



## 11980 - Deep FUV Imaging of Cooling Flow Clusters

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>
01	(22) WBL360	ACS/SBC	1	20-Mar-2009 21:46:01.0	yes
02	(2) ABELL-1644	ACS/SBC	1	20-Mar-2009 21:46:06.0	yes
03	(3) ABELL-1650	ACS/SBC	1	20-Mar-2009 21:46:09.0	yes
04	(6) ABELL-1837	ACS/SBC	1	20-Mar-2009 21:46:12.0	yes
05	(7) ABELL-1991	ACS/SBC	1	20-Mar-2009 21:46:15.0	yes
06	(8) ABELL-2029	ACS/SBC	1	20-Mar-2009 21:46:18.0	yes
07	(9) ABELL-2052	ACS/SBC	1	20-Mar-2009 21:46:21.0	yes
08	(10) ABELL-2142	ACS/SBC	1	20-Mar-2009 21:46:24.0	yes
09	(11) ABELL-2151	ACS/SBC	1	20-Mar-2009 21:46:27.0	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>
10	(12) ABELL-2580	ACS/SBC	1	20-Mar-2009 21:46:30.0	yes
11	(13) ABELL-3158	ACS/SBC	1	20-Mar-2009 21:46:33.0	yes
12	(14) ABELL-3376	ACS/SBC	1	20-Mar-2009 21:46:36.0	yes
13	(15) ABELL-3389	ACS/SBC	1	20-Mar-2009 21:46:39.0	yes
14	(16) ABELL-4059	ACS/SBC	1	20-Mar-2009 21:46:41.0	yes
15	(17) CYGNUS-A	ACS/SBC	1	20-Mar-2009 21:46:44.0	yes
16	(18) OPHIUCHUS-CLUSTER	ACS/SBC	1	20-Mar-2009 21:46:47.0	yes
17	(19) SERSIC159-03	ACS/SBC	1	20-Mar-2009 21:46:50.0	yes
18	(20) ABELL-0970	ACS/SBC	1	20-Mar-2009 21:46:52.0	yes
19	(4) ABELL-1795-N (5) ABELL-1795-S	ACS/SBC	1	20-Mar-2009 21:46:55.0	yes
20	(21) ABELL-3376B	ACS/SBC	1	20-Mar-2009 21:46:58.0	yes
52	(23) ABELL-1644-COPY	ACS/SBC	1	20-Mar-2009 21:47:01.0	yes

21 Total Orbits Used

## ABSTRACT

We propose to take deep ACS FUV images of a carefully selected sample of 19 bright central galaxies in nearby galaxy clusters. This program is the last critical element of a comprehensive investigation of the impact of stellar and AGN feedback on the local galaxy cluster environment. The HST images will complement new, high-resolution, H $\alpha$  images obtained with the recently commissioned Maryland-Magellan Tunable Filter (MMTF) on the Baade 6.5m telescope, archival Chandra, VLA, and GALEX data, and on-going H $_2$ /NIR observations. The MMTF data have revealed unsuspected filamentary complexes in several systems. The GALEX data often show hints of extended NUV and FUV emission on a similar scale, but their poor spatial resolution prevents meaningful comparison with the MMTF data. The HST data will provide this much needed gain in resolution. The combined radio-H $_2$ -H $\alpha$ -FUV-X-ray dataset will allow us to derive with unprecedented precision the role of the AGN, hot stars,

shocks, and relativistic particles on the excitation and thermodynamics of the multi-phase intracluster and interstellar media in these systems. This is an important question since the formation and evolution of most cluster galaxies have likely been affected by these processes.

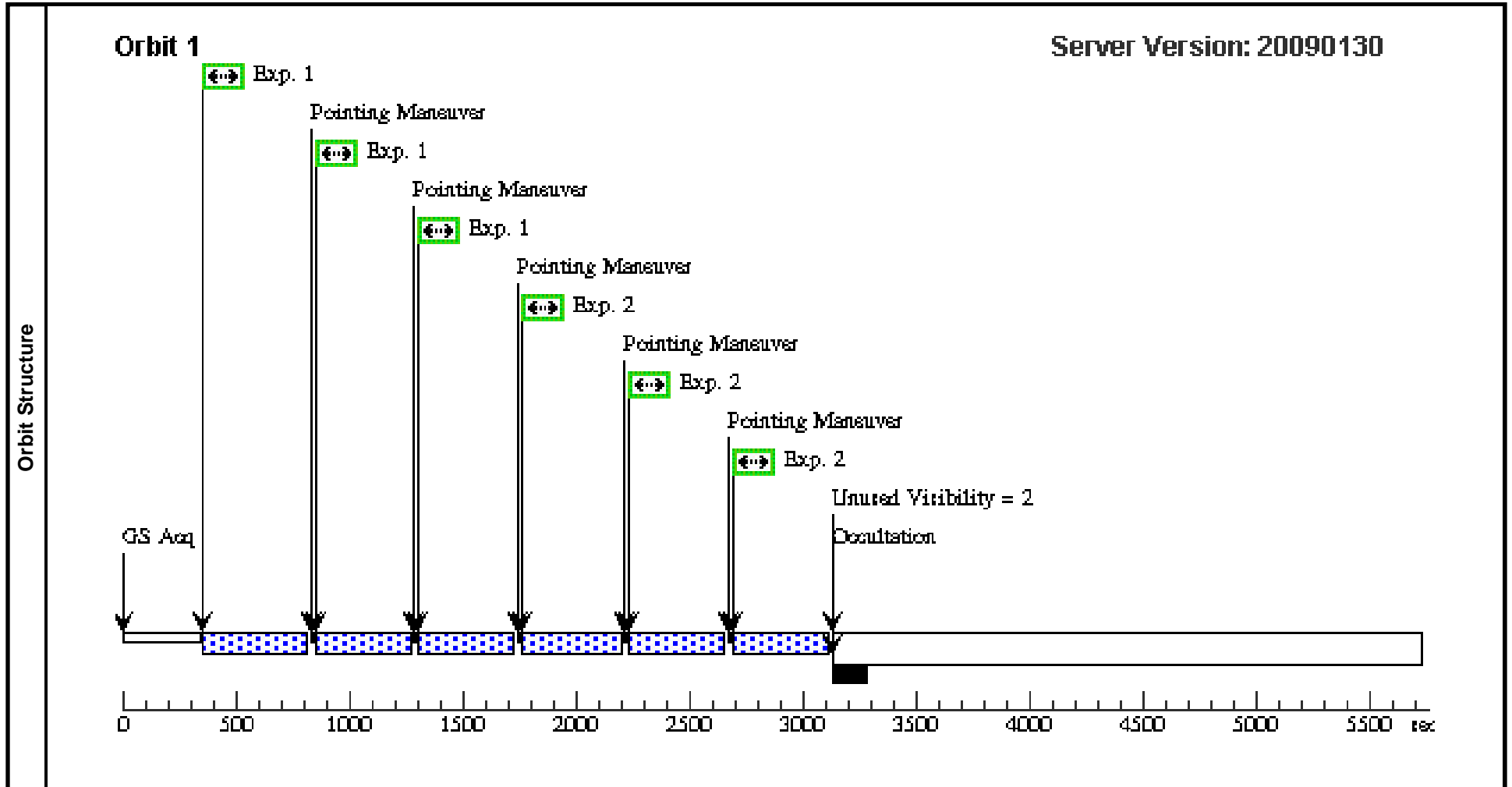
### **OBSERVING DESCRIPTION**

Our objective is to obtain deep FUV images of all 19 clusters that are visible during this supplemental cycle (Feb. 1 -- May 15). The warm ionized H $\alpha$ -emitting gas in all but one object (Abell 1795) fits within a single SBC field of view. Thus, we choose a single pointing for all but one of the clusters in our sample -- yielding a total of 20 pointings. Following the words of advice from the ACS Instrument Handbook, we choose to observe each pointing through two different filters (F140LP & F150LP) to ensure that the SBC "red leak" is properly removed and thus to properly isolate the true FUV flux. The well-known spatial shift between the F140LP and F150LP images will easily be corrected for during data reduction. Standard SBC ACCUM mode and small dither pattern will be used for the observations.

Proposal 11980 - Visit 01 - Deep FUV Imaging of Cooling Flow Clusters

Sat Mar 21 01:47:04 GMT 2009

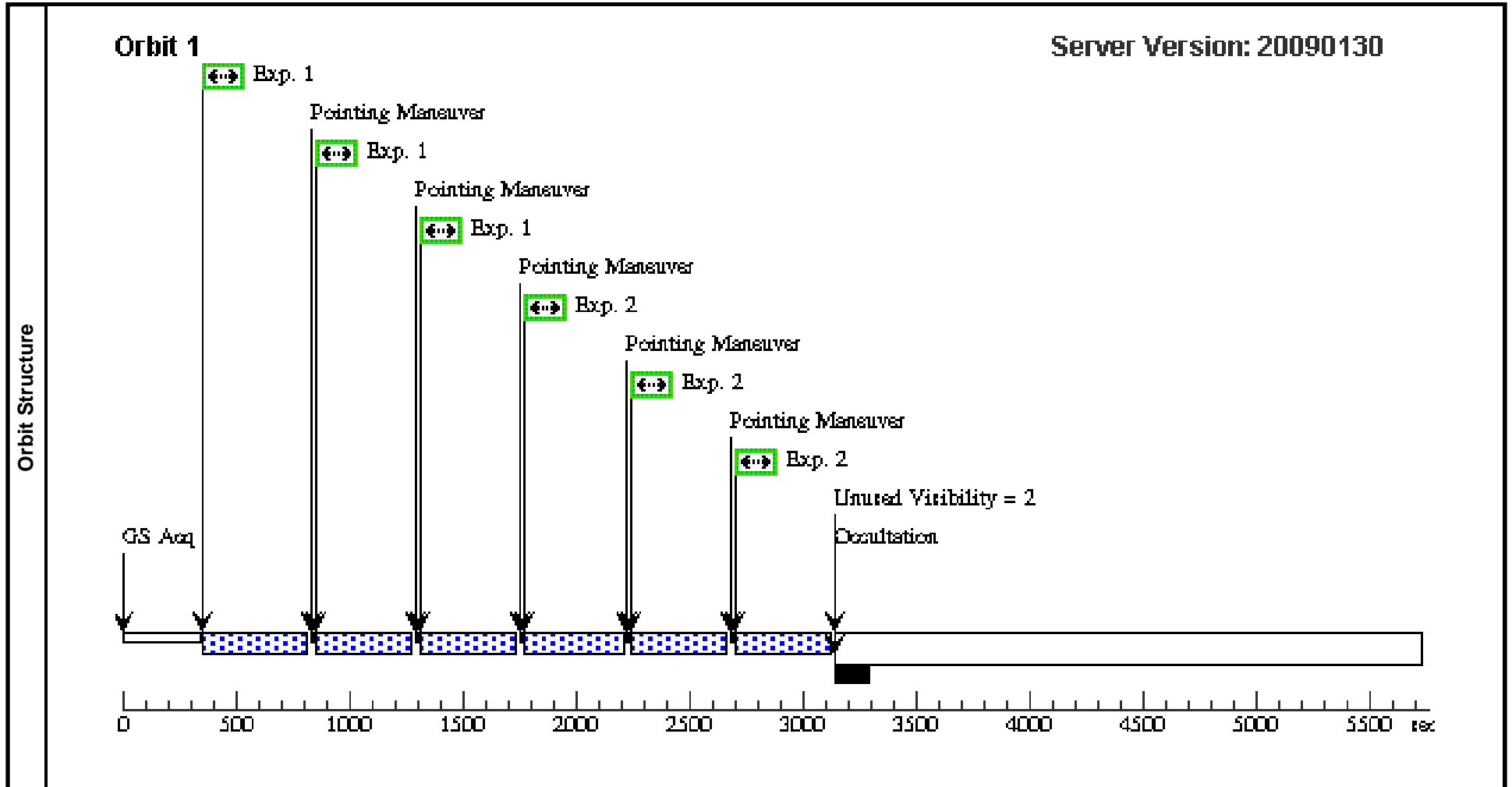
<b>Visit</b>	<b>Proposal 11980, Visit 01, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/SBC Special Requirements: (none)									
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>			<b>Secondary Pattern</b>			<b>Exposures</b>	
(1)		Pattern Type=ACS-SBC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.110 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.71 Angle Between Sides= Center Pattern=true					(1), (2)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(22)	WBL360	RA: 11 49 35.3969 (177.3974871d) Dec: -03 29 17.20 (-3.48811d) Equinox: J2000		V=10.6	Reference Frame: ICRS				
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1		(22) WBL360	ACS/SBC, ACCUM, SBC-FIX	F140LP			Pattern 1-1 (1)	396 Secs	
									[=>(Pattern 1)]	
									[=>(Pattern 2)]	[1]
									[=>(Pattern 3)]	
2		(22) WBL360	ACS/SBC, ACCUM, SBC-FIX	F150LP				Pattern 2-2 (1)	396 Secs	
									[=>(Pattern 1)]	
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									[=>(Pattern 3)]	



