



## 10793 - A Survey for Supernovae in Massive High-Redshift Clusters

Cycle: 15, Proposal Category: GO

(Availability Mode: SUPPORTED)

### INVESTIGATORS

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### VISITS

<i>Visit</i>	<i>Targets</i>	<i>Configurations</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(16) SDSS1004+41	ACS/WFC	1	30-May-2006 21:01:59.0	yes

Proposal 10793 - Overview

<i>Visit</i>	<i>Targets</i>	<i>Configurations</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
02	(2) MACSJ0257-2325	ACS/WFC	1	30-May-2006 21:02:05.0	yes
03	(3) MACSJ0647+7015	ACS/WFC	1	30-May-2006 21:02:09.0	yes
04	(4) MACSJ0717+3745	ACS/WFC	1	30-May-2006 21:02:12.0	yes
05	(5) MACSJ0744+3927	ACS/WFC	1	30-May-2006 21:02:15.0	yes
06	(6) MACSJ0911+1746	ACS/WFC	1	30-May-2006 21:02:19.0	yes
07	(7) MACSJ1149+2223	ACS/WFC	1	30-May-2006 21:02:22.0	yes
08	(8) MACSJ1423+2404	ACS/WFC	1	30-May-2006 21:02:25.0	yes
09	(9) MACSJ2129-0741	ACS/WFC	1	30-May-2006 21:02:28.0	yes
10	(10) MACSJ2214-1359	ACS/WFC	1	30-May-2006 21:02:31.0	yes
11	(11) CLJ1226.9+3332	ACS/WFC	1	30-May-2006 21:02:34.0	yes
12	(12) MS1054.4-0321	ACS/WFC	1	30-May-2006 21:02:37.0	yes
13	(13) MS0016.5+1654	ACS/WFC	1	30-May-2006 21:02:41.0	yes
14	(14) MS0451.6-0305	ACS/WFC	1	30-May-2006 21:02:44.0	yes
15	(15) CL0152-1357	ACS/WFC	1	30-May-2006 21:02:47.0	yes

15 Total Orbits Used

**ABSTRACT**

We propose to continue our ongoing program designed to measure, to an unprecedented 30% accuracy, the SN-Ia rate in a sample of massive  $z=0.5-0.9$  galaxy clusters. The SN-Ia rate is a poorly known observable, especially at high  $z$ , and in cluster environments. The SN rate and its redshift dependence can serve as powerful discriminants for a number of key issues in astrophysics and cosmology. Our observations will: 1. Put clear constraints on the characteristic SN-Ia "delay time," the typical time between the formation of a stellar population and the explosion of some of its members as SNe-Ia. Such constraints can exclude entire categories of SN-Ia progenitor models, since different models predict different delays. 2.

## Proposal 10793 - Overview

Help resolve the question of the dominant source of the high metallicity in the intracluster medium (ICM) - SNe-Ia, or core-collapse SNe from an early stellar population with a top-heavy IMF, perhaps those population III stars responsible for the early re-ionization of the Universe. Since clusters are excellent laboratories for studying enrichment (they generally have a simple star-formation history, and matter cannot leave their deep potentials), the results will be relevant for understanding metal enrichment in general, and the possible role of first generation stars in early Universal enrichment. Observations obtained so far during cycle 14 yield many SNe in our cluster fields, but our follow-up campaign reveals most are not in cluster galaxies. Our interim results indicate a cluster SN rate at the very low end of the range considered, and its accuracy is limited by the small number of cluster SNe. We request additional visits to increase the number of cluster SNe and achieve a measurement that is not limited by Poisson errors. A detailed progress report is included.

### **OBSERVING DESCRIPTION**

We intend to visit each target once. The length of each visit will be 1 orbit, and we will obtain 4 dithered exposures in a single filter, F814W or F775W.

Visit	<b>Proposal 10793, Visit 01</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: ORIENT 263.0D TO 269.0 D; ORIENT 173.0D TO 179.0 D; ORIENT 83.0D TO 89.0 D; ORIENT 353.0D TO 359.0 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(16)	SDSS1004+41	RA: 10 04 38.9616 (151.1623400d) Dec: +41 12 49.92 (41.21387d) Equinox: J2000		V=25.0 z=0.67	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Exposure 1	(16) SDSS1004+41	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO		Sequence 1-4 Non-Int	523.0 Secs [=>]	[1]
	2	Exposure 2	(16) SDSS1004+41	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 3.76,3.7	Sequence 1-4 Non-Int	528.0 Secs [=>]	[1]
	3	Exposure 3	(16) SDSS1004+41	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 7.495,7.47	Sequence 1-4 Non-Int	528.0 Secs [=>]	[1]
	4	Exposure 4	(16) SDSS1004+41	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO	POS TARG 11.255,1.18	Sequence 1-4 Non-Int	528.0 Secs [=>]	[1]
Orbit Structure	<b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20060322</b></span>									
	<p>The diagram illustrates the orbit structure for Orbit 1, showing a timeline from 0 to 5500 seconds. Key events include:</p> <ul style="list-style-type: none"> <li><b>GS Acq:</b> Ground Station Acquisition at approximately 0 seconds.</li> <li><b>Exp. 1, 2, 3, 4:</b> Four exposures, each marked with a green double-headed arrow, occurring at approximately 400, 1100, 1800, and 2500 seconds respectively.</li> <li><b>Pointing Maneuver:</b> Three pointing maneuvers are indicated by vertical arrows at approximately 1100, 1800, and 2500 seconds.</li> <li><b>Occultation:</b> An occultation event is shown at approximately 3200 seconds.</li> <li><b>Unused Visibility = 0:</b> A period of unused visibility is indicated from approximately 3200 to 3500 seconds.</li> <li><b>Observation Period:</b> A blue hatched bar represents the total observation time, spanning from approximately 400 to 3500 seconds.</li> </ul>									

