



## 10493 - A Survey for Supernovae in Massive High-Redshift Clusters

Cycle: 14, Proposal Category: GO

(Availability Mode: SUPPORTED)

### INVESTIGATORS

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Dr. Richard S. Ellis (CoI)	California Institute of Technology	
Dr. Harald Ebeling (CoI)	University of Hawaii	

### VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) MACSJ0025-1222	ACS/WFC	1	17-Nov-2006 21:01:37.0	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>
02	(2) MACSJ0257-2325	ACS/WFC	1	17-Nov-2006 21:01:48.0	yes
03	(3) MACSJ0647+7015	ACS/WFC	1	17-Nov-2006 21:01:56.0	yes
04	(4) MACSJ0717+3745	ACS/WFC	1	17-Nov-2006 21:02:03.0	yes
05	(5) MACSJ0744+3927	ACS/WFC	1	17-Nov-2006 21:02:10.0	yes
06	(6) MACSJ0911+1746	ACS/WFC	1	17-Nov-2006 21:02:17.0	yes
07	(7) MACSJ1149+2223	ACS/WFC	1	17-Nov-2006 21:02:23.0	yes
08	(8) MACSJ1423+2404	ACS/WFC	1	17-Nov-2006 21:02:30.0	yes
09	(9) MACSJ2129-0741	ACS/WFC	1	17-Nov-2006 21:02:36.0	yes
10	(10) MACSJ2214-1359	ACS/WFC	1	17-Nov-2006 21:02:43.0	yes
11	(11) CLJ1226.9+3332	ACS/WFC	1	17-Nov-2006 21:02:50.0	yes
12	(12) MS1054.4-0321	ACS/WFC	1	17-Nov-2006 21:02:56.0	yes
13	(13) MS0016.5+1654	ACS/WFC	1	17-Nov-2006 21:03:03.0	yes
14	(14) MS0451.6-0305	ACS/WFC	1	17-Nov-2006 21:03:09.0	yes
15	(15) CL0152-1357	ACS/WFC	1	17-Nov-2006 21:03:15.0	yes

15 Total Orbits Used

### **ABSTRACT**

We propose 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. 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. 3. Reveal, via nuclear variability, the AGN fraction in clusters at this redshift, to be compared with the field AGN fraction. This will be valuable input for understanding black-hole demographics, AGN evolution, and ICM energetics. 4. Potentially discover intergalactic cluster SNe, which can trace the stripped stellar population at high  $z$ .

### **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.

### **ADDITIONAL COMMENTS**

All targets are duplicates of previous observations, by design, since we wish to compare new images with older reference ones and find SNe and other variable or transient objects. This has been approved in phase I. We also require the orientation to be similar to that of the previous archival visits, up to field rotations of 90, 180 or 270 degrees, to allow schedulability. We used a margin of  $\pm 3$  degrees in our orientation specification, except for two cases (visits 5 and 15) where a larger margin (15 and 5 degrees, respectively) was required for schedulability.

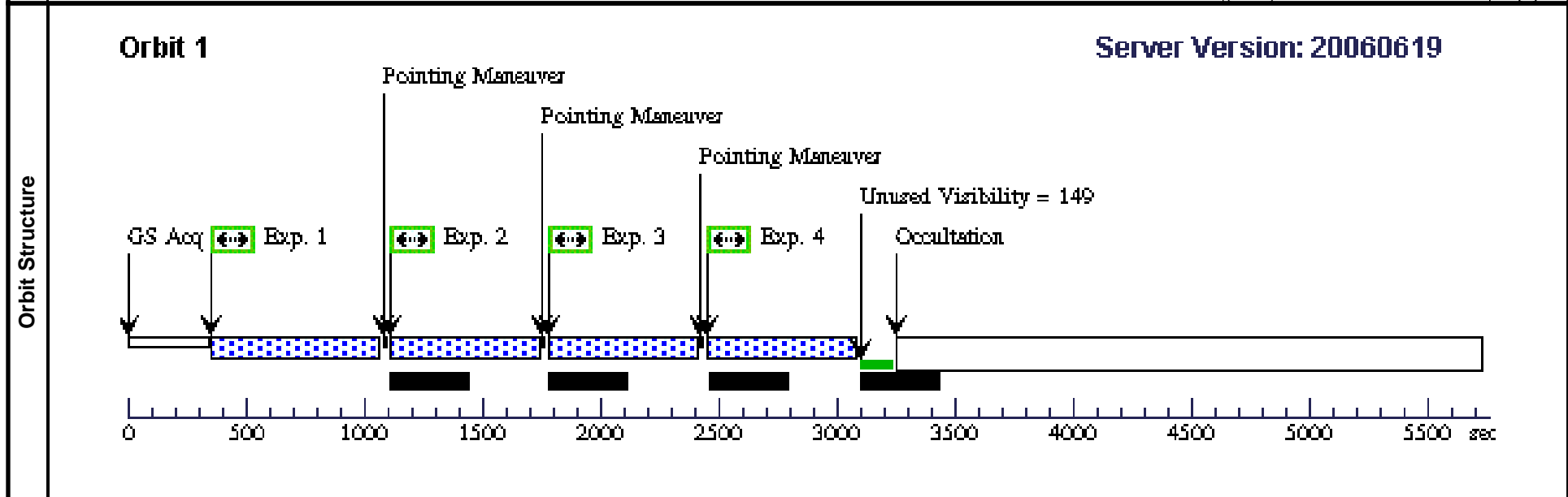
# Proposal 10493 - Visit 01 - A Survey for Supernovae in Massive High-Redshift Clusters