Proposal 11980 - Visit 02 - Deep FUV Imaging of Cooling Flow Clusters

Sat Mar 21 01:47:05 GMT 2009

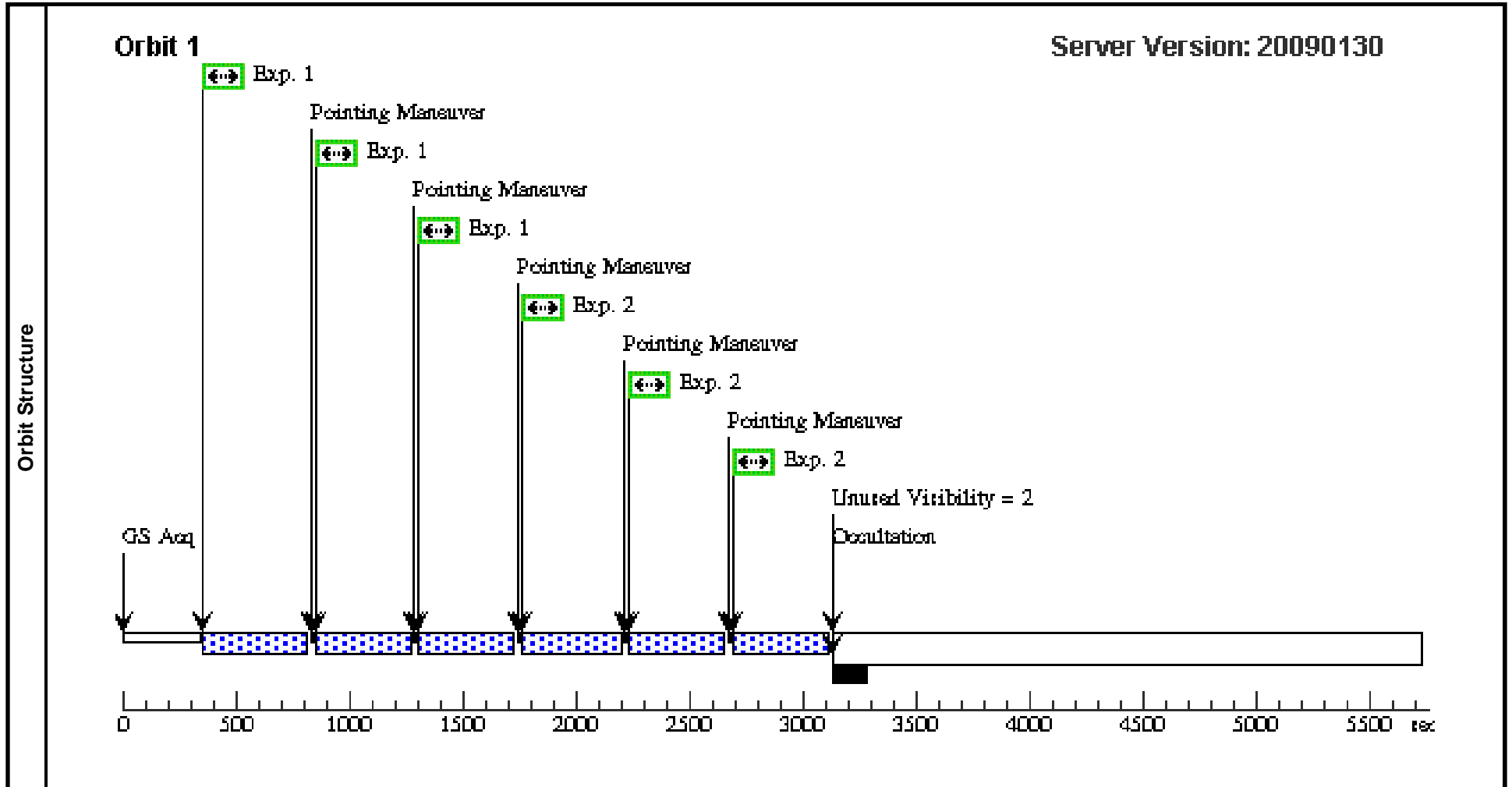
<b>Visit</b>	<b>Proposal 11980, Visit 02, failed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/SBC Special Requirements: (none) <i>Comments: Bright object warning: flux=6.34e-17 erg/s/cm^2/A, no warning from ACS ETC. Safe.</i>										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=ACS-SBC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.110 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=44.71 Angle Between Sides= Center Pattern=true						(1), (2)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(2)	ABELL-1644	RA: 12 57 11.7308 (194.2988783d) Dec: -17 24 35.68 (-17.40991d) Equinox: J2000		Proper Motion RA: 0s/yr Proper Motion Dec: 0"/yr Epoch of Position: 2000.0 Redshift: 0.047300		V=8.3	Reference Frame: ICRS			
<i>Comments: Centering from 2MASS point source catalogue for BCG center.</i>											
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>		<b>Orbit</b>
	1		(2) ABELL-1644	ACS/SBC, ACCUM, SBC-FIX	F140LP			Pattern 1-1 (1)	398 Secs		
									[=>(Pattern 1)]		
									[=>(Pattern 2)]		[1]
									[=>(Pattern 3)]		
2		(2) ABELL-1644	ACS/SBC, ACCUM, SBC-FIX	F150LP				Pattern 2-2 (1)	398 Secs		
									[=>(Pattern 1)]		
									[=>(Pattern 2)]		[1]
									[=>(Pattern 3)]		



Proposal 11980 - Visit 03 - Deep FUV Imaging of Cooling Flow Clusters

Sat Mar 21 01:47:05 GMT 2009

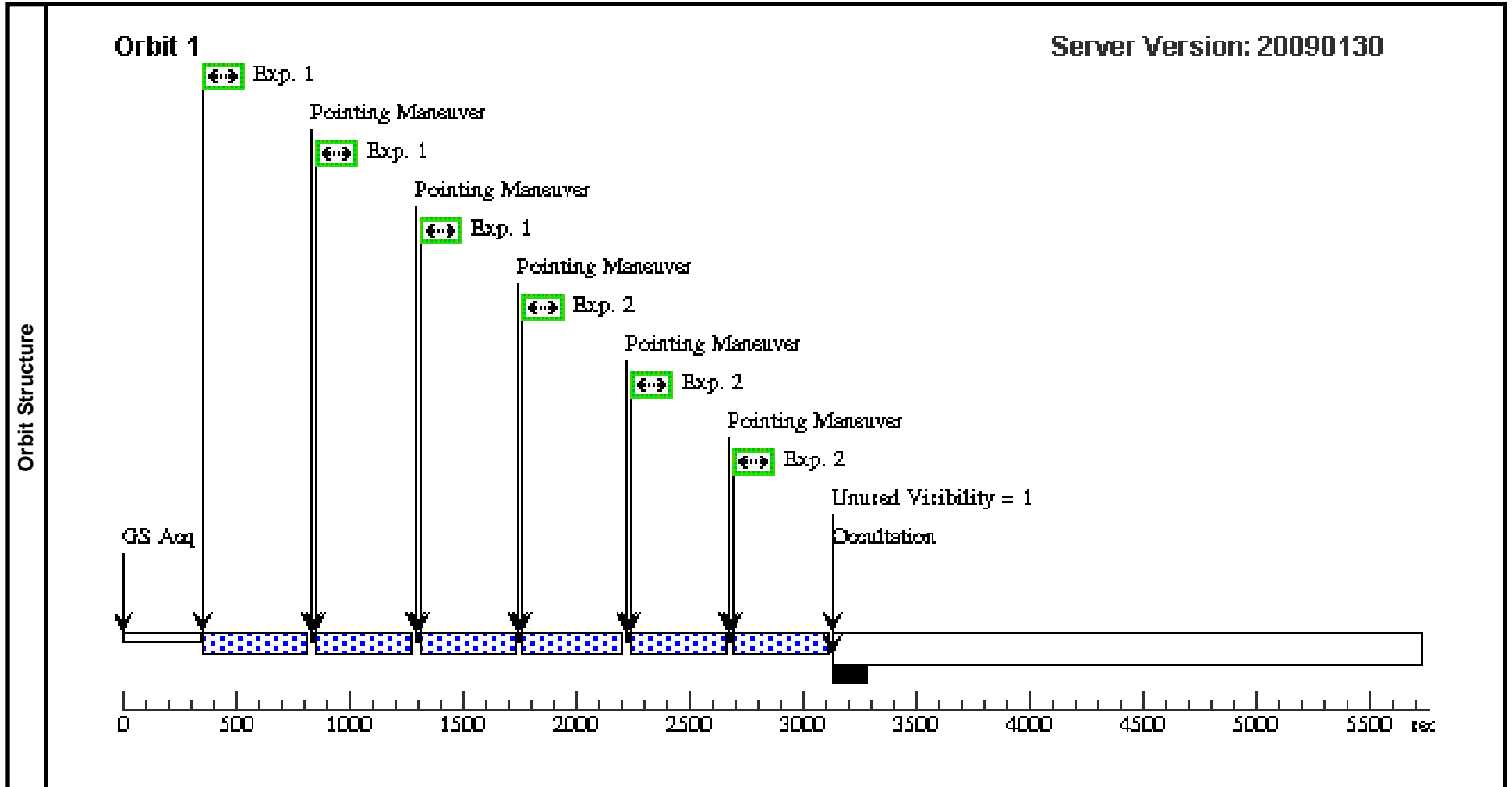
<b>Visit</b>	<b>Proposal 11980, Visit 03, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/SBC Special Requirements: (none)										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=ACS-SBC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.110 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=44.71 Angle Between Sides= Center Pattern=true						(1), (2)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(3)	ABELL-1650	RA: 12 58 41.4917 (194.6728821d) Dec: -01 45 41.25 (-1.76146d) Equinox: J2000		Proper Motion RA: 0s/yr Proper Motion Dec: 0"/yr Epoch of Position: 2000.0 Redshift: 0.083838		V=10.1	Reference Frame: ICRS			
<i>Comments: Centering from 2MASS point source catalogue for BCG center.</i>											
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>		<b>Orbit</b>
	1		(3) ABELL-1650	ACS/SBC, ACCUM, SBC-FIX	F140LP			Pattern 1-1 (1)	396 Secs		
									[=>(Pattern 1)]		
									[=>(Pattern 2)]		[1]
									[=>(Pattern 3)]		
2		(3) ABELL-1650	ACS/SBC, ACCUM, SBC-FIX	F150LP				Pattern 2-2 (1)	396 Secs		
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Proposal 11980 - Visit 04 - Deep FUV Imaging of Cooling Flow Clusters

Sat Mar 21 01:47:05 GMT 2009

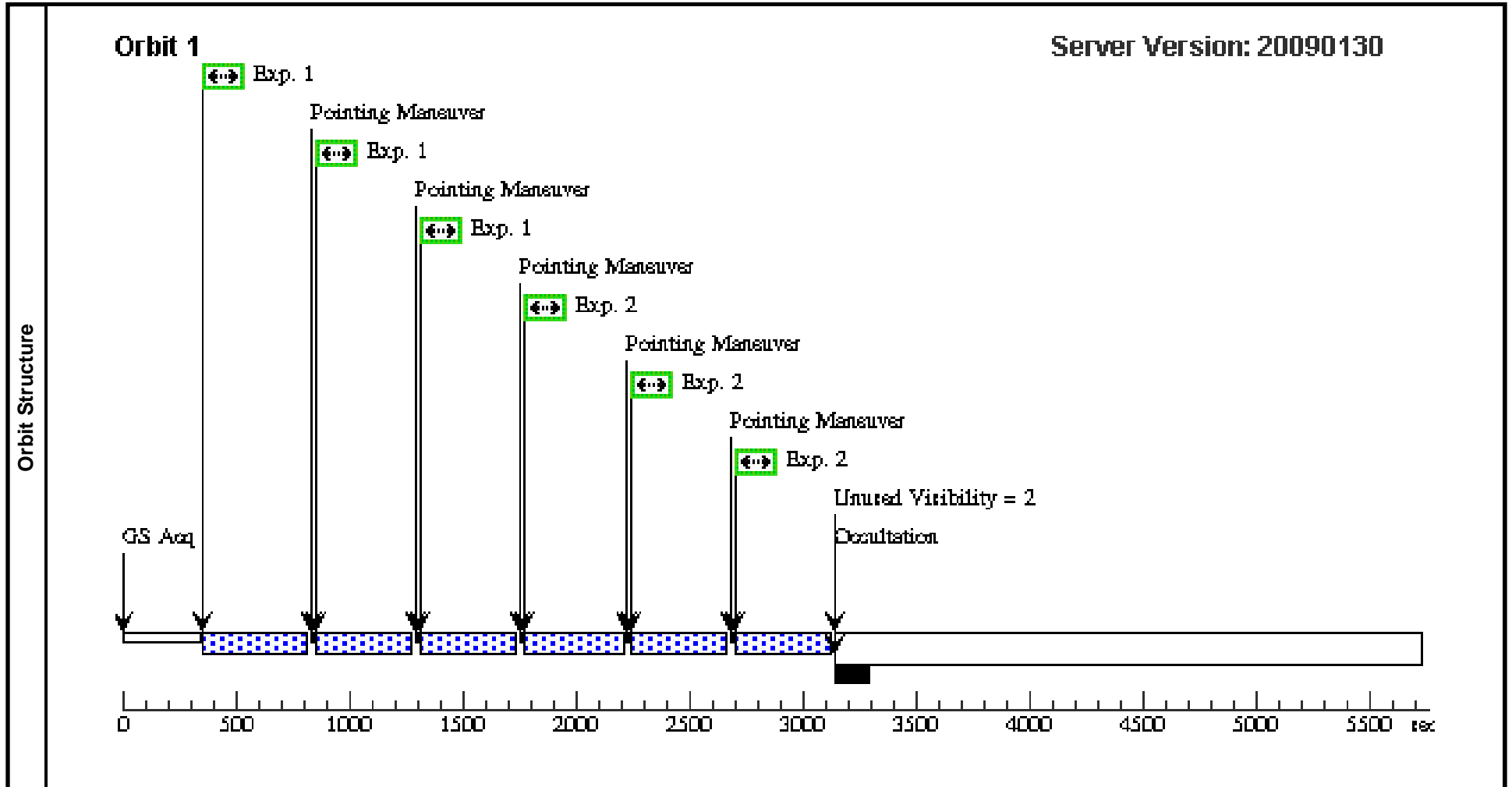
<b>Visit</b>	<b>Proposal 11980, Visit 04, completed</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/SBC Special Requirements: (none)									
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>					
(1)		Pattern Type=ACS-SBC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.110 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.71 Angle Between Sides= Center Pattern=true		(1), (2)					
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(6)	ABELL-1837	RA: 14 01 36.3593 (210.4014971d) Dec: -11 07 43.66 (-11.12879d) Equinox: J2000	Proper Motion RA: 0s/yr Proper Motion Dec: 0"/yr Epoch of Position: 2000.0 Redshift: 0.069998	V=9.4	Reference Frame: ICRS				
<i>Comments: Centering from 2MASS point source catalogue for BCG center.</i>										
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1		(6) ABELL-1837	ACS/SBC, ACCUM, SBC-FIX	F140LP			Pattern 1-1 (1)	397 Secs	
									[==>(Pattern 1)]	
									[==>(Pattern 2)]	[1]
									[==>(Pattern 3)]	
2		(6) ABELL-1837	ACS/SBC, ACCUM, SBC-FIX	F150LP				Pattern 2-2 (1)	397 Secs	
									[==>(Pattern 1)]	
									[==>(Pattern 2)]	[1]
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Proposal 11980 - Visit 05 - Deep FUV Imaging of Cooling Flow Clusters