Proposal 10793 - Visit 02 - A Survey for Supernovae in Massive High-Redshift Clusters

Wed May 31 01:02:49 GMT 2006

Visit	<b>Proposal 10793, Visit 02</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: ORIENT 61.0D TO 67.0 D; ORIENT 151.0D TO 157.0 D; ORIENT 241.0D TO 247.0 D; ORIENT 331.0D TO 337.0 D																																																		
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(2)</td> <td>MACSJ0257-2325</td> <td>RA: 02 57 8.8300 (44.2867917d) Dec: -23 26 3.30 (-23.43425d) Equinox: J2000</td> <td></td> <td>V=25.0+/-2.0 z=0.506</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	MACSJ0257-2325	RA: 02 57 8.8300 (44.2867917d) Dec: -23 26 3.30 (-23.43425d) Equinox: J2000		V=25.0+/-2.0 z=0.506	Reference Frame: ICRS																																					
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Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Exposure 1</td> <td>(2) MACSJ0257-232 5</td> <td>ACS/WFC, ACCUM, WFC</td> <td>F814W</td> <td>CR-SPLIT=NO</td> <td></td> <td>Sequence 1-4 Non-Int</td> <td>521.0 Secs [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>Exposure 2</td> <td>(2) MACSJ0257-232 5</td> <td>ACS/WFC, ACCUM, WFC</td> <td>F814W</td> <td>CR-SPLIT=NO</td> <td>POS TARG 3.76,3.7 1</td> <td>Sequence 1-4 Non-Int</td> <td>521.0 Secs [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>Exposure 3</td> <td>(2) MACSJ0257-232 5</td> <td>ACS/WFC, ACCUM, WFC</td> <td>F814W</td> <td>CR-SPLIT=NO</td> <td>POS TARG 7.495,7. 47</td> <td>Sequence 1-4 Non-Int</td> <td>521.0 Secs [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>Exposure 4</td> <td>(2) MACSJ0257-232 5</td> <td>ACS/WFC, ACCUM, WFC</td> <td>F814W</td> <td>CR-SPLIT=NO</td> <td>POS TARG 11.255,1 1.18</td> <td>Sequence 1-4 Non-Int</td> <td>521.0 Secs [==&gt;]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	1	Exposure 1	(2) MACSJ0257-232 5	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO		Sequence 1-4 Non-Int	521.0 Secs [==>]	[1]	2	Exposure 2	(2) MACSJ0257-232 5	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 3.76,3.7 1	Sequence 1-4 Non-Int	521.0 Secs [==>]	[1]	3	Exposure 3	(2) MACSJ0257-232 5	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 7.495,7. 47	Sequence 1-4 Non-Int	521.0 Secs [==>]	[1]	4	Exposure 4	(2) MACSJ0257-232 5	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 11.255,1 1.18	Sequence 1-4 Non-Int	521.0 Secs [==>]	[1]
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit																																										
1	Exposure 1	(2) MACSJ0257-232 5	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO		Sequence 1-4 Non-Int	521.0 Secs [==>]	[1]																																										
2	Exposure 2	(2) MACSJ0257-232 5	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 3.76,3.7 1	Sequence 1-4 Non-Int	521.0 Secs [==>]	[1]																																										
3	Exposure 3	(2) MACSJ0257-232 5	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 7.495,7. 47	Sequence 1-4 Non-Int	521.0 Secs [==>]	[1]																																										
4	Exposure 4	(2) MACSJ0257-232 5	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 11.255,1 1.18	Sequence 1-4 Non-Int	521.0 Secs [==>]	[1]																																										
Orbit Structure	<p><b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20060322</b></span></p> <p>The diagram illustrates the orbit structure over a 5500-second period. Key events include:</p> <ul style="list-style-type: none"> <li><b>GS Acq:</b> Ground Station Acquisition at approximately 0 seconds.</li> <li><b>Exp. 1:</b> Exposure 1 starting at ~400s.</li> <li><b>Exp. 2:</b> Exposure 2 starting at ~1100s.</li> <li><b>Exp. 3:</b> Exposure 3 starting at ~1800s.</li> <li><b>Exp. 4:</b> Exposure 4 starting at ~2500s.</li> <li><b>Pointing Maneuvers:</b> Three maneuvers occur between exposures.</li> <li><b>Occultation:</b> A period of occultation begins at ~3200s.</li> <li><b>Unused Visibility = 1:</b> A period of unused visibility follows the occultation.</li> </ul>																																																		

Proposal 10793 - Visit 03 - A Survey for Supernovae in Massive High-Redshift Clusters