Sat Nov 18 02:03:19 GMT 2006

<b>Visit</b>	<b>Proposal 10493, Visit 01, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: ORIENT 32.0D TO 32.0 D; ORIENT 122.0D TO 122.0 D; ORIENT 212.0D TO 212.0 D; ORIENT 302.0D TO 302.0 D; AFTER 01-SEP-2007:00:00:00 Comments: Visit is to execute ~ one year after visit 1070351. wj

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	MACSJ0025-1222	RA: 00 25 30.2300 (6.3759583d) Dec: -12 22 43.00 (-12.37861d) Equinox: J2000		V=25.0+/-2.0 z=0.584	Coordinate Source: GROUND BASED IMAGE

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Exposure 1	(1) MACSJ0025-122 2	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 0,0	Sequence 1-4 Non-Int	510.0 Secs [=>]	[1]
	2	exposure 2	(1) MACSJ0025-122 2	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 3.76,3.7	Sequence 1-4 Non-Int	510.0 Secs [=>]	[1]
	3	exposure 3	(1) MACSJ0025-122 2	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 7.495,7.47	Sequence 1-4 Non-Int	510.0 Secs [=>]	[1]
	4	exposure 4	(1) MACSJ0025-122 2	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 11.255,1.18	Sequence 1-4 Non-Int	510.0 Secs [=>]	[1]



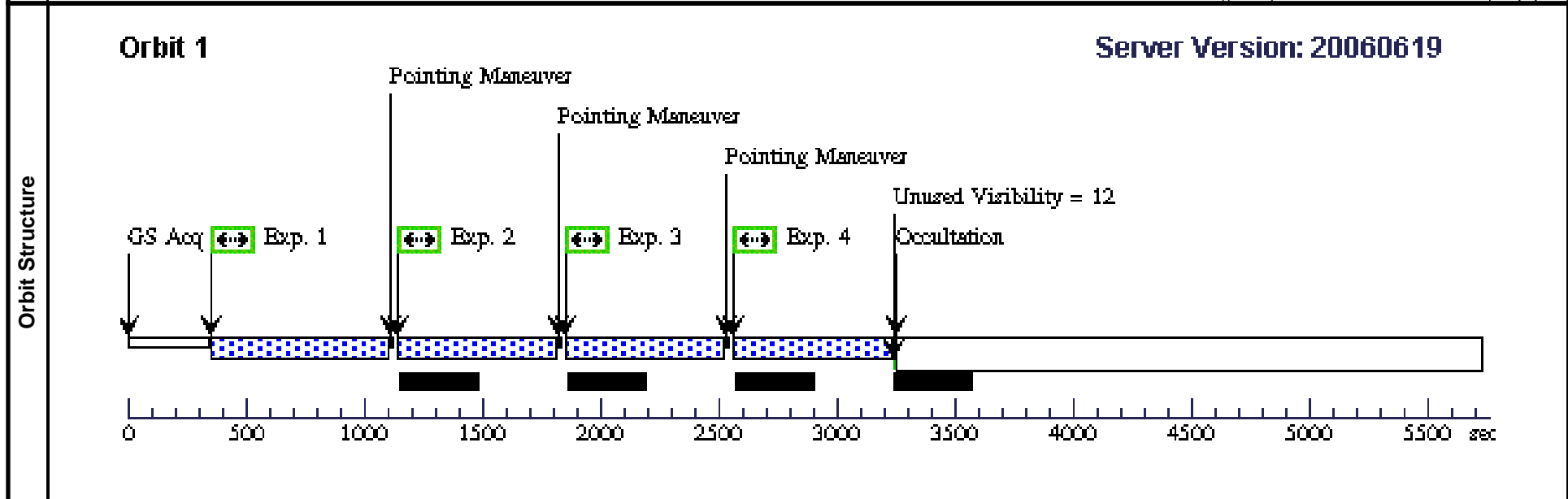
Proposal 10493 - Visit 02 - A Survey for Supernovae in Massive High-Redshift Clusters