Sat Mar 21 01:47:06 GMT 2009

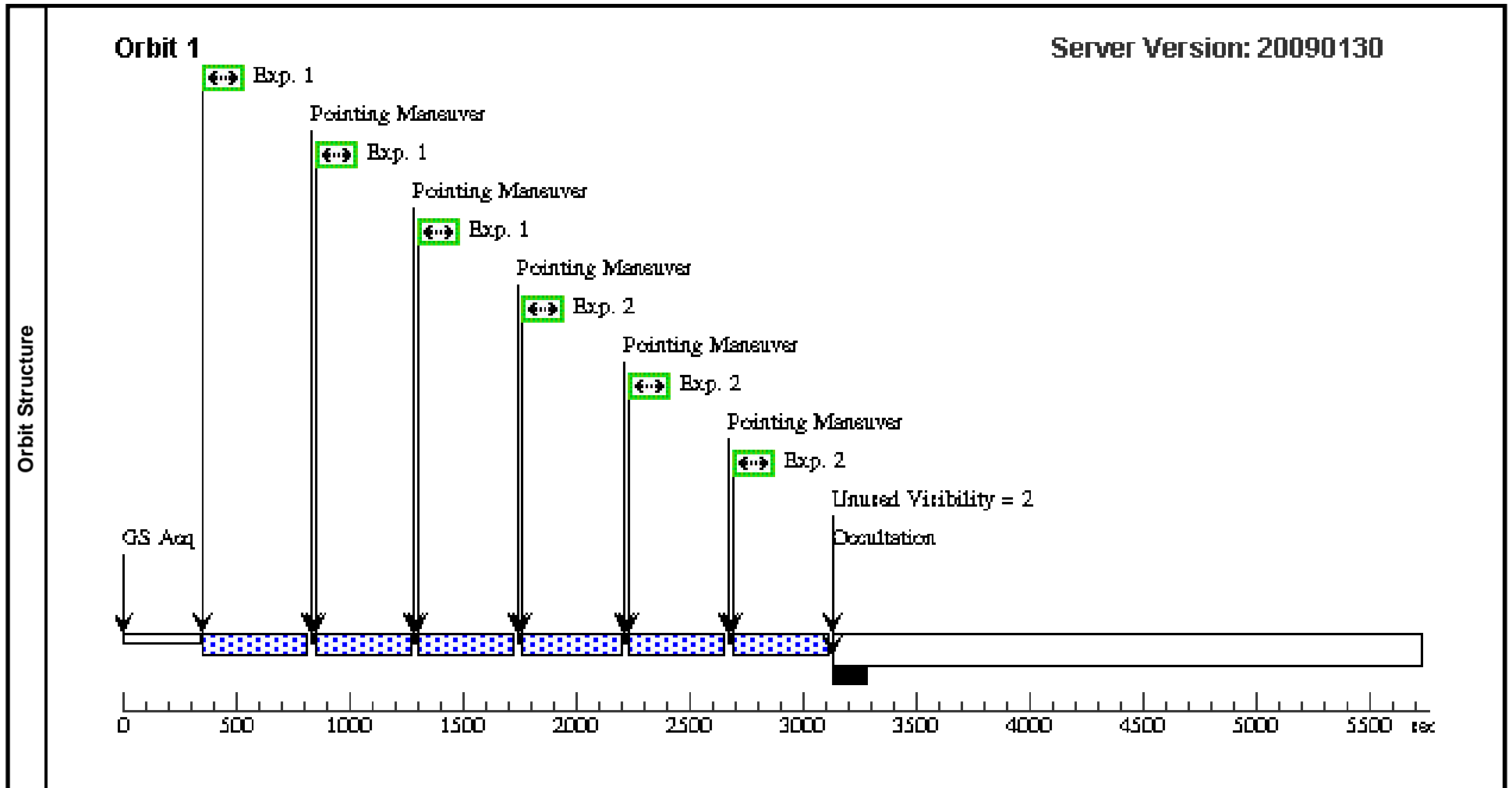
<b>Visit</b>	<b>Proposal 11980, Visit 05, scheduling</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/SBC Special Requirements: (none)									
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>			<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=ACS-SBC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.110 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.71 Angle Between Sides= Center Pattern=true					(1), (2)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(7)	ABELL-1991	RA: 14 54 31.4846 (223.6311858d) Dec: +18 38 32.51 (18.64236d) Equinox: J2000	Proper Motion RA: 0s/yr Proper Motion Dec: 0"/yr Epoch of Position: 2000.0 Redshift: 0.058700	V=9.4	Reference Frame: ICRS				
<i>Comments: Centering from 2MASS point source catalogue for BCG center.</i>										
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1		(7) ABELL-1991	ACS/SBC, ACCUM, SBC-FIX	F140LP			Pattern 1-1 (1)	398 Secs	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	
									[=>(Pattern 3)]	
2		(7) ABELL-1991	ACS/SBC, ACCUM, SBC-FIX	F150LP				Pattern 2-2 (1)	398 Secs	
									[=>(Pattern 1)]	[1]
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Proposal 11980 - Visit 06 - Deep FUV Imaging of Cooling Flow Clusters

Sat Mar 21 01:47:06 GMT 2009

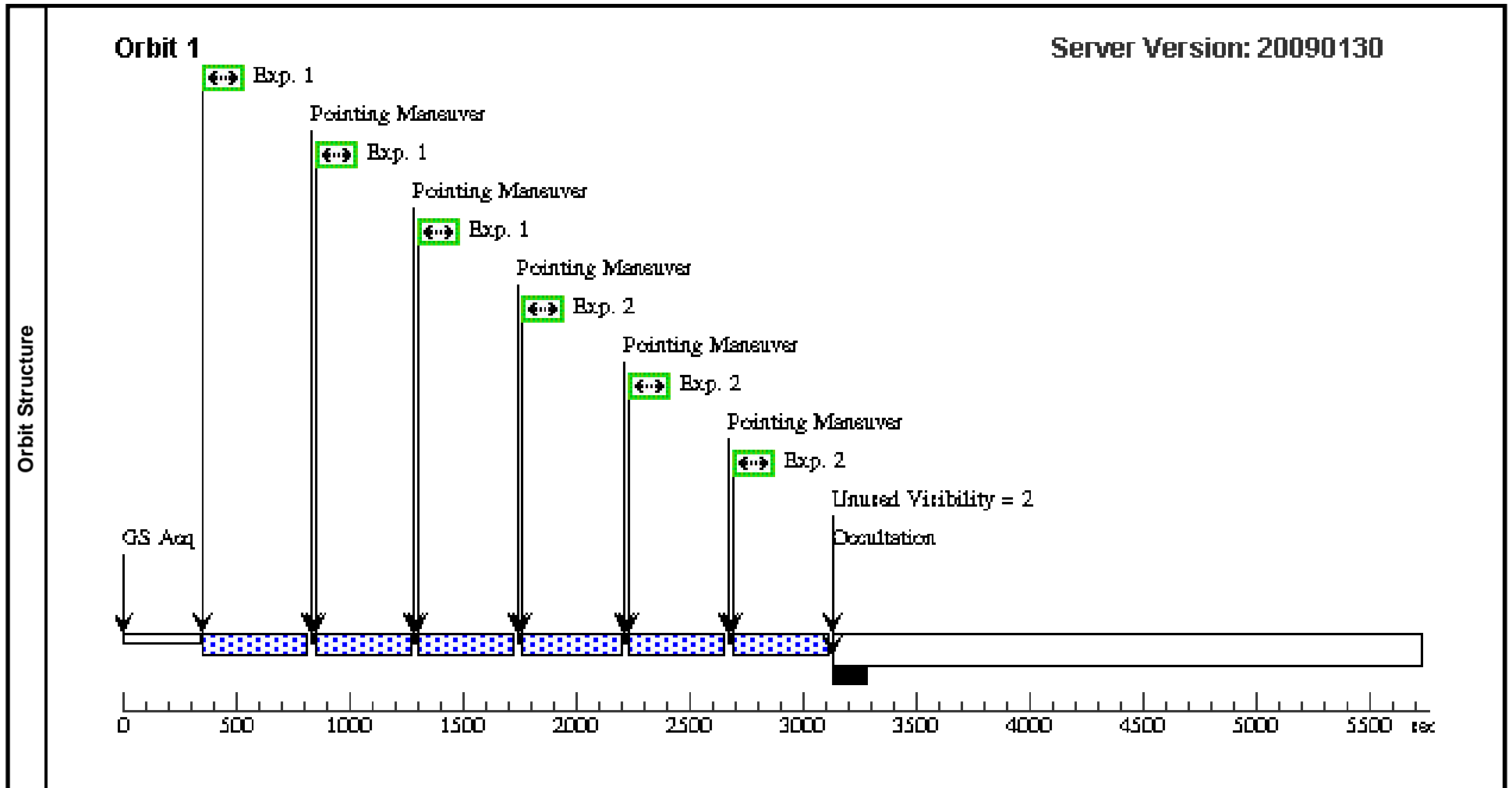
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	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=ACS-SBC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.110 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=44.71 Angle Between Sides= Center Pattern=true						(1), (2)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(8)	ABELL-2029	RA: 15 10 56.0260 (227.7334417d) Dec: +05 44 40.66 (5.74463d) Equinox: J2000		Proper Motion RA: 0s/yr Proper Motion Dec: 0"/yr Epoch of Position: 2000.0 Redshift: 0.077280		V=9.7	Reference Frame: ICRS			
<i>Comments: Centering from 2MASS point source catalogue for BCG center.</i>											
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>		<b>Orbit</b>
	1		(8) ABELL-2029	ACS/SBC, ACCUM, SBC-FIX	F140LP			Pattern 1-1 (1)	396 Secs		
									[==>(Pattern 1)]		
									[==>(Pattern 2)]		[1]
									[==>(Pattern 3)]		
2		(8) ABELL-2029	ACS/SBC, ACCUM, SBC-FIX	F150LP				Pattern 2-2 (1)	396 Secs		
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									[==>(Pattern 3)]		



Proposal 11980 - Visit 07 - Deep FUV Imaging of Cooling Flow Clusters

Sat Mar 21 01:47:06 GMT 2009

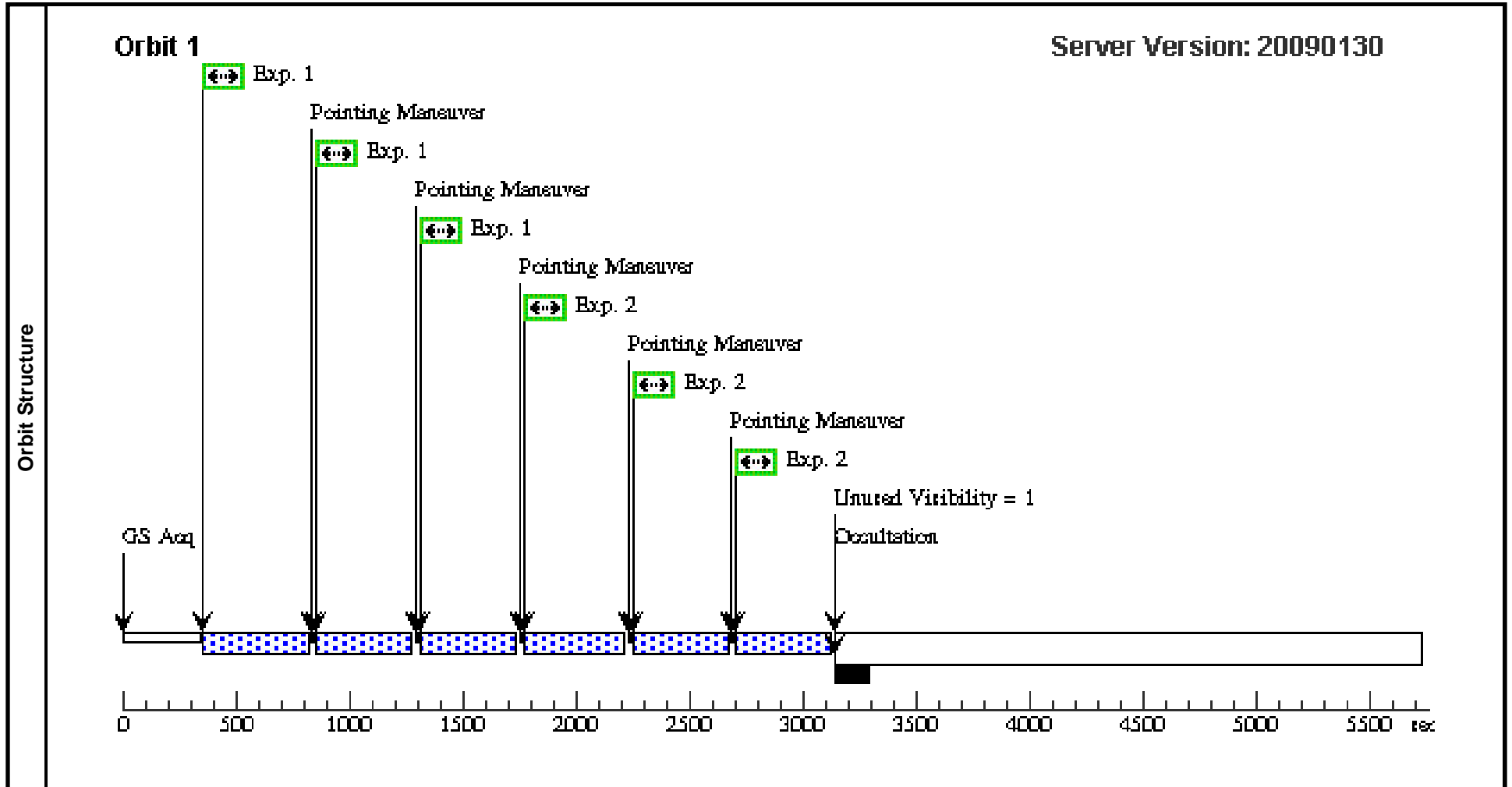
<b>Visit</b>	<b>Proposal 11980, Visit 07, scheduling</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/SBC Special Requirements: (none)										
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(1)		Pattern Type=ACS-SBC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.110 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=44.71 Angle Between Sides= Center Pattern=true						(1), (2)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(9)	ABELL-2052	RA: 15 16 44.3200 (229.1846667d) Dec: +07 01 24.50 (7.02347d) Equinox: J2000		Proper Motion RA: 0s/yr Proper Motion Dec: 0"/yr Epoch of Position: 2000.0 Redshift: 0.035491		V=8.4	Reference Frame: ICRS			
<i>Comments: Centering from 2MASS point source catalogue for BCG center.</i>											
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>		<b>Orbit</b>
	1		(9) ABELL-2052	ACS/SBC, ACCUM, SBC-FIX	F140LP			Pattern 1-1 (1)	396 Secs		
									[=>(Pattern 1)]		
									[=>(Pattern 2)]		[1]
									[=>(Pattern 3)]		
2		(9) ABELL-2052	ACS/SBC, ACCUM, SBC-FIX	F150LP				Pattern 2-2 (1)	396 Secs		
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Proposal 11980 - Visit 08 - Deep FUV Imaging of Cooling Flow Clusters