Wed May 31 01:02:50 GMT 2006

Visit	<b>Proposal 10793, Visit 03</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: ORIENT 232.0D TO 238.0 D; ORIENT 142.0D TO 148.0 D; ORIENT 52.0D TO 58.0 D; ORIENT 322.0D TO 328.0 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(3)	MACSJ0647+7015	RA: 06 47 49.7800 (101.9574167d) Dec: +70 14 56.40 (70.24900d) Equinox: J2000		V=25.0+/-2.0 z=0.584	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Exposure 1	(3) MACSJ0647+7015	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO		Sequence 1-4 Non-Int	521.0 Secs [=>564.0 Secs]	[1]
	2	Exposure 2	(3) MACSJ0647+7015	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 3.76,3.7	Sequence 1-4 Non-Int	521.0 Secs [=>564.0 Secs]	[1]
	3	Exposure 3	(3) MACSJ0647+7015	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 7.495,7.47	Sequence 1-4 Non-Int	521.0 Secs [=>564.0 Secs]	[1]
	4	Exposure 4	(3) MACSJ0647+7015	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 11.255,1.18	Sequence 1-4 Non-Int	521.0 Secs [=>564.0 Secs]	[1]
Orbit Structure	<p><b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20060322</b></span></p> <p>The diagram illustrates the orbit structure for Orbit 1. The x-axis represents time in seconds, ranging from 0 to 5500. Key events are marked with vertical arrows: GS Acq at approximately 100s, Exp. 1 at 400s, Exp. 2 at 1100s, Exp. 3 at 1800s, Exp. 4 at 2500s, and Occultation at 3300s. Three Pointing Maneuvers occur between the exposures. A blue checkered bar indicates the observation period from approximately 400s to 3300s. A black bar at the end of the timeline is labeled 'Unused Visibility = 3'.</p>									

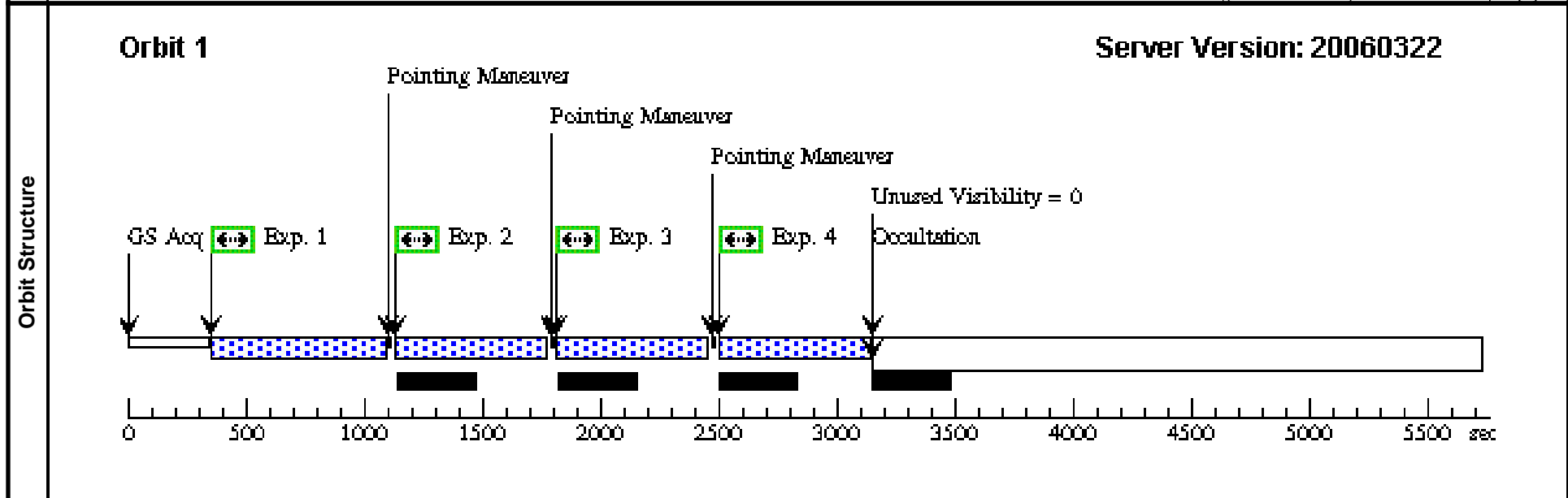
Proposal 10793 - Visit 04 - A Survey for Supernovae in Massive High-Redshift Clusters

Wed May 31 01:02:50 GMT 2006

<b>Visit</b>	<b>Proposal 10793, Visit 04</b>				
	<b>Diagnostic Status: No Diagnostics</b>				
	Scientific Instruments: ACS/WFC				
	Special Requirements: ORIENT 81.0D TO 87.0 D; ORIENT 171.0D TO 177.0 D; ORIENT 261.0D TO 267.0 D; ORIENT 351.0D TO 357.0 D				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	MACSJ0717+3745	RA: 07 17 32.9300 (109.3872083d) Dec: +37 45 5.40 (37.75150d) Equinox: J2000		V=25.0+/-2.0 z=0.548	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Exposure 1	(4) MACSJ0717+3745	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO		Sequence 1-4 Non-Int	521.0 Secs [=>534.0 Secs]	[1]
	2	Exposure 2	(4) MACSJ0717+3745	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 3.76,3.7	Sequence 1-4 Non-Int	521.0 Secs [=>521.0 Secs]	[1]
	3	Exposure 3	(4) MACSJ0717+3745	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 7.495,7.47	Sequence 1-4 Non-Int	521.0 Secs [=>521.0 Secs]	[1]
	4	Exposure 4	(4) MACSJ0717+3745	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 11.255,1.18	Sequence 1-4 Non-Int	521.0 Secs [=>521.0 Secs]	[1]



