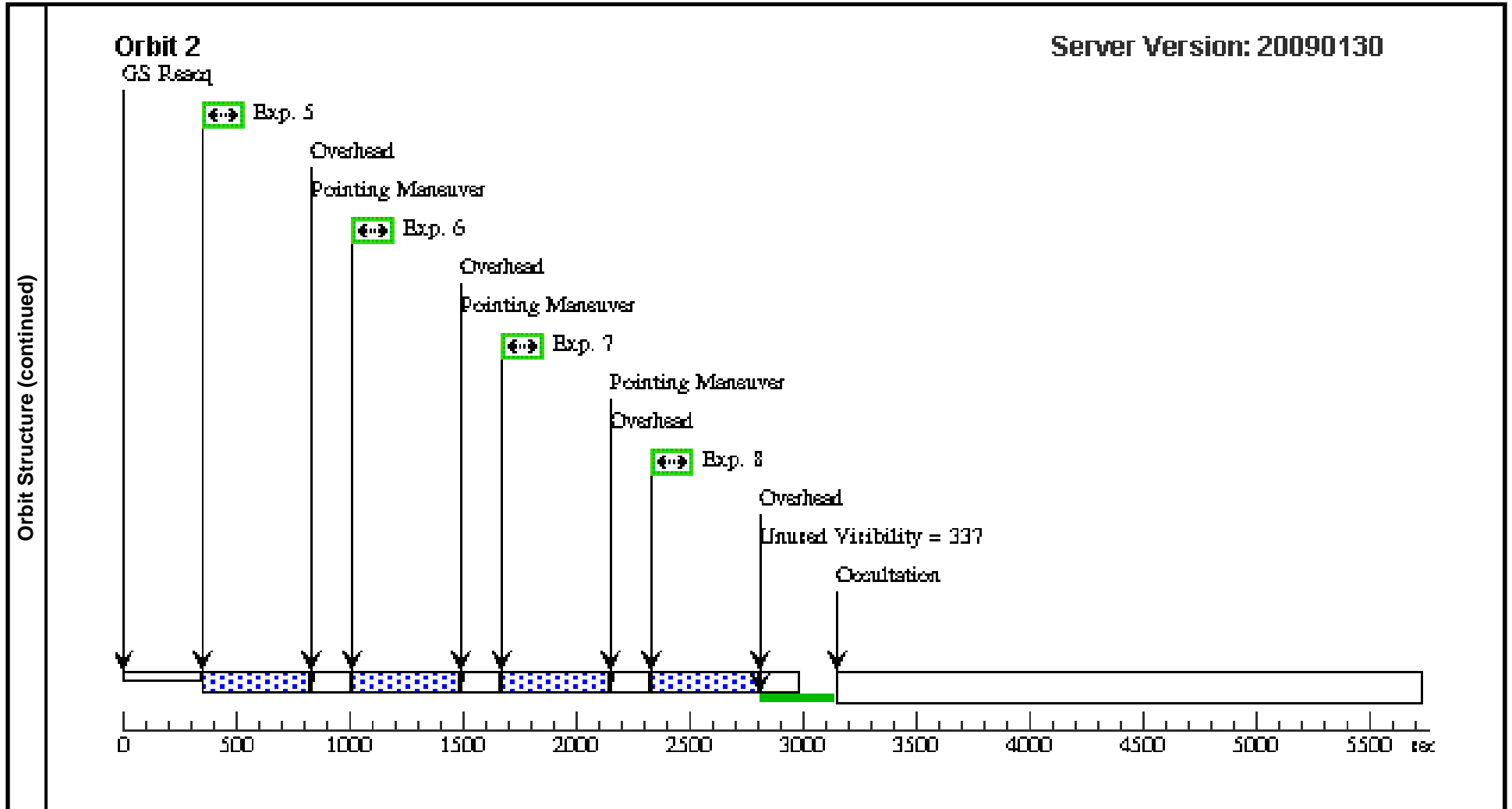


Proposal 11988 - Visit 20 - Searching for Intermediate Mass Black Holes in Globular Clusters via Proper Motions

Tue Feb 17 02:51:20 GMT 2009

Visit	Proposal 11988, Visit 20, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none) <i>Comments: Please try and schedule visits 20 - 23 at different oriens.</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(5)	NGC6681-WFPC2-POS1	RA: 18 43 12.7100 (280.8029583d) Dec: -32 17 31.30 (-32.29203d) Equinox: J2000		V=7.87	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N6681-ORI ENT1-POS1	(5) NGC6681-WFPC 2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 4.57290, 0.0000		300.0 Secs [==>]	[1]
	2	N6681-ORI ENT1-POS2	(5) NGC6681-WFPC 2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.22389, 3.20675		300.0 Secs [==>]	[1]
	3	N6681-ORI ENT1-POS3	(5) NGC6681-WFPC 2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.00572, 4.58433		300.0 Secs [==>]	[1]
	4	N6681-ORI ENT1-POS4	(5) NGC6681-WFPC 2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1701 6.3.21818		300.0 Secs [==>]	[1]
	5	N6681-ORI ENT1-POS5	(5) NGC6681-WFPC 2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -4.5557 5.0.02286		300.0 Secs [==>]	[2]
	6	N6681-ORI ENT1-POS6	(5) NGC6681-WFPC 2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1610 2,-3.1725		300.0 Secs [==>]	[2]
	7	N6681-ORI ENT1-POS7	(5) NGC6681-WFPC 2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.01143, -4.53860		300.0 Secs [==>]	[2]
	8	N6681-ORI ENT1-POS8	(5) NGC6681-WFPC 2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.23533, -3.16102		300.0 Secs [==>]	[2]

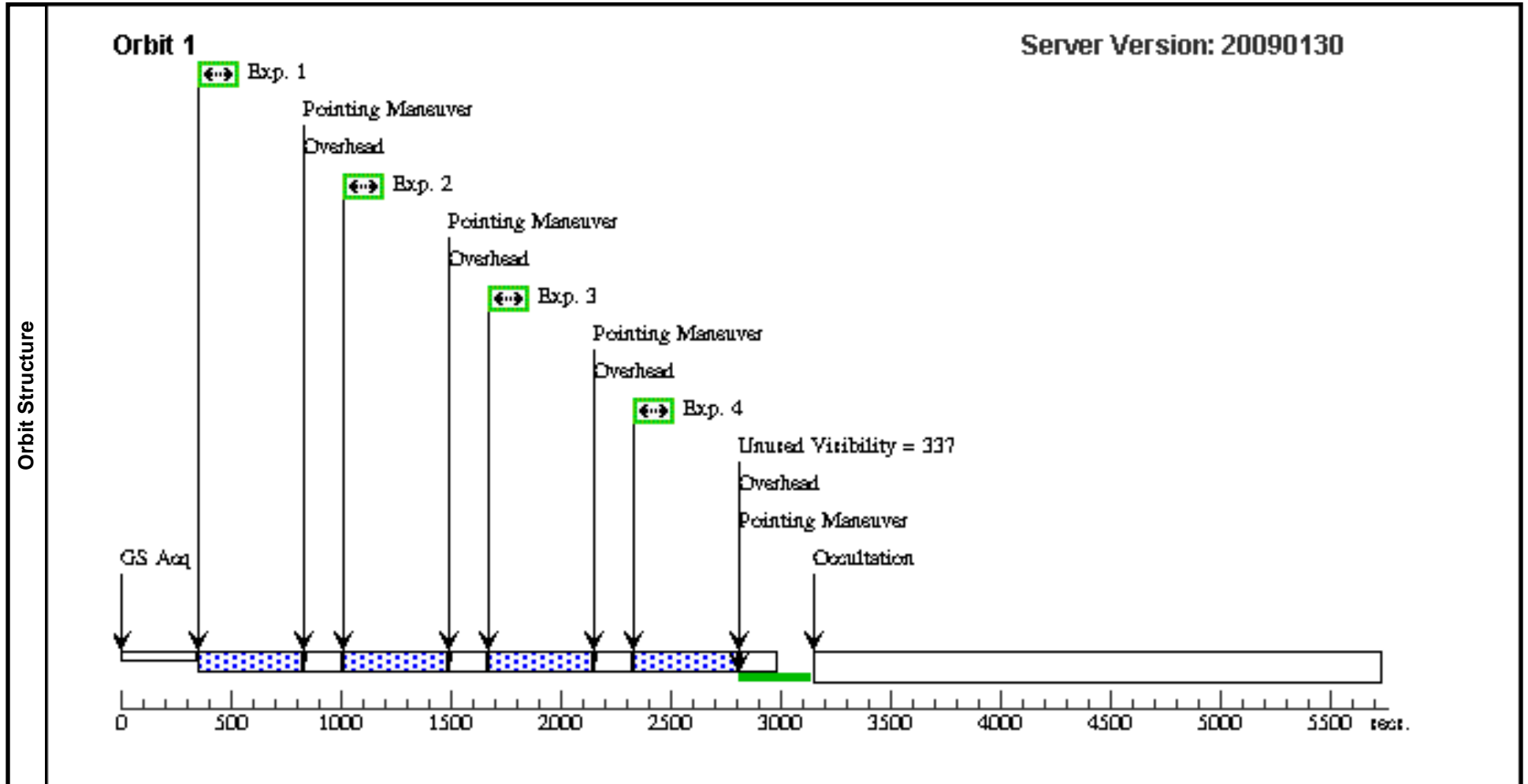


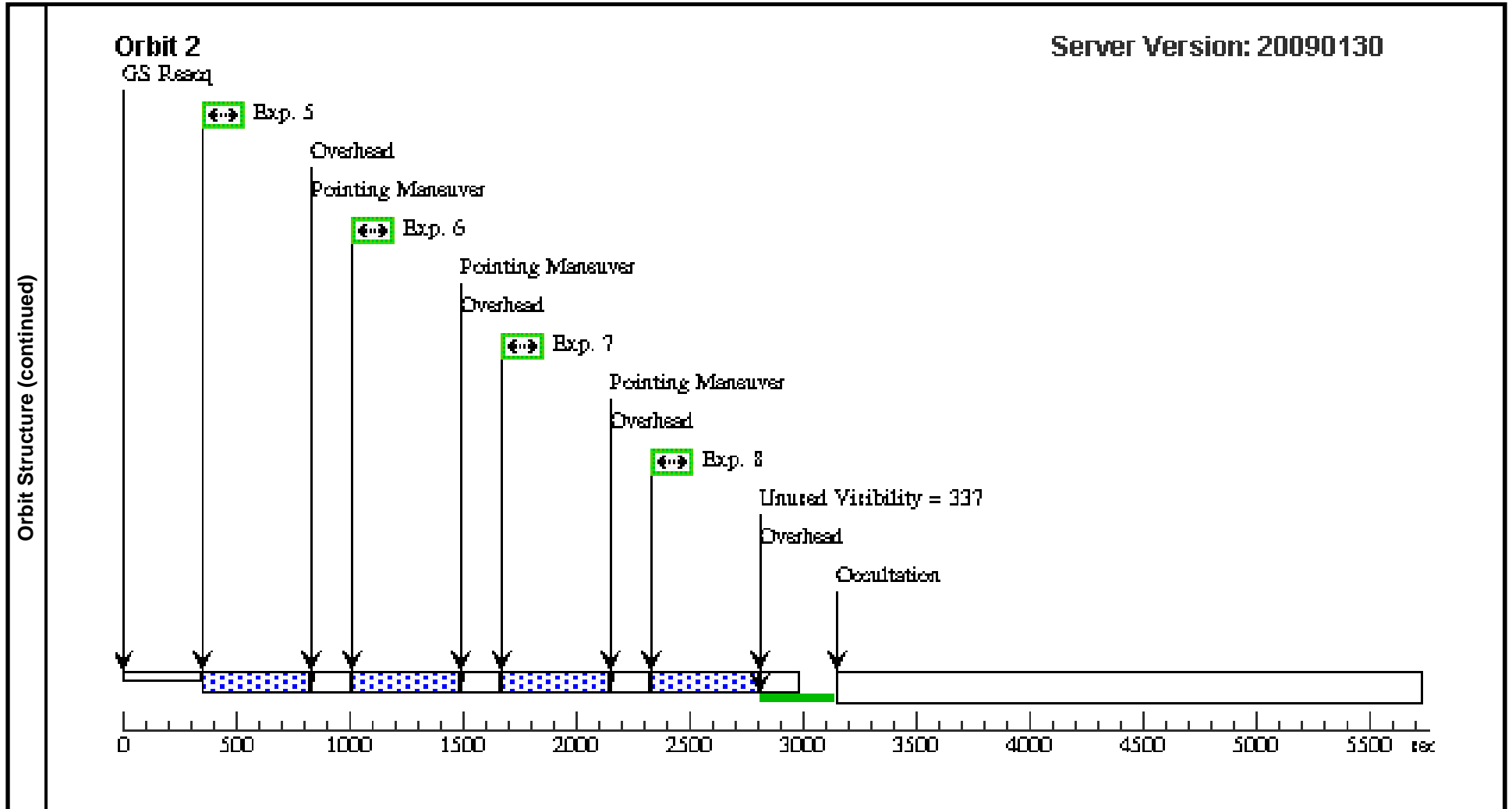


Proposal 11988 - Visit 21 - Searching for Intermediate Mass Black Holes in Globular Clusters via Proper Motions

Tue Feb 17 02:51:21 GMT 2009

Visit	Proposal 11988, Visit 21, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none) <i>Comments: Please try and schedule visits 20 - 23 at different oriens.</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(6)	NGC6681-WFPC2-POS2	RA: 18 43 12.7100 (280.8029583d) Dec: -32 17 31.60 (-32.29211d) Equinox: J2000		V=7.87	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N6681-ORI ENT2-POS1	(6) NGC6681-WFPC 2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 4.57290, 0.0000		300.0 Secs [==>]	[1]
	2	N6681-ORI ENT2-POS2	(6) NGC6681-WFPC 2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.22389, 3.20675		300.0 Secs [==>]	[1]
	3	N6681-ORI ENT2-POS3	(6) NGC6681-WFPC 2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.00572, 4.58433		300.0 Secs [==>]	[1]
	4	N6681-ORI ENT2-POS4	(6) NGC6681-WFPC 2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1701 6.3.21818		300.0 Secs [==>]	[1]
	5	N6681-ORI ENT2-POS5	(6) NGC6681-WFPC 2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -4.5557 5.0.02286		300.0 Secs [==>]	[2]
	6	N6681-ORI ENT2-POS6	(6) NGC6681-WFPC 2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1610 2,-3.1725		300.0 Secs [==>]	[2]
	7	N6681-ORI ENT2-POS7	(6) NGC6681-WFPC 2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.01143, -4.53860		300.0 Secs [==>]	[2]
	8	N6681-ORI ENT2-POS8	(6) NGC6681-WFPC 2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.23533, -3.16102		300.0 Secs [==>]	[2]