Sat Mar 21 01:47:07 GMT 2009

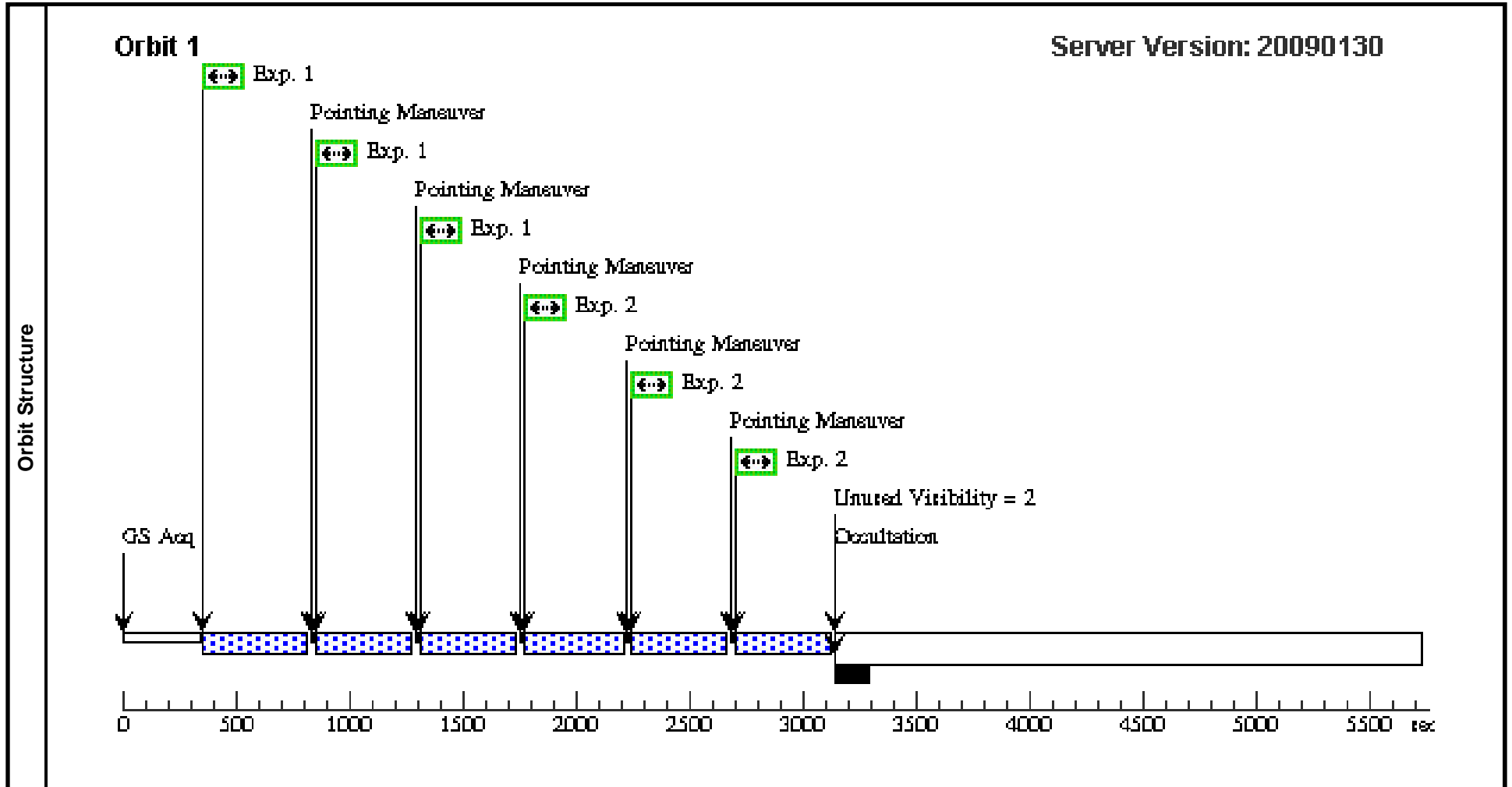
<b>Visit</b>	<b>Proposal 11980, Visit 08, scheduling</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/SBC Special Requirements: (none)										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=ACS-SBC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.110 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=44.71 Angle Between Sides= Center Pattern=true						(1), (2)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(10)	ABELL-2142	RA: 15 58 19.9755 (239.5832312d) Dec: +27 13 59.61 (27.23322d) Equinox: J2000		Proper Motion RA: 0s/yr Proper Motion Dec: 0"/yr Epoch of Position: 2000.0 Redshift: 0.090900		V=10.8	Reference Frame: ICRS			
<i>Comments: Centering from 2MASS point source catalogue for BCG center.</i>											
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>		<b>Orbit</b>
	1		(10) ABELL-2142	ACS/SBC, ACCUM, SBC-FIX	F140LP			Pattern 1-1 (1)	399 Secs		
									[=>(Pattern 1)]		
									[=>(Pattern 2)]		[1]
									[=>(Pattern 3)]		
2		(10) ABELL-2142	ACS/SBC, ACCUM, SBC-FIX	F150LP				Pattern 2-2 (1)	399 Secs		
									[=>(Pattern 1)]		
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									[=>(Pattern 3)]		



Proposal 11980 - Visit 09 - Deep FUV Imaging of Cooling Flow Clusters

Sat Mar 21 01:47:07 GMT 2009

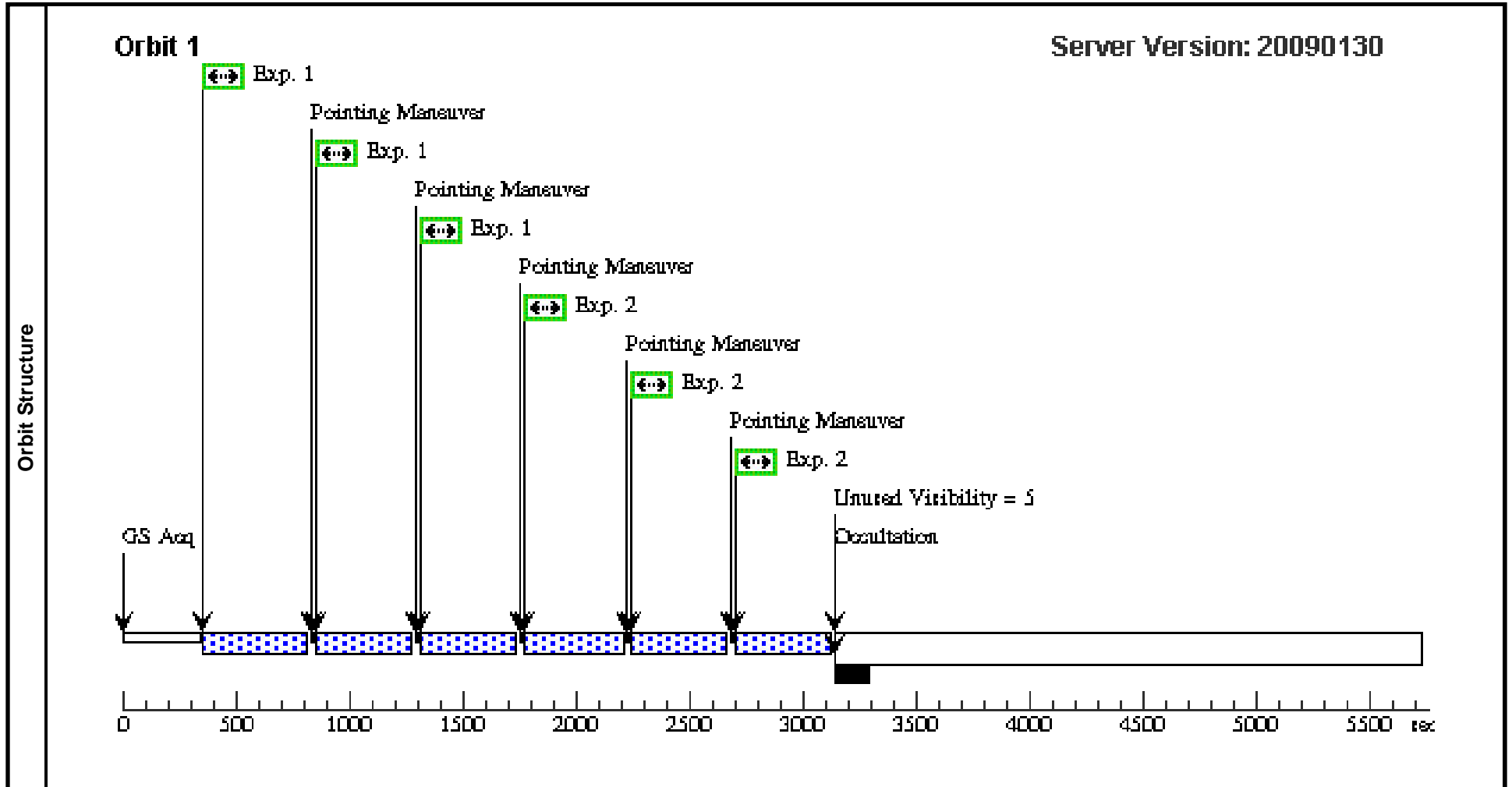
<b>Visit</b>	<b>Proposal 11980, Visit 09, scheduling</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/SBC Special Requirements: (none)										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>			<b>Secondary Pattern</b>			<b>Exposures</b>		
(1)		Pattern Type=ACS-SBC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.110 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.71 Angle Between Sides= Center Pattern=true						(1), (2)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>				
	(11)	ABELL-2151	RA: 16 04 35.7958 (241.1491492d) Dec: +17 43 17.62 (17.72156d) Equinox: J2000	Proper Motion RA: 0s/yr Proper Motion Dec: 0"/yr Epoch of Position: 2000.0 Redshift: 0.035151		V=10.0	Reference Frame: ICRS				
<i>Comments: Centering from 2MASS point source catalogue for BCG center.</i>											
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>		<b>Orbit</b>
	1		(11) ABELL-2151	ACS/SBC, ACCUM, SBC-FIX	F140LP			Pattern 1-1 (1)	398 Secs		
									[=>(Pattern 1)]		
									[=>(Pattern 2)]		[1]
								[=>(Pattern 3)]			
2		(11) ABELL-2151	ACS/SBC, ACCUM, SBC-FIX	F150LP				Pattern 2-2 (1)	398 Secs		
								[=>(Pattern 1)]			
								[=>(Pattern 2)]		[1]	
								[=>(Pattern 3)]			