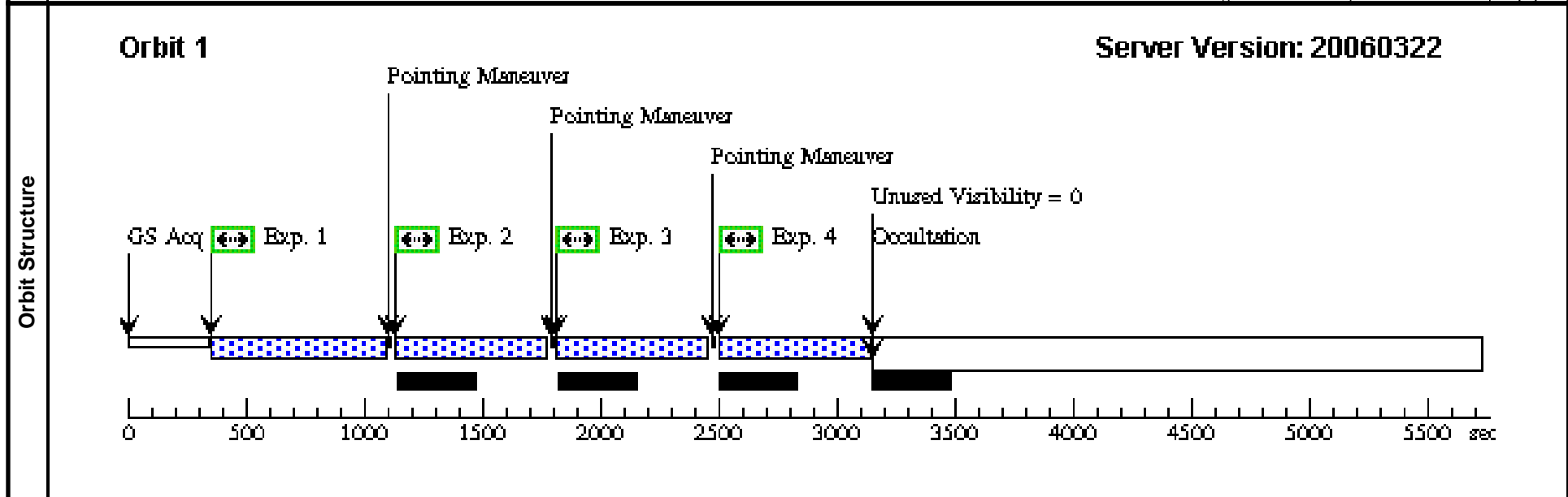
Proposal 10793 - Visit 05 - A Survey for Supernovae in Massive High-Redshift Clusters

Wed May 31 01:02:50 GMT 2006

<b>Visit</b>	<b>Proposal 10793, Visit 05</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: ORIENT 29.0D TO 59.0 D; ORIENT 119.0D TO 149.0 D; ORIENT 209.0D TO 239.0 D; ORIENT 299.0D TO 329.0 D Comments: <i>Orbit requirement relaxed from +/- 3 to +/- 15 deg. to allow schedulability</i>
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<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	MACSJ0744+3927	RA: 07 44 52.5800 (116.2190833d) Dec: +39 27 26.70 (39.45742d) Equinox: J2000		V=25.0+/-2.0 z=0.686	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Exposure 1	(5) MACSJ0744+3927	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO		Sequence 1-4 Non-Int	521.0 Secs [=>534.0 Secs]	[1]
	2	Exposure 2	(5) MACSJ0744+3927	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 3.76,3.7	Sequence 1-4 Non-Int	521.0 Secs [=>521.0 Secs]	[1]
	3	Exposure 3	(5) MACSJ0744+3927	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 7.495,7.47	Sequence 1-4 Non-Int	521.0 Secs [=>521.0 Secs]	[1]
	4	Exposure 4	(5) MACSJ0744+3927	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 11.255,1.18	Sequence 1-4 Non-Int	521.0 Secs [=>521.0 Secs]	[1]