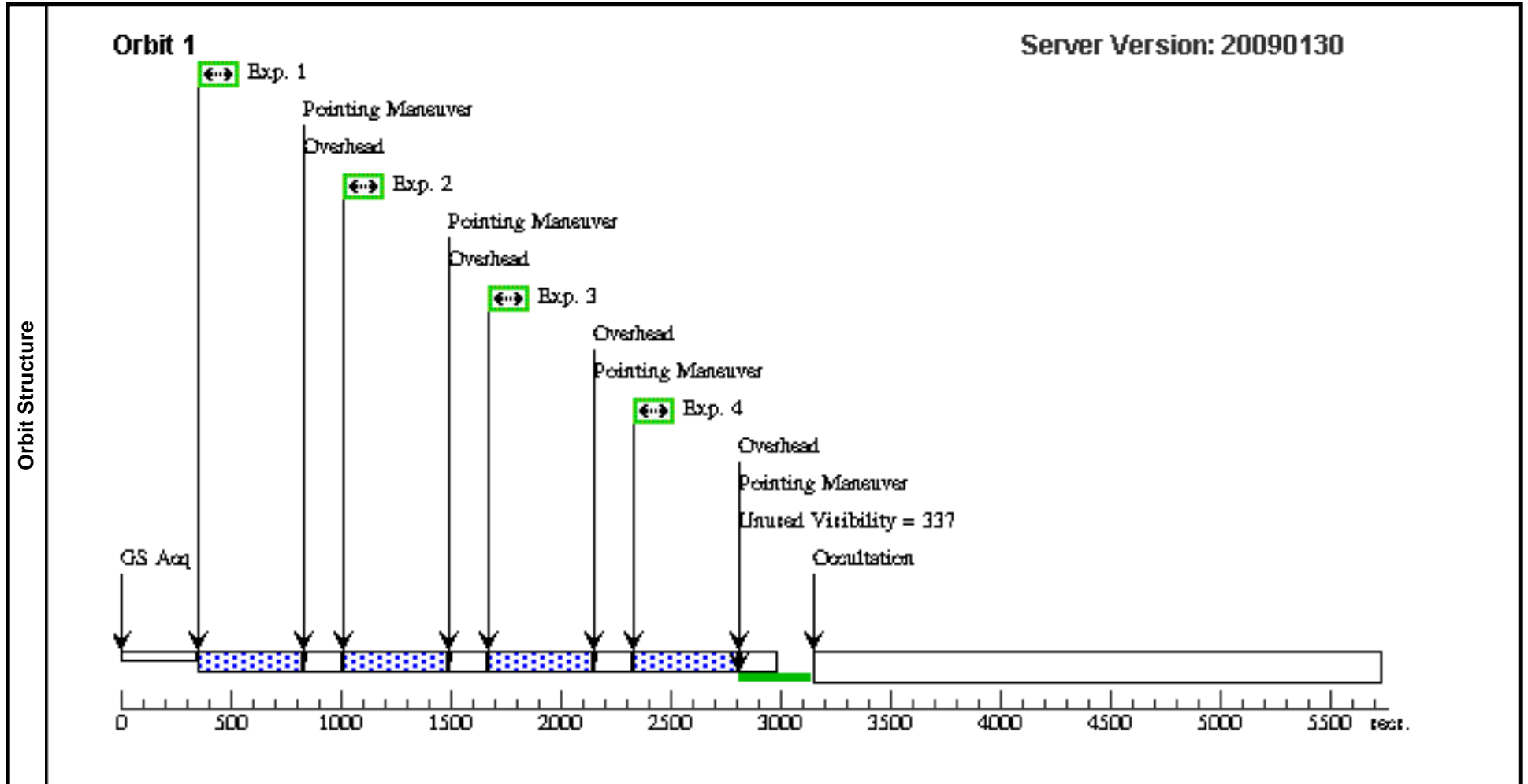


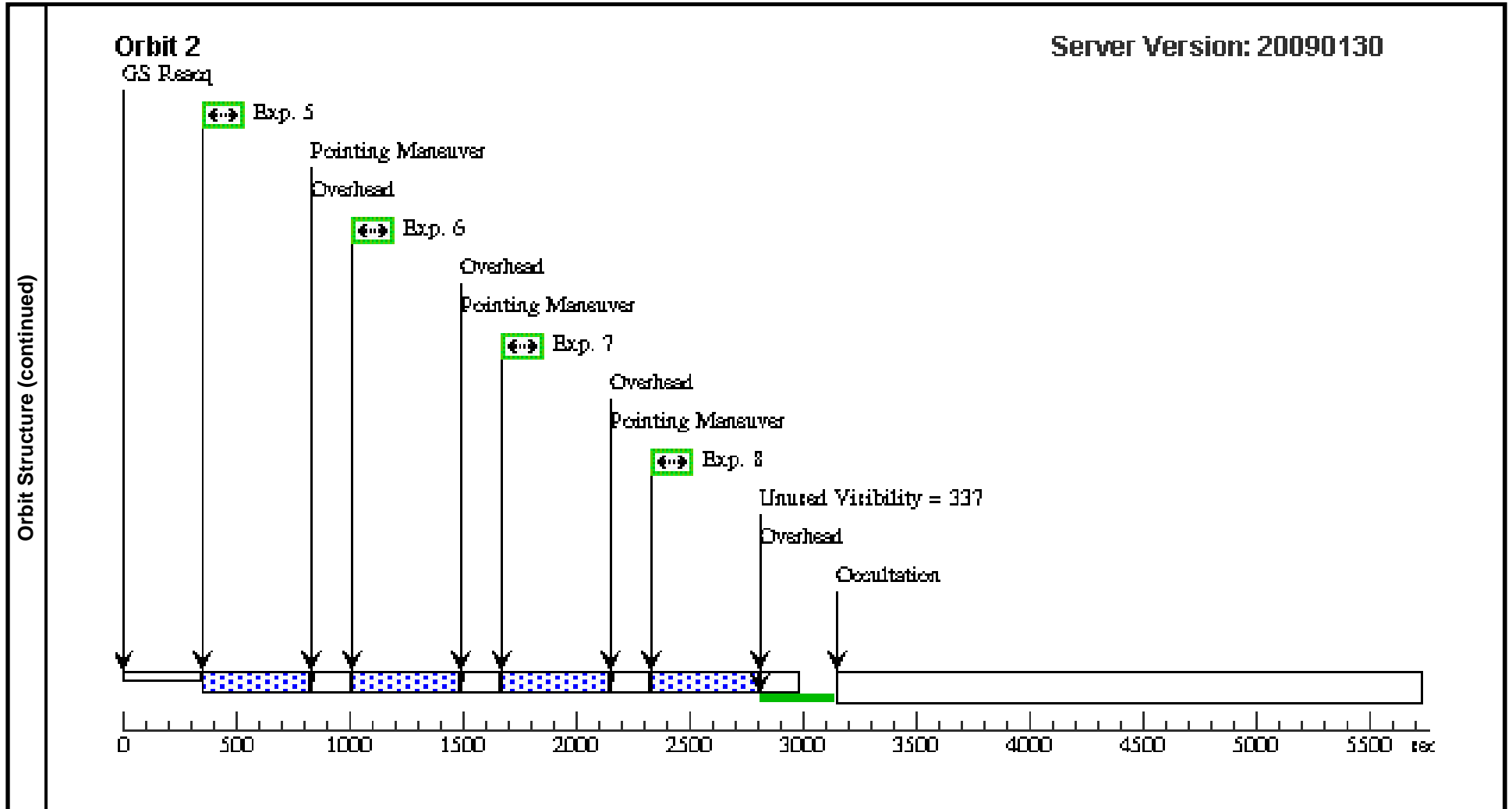


Proposal 11988 - Visit 22 - Searching for Intermediate Mass Black Holes in Globular Clusters via Proper Motions

Tue Feb 17 02:51:21 GMT 2009

Visit	Proposal 11988, Visit 22, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none) <i>Comments: Please try and schedule visits 20 - 23 at different orients.</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(7)	NGC6681-WFPC2-POS3	RA: 18 43 12.7100 (280.8029583d) Dec: -32 17 31.90 (-32.29219d) Equinox: J2000		V=7.87	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N6681-ORI ENT3-POS1	(7) NGC6681-WFPC 2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 4.57290, 0.0000		300.0 Secs [==>]	[1]
	2	N6681-ORI ENT3-POS2	(7) NGC6681-WFPC 2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.22389, 3.20675		300.0 Secs [==>]	[1]
	3	N6681-ORI ENT3-POS3	(7) NGC6681-WFPC 2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.00572, 4.58433		300.0 Secs [==>]	[1]
	4	N6681-ORI ENT3-POS4	(7) NGC6681-WFPC 2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1701 6.3.21818		300.0 Secs [==>]	[1]
	5	N6681-ORI ENT3-POS5	(7) NGC6681-WFPC 2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -4.5557 5.0.02286		300.0 Secs [==>]	[2]
	6	N6681-ORI ENT3-POS6	(7) NGC6681-WFPC 2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1610 2,-3.1725		300.0 Secs [==>]	[2]
	7	N6681-ORI ENT3-POS7	(7) NGC6681-WFPC 2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.01143, -4.53860		300.0 Secs [==>]	[2]
	8	N6681-ORI ENT3-POS8	(7) NGC6681-WFPC 2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.23533, -3.16102		300.0 Secs [==>]	[2]

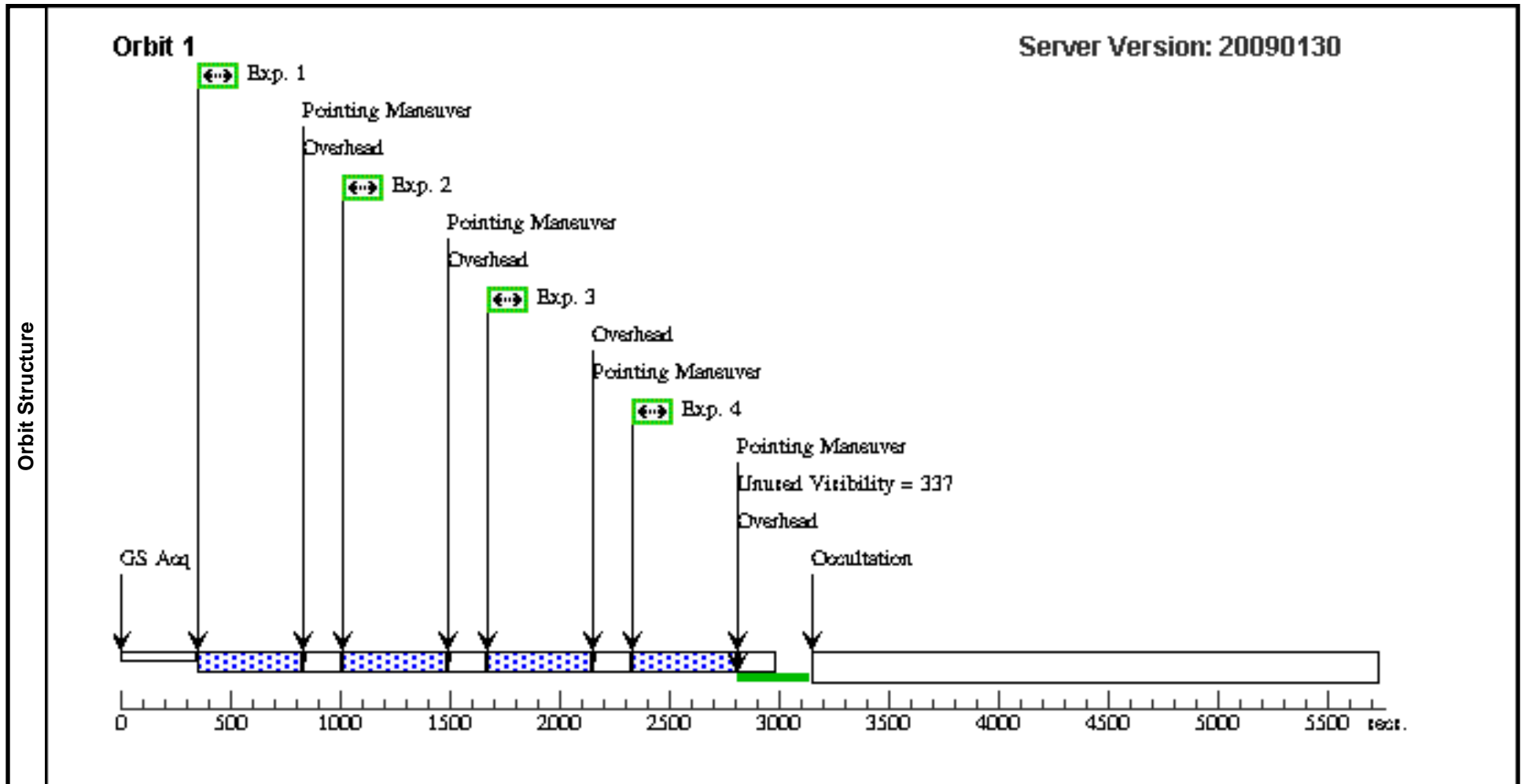


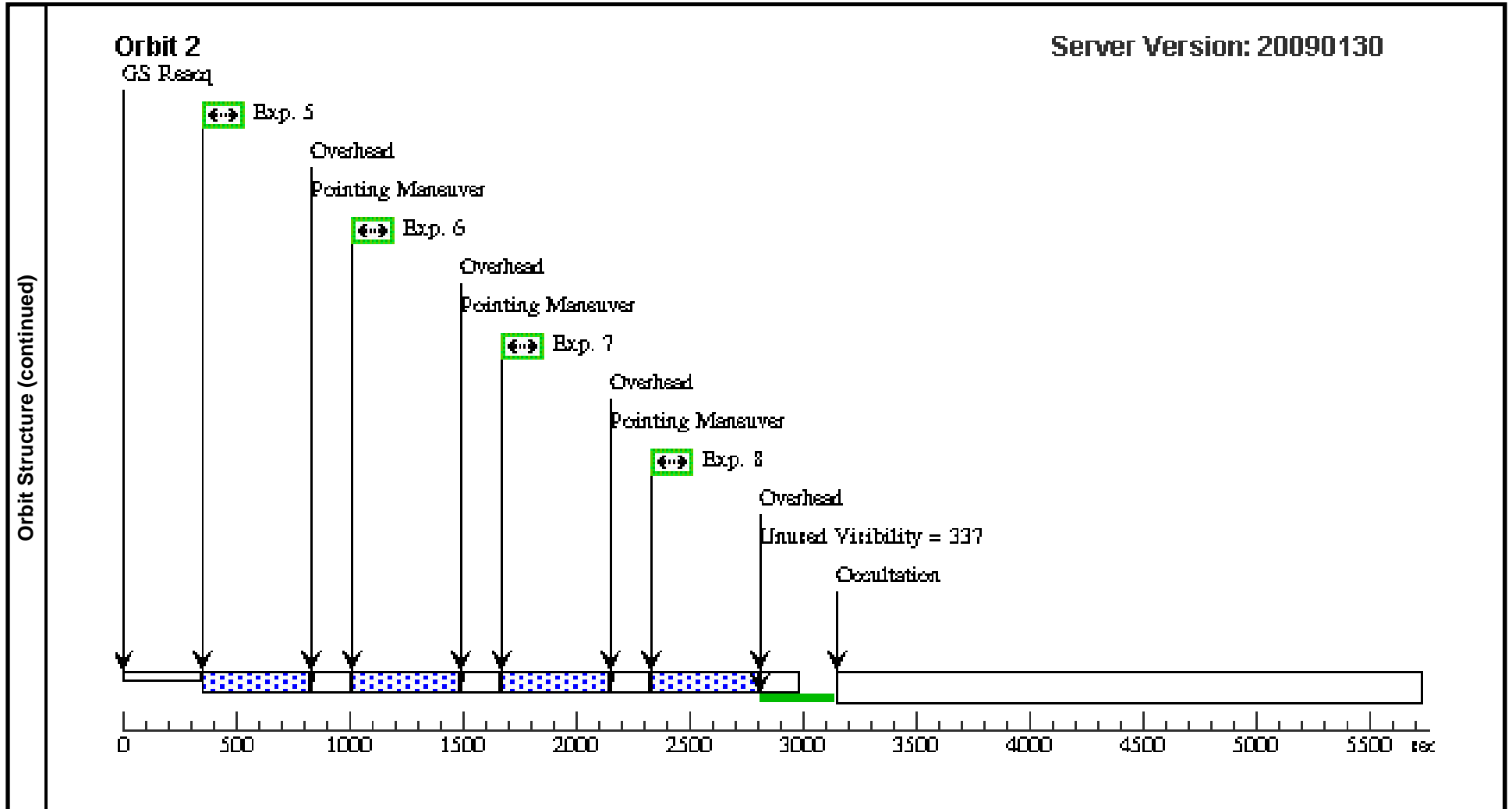


Proposal 11988 - Visit 23 - Searching for Intermediate Mass Black Holes in Globular Clusters via Proper Motions

Tue Feb 17 02:51:22 GMT 2009

Visit	Proposal 11988, Visit 23, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none) <i>Comments: Please try and schedule visits 20 - 23 at different orients.</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(8)	NGC6681-WFPC2-POS4	RA: 18 43 12.7100 (280.8029583d) Dec: -32 17 31.00 (-32.29194d) Equinox: J2000		V=7.87	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N6681-ORI ENT4-POS1	(8) NGC6681-WFPC 2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 4.57290, 0.0000		300.0 Secs [==>]	[1]
	2	N6681-ORI ENT4-POS2	(8) NGC6681-WFPC 2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.22389, 3.20675		300.0 Secs [==>]	[1]
	3	N6681-ORI ENT4-POS3	(8) NGC6681-WFPC 2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.00572, 4.58433		300.0 Secs [==>]	[1]
	4	N6681-ORI ENT4-POS4	(8) NGC6681-WFPC 2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1701 6.3.21818		300.0 Secs [==>]	[1]
	5	N6681-ORI ENT4-POS5	(8) NGC6681-WFPC 2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -4.5557 5.0.02286		300.0 Secs [==>]	[2]
	6	N6681-ORI ENT4-POS6	(8) NGC6681-WFPC 2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1610 2,-3.1725		300.0 Secs [==>]	[2]
	7	N6681-ORI ENT4-POS7	(8) NGC6681-WFPC 2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.01143, -4.53860		300.0 Secs [==>]	[2]
	8	N6681-ORI ENT4-POS8	(8) NGC6681-WFPC 2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.23533, -3.16102		300.0 Secs [==>]	[2]