Sat Nov 18 02:03:21 GMT 2006

<b>Visit</b>	Proposal 10493, Visit 02, completed				
	Diagnostic Status: No Diagnostics				
	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				

<b>Fixed Targets</b>	#	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 Plate Id: (?)		V=25.0+/-2.0 z=0.506	Coordinate Source: HST_IMAGE

<b>Exposures</b>	#	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	POS TARG 0,0	Sequence 1-4 Non-In t	546.0 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-In t	546.0 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-In t	546.0 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-In t	546.0 Secs [==>]	[1]



Proposal 10493 - Visit 03 - A Survey for Supernovae in Massive High-Redshift Clusters

Sat Nov 18 02:03:22 GMT 2006

Visit	Proposal 10493, Visit 03, completed Diagnostic Status: No Diagnostics 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 Plate Id: (?)		V=25.0+/-2.0 z=0.584	Coordinate Source: HST_IMAGE				
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	POS TARG 0,0	Sequence 1-4 Non-Int	646.0 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	646.0 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	646.0 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	646.0 Secs [==>]	[1]
Orbit Structure	<p><b>Orbit 1</b> <span style="float: right;">Server Version: 20060619</span></p> <p style="text-align: center;">Pointing Maneuver Pointing Maneuver Pointing Maneuver Unused Visibility = 12</p> <p>The diagram shows a horizontal timeline from 0 to 5500 seconds. A blue checkered bar represents the visibility window, starting at approximately 400s and ending at 3700s. Four green boxes with target icons represent exposures: Exp. 1 (400-646s), Exp. 2 (1246-1892s), Exp. 3 (2092-2738s), and Exp. 4 (2888-3534s). Black bars below the timeline indicate pointing maneuvers between exposures. A vertical line at 3700s marks the start of an occultation period. The text 'Unused Visibility = 12' is shown to the right of the occultation.</p>									

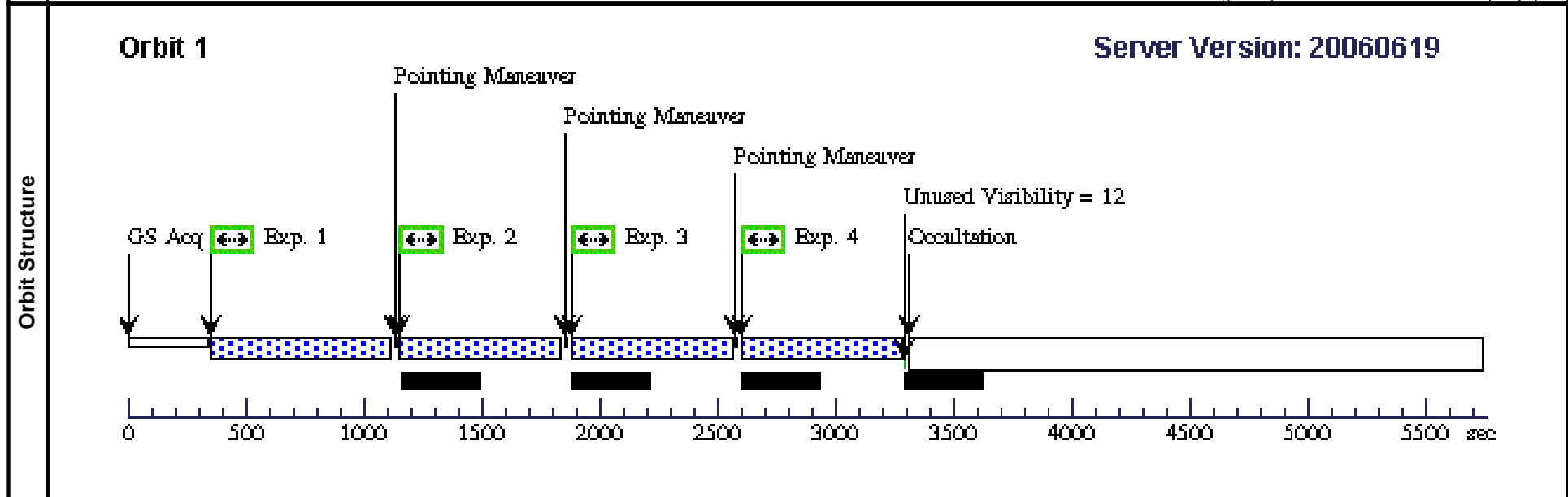
Proposal 10493 - Visit 04 - A Survey for Supernovae in Massive High-Redshift Clusters