Proposal 11980 - Visit 10 - Deep FUV Imaging of Cooling Flow Clusters

Sat Mar 21 01:47:07 GMT 2009

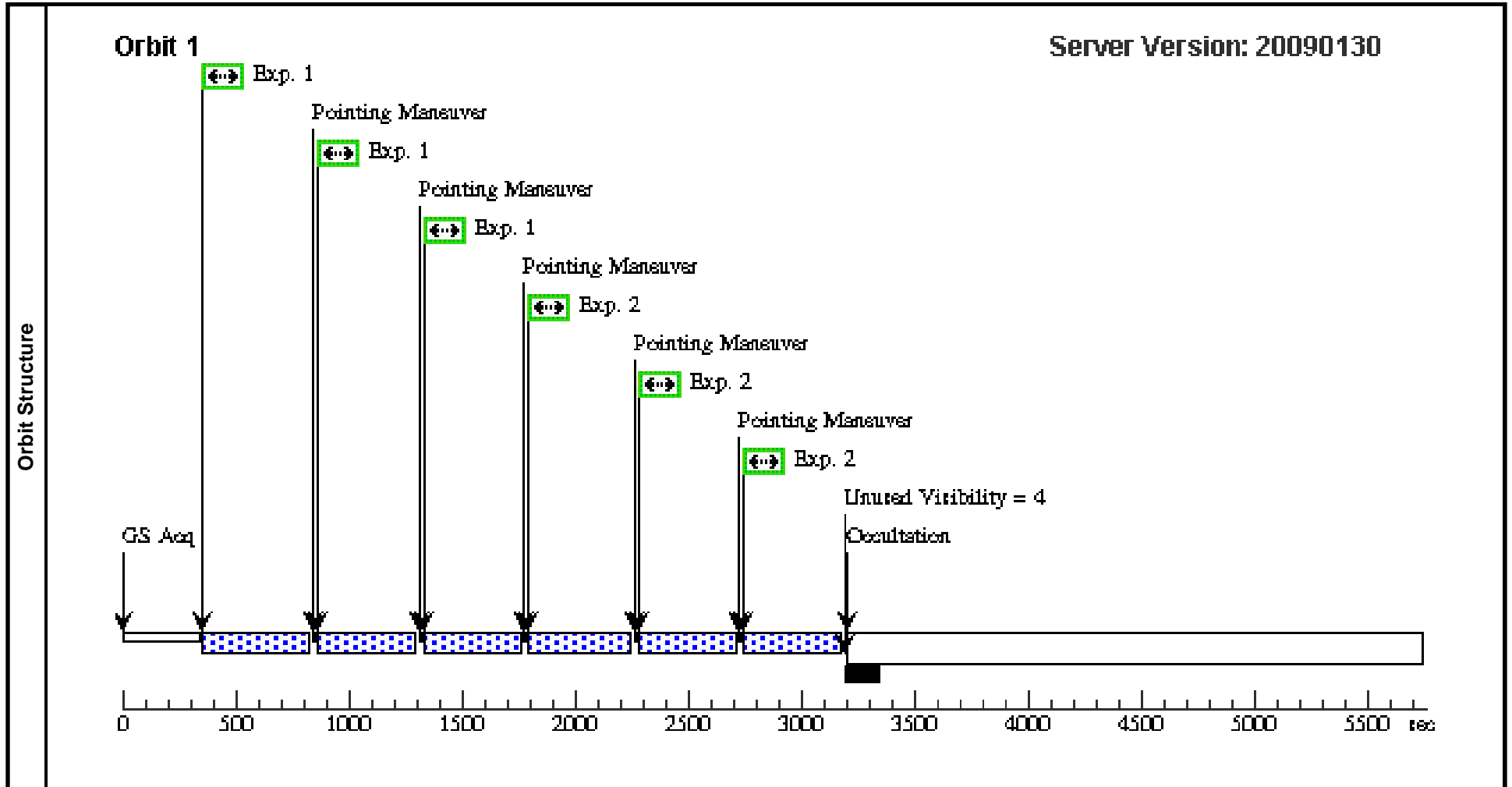
<b>Visit</b>	<b>Proposal 11980, Visit 10, scheduling</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/SBC Special Requirements: (none) <i>Comments: Bright object warning: flux=11.00e-17 erg/s/cm^2/A, no warning from ACS ETC. Safe.</i>										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>			<b>Secondary Pattern</b>			<b>Exposures</b>		
(1)		Pattern Type=ACS-SBC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.110 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.71 Angle Between Sides= Center Pattern=true					(1), (2)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(12)	ABELL-2580	RA: 23 21 26.2933 (350.3595554d) Dec: -23 12 28.34 (-23.20787d) Equinox: J2000	Proper Motion RA: 0s/yr Proper Motion Dec: 0"/yr Epoch of Position: 2000.0 Redshift: 0.089000	V=9.9	Reference Frame: ICRS					
<i>Comments: Centering from 2MASS point source catalogue for BCG center.</i>											
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>		<b>Orbit</b>
	1		(12) ABELL-2580	ACS/SBC, ACCUM, SBC-FIX	F140LP		GS ACQ SCENARI O BASE1TN3	Pattern 1-1 (1)	398 Secs		
									[==>(Pattern 1)]		[1]
									[==>(Pattern 2)]		
								[==>(Pattern 3)]			
2		(12) ABELL-2580	ACS/SBC, ACCUM, SBC-FIX	F150LP				Pattern 2-2 (1)	398 Secs		
									[==>(Pattern 1)]		[1]
									[==>(Pattern 2)]		
									[==>(Pattern 3)]		



Proposal 11980 - Visit 11 - Deep FUV Imaging of Cooling Flow Clusters

Sat Mar 21 01:47:08 GMT 2009

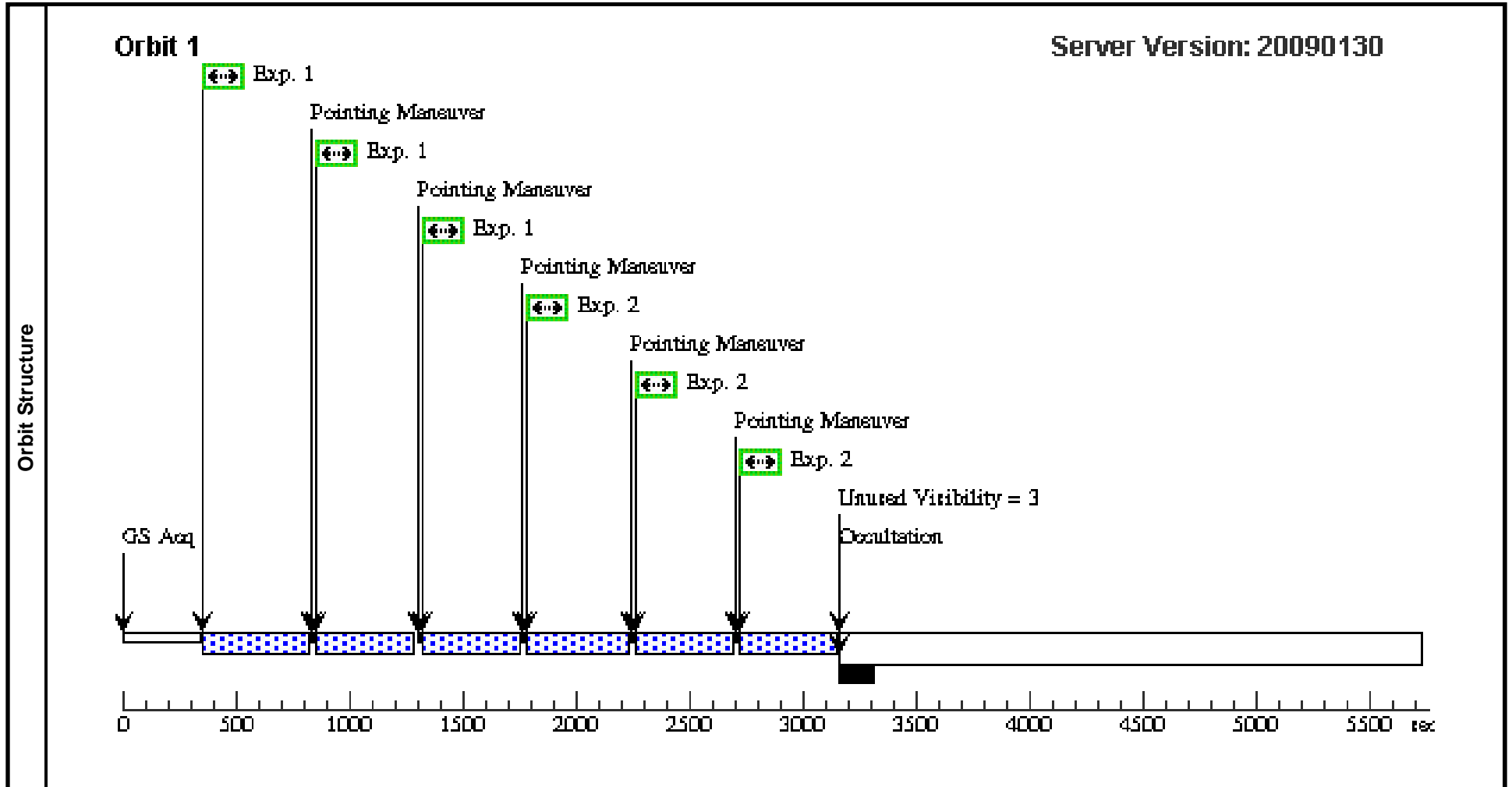
<b>Visit</b>	<b>Proposal 11980, Visit 11, scheduling</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/SBC Special Requirements: (none)										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=ACS-SBC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.110 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=44.71 Angle Between Sides= Center Pattern=true						(1), (2)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(13)	ABELL-3158	RA: 03 42 52.9666 (55.7206942d) Dec: -53 37 52.48 (-53.63124d) Equinox: J2000		Proper Motion RA: 0s/yr Proper Motion Dec: 0"/yr Epoch of Position: 2000.0 Redshift: 0.059700		V=10.1	Reference Frame: ICRS			
<i>Comments: Centering from 2MASS point source catalogue for BCG center.</i>											
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>		<b>Orbit</b>
	1		(13) ABELL-3158	ACS/SBC, ACCUM, SBC-FIX	F140LP			Pattern 1-1 (1)	407 Secs		
									[=>(Pattern 1)]		
									[=>(Pattern 2)]		[1]
									[=>(Pattern 3)]		
2		(13) ABELL-3158	ACS/SBC, ACCUM, SBC-FIX	F150LP				Pattern 2-2 (1)	407 Secs		
									[=>(Pattern 1)]		
									[=>(Pattern 2)]		[1]
									[=>(Pattern 3)]		



Proposal 11980 - Visit 12 - Deep FUV Imaging of Cooling Flow Clusters

Sat Mar 21 01:47:08 GMT 2009

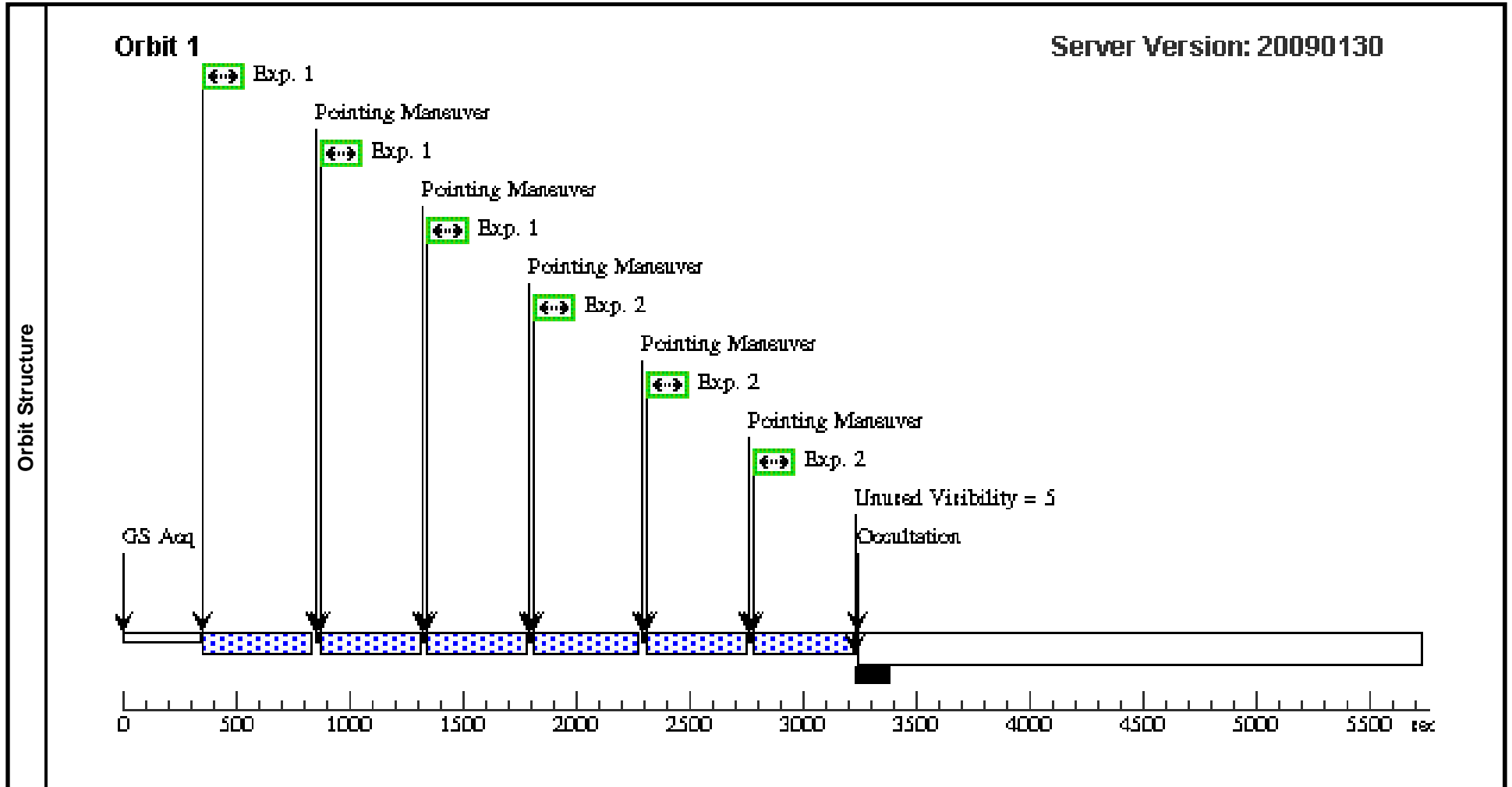
<b>Visit</b>	<b>Proposal 11980, Visit 12, scheduling</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/SBC Special Requirements: (none)										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>			<b>Secondary Pattern</b>			<b>Exposures</b>		
(1)		Pattern Type=ACS-SBC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.110 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.71 Angle Between Sides= Center Pattern=true					(1), (2)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>				
	(14)	ABELL-3376	RA: 06 00 41.1070 (90.1712792d) Dec: -40 02 40.39 (-40.04455d) Equinox: J2000	Proper Motion RA: 0s/yr Proper Motion Dec: 0"/yr Epoch of Position: 2000.0 Redshift: 0.045600		V=8.5	Reference Frame: ICRS				
<i>Comments: Centering from 2MASS point source catalogue for BCG center.</i>											
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>		<b>Orbit</b>
	1		(14) ABELL-3376	ACS/SBC, ACCUM, SBC-FIX	F140LP			Pattern 1-1 (1)	402 Secs		
									[=>(Pattern 1)]		[1]
									[=>(Pattern 2)]		
2		(14) ABELL-3376	ACS/SBC, ACCUM, SBC-FIX	F150LP				Pattern 2-2 (1)	402 Secs		
									[=>(Pattern 1)]		[1]
									[=>(Pattern 2)]		
									[=>(Pattern 3)]		