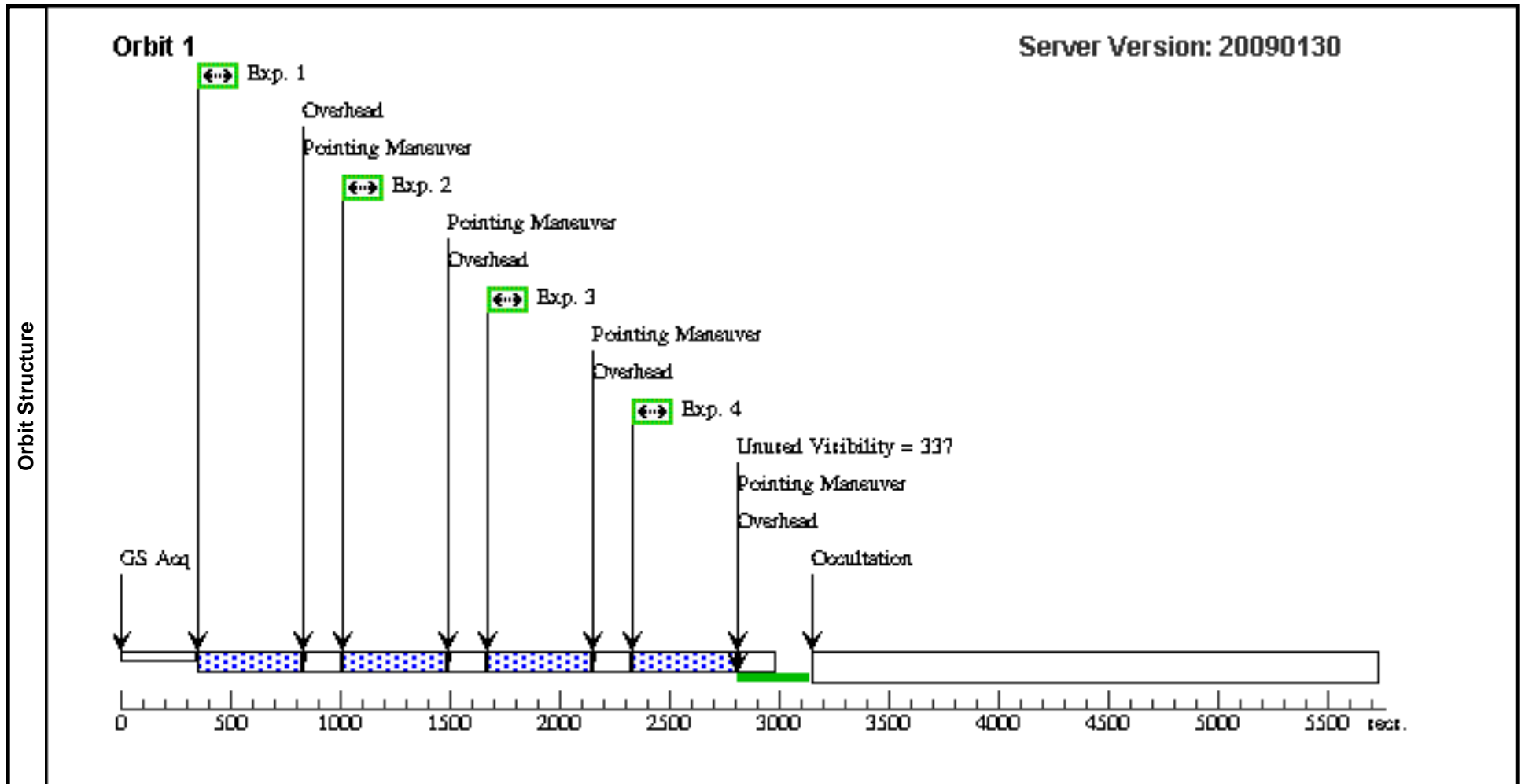


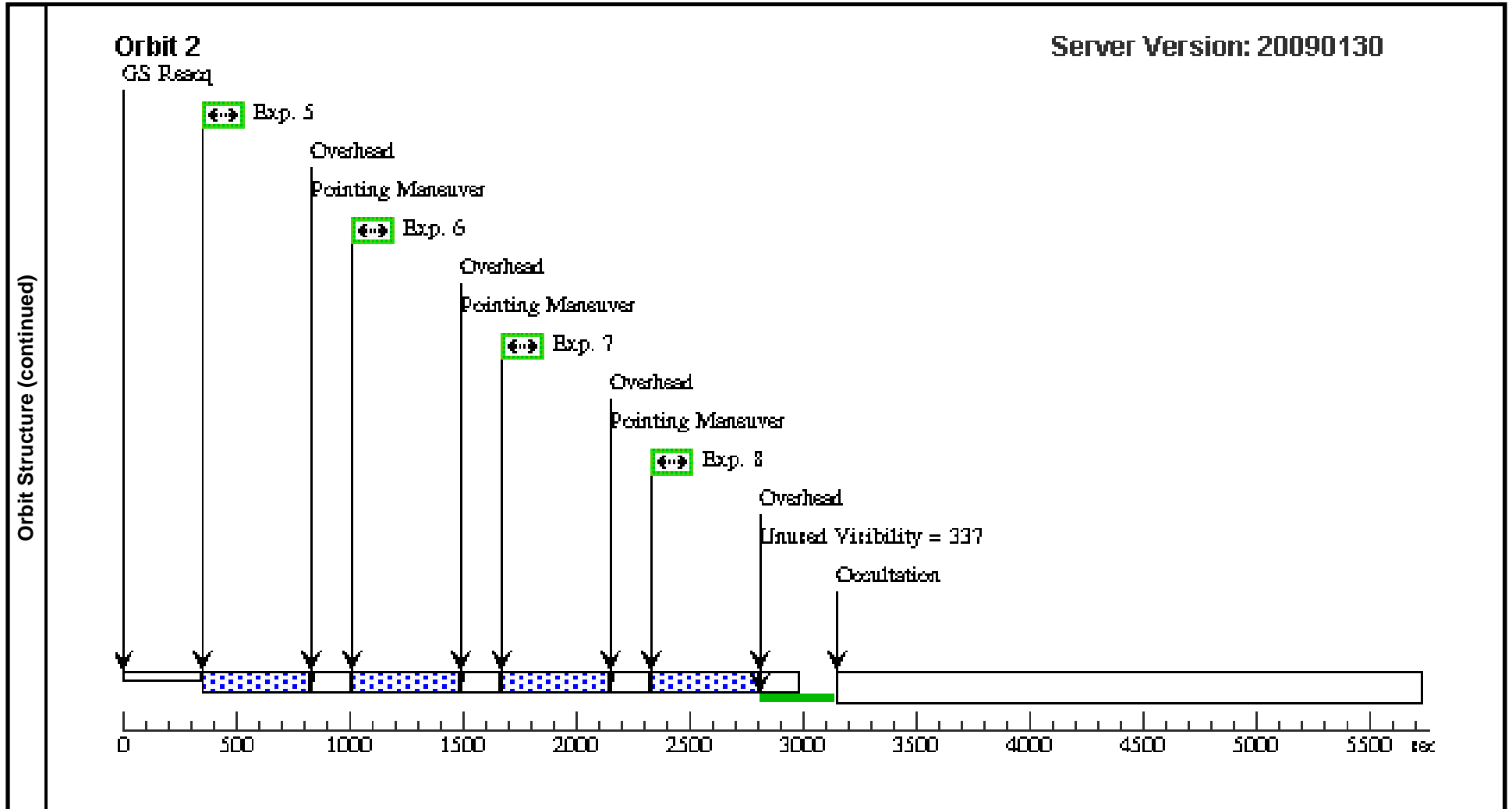


Proposal 11988 - Visit 30 - Searching for Intermediate Mass Black Holes in Globular Clusters via Proper Motions

Tue Feb 17 02:51:22 GMT 2009

Visit	Proposal 11988, Visit 30, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none) <i>Comments: Please try and schedule visits 30 - 33 at different orients.</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(13)	NGC6624-WFPC2-POS1	RA: 18 23 40.5300 (275.9188750d) Dec: -30 21 40.40 (-30.36122d) Equinox: J2000		V=7.87	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N6624-ORI ENT1-POS1	(13) NGC6624-WFP C2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 4.57290, 0.0000		300.0 Secs [==>]	[1]
	2	N6624-ORI ENT1-POS2	(13) NGC6624-WFP C2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.22389, 3.20675		300.0 Secs [==>]	[1]
	3	N6624-ORI ENT1-POS3	(13) NGC6624-WFP C2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.00572, 4.58433		300.0 Secs [==>]	[1]
	4	N6624-ORI ENT1-POS4	(13) NGC6624-WFP C2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1701 6.3.21818		300.0 Secs [==>]	[1]
	5	N6624-ORI ENT1-POS5	(13) NGC6624-WFP C2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -4.5557 5.0.02286		300.0 Secs [==>]	[2]
	6	N6624-ORI ENT1-POS6	(13) NGC6624-WFP C2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1610 2,-3.17245		300.0 Secs [==>]	[2]
	7	N6624-ORI ENT1-POS7	(13) NGC6624-WFP C2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.01143, -4.53860		300.0 Secs [==>]	[2]
	8	N6624-ORI ENT1-POS8	(13) NGC6624-WFP C2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.23533, -3.16102		300.0 Secs [==>]	[2]

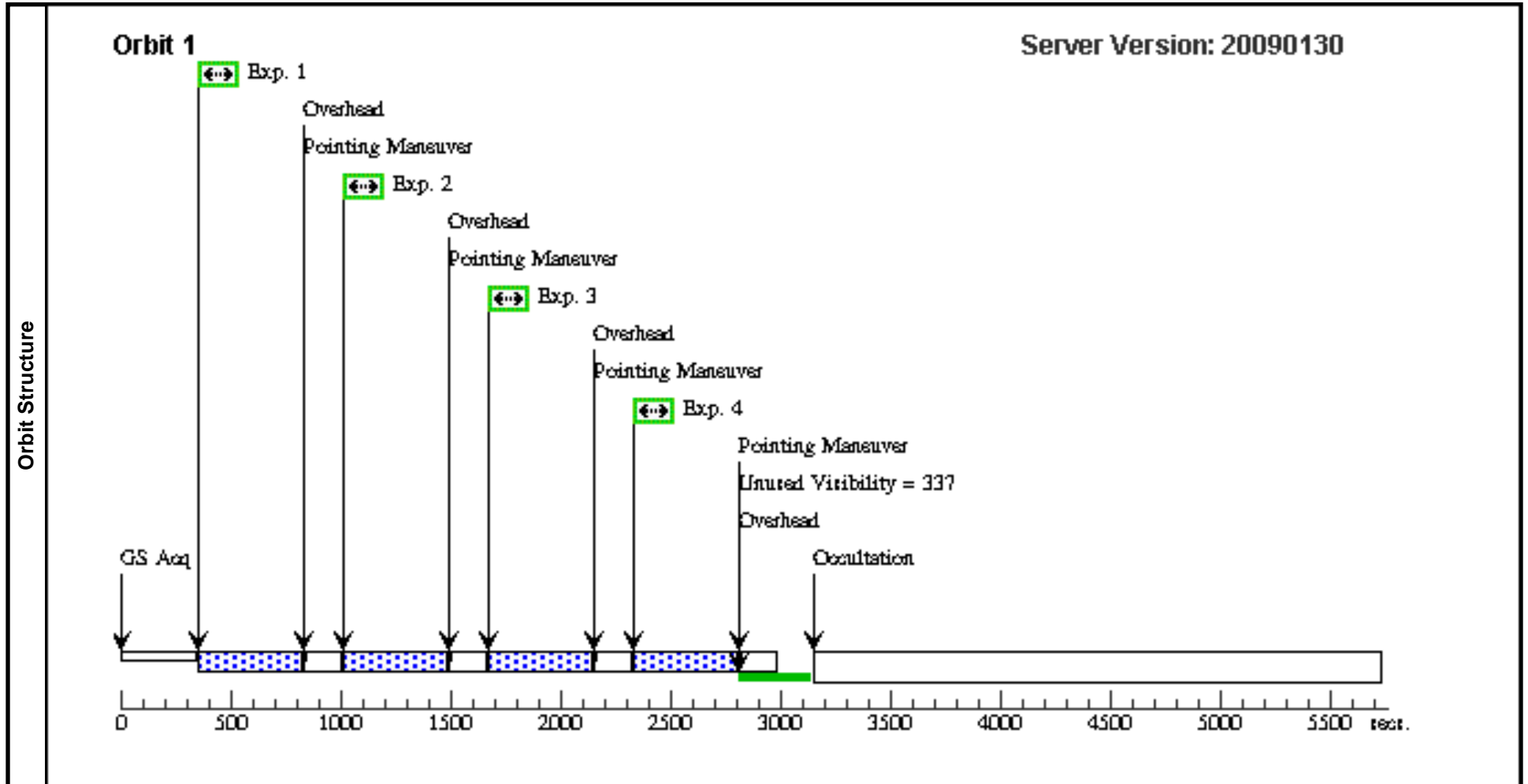


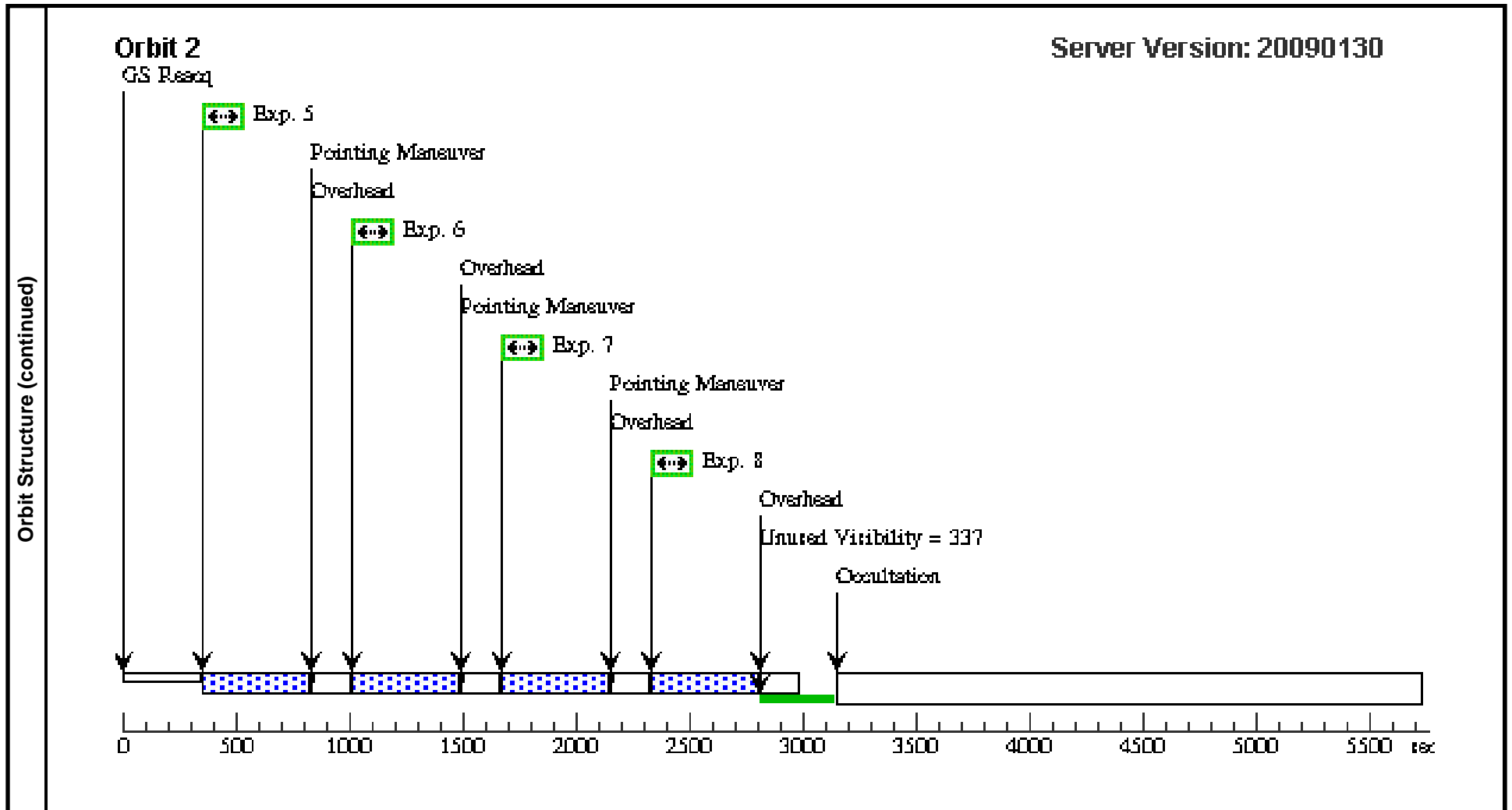


Proposal 11988 - Visit 31 - Searching for Intermediate Mass Black Holes in Globular Clusters via Proper Motions

Tue Feb 17 02:51:23 GMT 2009

Visit	Proposal 11988, Visit 31, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none) <i>Comments: Please try and schedule visits 30 - 33 at different oriens.</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(14)	NGC6624-WFPC2-POS2	RA: 18 23 40.5300 (275.9188750d) Dec: -30 21 40.70 (-30.36131d) Equinox: J2000		V=7.87	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N6624-ORI ENT2-POS1	(14) NGC6624-WFP C2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 4.57290, 0.0000		300.0 Secs [==>]	[1]
	2	N6624-ORI ENT2-POS2	(14) NGC6624-WFP C2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.22389, 3.20675		300.0 Secs [==>]	[1]
	3	N6624-ORI ENT2-POS3	(14) NGC6624-WFP C2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.00572, 4.58433		300.0 Secs [==>]	[1]
	4	N6624-ORI ENT2-POS4	(14) NGC6624-WFP C2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1701 6.3.21818		300.0 Secs [==>]	[1]
	5	N6624-ORI ENT2-POS5	(14) NGC6624-WFP C2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -4.5557 5.0.02286		300.0 Secs [==>]	[2]
	6	N6624-ORI ENT2-POS6	(14) NGC6624-WFP C2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1610 2,-3.17245		300.0 Secs [==>]	[2]
	7	N6624-ORI ENT2-POS7	(14) NGC6624-WFP C2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.01143, -4.53860		300.0 Secs [==>]	[2]
	8	N6624-ORI ENT2-POS8	(14) NGC6624-WFP C2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.23533, -3.16102		300.0 Secs [==>]	[2]