Sat Nov 18 02:03:22 GMT 2006

<b>Visit</b>	Proposal 10493, Visit 04, completed				
	Diagnostic Status: No Diagnostics				
	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 Plate Id: (?)		V=25.0+/-2.0 z=0.548	Coordinate Source: HST_IMAGE

<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	POS TARG 0,0	Sequence 1-4 Non-Int	559.0 Secs [==>]	[1]
	2	exposure 2	(4) MACSJ0717+3745	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 3.76,3.71	Sequence 1-4 Non-Int	559.0 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	559.0 Secs [==>]	[1]
	4	exposure 4	(4) MACSJ0717+3745	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 11.255,11.18	Sequence 1-4 Non-Int	559.0 Secs [==>]	[1]



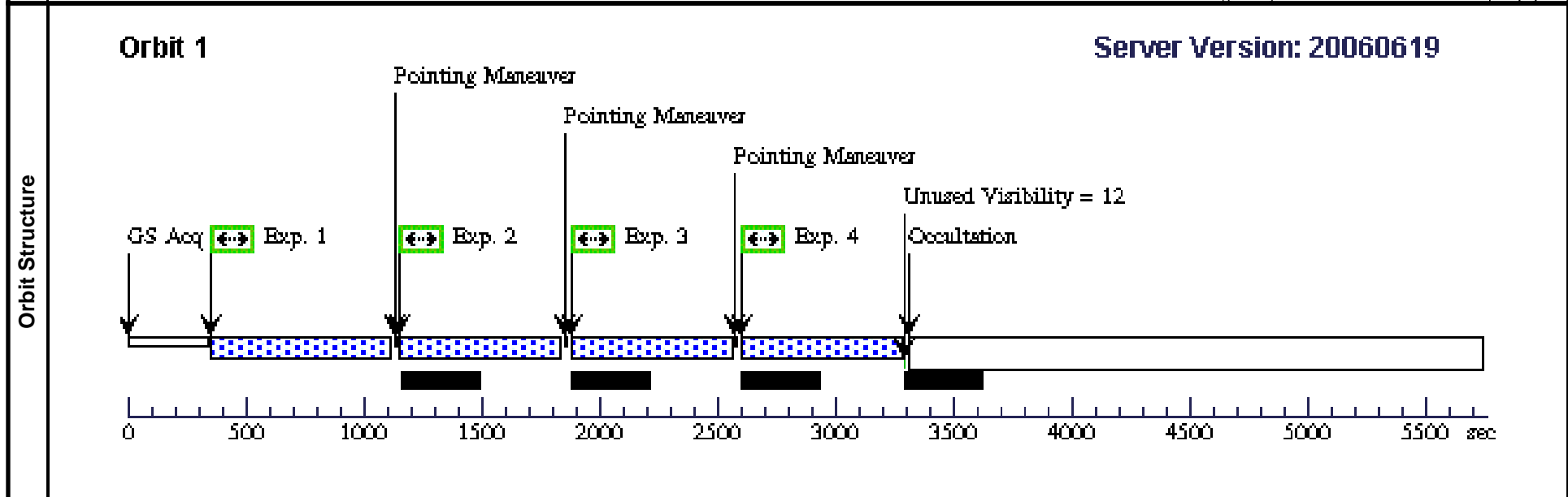
Proposal 10493 - Visit 05 - A Survey for Supernovae in Massive High-Redshift Clusters