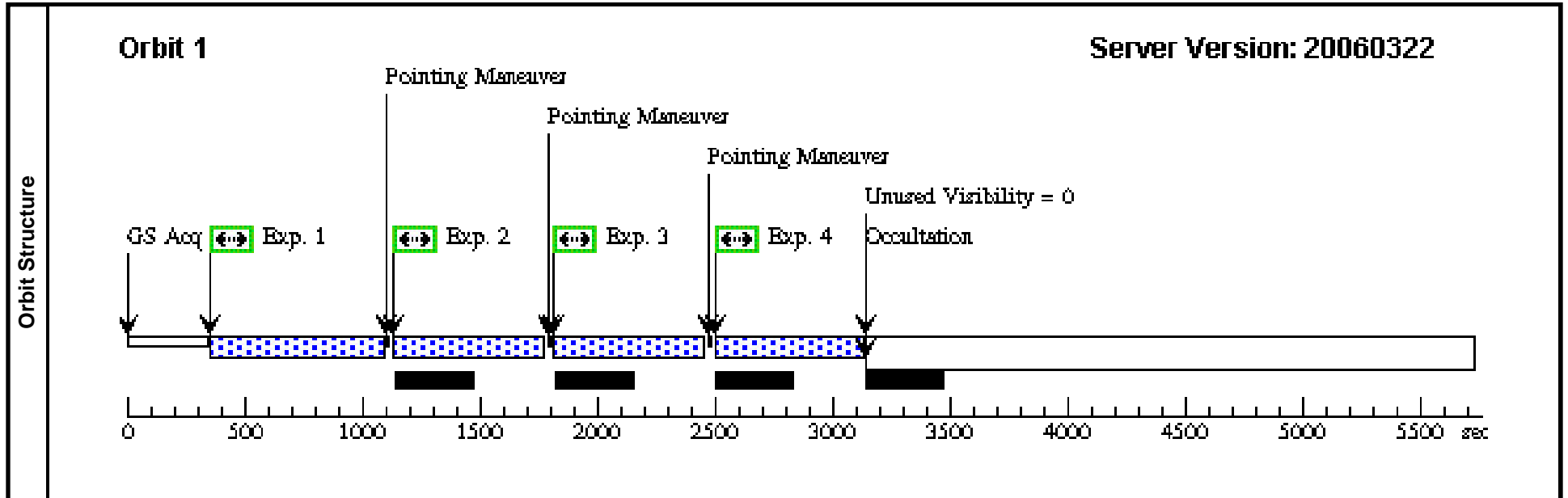


Visit	<b>Proposal 10793, Visit 06</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: ORIENT 15.0D TO 21.0 D; ORIENT 105.0D TO 111.0 D; ORIENT 195.0D TO 201.0 D; ORIENT 285.0D TO 291.0 D																																																		
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(6)</td> <td>MACSJ0911+1746</td> <td>RA: 09 11 11.1800 (137.7965833d) Dec: +17 46 34.80 (17.77633d) Equinox: J2000</td> <td></td> <td>V=25.0+/-2.0 z=0.504</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(6)	MACSJ0911+1746	RA: 09 11 11.1800 (137.7965833d) Dec: +17 46 34.80 (17.77633d) Equinox: J2000		V=25.0+/-2.0 z=0.504	Reference Frame: ICRS																																					
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Orbit Structure	<p><b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20060322</b></span></p> <p>The diagram shows a timeline from 0 to 5500 seconds. Key events include: GS Acq at ~200s; Exp. 1 (green arrow) at ~400s; Exp. 2 (green arrow) at ~1100s; Exp. 3 (green arrow) at ~1800s; Exp. 4 (green arrow) at ~2500s; Occultation at ~3200s; and Unused Visibility = 0 from ~3500s to 5500s. Three pointing maneuvers are indicated by vertical arrows at approximately 1100s, 1800s, and 2500s. A blue checkered bar represents the observation window, and black bars below the timeline indicate occultation periods.</p>																																																		

Proposal 10793 - Visit 07 - A Survey for Supernovae in Massive High-Redshift Clusters

Wed May 31 01:02:51 GMT 2006

Visit	<b>Proposal 10793, Visit 07</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: ORIENT 40.0D TO 46.0 D; ORIENT 130.0D TO 136.0 D; ORIENT 220.0D TO 226.0 D; ORIENT 310.0D TO 316.0 D; ON HOLD <i>On Hold Comments: This visit should only be preformed at least 6 months after our cycle 14 observations of the same target are done (GO 10493, visit 7).</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(7)	MACSJ1149+2223	RA: 11 49 35.5100 (177.3979583d) Dec: +22 24 4.20 (22.40117d) Equinox: J2000		V=25.0+/-2.0 z=0.544	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Exposure 1	(7) MACSJ1149+2223	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO		Sequence 1-4 Non-Int	521.0 Secs [=>534.0 Secs]	[1]
	2	Exposure 2	(7) MACSJ1149+2223	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 3.76,3.71	Sequence 1-4 Non-Int	521.0 Secs [=>521.0 Secs]	[1]
	3	Exposure 3	(7) MACSJ1149+2223	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 7.495,7.47	Sequence 1-4 Non-Int	521.0 Secs [=>521.0 Secs]	[1]
	4	Exposure 4	(7) MACSJ1149+2223	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 11.255,11.18	Sequence 1-4 Non-Int	521.0 Secs [=>509.0 Secs]	[1]



Visit	<b>Proposal 10793, Visit 08</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: ORIENT 42.0D TO 48.0 D; ORIENT 132.0D TO 138.0 D; ORIENT 222.0D TO 228.0 D; ORIENT 312.0D TO 318.0 D																																																		
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Orbit Structure	<p><b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20060322</b></span></p> <p>The diagram illustrates the orbit structure for Orbit 1. The timeline starts at 0 seconds with 'GS Acq'. This is followed by 'Exp. 1' (approx. 300-800s), 'Exp. 2' (approx. 1000-1500s), 'Exp. 3' (approx. 1700-2200s), and 'Exp. 4' (approx. 2400-2900s). Each exposure is preceded by a 'Pointing Maneuver'. Following 'Exp. 4', there is an 'Occultation' period (approx. 3100-3500s) labeled 'Unused Visibility = 1'. The x-axis represents time in seconds, ranging from 0 to 5500.</p>																																																		