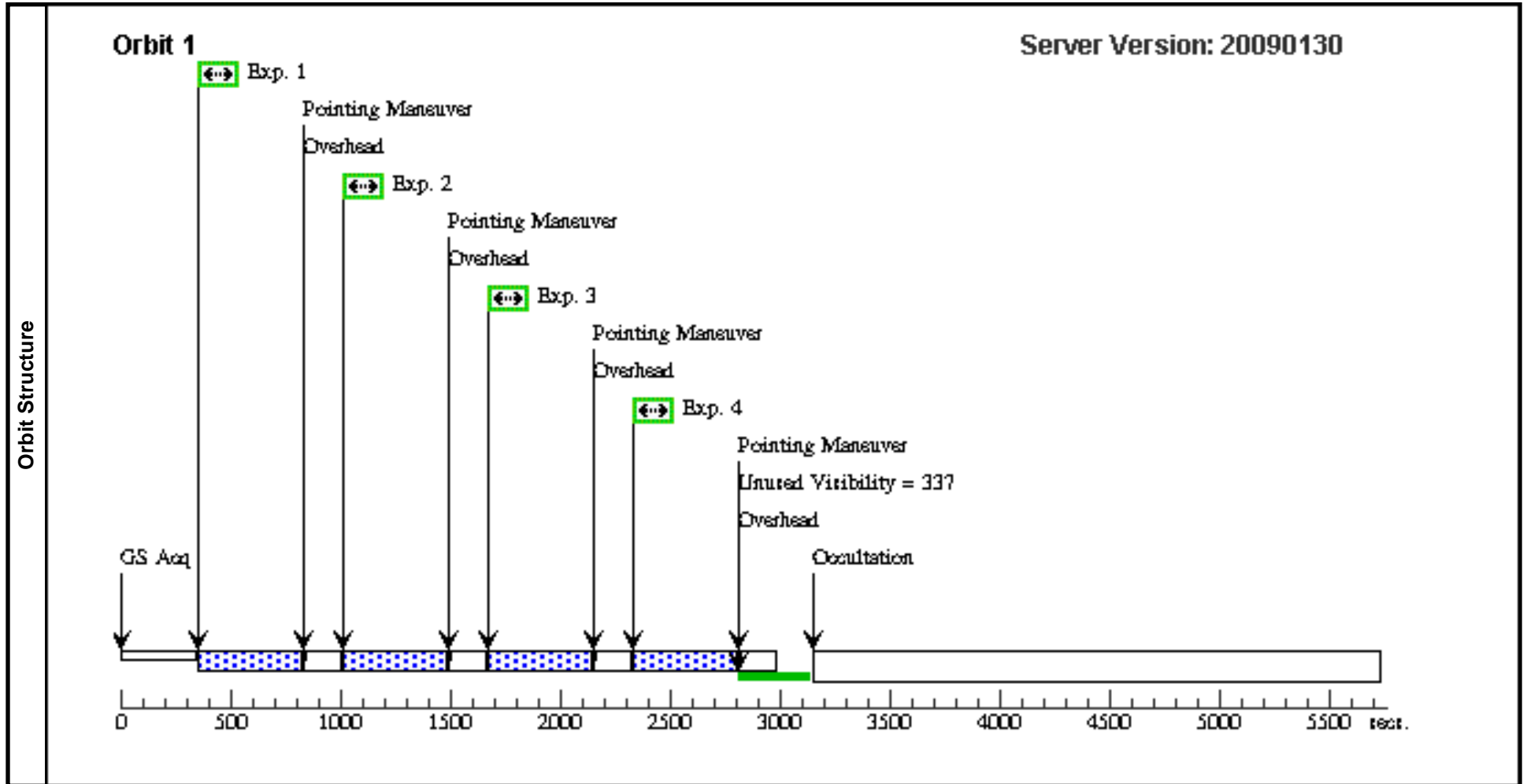


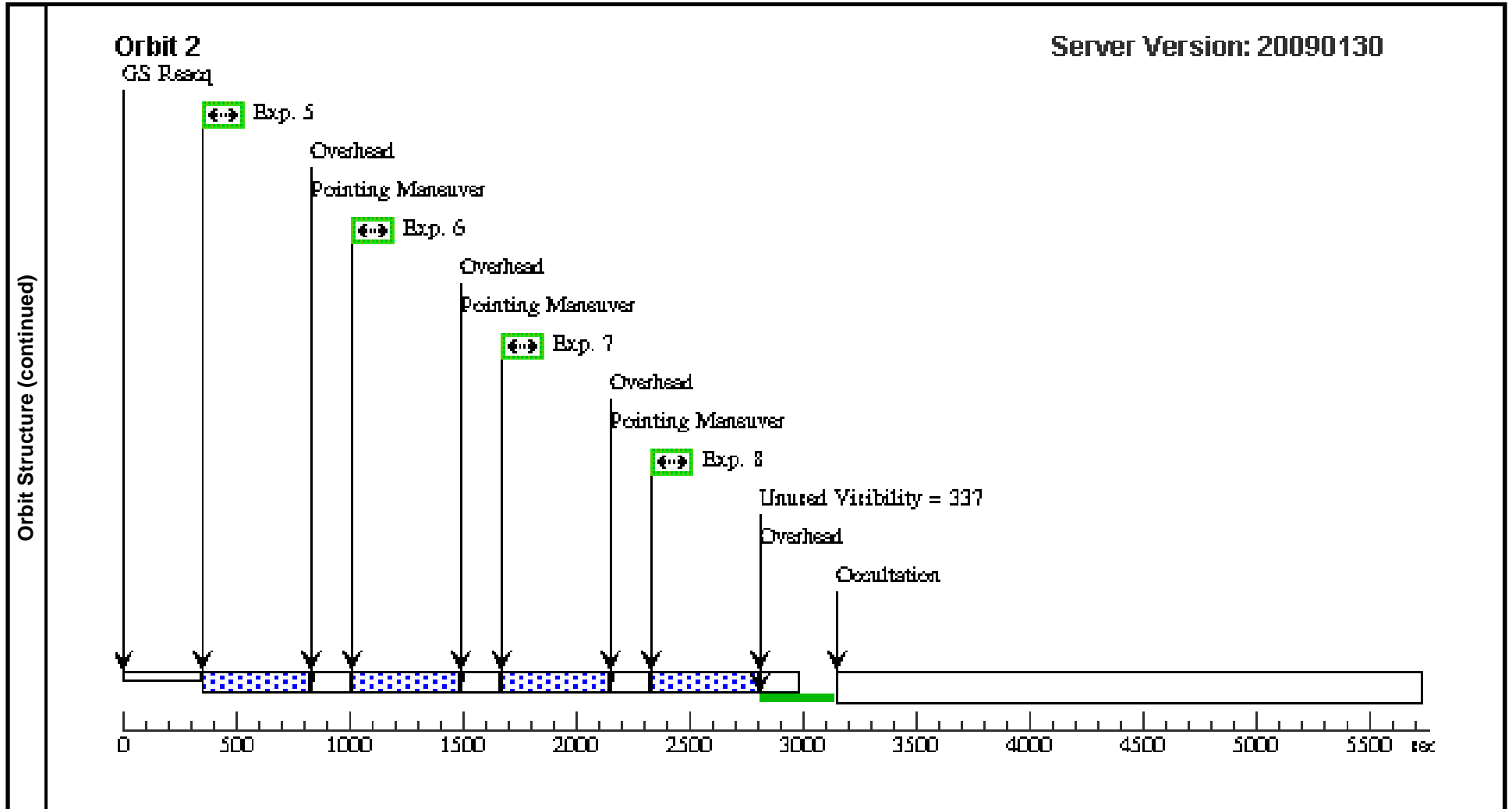


Proposal 11988 - Visit 32 - Searching for Intermediate Mass Black Holes in Globular Clusters via Proper Motions

Tue Feb 17 02:51:24 GMT 2009

Visit	Proposal 11988, Visit 32, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none) <i>Comments: Please try and schedule visits 30 - 33 at different orients.</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(15)	NGC6624-WFPC2-POS3	RA: 18 23 40.5300 (275.9188750d) Dec: -30 21 41.00 (-30.36139d) Equinox: J2000		V=7.87	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N6624-ORI ENT3-POS1	(15) NGC6624-WFP C2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 4.57290, 0.0000		300.0 Secs [==>]	[1]
	2	N6624-ORI ENT3-POS2	(15) NGC6624-WFP C2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.22389, 3.20675		300.0 Secs [==>]	[1]
	3	N6624-ORI ENT3-POS3	(15) NGC6624-WFP C2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.00572, 4.58433		300.0 Secs [==>]	[1]
	4	N6624-ORI ENT3-POS4	(15) NGC6624-WFP C2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1701 6.3.21818		300.0 Secs [==>]	[1]
	5	N6624-ORI ENT3-POS5	(15) NGC6624-WFP C2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -4.5557 5.0.02286		300.0 Secs [==>]	[2]
	6	N6624-ORI ENT3-POS6	(15) NGC6624-WFP C2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1610 2,-3.17245		300.0 Secs [==>]	[2]
	7	N6624-ORI ENT3-POS7	(15) NGC6624-WFP C2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.01143, -4.53860		300.0 Secs [==>]	[2]
	8	N6624-ORI ENT3-POS8	(15) NGC6624-WFP C2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.23533, -3.16102		300.0 Secs [==>]	[2]

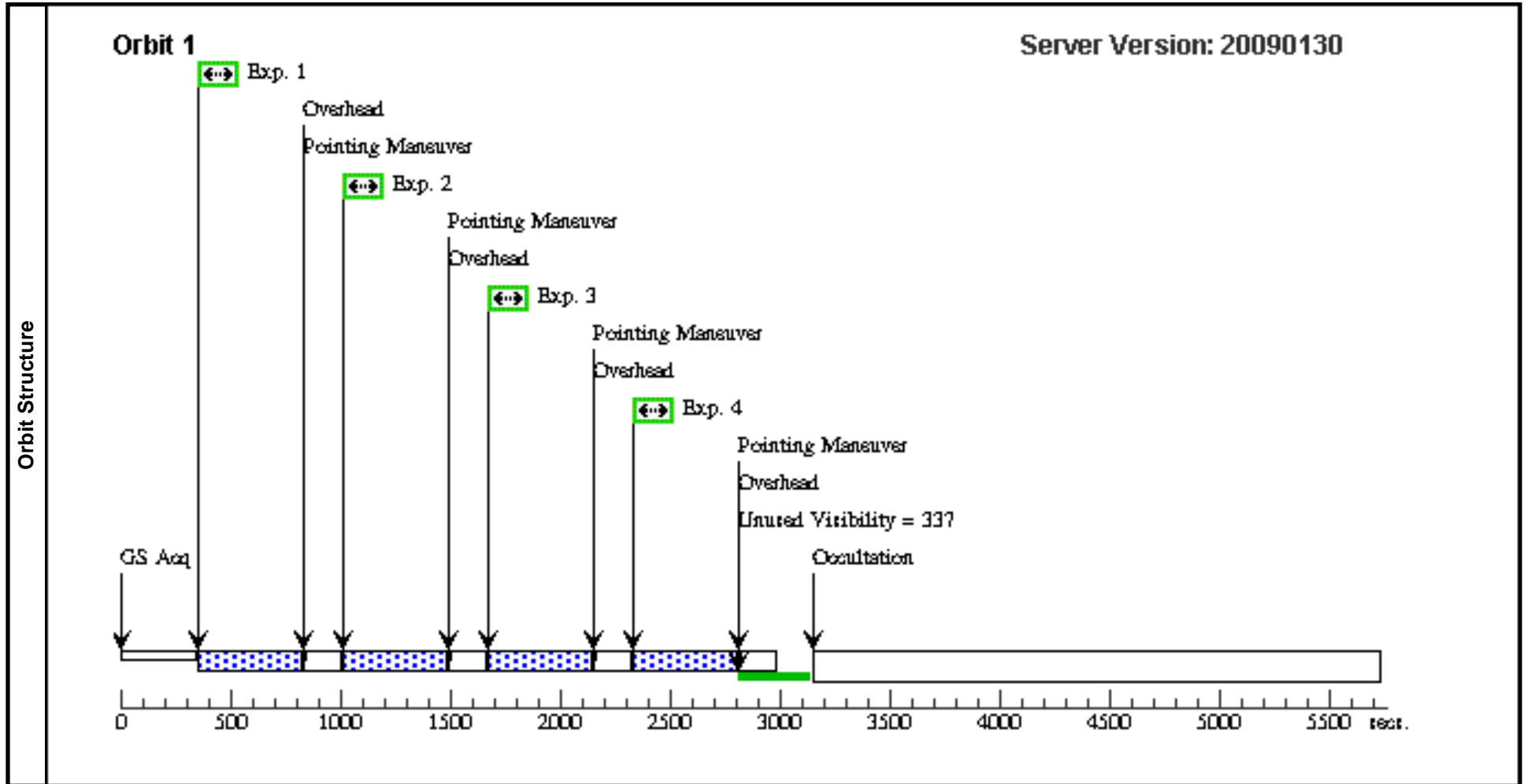


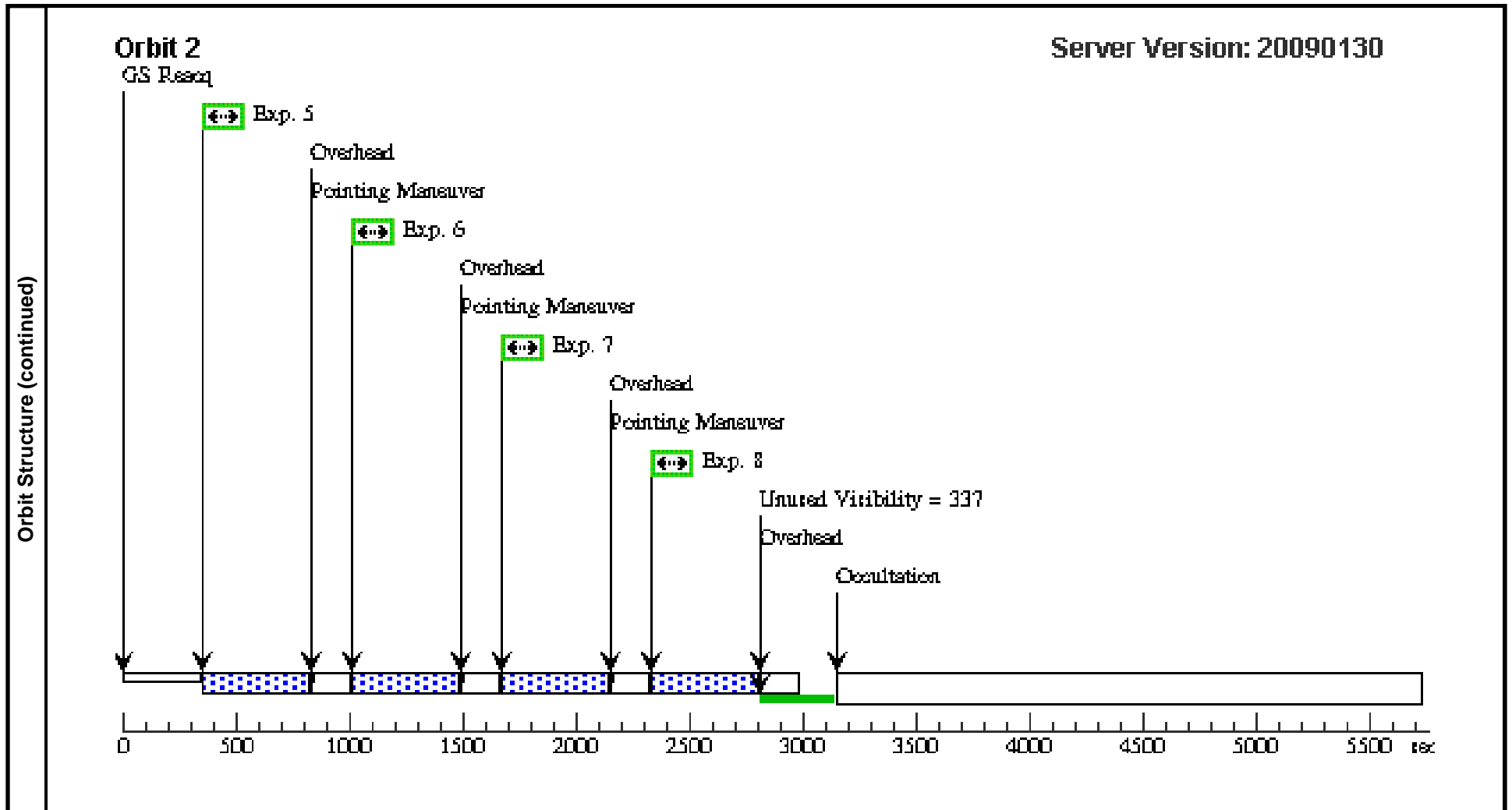


Proposal 11988 - Visit 33 - Searching for Intermediate Mass Black Holes in Globular Clusters via Proper Motions

Tue Feb 17 02:51:24 GMT 2009

Visit	Proposal 11988, Visit 33, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none) <i>Comments: Please try and schedule visits 30 - 33 at different orients.</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(16)	NGC6624-WFPC2-POS4	RA: 18 23 40.5300 (275.9188750d) Dec: -30 21 40.10 (-30.36114d) Equinox: J2000		V=7.87	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N6624-ORI ENT4-POS1	(16) NGC6624-WFP C2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 4.57290, 0.0000		300.0 Secs [==>]	[1]
	2	N6624-ORI ENT4-POS2	(16) NGC6624-WFP C2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.22389, 3.20675		300.0 Secs [==>]	[1]
	3	N6624-ORI ENT4-POS3	(16) NGC6624-WFP C2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.00572, 4.58433		300.0 Secs [==>]	[1]
	4	N6624-ORI ENT4-POS4	(16) NGC6624-WFP C2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1701 6.3.21818		300.0 Secs [==>]	[1]
	5	N6624-ORI ENT4-POS5	(16) NGC6624-WFP C2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -4.5557 5.0.02286		300.0 Secs [==>]	[2]
	6	N6624-ORI ENT4-POS6	(16) NGC6624-WFP C2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1610 2,-3.17245		300.0 Secs [==>]	[2]
	7	N6624-ORI ENT4-POS7	(16) NGC6624-WFP C2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.01143, -4.53860		300.0 Secs [==>]	[2]
	8	N6624-ORI ENT4-POS8	(16) NGC6624-WFP C2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.23533, -3.16102		300.0 Secs [==>]	[2]