Sat Nov 18 02:03:23 GMT 2006

<b>Visit</b>	<b>Proposal 10493, Visit 05, completed</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>Orient requirements relaxed from +/-3 degrees to +/-15 degrees to allow schedulability.</i>				

<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 Plate Id: (?)		V=25.0+/-2.0 z=0.686	Coordinate Source: HST_IMAGE

<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	POS TARG 0,0	Sequence 1-4 Non-Int	559.0 Secs [==>]	[1]
	2	exposure 2	(5) MACSJ0744+3927	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 3.76,3.71	Sequence 1-4 Non-Int	559.0 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	559.0 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	559.0 Secs [==>]	[1]



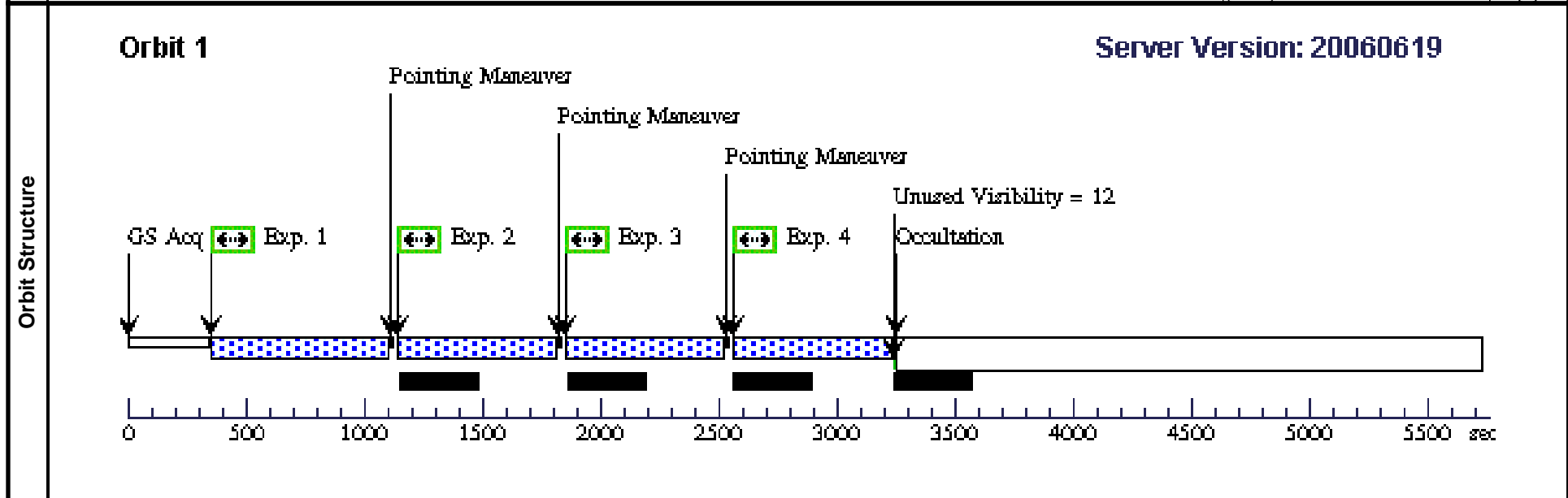
Proposal 10493 - Visit 06 - A Survey for Supernovae in Massive High-Redshift Clusters

Sat Nov 18 02:03:24 GMT 2006

<b>Visit</b>	Proposal 10493, Visit 06, completed				
	Diagnostic Status: No Diagnostics				
	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				

<b>Fixed Targets</b>	#	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 Plate Id: (?)		V=25.0+/-2.0 z=0.504	Coordinate Source: HST_IMAGE

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Exposure 1	(6) MACSJ0911+1746	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 0,0	Sequence 1-4 Non-Int	545.0 Secs [==>]	[1]
	2	exposure 2	(6) MACSJ0911+1746	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 3.76,3.7	Sequence 1-4 Non-Int	546.0 Secs [==>]	[1]
	3	exposure 3	(6) MACSJ0911+1746	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 7.495,7.47	Sequence 1-4 Non-Int	546.0 Secs [==>]	[1]
	4	exposure 4	(6) MACSJ0911+1746	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 11.255,1.18	Sequence 1-4 Non-Int	546.0 Secs [==>]	[1]