Proposal 11980 - Visit 13 - Deep FUV Imaging of Cooling Flow Clusters

Sat Mar 21 01:47:08 GMT 2009

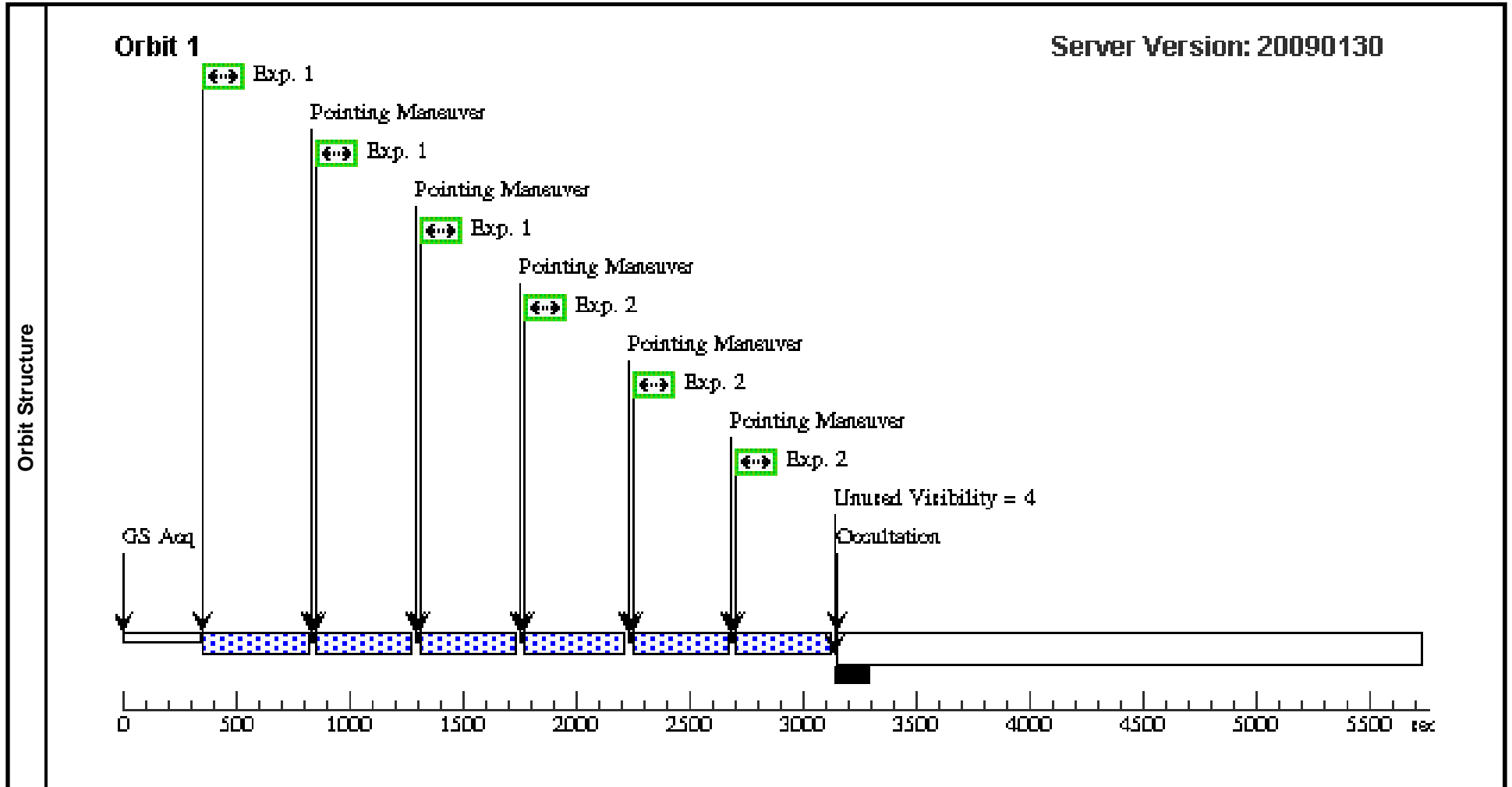
<b>Visit</b>	<b>Proposal 11980, Visit 13, scheduling</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/SBC Special Requirements: (none)										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>			<b>Exposures</b>	
(1)		Pattern Type=ACS-SBC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.110 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=44.71 Angle Between Sides= Center Pattern=true					(1), (2)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(15)	ABELL-3389	RA: 06 22 22.0576 (95.5919067d) Dec: -64 56 3.65 (-64.93435d) Equinox: J2000		Proper Motion RA: 0s/yr Proper Motion Dec: 0"/yr Epoch of Position: 2000.0 Redshift: 0.026700		V=7.6	Reference Frame: ICRS			
<i>Comments: Centering from 2MASS point source catalogue for BCG center.</i>											
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>		<b>Orbit</b>
	1		(15) ABELL-3389	ACS/SBC, ACCUM, SBC-FIX	F140LP			Pattern 1-1 (1)	414 Secs		
									[=>(Pattern 1)]		
									[=>(Pattern 2)]		[1]
									[=>(Pattern 3)]		
2		(15) ABELL-3389	ACS/SBC, ACCUM, SBC-FIX	F150LP				Pattern 2-2 (1)	414 Secs		
									[=>(Pattern 1)]		
									[=>(Pattern 2)]		[1]
									[=>(Pattern 3)]		



Proposal 11980 - Visit 14 - Deep FUV Imaging of Cooling Flow Clusters

Sat Mar 21 01:47:09 GMT 2009

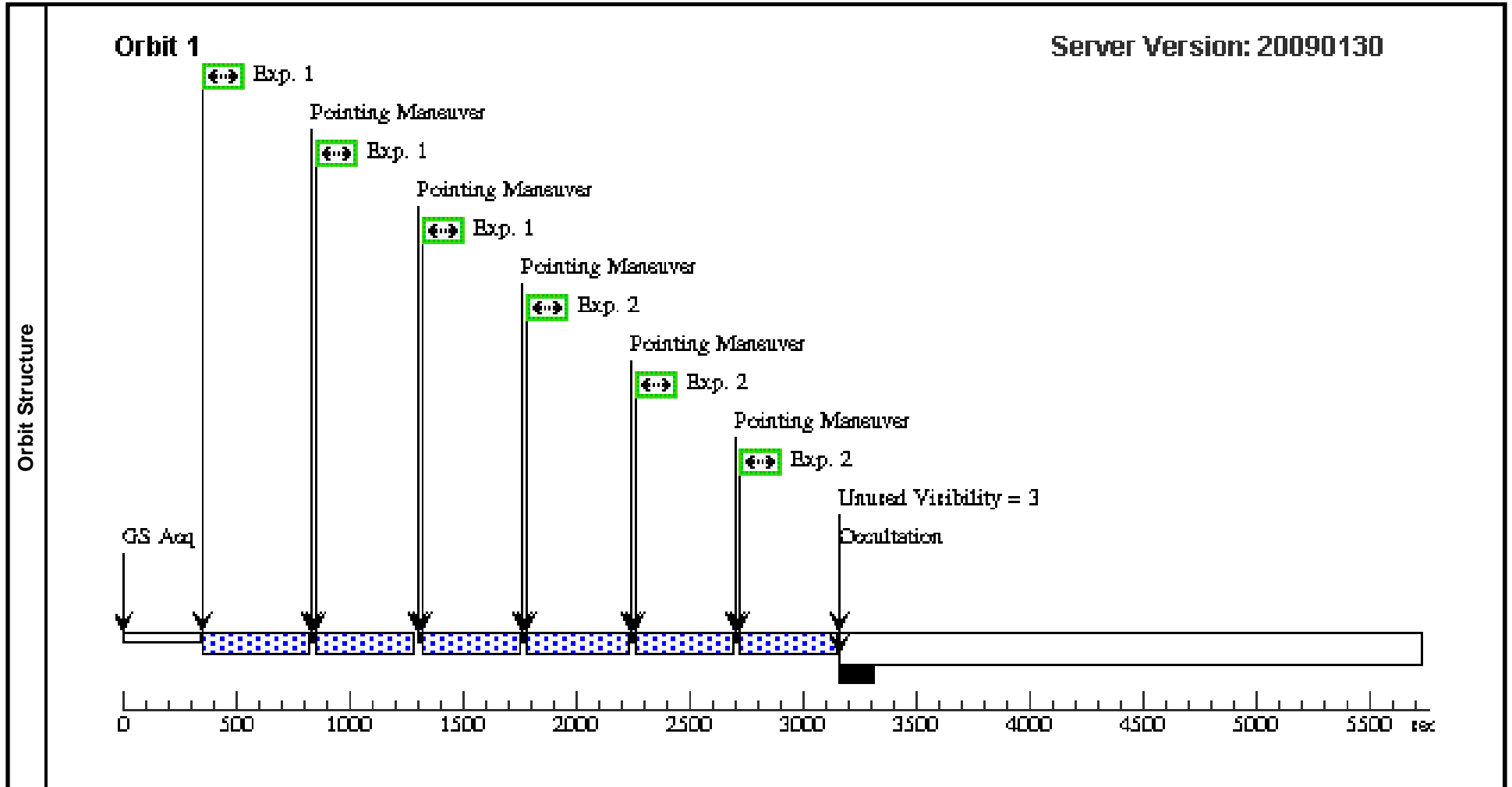
<b>Visit</b>	<b>Proposal 11980, Visit 14, scheduling</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/SBC Special Requirements: (none)										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>			<b>Exposures</b>	
(1)		Pattern Type=ACS-SBC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.110 Line Spacing=				Coordinate Frame=POS-TARG Pattern Orientation=44.71 Angle Between Sides= Center Pattern=true			(1), (2)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(16)	ABELL-4059	RA: 23 57 0.2948 (359.2512283d) Dec: -34 45 33.42 (-34.75928d) Equinox: J2000		Proper Motion RA: 0s/yr Proper Motion Dec: 0"/yr Epoch of Position: 2000.0 Redshift: 0.047500		V=7.9	Reference Frame: ICRS			
<i>Comments: Centering from 2MASS point source catalogue for BCG center.</i>											
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>		<b>Orbit</b>
	1		(16) ABELL-4059	ACS/SBC, ACCUM, SBC-FIX	F140LP		GS ACQ SCENARI O BASE1TN3	Pattern 1-1 (1)	399 Secs		
									[=>(Pattern 1)]		
									[=>(Pattern 2)]		[1]
									[=>(Pattern 3)]		
2		(16) ABELL-4059	ACS/SBC, ACCUM, SBC-FIX	F150LP				Pattern 2-2 (1)	399 Secs		
									[=>(Pattern 1)]		
									[=>(Pattern 2)]		[1]
									[=>(Pattern 3)]		