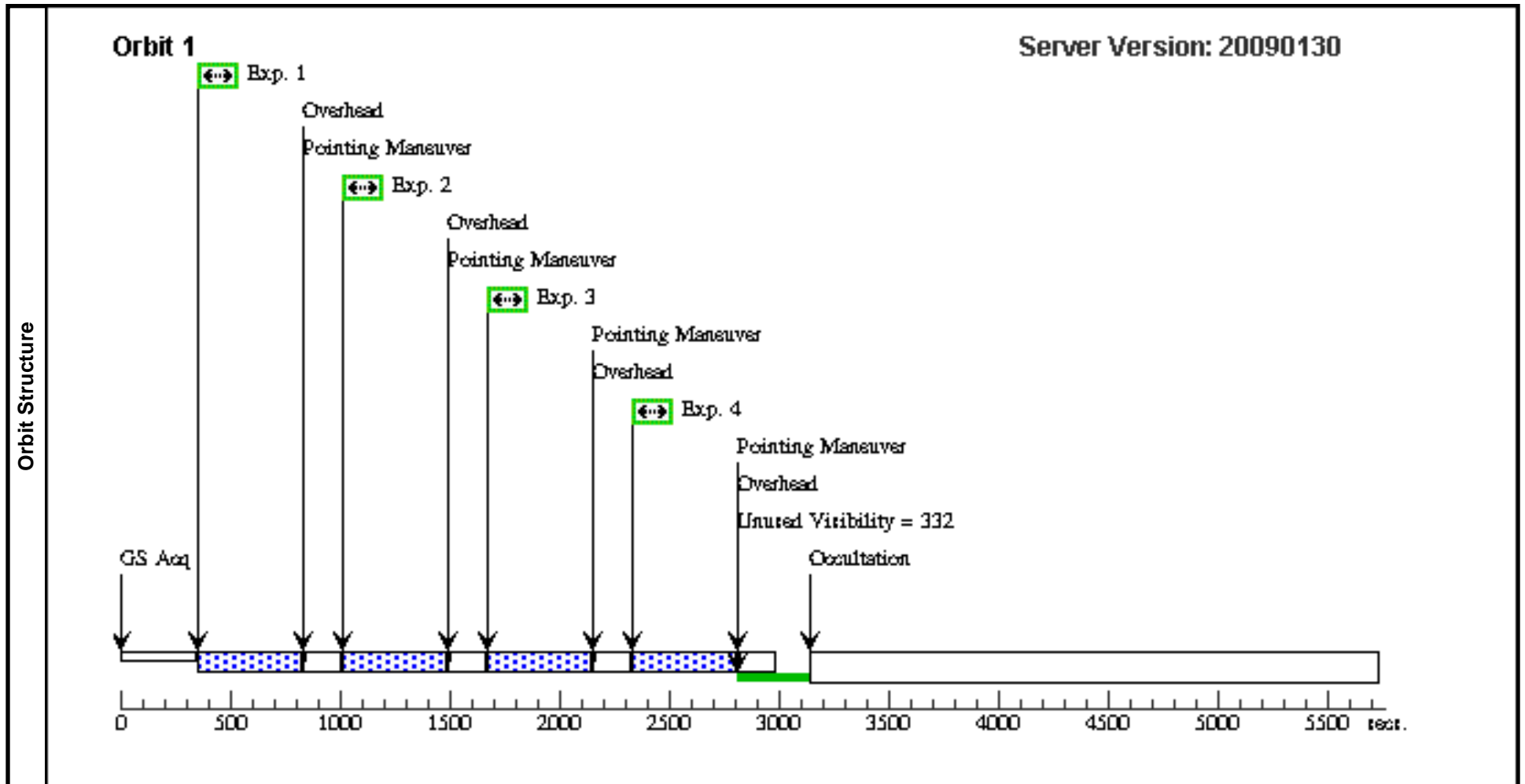


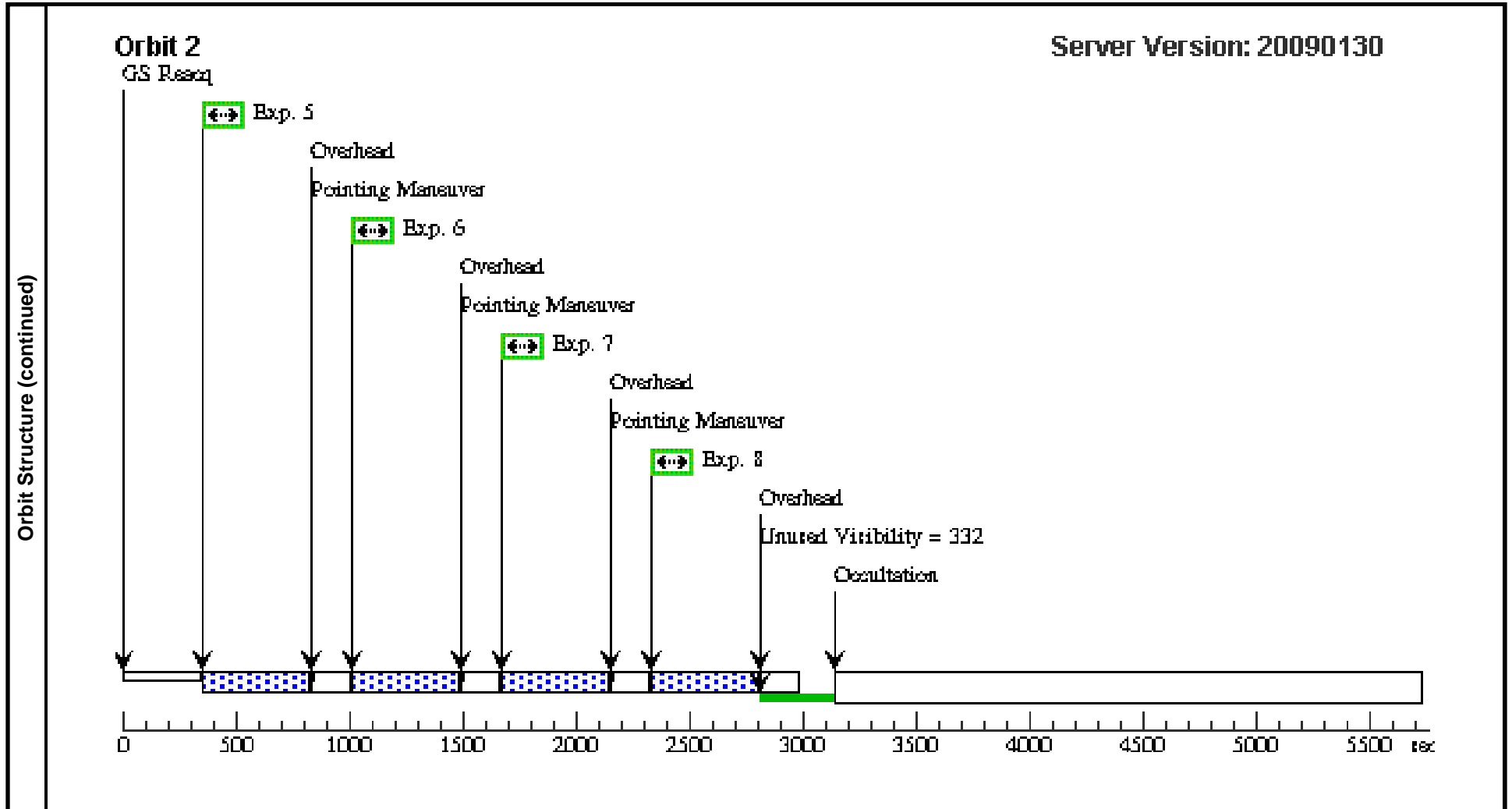


Proposal 11988 - Visit 40 - Searching for Intermediate Mass Black Holes in Globular Clusters via Proper Motions

Tue Feb 17 02:51:25 GMT 2009

Visit	Proposal 11988, Visit 40, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none) <i>Comments: Please try and schedule visits 40 - 43 at different oriens.</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NGC7099-WFPC2-POS1	RA: 21 40 22.2300 (325.0926250d) Dec: -23 10 48.00 (-23.18000d) Equinox: J2000		V=7.19	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N7099-ORI ENT1-POS1	(1) NGC7099-WFPC 2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 4.57290, 0.0000; GS ACQ SCENARI O BASE1T3		300.0 Secs [==>]	[1]
	2	N7099-ORI ENT1-POS2	(1) NGC7099-WFPC 2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.22389, 3.20675		300.0 Secs [==>]	[1]
	3	N7099-ORI ENT1-POS3	(1) NGC7099-WFPC 2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.00572, 4.58433		300.0 Secs [==>]	[1]
	4	N7099-ORI ENT1-POS4	(1) NGC7099-WFPC 2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1701 6,3.21818		300.0 Secs [==>]	[1]
	5	N7099-ORI ENT1-POS5	(1) NGC7099-WFPC 2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -4.5557 5,0.02286		300.0 Secs [==>]	[2]
	6	N7099-ORI ENT1-POS6	(1) NGC7099-WFPC 2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1610 2,-3.17245		300.0 Secs [==>]	[2]
	7	N7099-ORI ENT1-POS7	(1) NGC7099-WFPC 2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.01143, -4.5386		300.0 Secs [==>]	[2]
	8	N7099-ORI ENT1-POS8	(1) NGC7099-WFPC 2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.23533, -3.16102		300.0 Secs [==>]	[2]

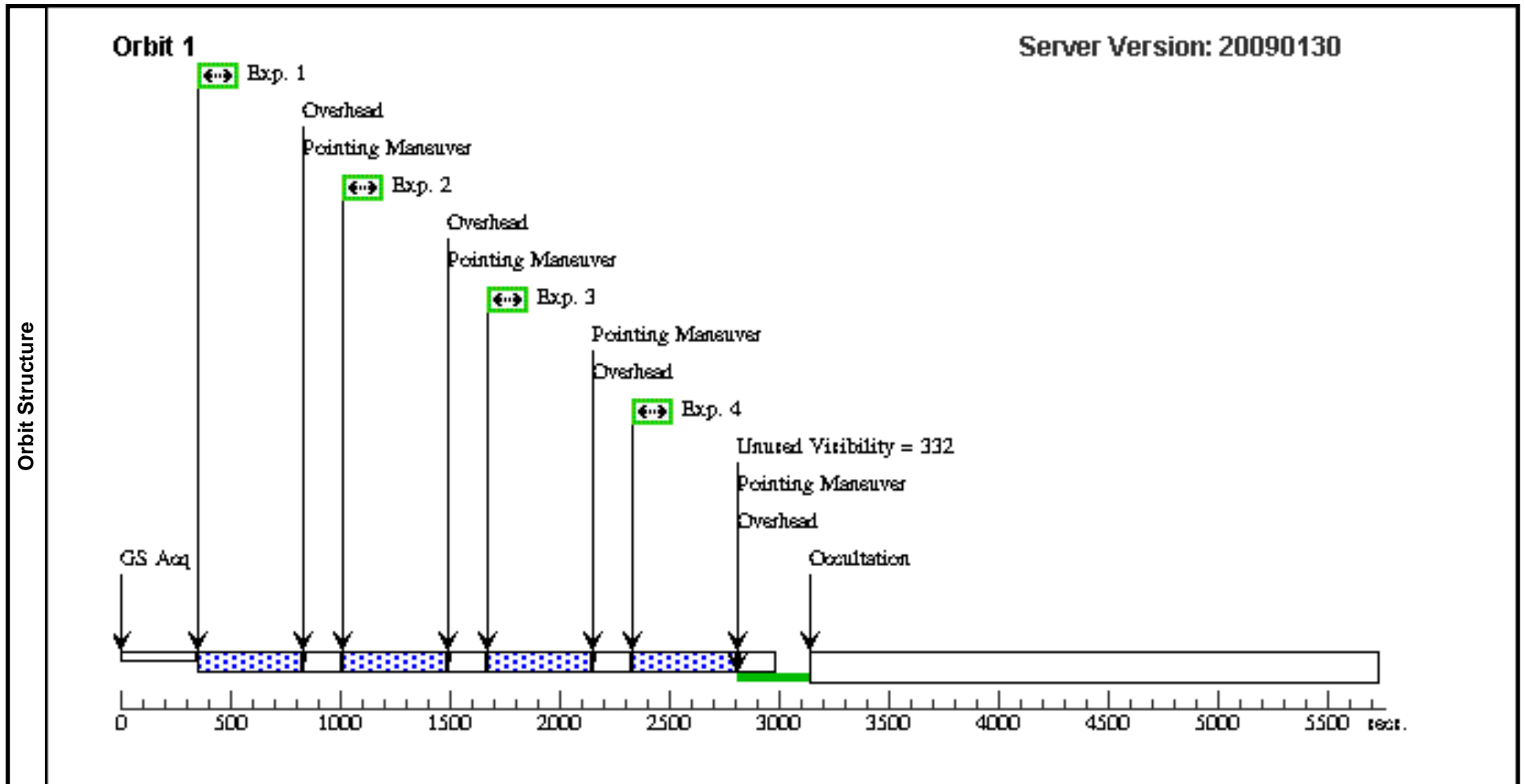


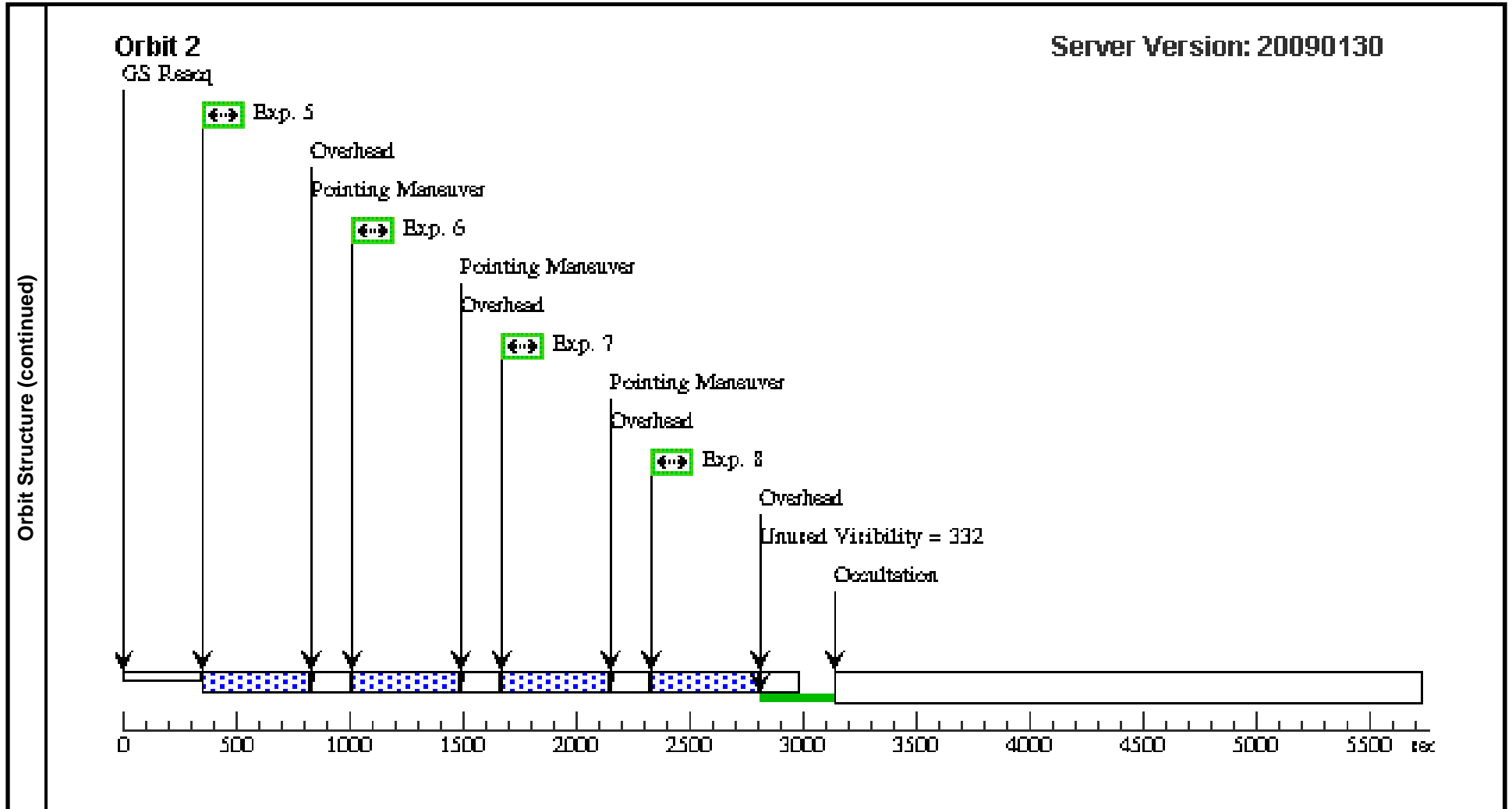


Proposal 11988 - Visit 41 - Searching for Intermediate Mass Black Holes in Globular Clusters via Proper Motions