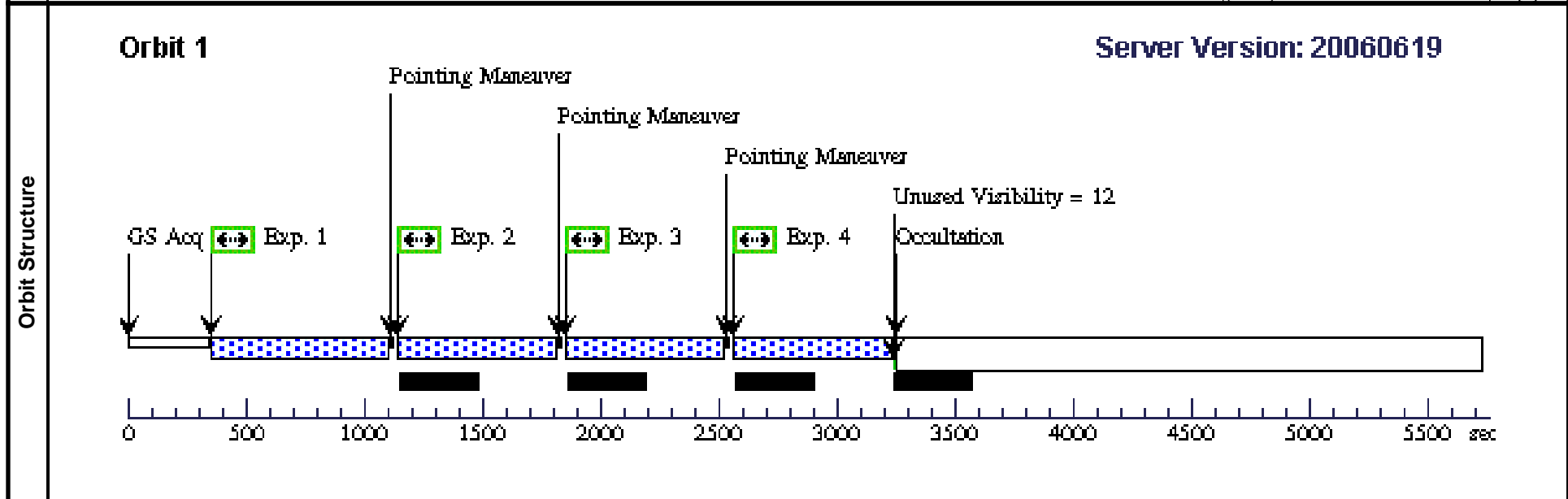
Proposal 10493 - Visit 07 - A Survey for Supernovae in Massive High-Redshift Clusters

Sat Nov 18 02:03:25 GMT 2006

<b>Visit</b>	Proposal 10493, Visit 07, completed				
	Diagnostic Status: No Diagnostics				
	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				

<b>Fixed Targets</b>	#	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 Plate Id: (?)		V=25.0+/-2.0 z=0.544	Coordinate Source: HST_IMAGE

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Exposure 1	(7) MACSJ1149+22 23	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 0,0	Sequence 1-4 Non-In t	546.0 Secs [==>]	[1]
	2	exposure 2	(7) MACSJ1149+22 23	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 3.76,3.7	Sequence 1-4 Non-In t	546.0 Secs [==>]	[1]
	3	exposure 3	(7) MACSJ1149+22 23	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 7.495,7.	Sequence 1-4 Non-In t	546.0 Secs [==>]	[1]
	4	exposure 4	(7) MACSJ1149+22 23	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 11.255,1	Sequence 1-4 Non-In t	546.0 Secs [==>]	[1]