Visit	<b>Proposal 10793, Visit 09</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: ORIENT 357.0D TO 3.0 D; ORIENT 87.0D TO 93.0 D; ORIENT 177.0D TO 183.0 D; ORIENT 267.0D TO 273.0 D																																																		
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Orbit Structure	<p><b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20060322</b></span></p> <p>The diagram illustrates the orbit structure over a 5500-second period. It shows four exposures (Exp. 1-4) each lasting approximately 521 seconds, separated by pointing maneuvers. The total time for these exposures and maneuvers is approximately 3200 seconds. The remaining time (approximately 2300 seconds) is marked as 'Unused Visibility = 0' due to an occultation. The x-axis is labeled 'sec' and ranges from 0 to 5500.</p>																																																		

Proposal 10793 - Visit 10 - A Survey for Supernovae in Massive High-Redshift Clusters

Wed May 31 01:02:52 GMT 2006

Visit	<b>Proposal 10793, Visit 10</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: ORIENT 63.0D TO 73.0 D; ORIENT 153.0D TO 163.0 D; ORIENT 243.0D TO 253.0 D; ORIENT 333.0D TO 343.0 D																																																		
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3	Exposure 3	(10) MACSJ2214-1359	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 7.495,7.47	Sequence 1-4 Non-Int	505.0 Secs [==>]	[1]																																										
4	Exposure 4	(10) MACSJ2214-1359	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 11.255,1.18	Sequence 1-4 Non-Int	505.0 Secs [==>]	[1]																																										
Orbit Structure	<p><b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20060322</b></span></p> <p>The diagram illustrates the orbit structure for Orbit 1. The x-axis represents time in seconds, ranging from 0 to 5500. Key events are marked: GS Acq at 0s, Exp. 1 (505s), Exp. 2 (505s), Exp. 3 (505s), Exp. 4 (505s), three Pointing Maneuvers, an Occultation at 3150s, and Unused Visibility from 3150s to 5500s.</p>																																																		

Proposal 10793 - Visit 11 - A Survey for Supernovae in Massive High-Redshift Clusters

Wed May 31 01:02:52 GMT 2006

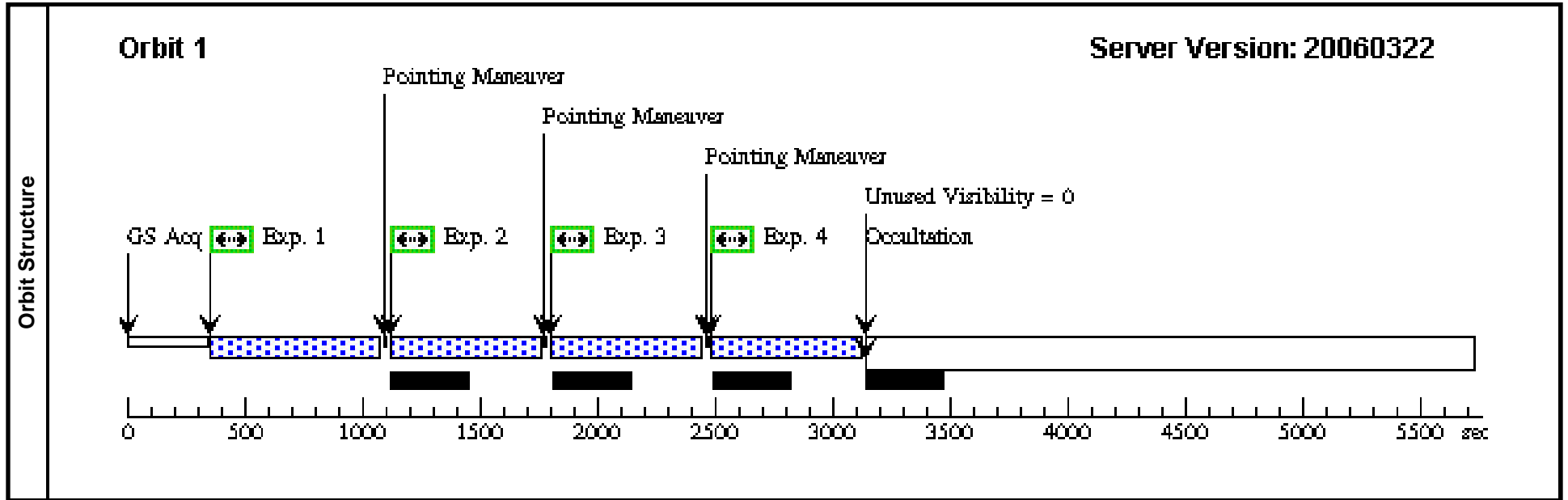
Visit	<b>Proposal 10793, Visit 11</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: ORIENT 71.0D TO 77.0 D; ORIENT 161.0D TO 167.0 D; ORIENT 251.0D TO 257.0 D; ORIENT 341.0D TO 347.0 D																																																		
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(11)</td> <td>CLJ1226.9+3332</td> <td>RA: 12 26 58.2100 (186.7425417d) Dec: +33 32 49.40 (33.54706d) Equinox: J2000</td> <td></td> <td>V=25.0+/-2.0 z=0.888</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(11)	CLJ1226.9+3332	RA: 12 26 58.2100 (186.7425417d) Dec: +33 32 49.40 (33.54706d) Equinox: J2000		V=25.0+/-2.0 z=0.888	Reference Frame: ICRS																																					
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Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Exposure 1</td> <td>(11) CLJ1226.9+333 2</td> <td>ACS/WFC, ACCUM, WFC</td> <td>F814W</td> <td>CR-SPLIT=NO</td> <td></td> <td>Sequence 1-4 Non-Int</td> <td>521.0 Secs [=&gt;521.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>Exposure 2</td> <td>(11) CLJ1226.9+333 2</td> <td>ACS/WFC, ACCUM, WFC</td> <td>F814W</td> <td>CR-SPLIT=NO</td> <td>POS TARG 3.76,3.7</td> <td>Sequence 1-4 Non-Int</td> <td>521.0 Secs [=&gt;521.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>Exposure 3</td> <td>(11) CLJ1226.9+333 2</td> <td>ACS/WFC, ACCUM, WFC</td> <td>F814W</td> <td>CR-SPLIT=NO</td> <td>POS TARG 7.495,7.47</td> <td>Sequence 1-4 Non-Int</td> <td>521.0 Secs [=&gt;521.0 Secs]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>Exposure 4</td> <td>(11) CLJ1226.9+333 2</td> <td>ACS/WFC, ACCUM, WFC</td> <td>F814W</td> <td>CR-SPLIT=NO</td> <td>POS TARG 11.255,1.18</td> <td>Sequence 1-4 Non-Int</td> <td>521.0 Secs [=&gt;524.0 Secs]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	1	Exposure 1	(11) CLJ1226.9+333 2	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO		Sequence 1-4 Non-Int	521.0 Secs [=>521.0 Secs]	[1]	2	Exposure 2	(11) CLJ1226.9+333 2	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 3.76,3.7	Sequence 1-4 Non-Int	521.0 Secs [=>521.0 Secs]	[1]	3	Exposure 3	(11) CLJ1226.9+333 2	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 7.495,7.47	Sequence 1-4 Non-Int	521.0 Secs [=>521.0 Secs]	[1]	4	Exposure 4	(11) CLJ1226.9+333 2	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 11.255,1.18	Sequence 1-4 Non-Int	521.0 Secs [=>524.0 Secs]	[1]
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Orbit Structure	<p><b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20060322</b></span></p> <p>The diagram illustrates the orbit structure for Orbit 1. The timeline starts at 0 seconds and ends at 5500 seconds. Key events include: GS Acq at approximately 100s; Exp. 1 (green arrow) at approximately 400s; Exp. 2 (green arrow) at approximately 1100s; Exp. 3 (green arrow) at approximately 1800s; Exp. 4 (green arrow) at approximately 2500s; three pointing maneuvers (black arrows) at approximately 1100s, 1800s, and 2500s; an occultation (black bar) at approximately 3200s; and a period of unused visibility (white bar) from approximately 3200s to 5500s. The x-axis is labeled 'sec' and has major ticks every 500 units.</p>																																																		