Tue Feb 17 02:51:25 GMT 2009

Visit	Proposal 11988, Visit 41, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none) <i>Comments: Please try and schedule visits 40 - 43 at different oriens.</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(2)	NGC7099-WFPC2-POS2	RA: 21 40 22.2300 (325.0926250d) Dec: -23 10 48.30 (-23.18008d) Equinox: J2000		V=7.19	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N7099-ORI ENT2-POS1	(2) NGC7099-WFPC 2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 4.57290, 0.0000; GS ACQ SCENARI O BASE1T3		300.0 Secs [==>]	[1]
	2	N7099-ORI ENT2-POS2	(2) NGC7099-WFPC 2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.22389, 3.20675		300.0 Secs [==>]	[1]
	3	N7099-ORI ENT2-POS3	(2) NGC7099-WFPC 2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.00572, 4.58433		300.0 Secs [==>]	[1]
	4	N7099-ORI ENT2-POS4	(2) NGC7099-WFPC 2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1701 6,3.21818		300.0 Secs [==>]	[1]
	5	N7099-ORI ENT2-POS5	(2) NGC7099-WFPC 2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -4.5557 5,0.02286		300.0 Secs [==>]	[2]
	6	N7099-ORI ENT2-POS6	(2) NGC7099-WFPC 2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1610 2,-3.17245		300.0 Secs [==>]	[2]
	7	N7099-ORI ENT2-POS7	(2) NGC7099-WFPC 2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.01143, -4.5386		300.0 Secs [==>]	[2]
	8	N7099-ORI ENT2-POS8	(2) NGC7099-WFPC 2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.23533, -3.16102		300.0 Secs [==>]	[2]

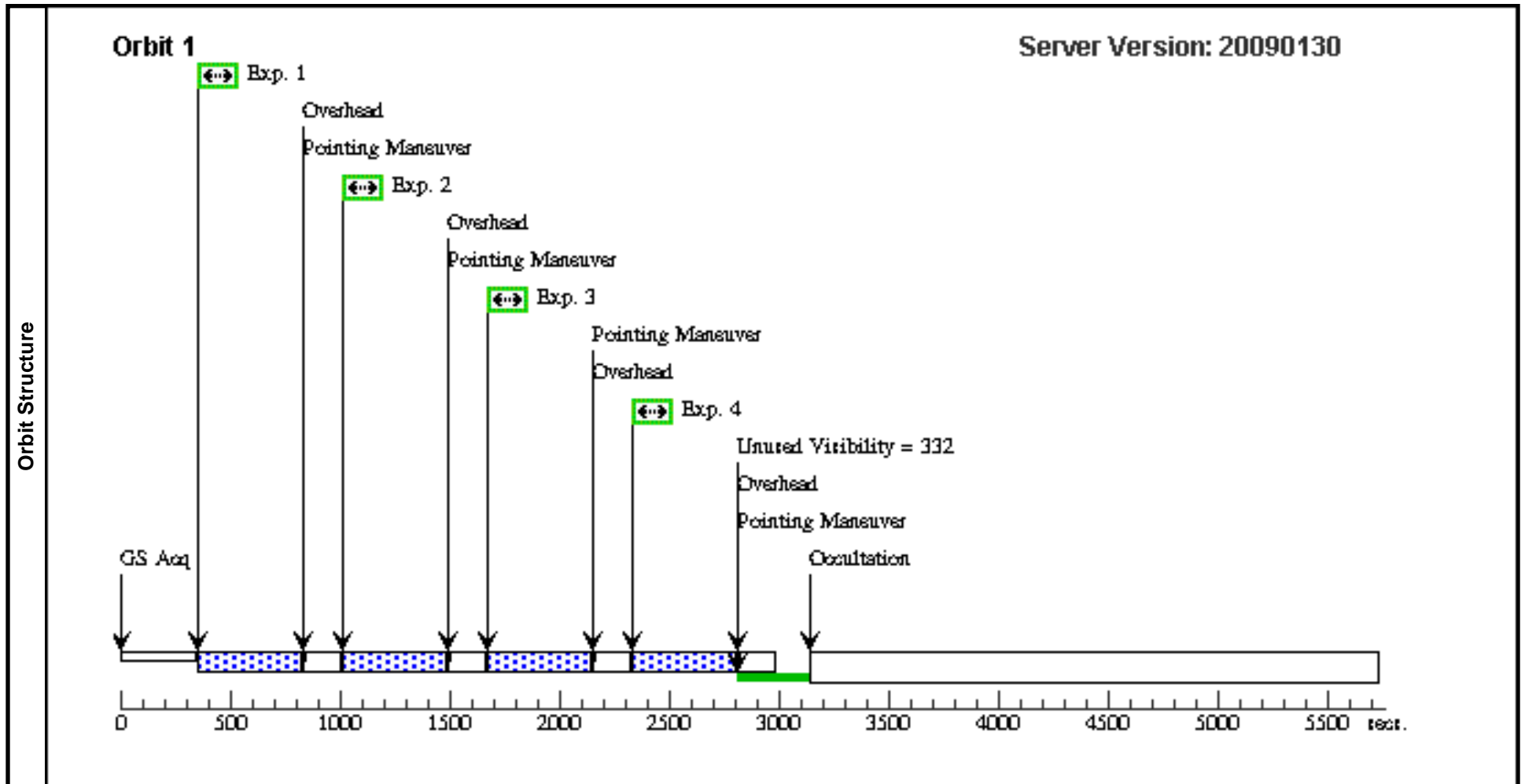


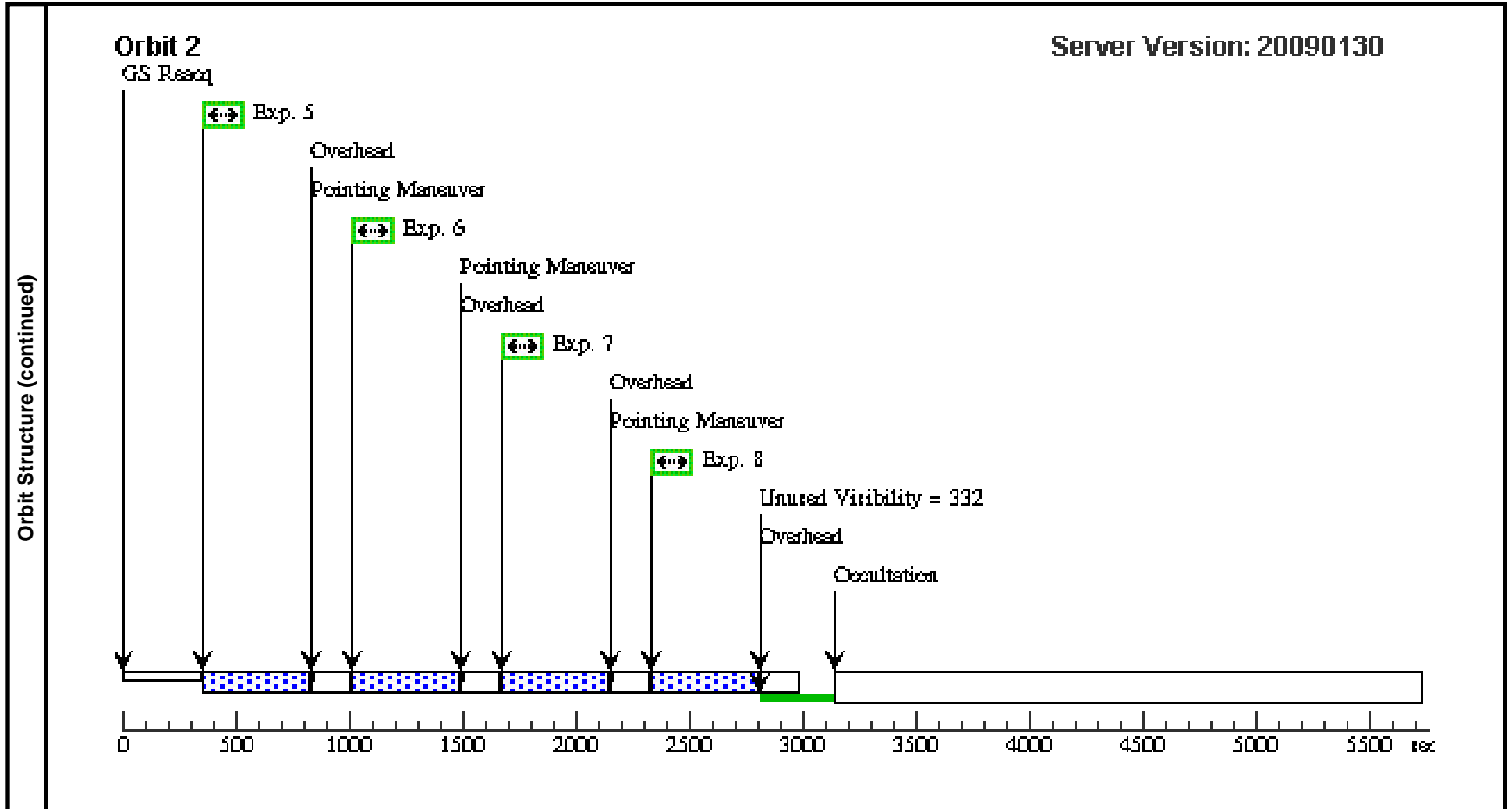


Proposal 11988 - Visit 42 - Searching for Intermediate Mass Black Holes in Globular Clusters via Proper Motions

Tue Feb 17 02:51:25 GMT 2009

Visit	Proposal 11988, Visit 42, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none) <i>Comments: Please try and schedule visits 40 - 43 at different oriens.</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(3)	NGC7099-WFPC2-POS3	RA: 21 40 22.2300 (325.0926250d) Dec: -23 10 48.60 (-23.18017d) Equinox: J2000		V=7.19	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N7099-ORI ENT3-POS1	(3) NGC7099-WFPC 2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 4.57290, 0.0000; GS ACQ SCENARI O BASE1T3		300.0 Secs [==>]	[1]
	2	N7099-ORI ENT3-POS2	(3) NGC7099-WFPC 2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.22389, 3.20675		300.0 Secs [==>]	[1]
	3	N7099-ORI ENT3-POS3	(3) NGC7099-WFPC 2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.00572, 4.58433		300.0 Secs [==>]	[1]
	4	N7099-ORI ENT3-POS4	(3) NGC7099-WFPC 2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1701 6,3.21818		300.0 Secs [==>]	[1]
	5	N7099-ORI ENT3-POS5	(3) NGC7099-WFPC 2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -4.5557 5,0.02286		300.0 Secs [==>]	[2]
	6	N7099-ORI ENT3-POS6	(3) NGC7099-WFPC 2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1610 2,-3.17245		300.0 Secs [==>]	[2]
	7	N7099-ORI ENT3-POS7	(3) NGC7099-WFPC 2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.01143, -4.5386		300.0 Secs [==>]	[2]
	8	N7099-ORI ENT3-POS8	(3) NGC7099-WFPC 2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.23533, -3.16102		300.0 Secs [==>]	[2]

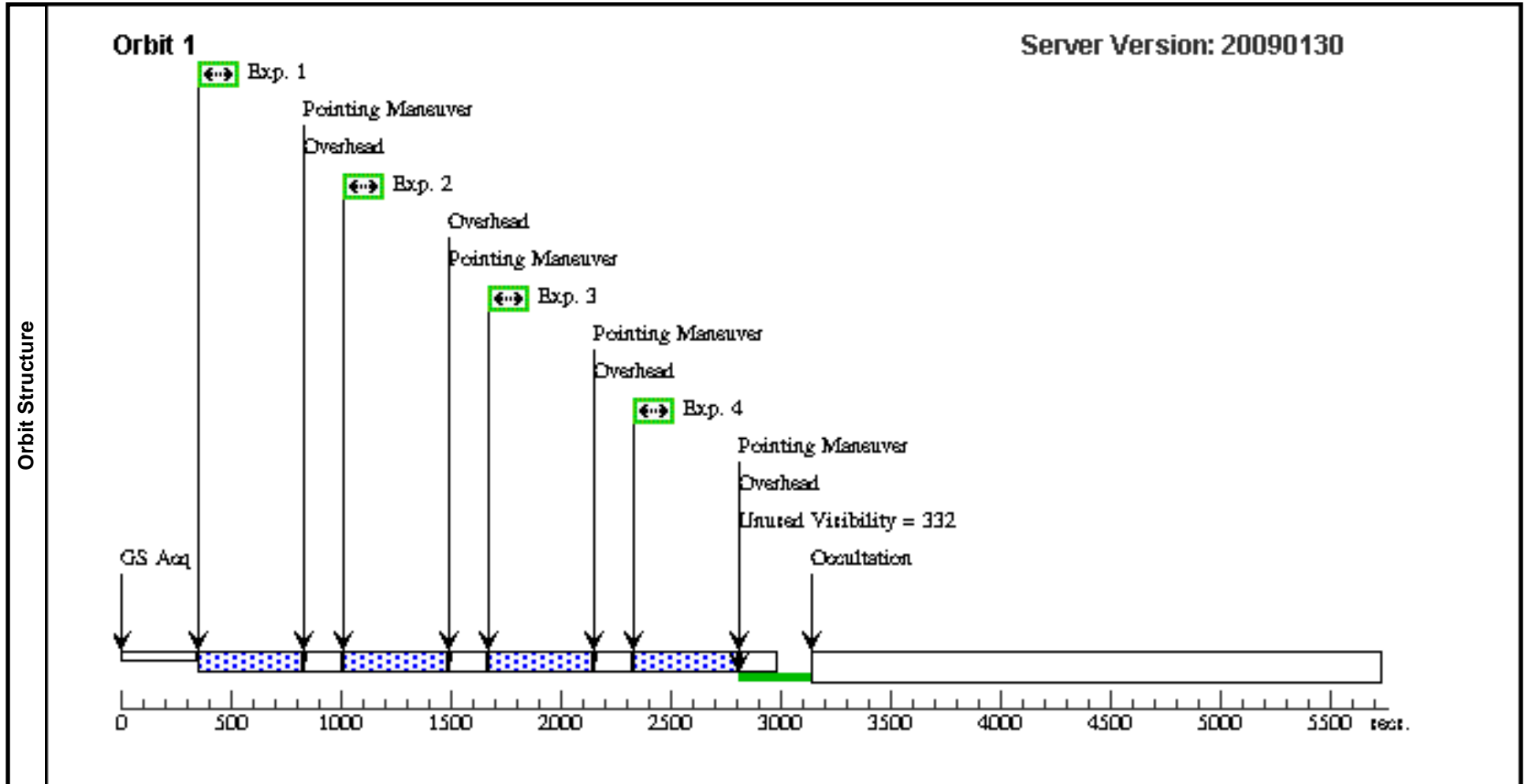


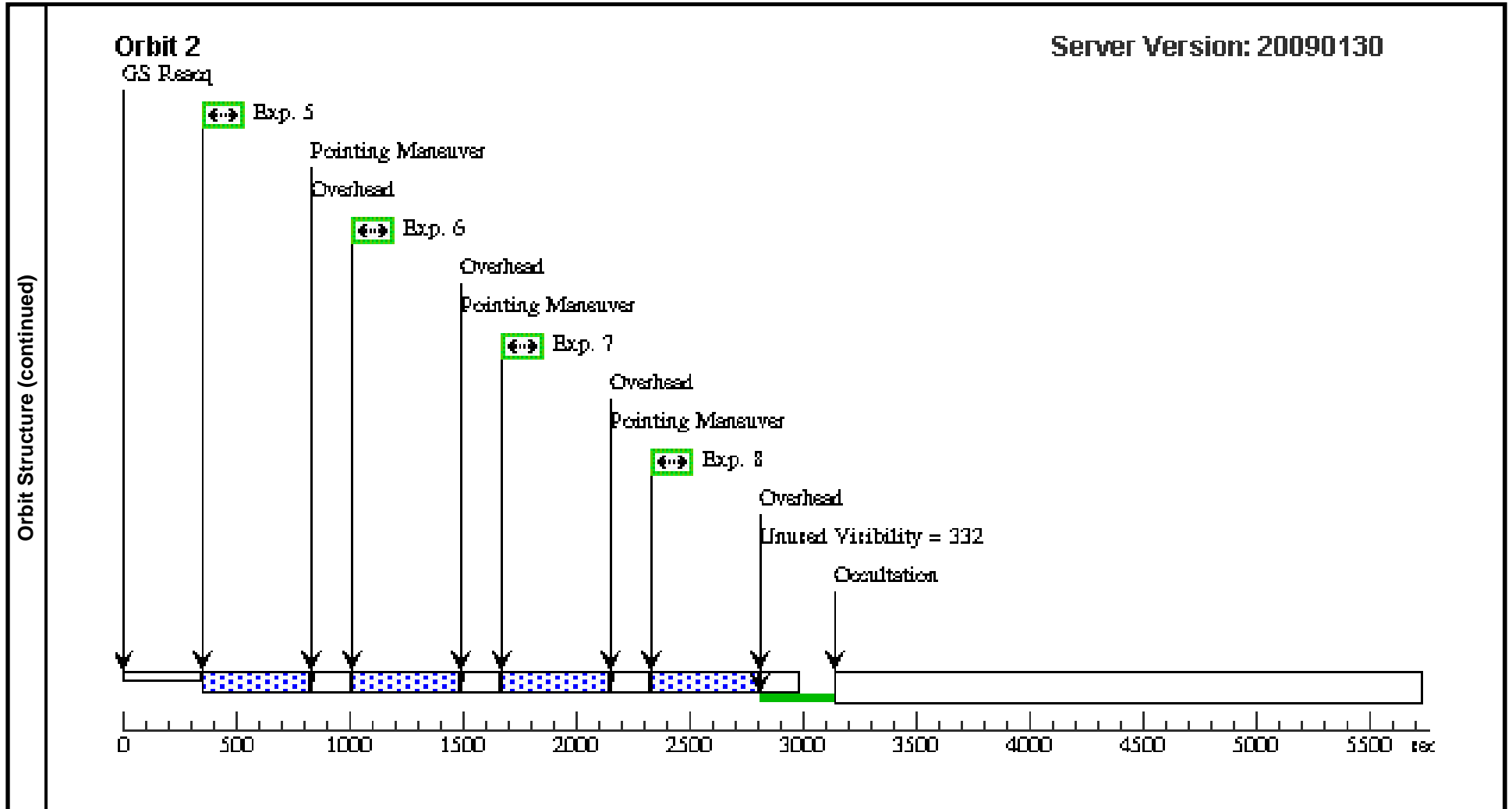


Proposal 11988 - Visit 43 - Searching for Intermediate Mass Black Holes in Globular Clusters via Proper Motions