Proposal 11980 - Visit 15 - Deep FUV Imaging of Cooling Flow Clusters

Sat Mar 21 01:47:09 GMT 2009

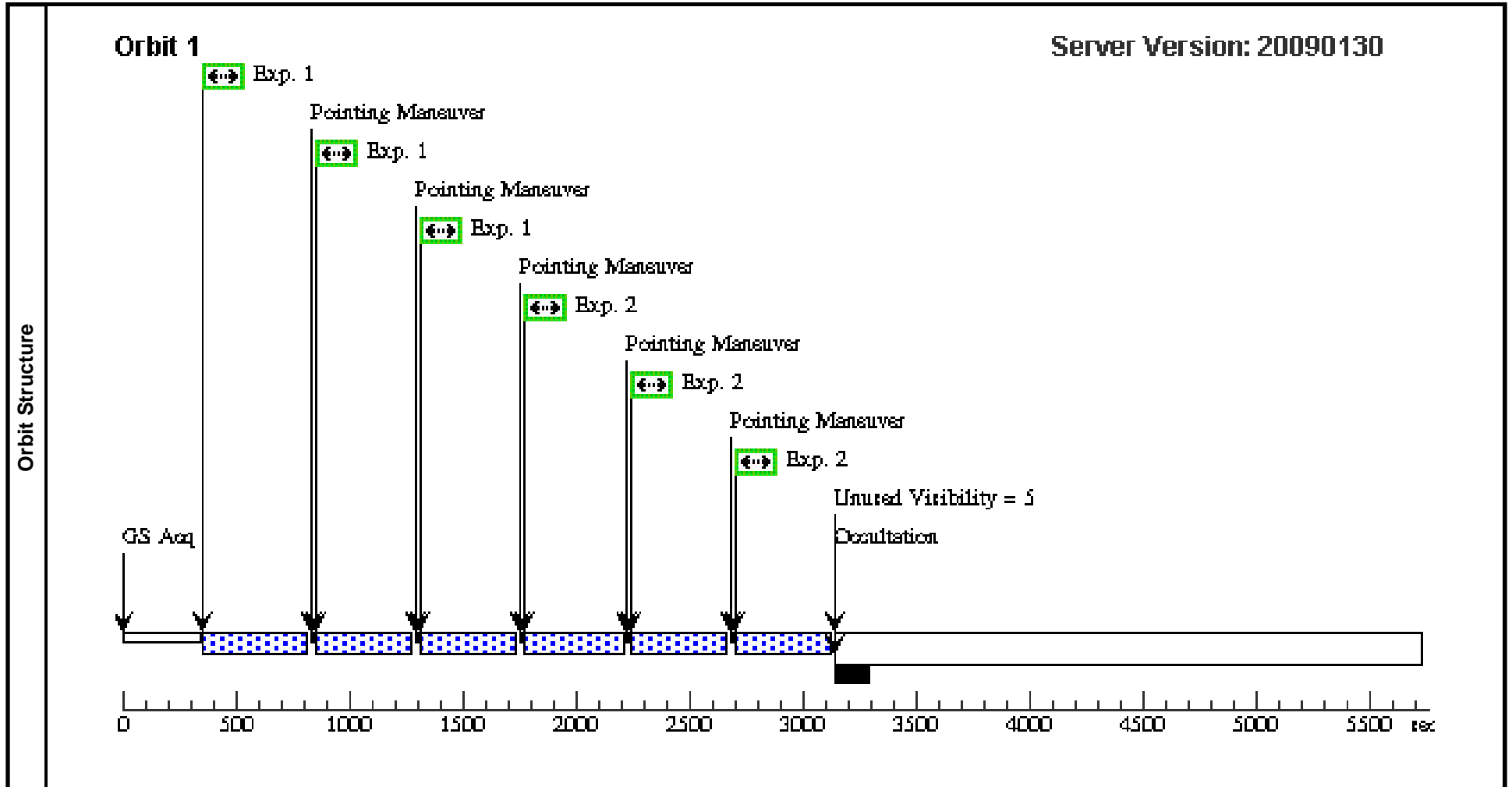
<b>Visit</b>	<b>Proposal 11980, Visit 15, scheduling</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/SBC Special Requirements: (none) Comments: Warning at: (19:59:30.07 +40:44:04.6) $F_{\text{uvm2\_ab}} = 6.077e-17 \text{ erg/cm}^2/\text{s/A}$ @ 2200A (safe) Warning at: (19:59:31.14 +40:44:01.4) $F_{\text{uvm2\_ab}} = 1.023e-16 \text{ erg/cm}^2/\text{s/A}$ @ 2200A (safe) Unknown at: (19:59:28.40 +40:44:01.4) $B=16.3$ (Radio Gal, safe even if pt source) Unknown at: (19:59:28.09 +40:44:24.7) $F_{\text{uvm2\_ab}} = 7.702e-17 \text{ erg/cm}^2/\text{s/A}$ @ 2200A (safe)										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>			<b>Exposures</b>	
(1)		Pattern Type=ACS-SBC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.110 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.71 Angle Between Sides= Center Pattern=true						(1), (2)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>				
	(17)	CYGNUS-A	RA: 19 59 28.5929 (299.8691371d) Dec: +40 44 1.91 (40.73386d) Equinox: J2000	Proper Motion RA: 0s/yr Proper Motion Dec: 0"/yr Epoch of Position: 2000.0 Redshift: 0.053900	V=14.0		Reference Frame: ICRS				
Comments: Centering from 2MASS point source catalogue for BCG center.											
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>		<b>Orbit</b>
	1	(17) CYGNUS-A	ACS/SBC, ACCUM, SBC-FIX	F140LP				Pattern 1-1 (1)	402 Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]	
2	(17) CYGNUS-A	ACS/SBC, ACCUM, SBC-FIX	F150LP				Pattern 2-2 (1)	402 Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]		



Proposal 11980 - Visit 16 - Deep FUV Imaging of Cooling Flow Clusters

Sat Mar 21 01:47:09 GMT 2009

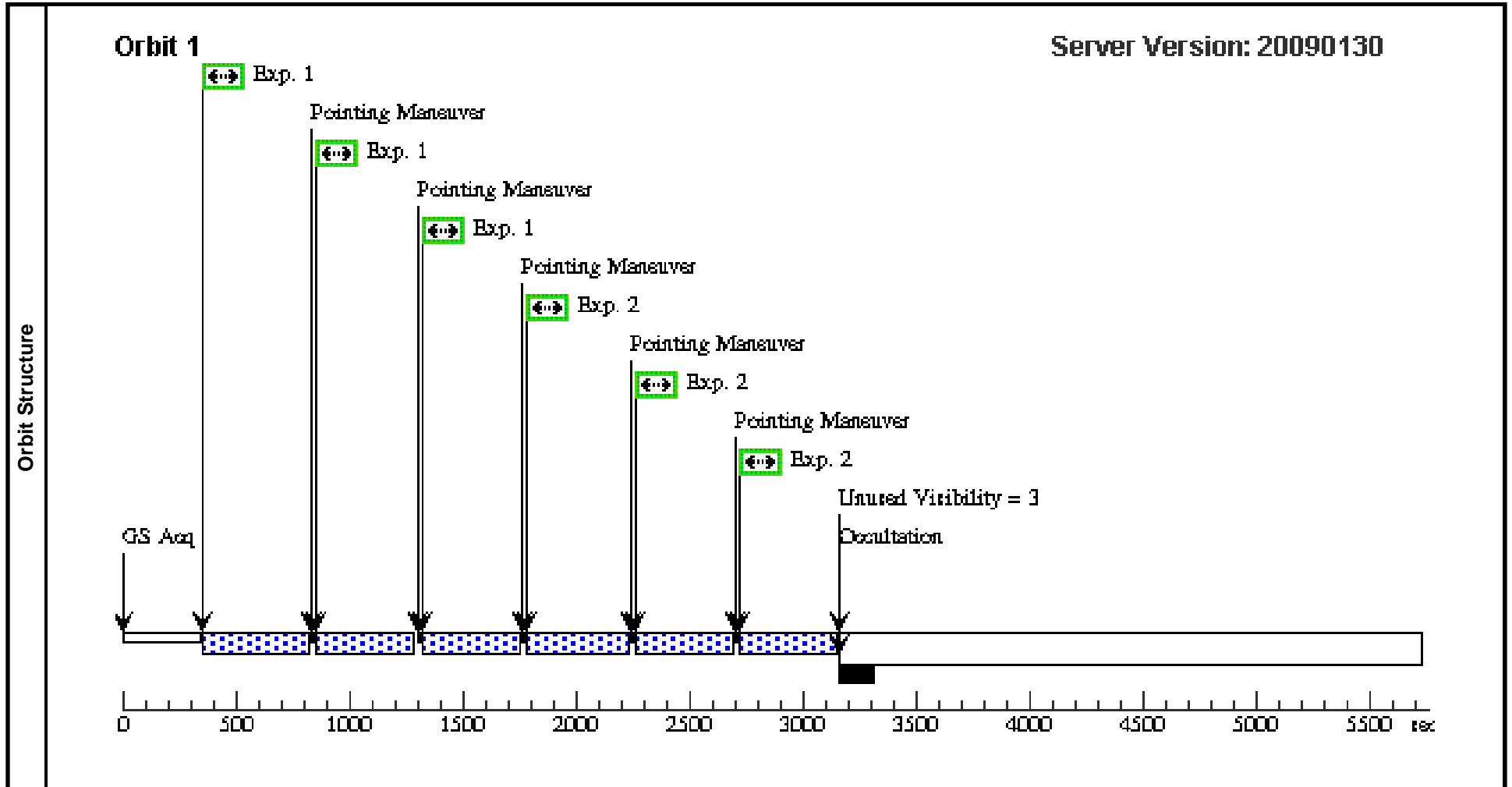
<b>Visit</b>	<b>Proposal 11980, Visit 16, scheduling</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/SBC Special Requirements: (none)										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>			<b>Exposures</b>	
(1)		Pattern Type=ACS-SBC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.110 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=44.71 Angle Between Sides= Center Pattern=true					(1), (2)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(18)	OPHIUCHUS-CLUSTER	RA: 17 12 27.7385 (258.1155771d) Dec: -23 22 10.66 (-23.36963d) Equinox: J2000		Proper Motion RA: 0s/yr Proper Motion Dec: 0"/yr Epoch of Position: 2000.0 Redshift: 0.028000		V=17.2	Reference Frame: ICRS			
<i>Comments: Centering from 2MASS point source catalogue for BCG center.</i>											
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>		<b>Orbit</b>
	1		(18) OPHIUCHUS-CLUSTER	ACS/SBC, ACCUM, SBC-FIX	F140LP			Pattern 1-1 (1)	398 Secs		
									[=>(Pattern 1)]		
									[=>(Pattern 2)]		[1]
									[=>(Pattern 3)]		
2		(18) OPHIUCHUS-CLUSTER	ACS/SBC, ACCUM, SBC-FIX	F150LP				Pattern 2-2 (1)	398 Secs		
									[=>(Pattern 1)]		
									[=>(Pattern 2)]		[1]
									[=>(Pattern 3)]		



Proposal 11980 - Visit 17 - Deep FUV Imaging of Cooling Flow Clusters

Sat Mar 21 01:47:10 GMT 2009

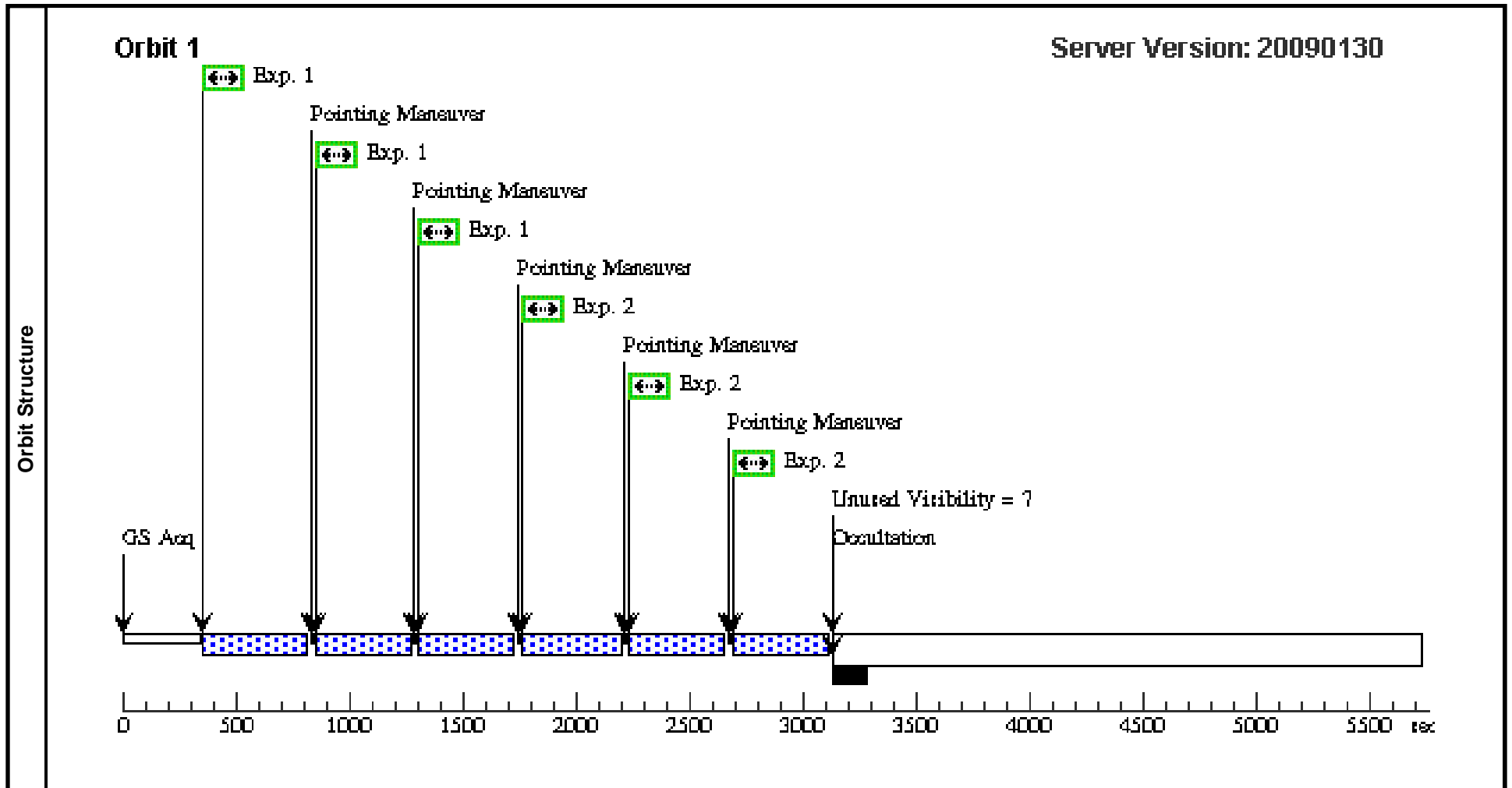
<b>Visit</b>	<b>Proposal 11980, Visit 17, scheduling</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/SBC Special Requirements: (none)										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>			<b>Exposures</b>	
(1)		Pattern Type=ACS-SBC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.110 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=44.71 Angle Between Sides= Center Pattern=true					(1), (2)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(19)	SERSIC159-03	RA: 23 13 58.6354 (348.4943142d) Dec: -42 43 30.17 (-42.72505d) Equinox: J2000		Proper Motion RA: 0s/yr Proper Motion Dec: 0"/yr Epoch of Position: 2000.0 Redshift: 0.058		V=8.8	Reference Frame: ICRS			
<i>Comments: Centering from 2MASS point source catalogue for BCG center.</i>											
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>		<b>Orbit</b>
	1		(19) SERSIC159-03	ACS/SBC, ACCUM, SBC-FIX	F140LP			Pattern 1-1 (1)	402 Secs		
									[=>(Pattern 1)]		
									[=>(Pattern 2)]		[1]
									[=>(Pattern 3)]		
2		(19) SERSIC159-03	ACS/SBC, ACCUM, SBC-FIX	F150LP				Pattern 2-2 (1)	402 Secs		
									[=>(Pattern 1)]		
									[=>(Pattern 2)]		[1]
									[=>(Pattern 3)]		