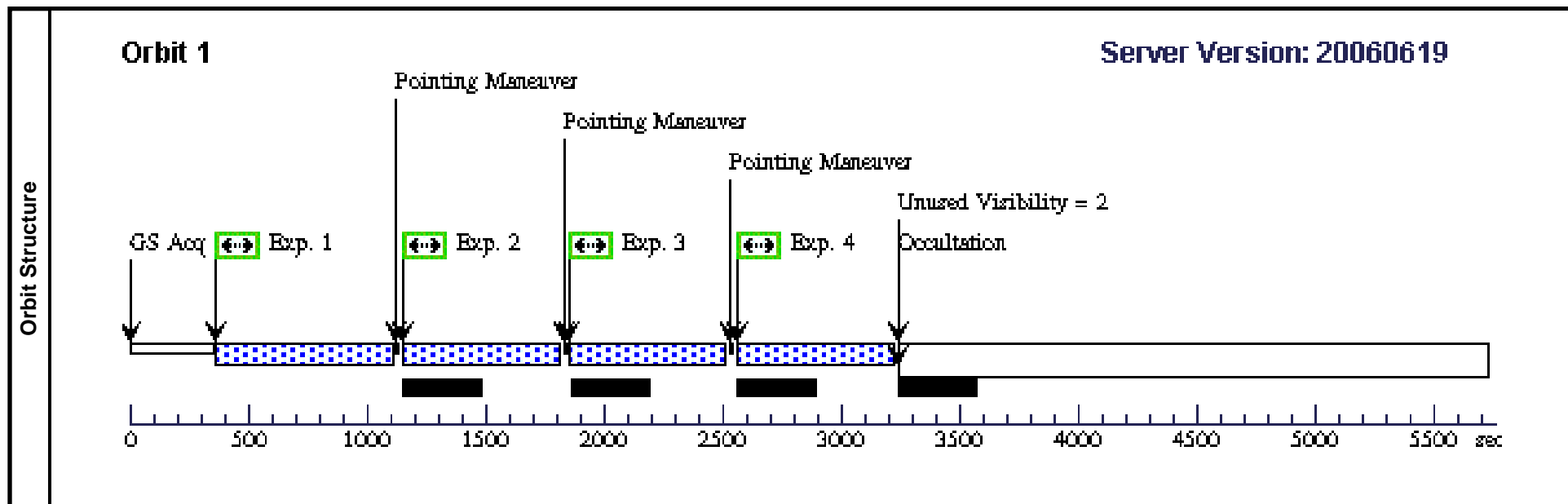


<b>Visit</b>	Proposal 10493, Visit 08, completed Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: ORIENT 42.0D TO 48.0 D; ORIENT 132.0D TO 138.0 D; ORIENT 222.0D TO 228.0 D; ORIENT 312.0D TO 318.0 D										
	<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
(8)		MACSJ1423+2404	RA: 14 23 48.6000 (215.9525000d) Dec: +24 04 49.10 (24.08031d) Equinox: J2000 Plate Id: (?)		V=25.0+/-2.0 z=0.545	Coordinate Source: HST_IMAGE					
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	Exposure 1	(8) MACSJ1423+2404	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 0,0	Sequence 1-4 Non-Int	546.0 Secs [==>]	[1]	
	2	exposure 2	(8) MACSJ1423+2404	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 3.76,3.71	Sequence 1-4 Non-Int	546.0 Secs [==>]	[1]	
	3	exposure 3	(8) MACSJ1423+2404	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 7.495,7.47	Sequence 1-4 Non-Int	546.0 Secs [==>]	[1]	
	4	exposure 4	(8) MACSJ1423+2404	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 11.255,11.18	Sequence 1-4 Non-Int	546.0 Secs [==>]	[1]	
<b>Orbit Structure</b>	<div style="display: flex; justify-content: space-between;"> <span><b>Orbit 1</b></span> <span><b>Server Version: 20060619</b></span> </div> <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 0 seconds.</li> <li><b>Exp. 1:</b> Exposure 1, starting at approximately 300s and ending at 846s.</li> <li><b>Exp. 2:</b> Exposure 2, starting at approximately 1146s and ending at 1692s.</li> <li><b>Exp. 3:</b> Exposure 3, starting at approximately 1846s and ending at 2392s.</li> <li><b>Exp. 4:</b> Exposure 4, starting at approximately 2546s and ending at 3092s.</li> <li><b>Pointing Maneuvers:</b> Three maneuvers are indicated by vertical arrows between the exposures.</li> <li><b>Occultation:</b> A period of unusable visibility starting at approximately 3292s and ending at 3304s.</li> <li><b>Unused Visibility:</b> A total of 12 seconds of unused visibility is noted.</li> </ul>										

Proposal 10493 - Visit 09 - A Survey for Supernovae in Massive High-Redshift Clusters