Tue Feb 17 02:51:26 GMT 2009

Visit	Proposal 11988, Visit 43, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none) <i>Comments: Please try and schedule visits 40 - 43 at different orients.</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(4)	NGC7099-WFPC2-POS4	RA: 21 40 22.2300 (325.0926250d) Dec: -23 10 47.70 (-23.17992d) Equinox: J2000		V=7.19	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N7099-ORI ENT4-POS1	(4) NGC7099-WFPC 2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 4.57290, 0.0000; GS ACQ SCENARI O BASE1T3		300.0 Secs [==>]	[1]
	2	N7099-ORI ENT4-POS2	(4) NGC7099-WFPC 2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.22389, 3.20675		300.0 Secs [==>]	[1]
	3	N7099-ORI ENT4-POS3	(4) NGC7099-WFPC 2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.00572, 4.58433		300.0 Secs [==>]	[1]
	4	N7099-ORI ENT4-POS4	(4) NGC7099-WFPC 2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1701 6,3.21818		300.0 Secs [==>]	[1]
	5	N7099-ORI ENT4-POS5	(4) NGC7099-WFPC 2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -4.5557 5,0.02286		300.0 Secs [==>]	[2]
	6	N7099-ORI ENT4-POS6	(4) NGC7099-WFPC 2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1610 2,-3.17245		300.0 Secs [==>]	[2]
	7	N7099-ORI ENT4-POS7	(4) NGC7099-WFPC 2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.01143, -4.5386		300.0 Secs [==>]	[2]
8	N7099-ORI ENT4-POS8	(4) NGC7099-WFPC 2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.23533, -3.16102		300.0 Secs [==>]	[2]	

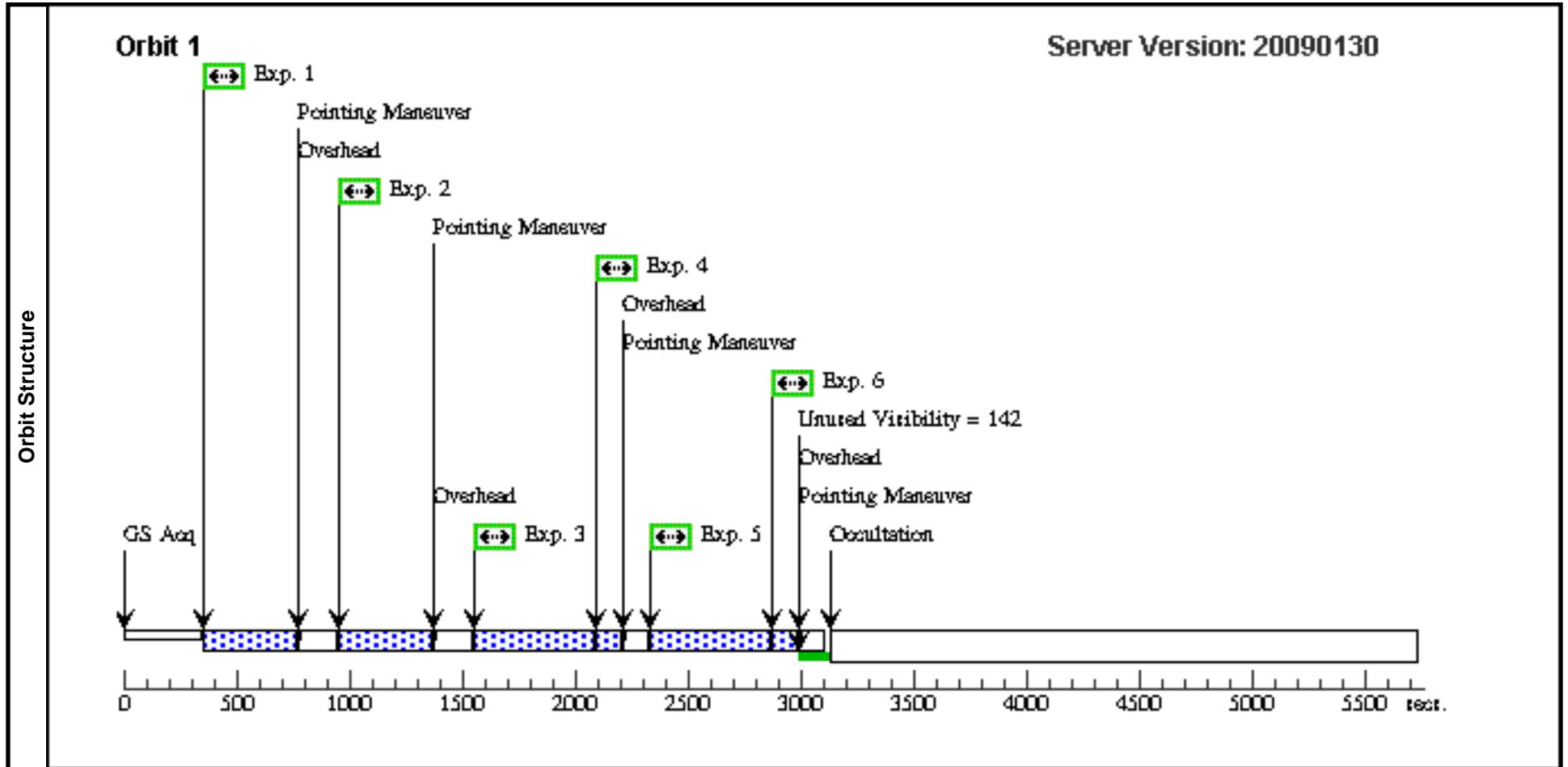


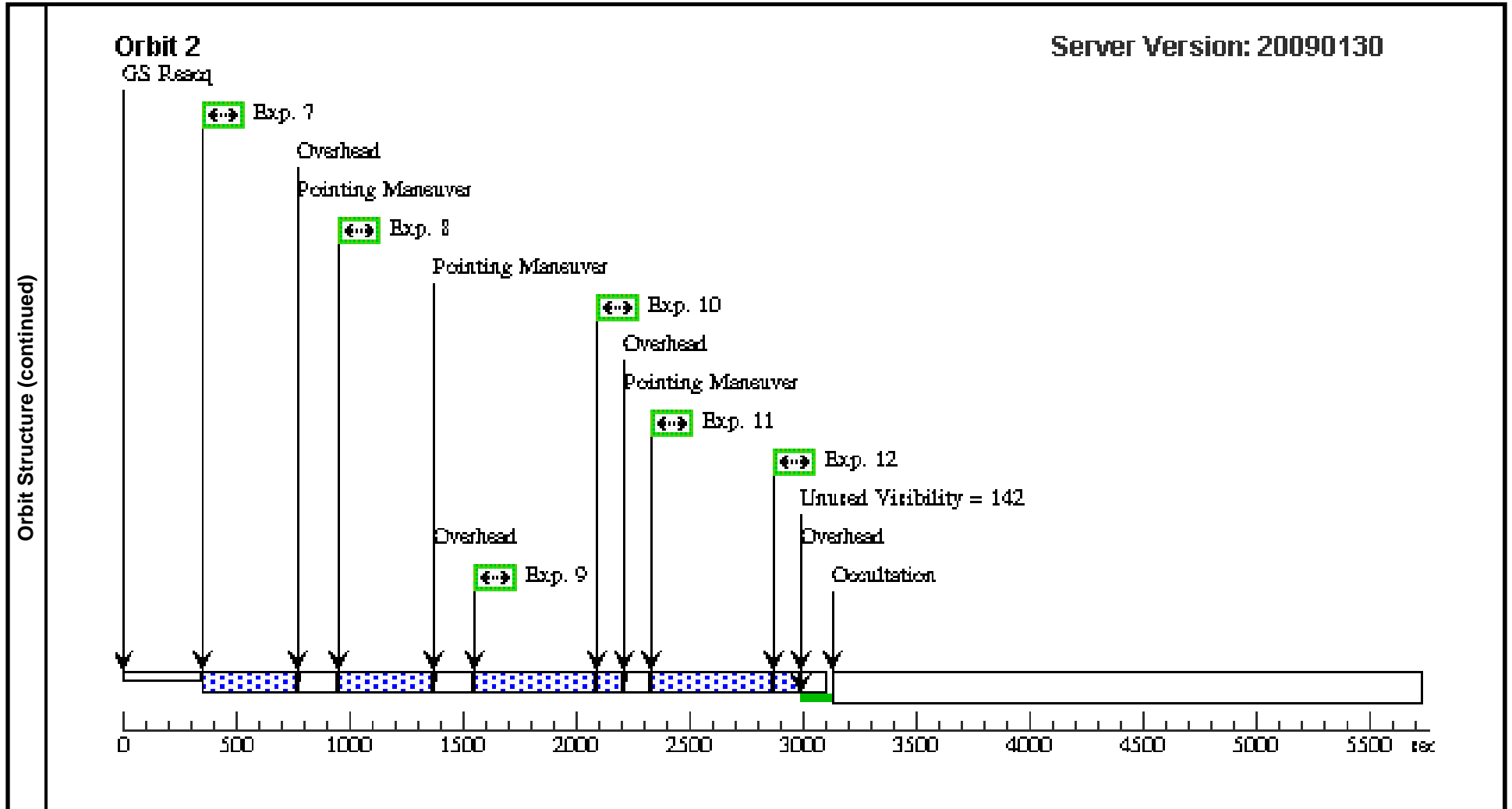


Proposal 11988 - Visit 50 - Searching for Intermediate Mass Black Holes in Globular Clusters via Proper Motions

Tue Feb 17 02:51:27 GMT 2009

Visit	Proposal 11988, Visit 50, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none) <i>Comments: Please try and schedule visits 50 - 53 at different orients.</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(17)	NGC7078-WFPC2-POS1	RA: 21 29 58.3000 (322.4929167d) Dec: +12 10 1.00 (12.16694d) Equinox: J2000		V=6.2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N7078-ORI ENT1-POS1	(17) NGC7078-WFP C2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 4.57290, 0.00000		260.0 Secs [==>]	[1]
	2	N7078-ORI ENT1-POS2	(17) NGC7078-WFP C2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.22389, 3.20675		260.0 Secs [==>]	[1]
	3	N7078-ORI ENT1-POS3	(17) NGC7078-WFP C2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.00572, 4.58433		260.0 Secs [==>]	[1]
	4	N7078-ORI ENT1-POS3 s	(17) NGC7078-WFP C2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.00572, 4.58433		70.0 Secs [==>]	[1]
	5	N7078-ORI ENT1-POS4	(17) NGC7078-WFP C2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1701 6.3.21818		260.0 Secs [==>]	[1]
	6	N7078-ORI ENT1-POS4 s	(17) NGC7078-WFP C2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1701 6.3.21818		70.0 Secs [==>]	[1]
	7	N7078-ORI ENT1-POS5	(17) NGC7078-WFP C2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -4.5557 5.0.02286		260.0 Secs [==>]	[2]
	8	N7078-ORI ENT1-POS6	(17) NGC7078-WFP C2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1610 2,-3.17245		260.0 Secs [==>]	[2]
	9	N7078-ORI ENT1-POS7	(17) NGC7078-WFP C2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.01143, -4.53860		260.0 Secs [==>]	[2]
	10	N7078-ORI ENT1-POS7 s	(17) NGC7078-WFP C2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.01143, -4.53860		70.0 Secs [==>]	[2]
	11	N7078-ORI ENT1-POS8	(17) NGC7078-WFP C2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.23533, -3.16102		260.0 Secs [==>]	[2]
12	N7078-ORI ENT1-POS8 s	(17) NGC7078-WFP C2-POS1	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.23533, -3.16102		70.0 Secs [==>]	[2]	