Visit	<b>Proposal 10793, Visit 12</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: ORIENT 35.0D TO 41.0 D; ORIENT 125.0D TO 131.0 D; ORIENT 215.0D TO 221.0 D; ORIENT 305.0D TO 311.0 D																																																		
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(12)</td> <td>MS1054.4-0321</td> <td>RA: 10 57 0.2000 (164.2508333d) Dec: -03 37 27.00 (-3.62417d) Equinox: J2000</td> <td></td> <td>V=25.0+/-2.0 z=0.83</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(12)	MS1054.4-0321	RA: 10 57 0.2000 (164.2508333d) Dec: -03 37 27.00 (-3.62417d) Equinox: J2000		V=25.0+/-2.0 z=0.83	Reference Frame: ICRS																																					
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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit																																										
1	Exposure 1	(12) MS1054.4-0321	ACS/WFC, ACCUM, WFC	F775W	CR-SPLIT=NO		Sequence 1-4 Non-Int	521.0 Secs [=>516.0 Secs]	[1]																																										
2	Exposure 2	(12) MS1054.4-0321	ACS/WFC, ACCUM, WFC	F775W	CR-SPLIT=NO	POS TARG 3.76,3.7	Sequence 1-4 Non-Int	521.0 Secs [=>517.0 Secs]	[1]																																										
3	Exposure 3	(12) MS1054.4-0321	ACS/WFC, ACCUM, WFC	F775W	CR-SPLIT=NO	POS TARG 7.495,7.47	Sequence 1-4 Non-Int	521.0 Secs [=>517.0 Secs]	[1]																																										
4	Exposure 4	(12) MS1054.4-0321	ACS/WFC, ACCUM, WFC	F775W	CR-SPLIT=NO	POS TARG 11.255,11.18	Sequence 1-4 Non-Int	521.0 Secs [=>520.0 Secs]	[1]																																										
Orbit Structure	<p><b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20060322</b></span></p>																																																		

Proposal 10793 - Visit 13 - A Survey for Supernovae in Massive High-Redshift Clusters