Proposal 11980 - Visit 18 - Deep FUV Imaging of Cooling Flow Clusters

Sat Mar 21 01:47:10 GMT 2009

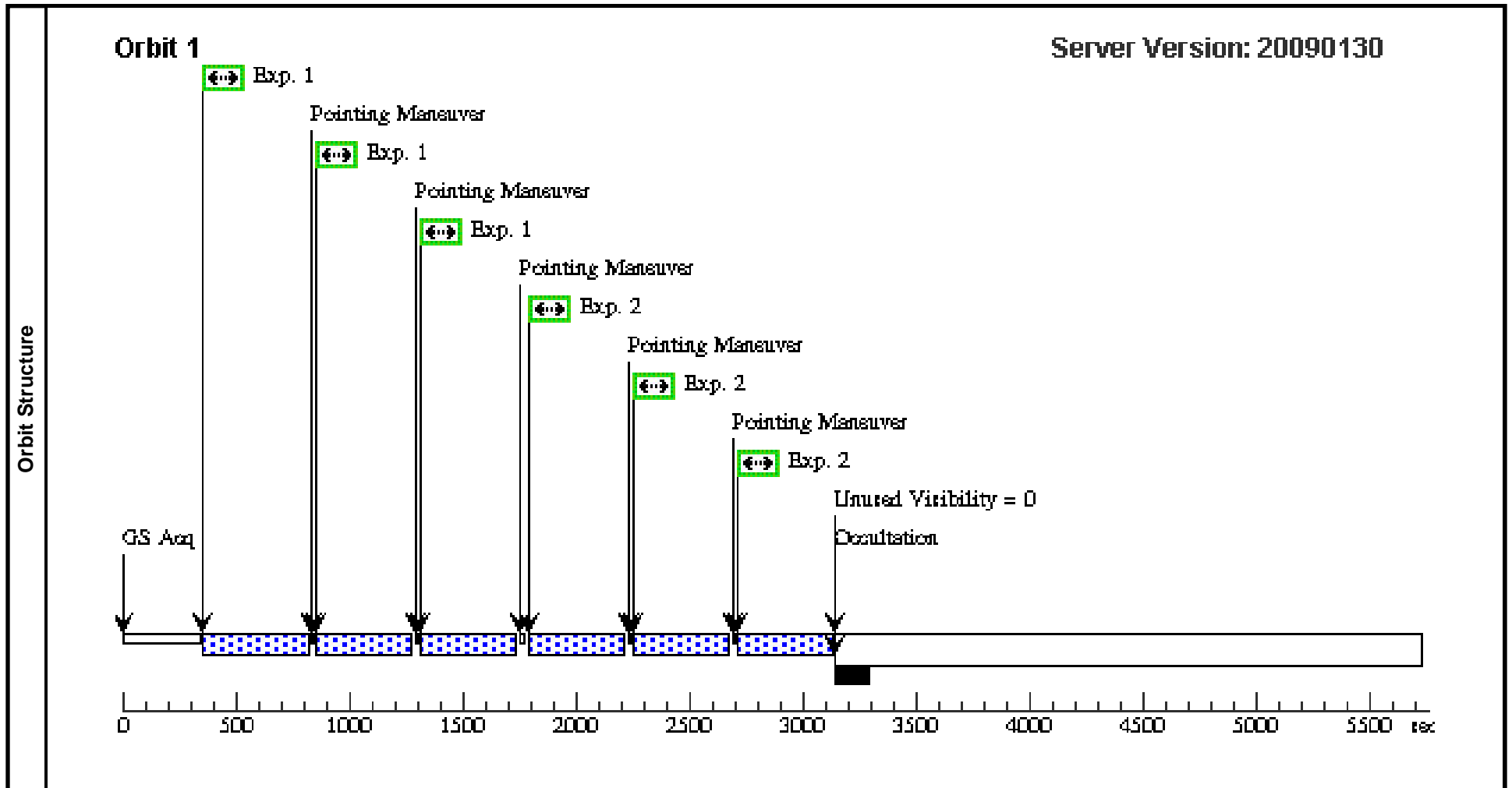
<b>Visit</b>	<b>Proposal 11980, Visit 18, scheduling</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/SBC Special Requirements: (none)										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>			<b>Exposures</b>	
(1)		Pattern Type=ACS-SBC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.110 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=44.71 Angle Between Sides= Center Pattern=true					(1), (2)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(20)	ABELL-0970	RA: 10 17 25.6891 (154.3570379d) Dec: -10 41 20.33 (-10.68898d) Equinox: J2000		Proper Motion RA: 0s/yr Proper Motion Dec: 0"/yr Epoch of Position: 2000.0 Redshift: 0.058700		V=14.0	Reference Frame: ICRS			
<i>Comments: Centering from 2MASS point source catalogue for BCG center.</i>											
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>		<b>Orbit</b>
	1		(20) ABELL-0970	ACS/SBC, ACCUM, SBC-FIX	F140LP			Pattern 1-1 (1)	396 Secs		
									[=>(Pattern 1)]		
									[=>(Pattern 2)]		[1]
									[=>(Pattern 3)]		
2		(20) ABELL-0970	ACS/SBC, ACCUM, SBC-FIX	F150LP				Pattern 2-2 (1)	396 Secs		
									[=>(Pattern 1)]		
									[=>(Pattern 2)]		[1]
									[=>(Pattern 3)]		



Proposal 11980 - Visit 19 - Deep FUV Imaging of Cooling Flow Clusters

Sat Mar 21 01:47:10 GMT 2009

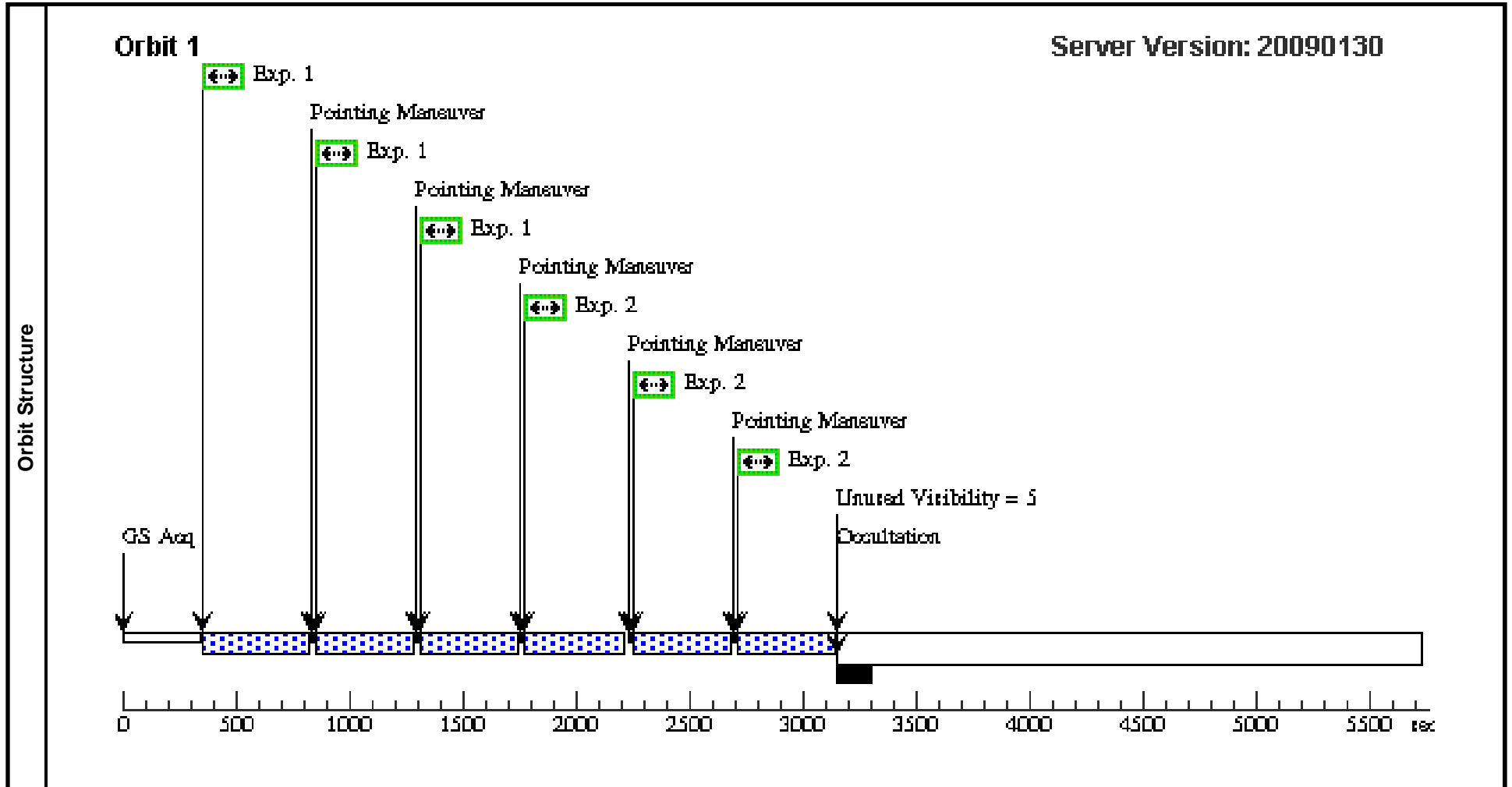
<b>Visit</b>	<b>Proposal 11980, Visit 19, scheduling</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/SBC Special Requirements: (none)										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=ACS-SBC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.110 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=44.71 Angle Between Sides= Center Pattern=true						(1), (2)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(4)	ABELL-1795-N	RA: 13 48 52.7500 (207.2197917d) Dec: +26 35 30.12 (26.59170d) Equinox: J2000				V=12.1	Reference Frame: ICRS			
	<i>Comments: Position based on MMTF astrometry.</i>										
	(5)	ABELL-1795-S	RA: 13 48 52.7500 (207.2197917d) Dec: +26 35 3.12 (26.58420d) Equinox: J2000				V=12.1	Reference Frame: ICRS			
<i>Comments: Position based on MMTF astrometry.</i>											
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>		<b>Orbit</b>
	1		(4) ABELL-1795-N	ACS/SBC, ACCUM, SBC-FIX	F140LP			Pattern 1-1 (1)	399 Secs		
										[=>(Pattern 1)]	[1]
										[=>(Pattern 2)]	
									[=>(Pattern 3)]		
2		(5) ABELL-1795-S	ACS/SBC, ACCUM, SBC-FIX	F140LP				Pattern 2-2 (1)	399 Secs		
									[=>(Pattern 1)]	[1]	
									[=>(Pattern 2)]		
									[=>(Pattern 3)]		



Proposal 11980 - Visit 20 - Deep FUV Imaging of Cooling Flow Clusters

Sat Mar 21 01:47:10 GMT 2009

Visit	<b>Proposal 11980, Visit 20, scheduling</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/SBC Special Requirements: (none) <i>Comments: Bright object warning: flux=5.12e-17 erg/s/cm^2/A, no warning from ACS ETC. Safe.</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=ACS-SBC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.110 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.71 Angle Between Sides= Center Pattern=true					(1), (2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(21)	ABELL-3376B	RA: 06 02 9.6300 (90.5401250d) Dec: -39 56 57.80 (-39.94939d) Equinox: J2000	Proper Motion RA: 0s/yr Proper Motion Dec: 0"/yr Epoch of Position: 2000.0 Redshift: 0.085200		V=13.2	Reference Frame: ICRS			
	<i>Comments: Centering from 2MASS point source catalogue for BCG center.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(21) ABELL-3376B	ACS/SBC, ACCUM, SBC-FIX	F140LP			Pattern 1-1 (1)	400 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
2		(21) ABELL-3376B	ACS/SBC, ACCUM, SBC-FIX	F150LP			Pattern 2-2 (1)	400 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	



Proposal 11980 - Visit 52 - Deep FUV Imaging of Cooling Flow Clusters

Sat Mar 21 01:47:11 GMT 2009

<b>Visit</b>	<b>Proposal 11980, Visit 52, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/SBC Special Requirements: (none) <i>Comments: Bright object warning: flux=6.34e-17 erg/s/cm^2/A, no warning from ACS ETC. Safe.</i>										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>			<b>Secondary Pattern</b>			<b>Exposures</b>		
(1)		Pattern Type=ACS-SBC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.110 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=44.71 Angle Between Sides= Center Pattern=true					(1), (2)			
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>				
	(23)	ABELL-1644-COPY	RA: 12 57 11.7308 (194.2988783d) Dec: -17 24 35.68 (-17.40991d) Equinox: J2000	Proper Motion RA: 0s/yr Proper Motion Dec: 0"/yr Epoch of Position: 2000.0 Redshift: 0.047300		V=8.3	Reference Frame: ICRS				
<i>Comments: Centering from 2MASS point source catalogue for BCG center.</i>											
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>		<b>Orbit</b>
	1		(23) ABELL-1644-COPY	ACS/SBC, ACCUM, SBC-FIX	F140LP		GS ACQ SCENARI O BASE1T3	Pattern 1-1 (1)	367 Secs		
									[=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]		[1]
	2		(23) ABELL-1644-COPY	ACS/SBC, ACCUM, SBC-FIX	F150LP				Pattern 2-2 (1)	367 Secs	
									[=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]		[1]