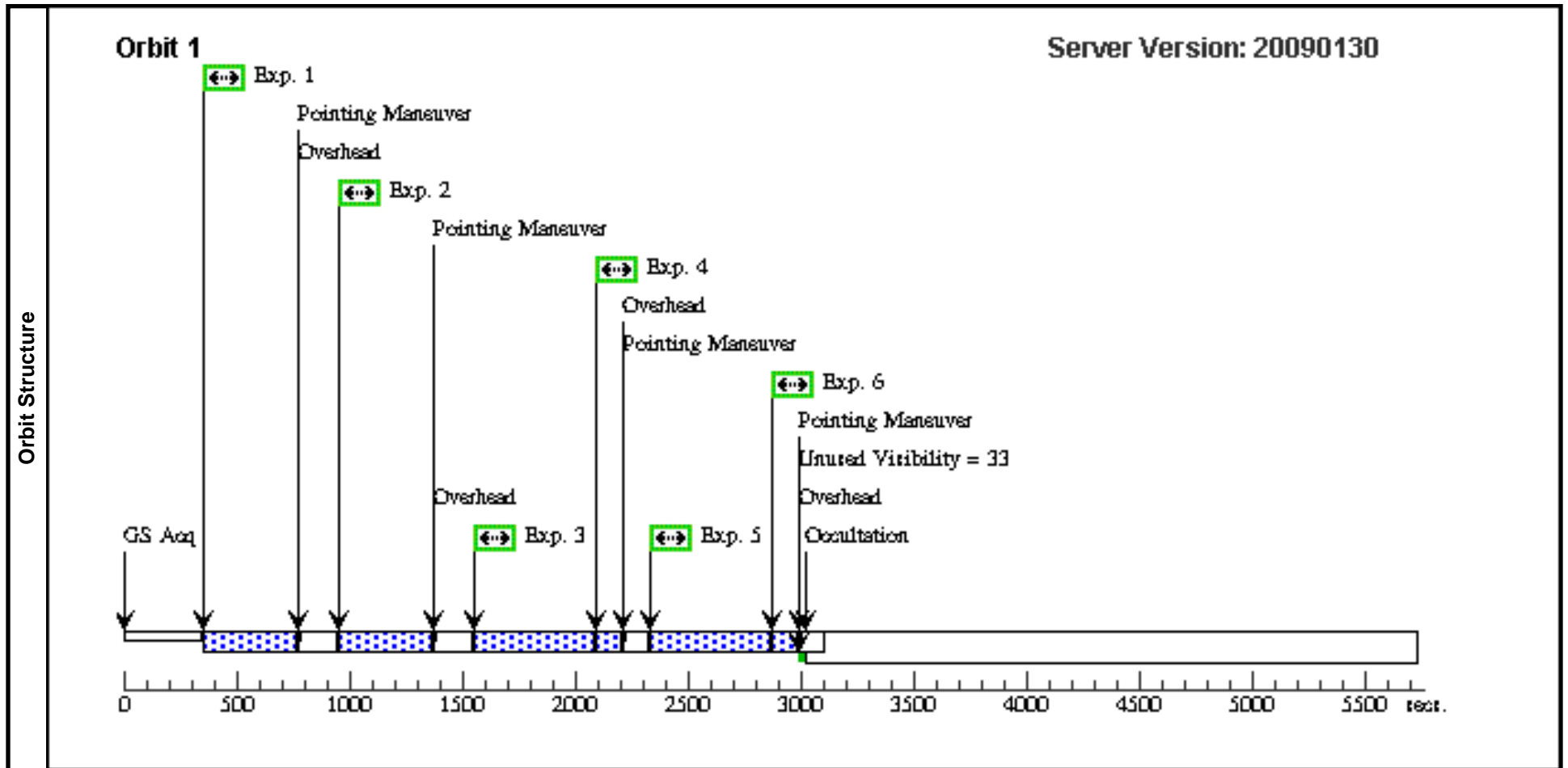


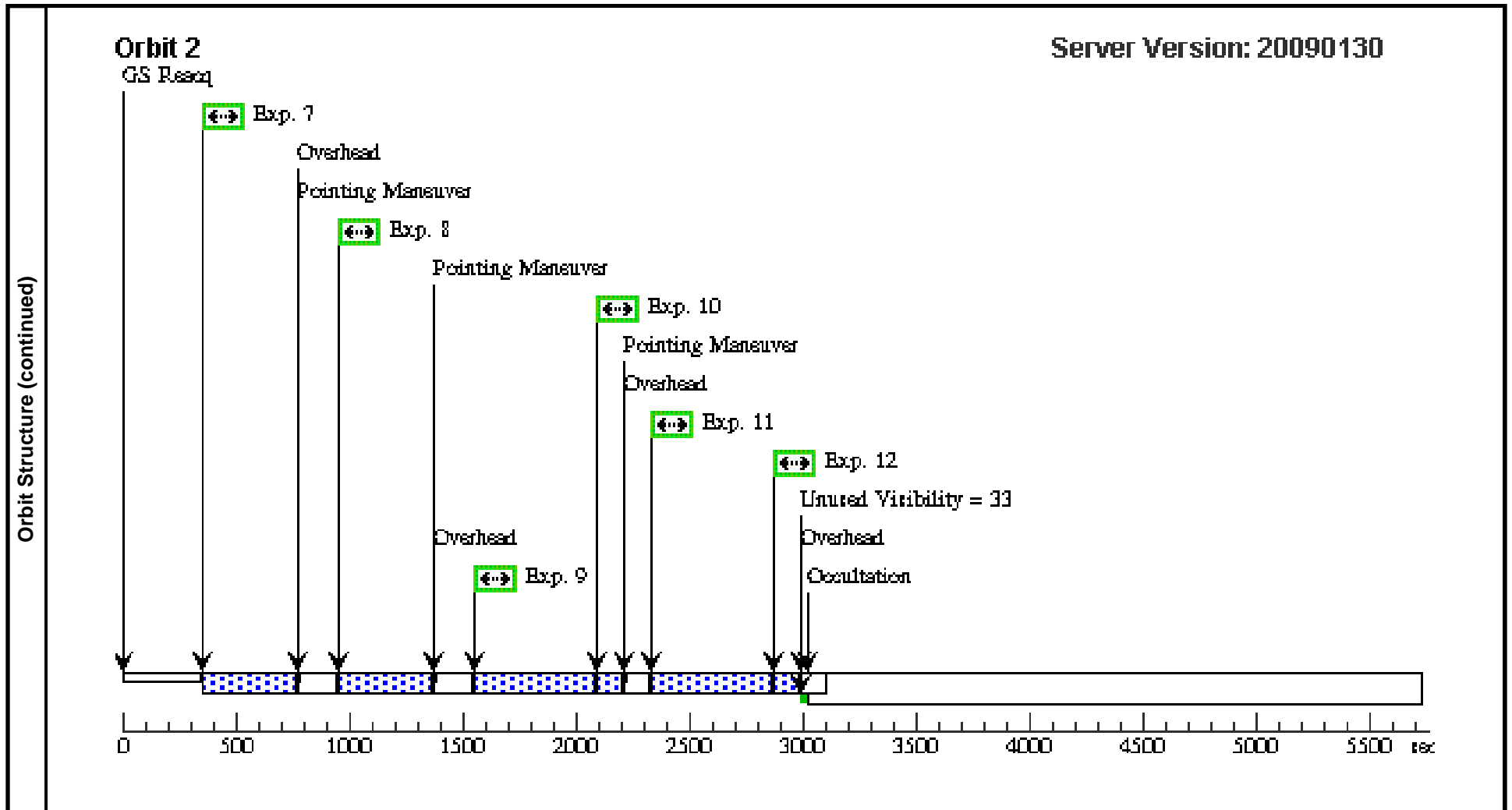


Proposal 11988 - Visit 51 - Searching for Intermediate Mass Black Holes in Globular Clusters via Proper Motions

Tue Feb 17 02:51:27 GMT 2009

Visit	Proposal 11988, Visit 51, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: SCHED 100% <i>Comments: Please try and schedule visits 50 - 53 at different orients.</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(18)	NGC7078-WFPC2-POS2	RA: 21 29 58.3000 (322.4929167d) Dec: +12 10 1.30 (12.16703d) Equinox: J2000		V=6.2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N7078-ORI ENT2-POS1	(18) NGC7078-WFP C2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 4.57290, 0.00000		260.0 Secs [==>]	[1]
	2	N7078-ORI ENT2-POS2	(18) NGC7078-WFP C2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.22389, 3.20675		260.0 Secs [==>]	[1]
	3	N7078-ORI ENT2-POS3	(18) NGC7078-WFP C2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.00572, 4.58433		260.0 Secs [==>]	[1]
	4	N7078-ORI ENT2-POS3 s	(18) NGC7078-WFP C2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.00572, 4.58433		70.0 Secs [==>]	[1]
	5	N7078-ORI ENT2-POS4	(18) NGC7078-WFP C2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1701 6.3.21818		260.0 Secs [==>]	[1]
	6	N7078-ORI ENT2-POS4 s	(18) NGC7078-WFP C2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1701 6.3.21818		70.0 Secs [==>]	[1]
	7	N7078-ORI ENT2-POS5	(18) NGC7078-WFP C2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -4.5557 5.0.02286		260.0 Secs [==>]	[2]
	8	N7078-ORI ENT2-POS6	(18) NGC7078-WFP C2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1610 2,-3.17245		260.0 Secs [==>]	[2]
	9	N7078-ORI ENT2-POS7	(18) NGC7078-WFP C2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.01143, -4.53860		260.0 Secs [==>]	[2]
	10	N7078-ORI ENT2-POS7 s	(18) NGC7078-WFP C2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.01143, -4.53860		70.0 Secs [==>]	[2]
	11	N7078-ORI ENT2-POS8	(18) NGC7078-WFP C2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.23533, -3.16102		260.0 Secs [==>]	[2]
12	N7078-ORI ENT2-POS8 s	(18) NGC7078-WFP C2-POS2	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.23533, -3.16102		70.0 Secs [==>]	[2]	

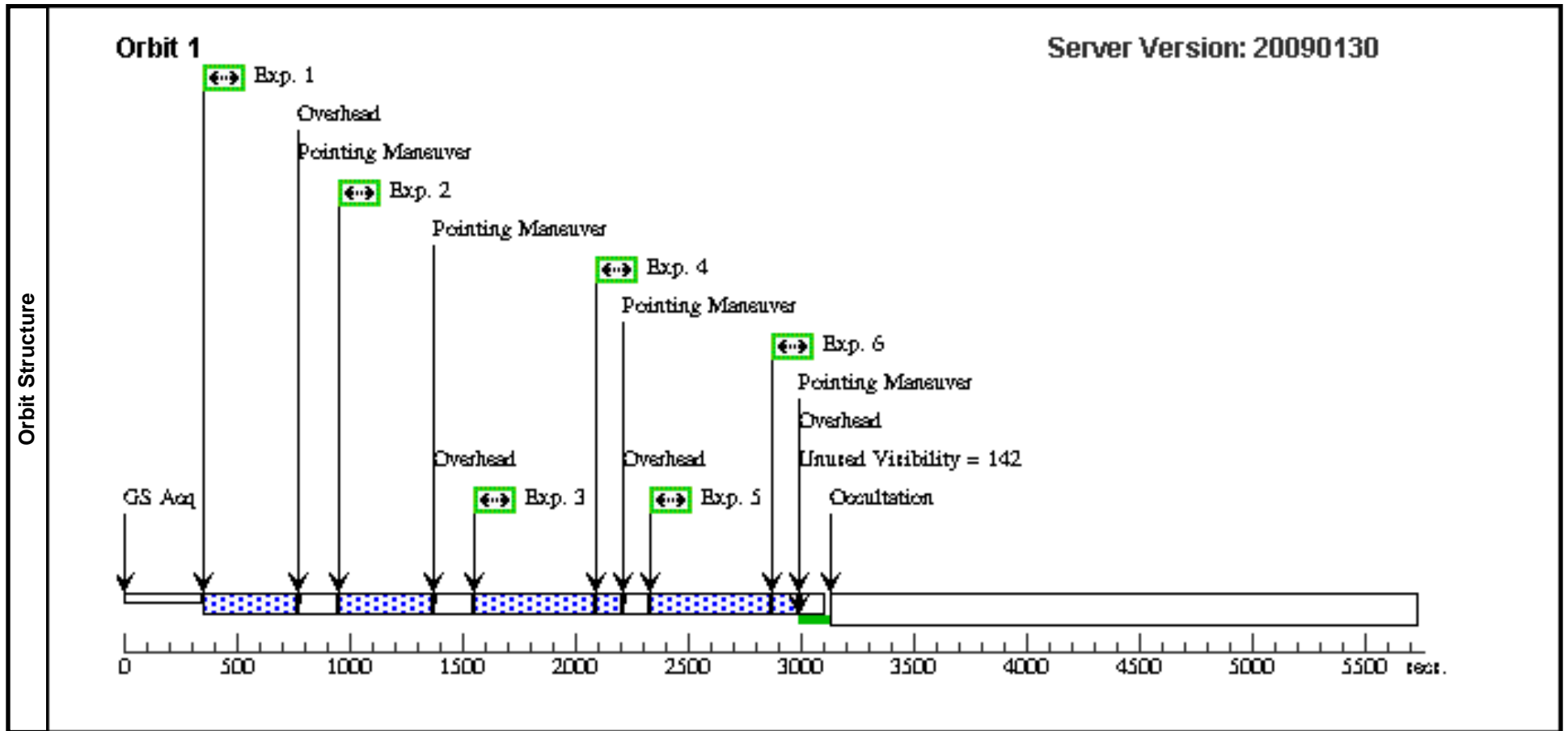


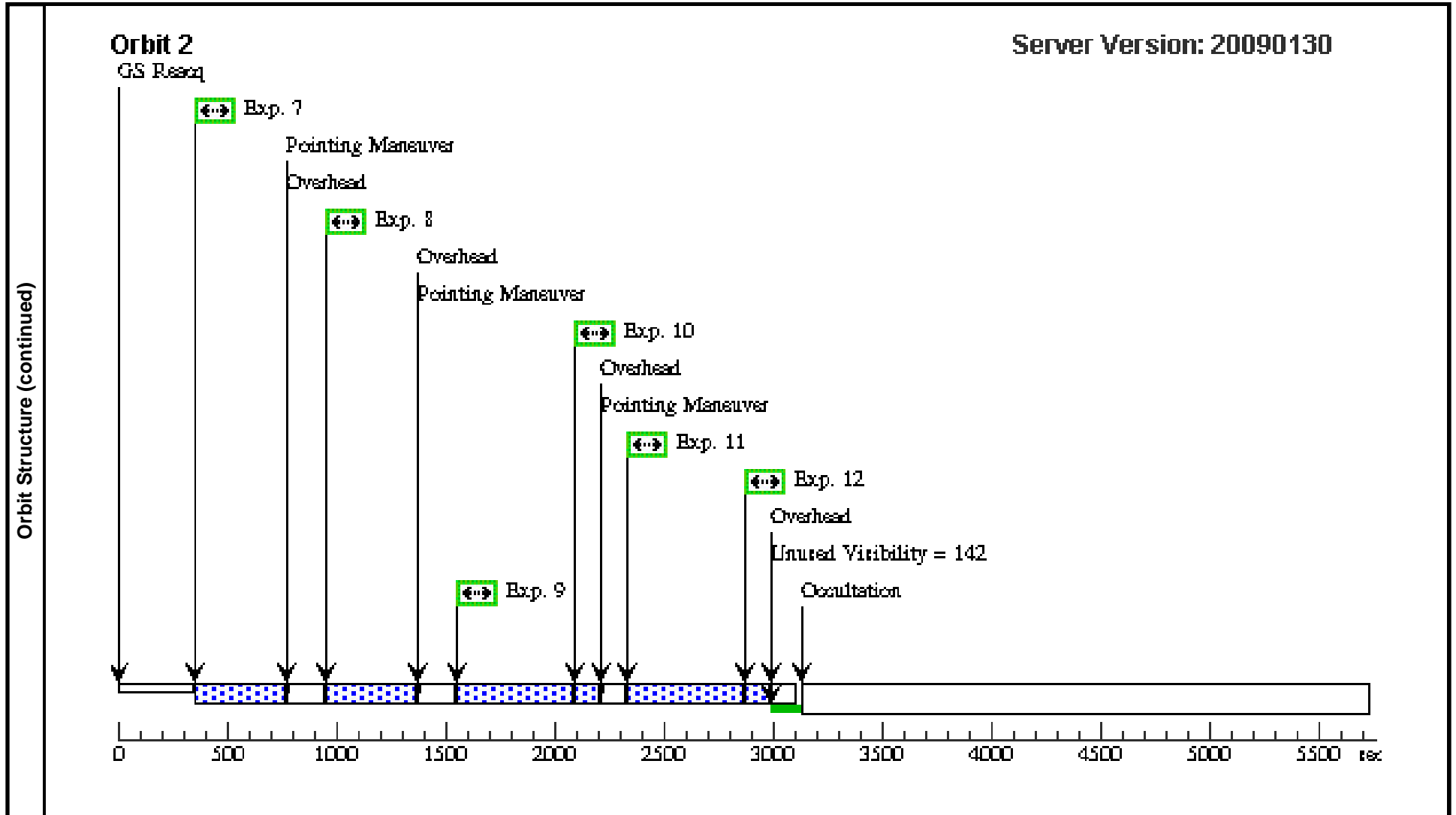


Proposal 11988 - Visit 52 - Searching for Intermediate Mass Black Holes in Globular Clusters via Proper Motions

Tue Feb 17 02:51:28 GMT 2009

Visit	Proposal 11988, Visit 52, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none) <i>Comments: Please try and schedule visits 50 - 53 at different oriens.</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(19)	NGC7078-WFPC2-POS3	RA: 21 29 58.3000 (322.4929167d) Dec: +12 10 1.60 (12.16711d) Equinox: J2000		V=6.2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N7078-ORI ENT3-POS1	(19) NGC7078-WFP C2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 4.57290, 0.00000		260.0 Secs [==>]	[1]
	2	N7078-ORI ENT3-POS2	(19) NGC7078-WFP C2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.22389, 3.20675		260.0 Secs [==>]	[1]
	3	N7078-ORI ENT3-POS3	(19) NGC7078-WFP C2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.00572, 4.58433		260.0 Secs [==>]	[1]
	4	N7078-ORI ENT3-POS3 s	(19) NGC7078-WFP C2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.00572, 4.58433		70.0 Secs [==>]	[1]
	5	N7078-ORI ENT3-POS4	(19) NGC7078-WFP C2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1701 6.3.21818		260.0 Secs [==>]	[1]
	6	N7078-ORI ENT3-POS4 s	(19) NGC7078-WFP C2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1701 6.3.21818		70.0 Secs [==>]	[1]
	7	N7078-ORI ENT3-POS5	(19) NGC7078-WFP C2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -4.5557 5.0.02286		260.0 Secs [==>]	[2]
	8	N7078-ORI ENT3-POS6	(19) NGC7078-WFP C2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1610 2,-3.17245		260.0 Secs [==>]	[2]
	9	N7078-ORI ENT3-POS7	(19) NGC7078-WFP C2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.01143, -4.53860		260.0 Secs [==>]	[2]
	10	N7078-ORI ENT3-POS7 s	(19) NGC7078-WFP C2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.01143, -4.53860		70.0 Secs [==>]	[2]
	11	N7078-ORI ENT3-POS8	(19) NGC7078-WFP C2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.23533, -3.16102		260.0 Secs [==>]	[2]
12	N7078-ORI ENT3-POS8 s	(19) NGC7078-WFP C2-POS3	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.23533, -3.16102		70.0 Secs [==>]	[2]	





Proposal 11988 - Visit 53 - Searching for Intermediate Mass Black Holes in Globular Clusters via Proper Motions

Tue Feb 17 02:51:28 GMT 2009

Visit	Proposal 11988, Visit 53, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none) <i>Comments: Please try and schedule visits 50 - 53 at different orients.</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(20)	NGC7078-WFPC2-POS4	RA: 21 29 58.3000 (322.4929167d) Dec: +12 10 0.70 (12.16686d) Equinox: J2000		V=6.2	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	N7078-ORI ENT4-POS1	(20) NGC7078-WFP C2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 4.57290, 0.00000		260.0 Secs [==>]	[1]
	2	N7078-ORI ENT4-POS2	(20) NGC7078-WFP C2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.22389, 3.20675		260.0 Secs [==>]	[1]
	3	N7078-ORI ENT4-POS3	(20) NGC7078-WFP C2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.00572, 4.58433		260.0 Secs [==>]	[1]
	4	N7078-ORI ENT4-POS3 s	(20) NGC7078-WFP C2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.00572, 4.58433		70.0 Secs [==>]	[1]
	5	N7078-ORI ENT4-POS4	(20) NGC7078-WFP C2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1701 6.3.21818		260.0 Secs [==>]	[1]
	6	N7078-ORI ENT4-POS4 s	(20) NGC7078-WFP C2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1701 6.3.21818		70.0 Secs [==>]	[1]
	7	N7078-ORI ENT4-POS5	(20) NGC7078-WFP C2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -4.5557 5.0.02286		260.0 Secs [==>]	[2]
	8	N7078-ORI ENT4-POS6	(20) NGC7078-WFP C2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG -3.1610 2,-3.17245		260.0 Secs [==>]	[2]
	9	N7078-ORI ENT4-POS7	(20) NGC7078-WFP C2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.01143, -4.53860		260.0 Secs [==>]	[2]
	10	N7078-ORI ENT4-POS7 s	(20) NGC7078-WFP C2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 0.01143, -4.53860		70.0 Secs [==>]	[2]
	11	N7078-ORI ENT4-POS8	(20) NGC7078-WFP C2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.23533, -3.16102		260.0 Secs [==>]	[2]
12	N7078-ORI ENT4-POS8 s	(20) NGC7078-WFP C2-POS4	WFPC2, IMAGE, PC1-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=15	POS TARG 3.23533, -3.16102		70.0 Secs [==>]	[2]	