Wed May 31 01:02:54 GMT 2006

Visit	<b>Proposal 10793, Visit 13</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: ORIENT 65.0D TO 71.0 D; ORIENT 155.0D TO 161.0 D; ORIENT 245.0D TO 251.0 D; ORIENT 335.0D TO 341.0 D; ON HOLD <i>On Hold Comments: This visit should only be preformed at least 6 months after our cycle 14 observations of the same target are done (GO 10493, visit 13).</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(13)	MS0016.5+1654	RA: 00 18 32.8000 (4.6366667d) Dec: +16 26 6.90 (16.43525d) Equinox: J2000		V=25.0+/-2.0 z=0.54	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Exposure 1	(13) MS0016.5+1654	ACS/WFC, ACCUM, WFC	F775W	CR-SPLIT=NO		Sequence 1-4 Non-Int	521.0 Secs [==>521.0 Secs]	[1]
	2	Exposure 2	(13) MS0016.5+1654	ACS/WFC, ACCUM, WFC	F775W	CR-SPLIT=NO	POS TARG 3.76,3.71	Sequence 1-4 Non-Int	521.0 Secs [==>521.0 Secs]	[1]
	3	Exposure 3	(13) MS0016.5+1654	ACS/WFC, ACCUM, WFC	F775W	CR-SPLIT=NO	POS TARG 7.495,7.47	Sequence 1-4 Non-Int	521.0 Secs [==>520.0 Secs]	[1]
	4	Exposure 4	(13) MS0016.5+1654	ACS/WFC, ACCUM, WFC	F775W	CR-SPLIT=NO	POS TARG 11.255,11.18	Sequence 1-4 Non-Int	521.0 Secs [==>520.0 Secs]	[1]



Proposal 10793 - Visit 14 - A Survey for Supernovae in Massive High-Redshift Clusters

Wed May 31 01:02:54 GMT 2006

Visit	<b>Proposal 10793, Visit 14</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: ORIENT 58.0D TO 63.0 D; ORIENT 148.0D TO 153.0 D; ORIENT 238.0D TO 243.0 D; ORIENT 328.0D TO 333.0 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(14)	MS0451.6-0305	RA: 04 54 10.4800 (73.5436667d) Dec: -03 01 38.50 (-3.02736d) Equinox: J2000		V=25.0+/-2.0 z=0.55	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Exposure 1	(14) MS0451.6-0305	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO		Sequence 1-4 Non-Int	521.0 Secs [=>517.0 Secs]	[1]
	2	Exposure 2	(14) MS0451.6-0305	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 3.76,3.7	Sequence 1-4 Non-Int	521.0 Secs [=>517.0 Secs]	[1]
	3	Exposure 3	(14) MS0451.6-0305	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 7.495,7.47	Sequence 1-4 Non-Int	521.0 Secs [=>517.0 Secs]	[1]
	4	Exposure 3	(14) MS0451.6-0305	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 11.255,1.18	Sequence 1-4 Non-Int	521.0 Secs [=>519.0 Secs]	[1]

**Orbit 1**

The diagram shows a horizontal timeline from 0 to 5500 seconds. Key events are marked with vertical arrows: GS Acq at ~200s, Exp. 1 at ~400s, Exp. 2 at ~1100s, Exp. 3 at ~1800s, Exp. 4 at ~2500s, and Occultation at ~3200s. Pointing maneuvers occur between exposures. A blue checkered bar represents the visibility window, and black bars below indicate occultation periods. A note states 'Unused Visibility = 0'.

**Server Version: 20060322**

Proposal 10793 - Visit 15 - A Survey for Supernovae in Massive High-Redshift Clusters

Wed May 31 01:02:54 GMT 2006

Visit	<b>Proposal 10793, Visit 15</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: ORIENT 40.0D TO 50.0 D; ORIENT 130.0D TO 140.0 D; ORIENT 220.0D TO 230.0 D; ORIENT 310.0D TO 320.0 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(15)	CL0152-1357	RA: 01 52 43.0000 (28.1791667d) Dec: -13 57 20.00 (-13.95556d) Equinox: J2000		V=25.0 z=0.831	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Exposure 1	(15) CL0152-1357	ACS/WFC, ACCUM, WFC	F775W	CR-SPLIT=NO		Sequence 1-4 Non-Int	521.0 Secs [=>521.0 Secs]	[1]
	2	Exposure 2	(15) CL0152-1357	ACS/WFC, ACCUM, WFC	F775W	CR-SPLIT=NO	POS TARG 3.76,3.7	Sequence 1-4 Non-Int	521.0 Secs [=>521.0 Secs]	[1]
	3	Exposure 3	(15) CL0152-1357	ACS/WFC, ACCUM, WFC	F775W	CR-SPLIT=NO	POS TARG 7.495,7.47	Sequence 1-4 Non-Int	521.0 Secs [=>521.0 Secs]	[1]
	4	Exposure 4	(15) CL0152-1357	ACS/WFC, ACCUM, WFC	F775W	CR-SPLIT=NO	POS TARG 11.255,11.18	Sequence 1-4 Non-Int	521.0 Secs [=>513.0 Secs]	[1]
Orbit Structure	<b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20060322</b></span>									
	<p>The diagram illustrates the orbit structure for Orbit 1. The x-axis represents time in seconds, ranging from 0 to 5500. Key events include:                 <ul style="list-style-type: none"> <li><b>GS Acq:</b> Ground Station Acquisition at approximately 100 seconds.</li> <li><b>Exp. 1, 2, 3, 4:</b> Four exposures, each marked with a green double-headed arrow, occurring at approximately 400, 1100, 1800, and 2500 seconds respectively.</li> <li><b>Pointing Maneuvers:</b> Three maneuvers are indicated by vertical arrows at approximately 1100, 1800, and 2500 seconds.</li> <li><b>Occultation:</b> A period of occultation is shown as a black bar starting at approximately 3100 seconds and ending at 3500 seconds.</li> <li><b>Unused Visibility = 0:</b> A label indicating that no observations are possible during the occultation period.</li> </ul>                 A blue checkered bar represents the observation window, which is active from approximately 400 to 3100 seconds.             </p>									