Sat Nov 18 02:03:27 GMT 2006

<b>Visit</b>	<b>Proposal 10493, Visit 09, completed</b> <b>Diagnostic Status: Warning</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									
	(Visit 09) Warning: GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE									
<b>Diagnostics</b>										
<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)	MACSJ2129-0741	RA: 21 29 26.3000 (322.3595833d) Dec: -07 41 26.20 (-7.69061d) Equinox: J2000 Plate Id: (?)		V=25.0+/-2.0 z=0.570	Coordinate Source: HST_IMAGE				
<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	Exposure 1	(9) MACSJ2129-0741	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 0,0; GS ACQ SCENARI O BASE13GO	Sequence 1-4 Non-In t	542.0 Secs [==>]	[1]
	2	exposure 2	(9) MACSJ2129-0741	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 3.76,3.7 1	Sequence 1-4 Non-In t	542.0 Secs [==>]	[1]
	3	exposure 3	(9) MACSJ2129-0741	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 7.495,7. 47	Sequence 1-4 Non-In t	542.0 Secs [==>]	[1]
	4	exposure 4	(9) MACSJ2129-0741	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 11.255,1 1.18	Sequence 1-4 Non-In t	542.0 Secs [==>]	[1]



# Proposal 10493 - Visit 10 - A Survey for Supernovae in Massive High-Redshift Clusters

Sat Nov 18 02:03:28 GMT 2006

Visit	<b>Proposal 10493, Visit 10, completed</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																																																											
	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>(10)</td> <td>MACSJ2214-1359</td> <td>RA: 22 14 57.3400 (333.7389167d) Dec: -14 00 12.20 (-14.00339d) Equinox: J2000 Plate Id: (?)</td> <td></td> <td>V=25.0+/-2.0 z=0.504</td> <td>Coordinate Source: HST_IMAGE</td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(10)	MACSJ2214-1359	RA: 22 14 57.3400 (333.7389167d) Dec: -14 00 12.20 (-14.00339d) Equinox: J2000 Plate Id: (?)		V=25.0+/-2.0 z=0.504	Coordinate Source: HST_IMAGE																																					
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Orbit Structure	<div style="display: flex; justify-content: space-between;"> <div> <h3>Orbit 1</h3> <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 (Green Start Acquisition) at approximately 200s; Exp. 1 (Exposure 1) from 400s to 920s; Exp. 2 (Exposure 2) from 1120s to 1640s; Exp. 3 (Exposure 3) from 1840s to 2360s; Exp. 4 (Exposure 4) from 2560s to 3080s; Occultation starting at 3200s; and Unused Visibility from 3200s to 5500s. Pointing maneuvers are indicated by vertical arrows between exposures. The x-axis is labeled 'sec'.</p> </div> <div> <p><b>Server Version: 20060619</b></p> </div> </div>																																																											

Proposal 10493 - Visit 11 - A Survey for Supernovae in Massive High-Redshift Clusters

Sat Nov 18 02:03:29 GMT 2006

Visit	Proposal 10493, Visit 11, completed Diagnostic Status: No Diagnostics 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	#	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 Plate Id: (?)		V=25.0+/-2.0 z=0.888	Coordinate Source: HST_IMAGE				
Exposures	#	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	POS TARG 0,0	Sequence 1-4 Non-In t	553.0 Secs [==>]	[1]
	2	exposure 2	(11) CLJ1226.9+333 2	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 3.76,3.7 1	Sequence 1-4 Non-In t	552.0 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-In t	552.0 Secs [==>]	[1]
	4	exposure 4	(11) CLJ1226.9+333 2	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 11.255,1 1.18	Sequence 1-4 Non-In t	552.0 Secs [==>]	[1]
Orbit Structure	<p><b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20060619</b></span></p> <p>The diagram shows a timeline from 0 to 5500 seconds. Key events include: GS Acq at ~20s, Exp. 1 at ~40s, Exp. 2 at ~1100s, Exp. 3 at ~1800s, Exp. 4 at ~2500s, and Occultation at ~3300s. Three Pointing Maneuvers occur between exposures. A blue checkered bar at the bottom indicates the observation window, which ends at ~3300s. The text 'Unused Visibility = 12' is shown after the occultation.</p>									

<b>Visit</b>	Proposal 10493, Visit 12, completed Diagnostic Status: No Diagnostics 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									
	<b>Fixed Targets</b>	#	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 Plate Id: (?)		V=25.0+/-2.0 z=0.83	Coordinate Source: HST_IMAGE				
<b>Exposures</b>	#	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	POS TARG 0,0	Sequence 1-4 Non-Int	540.0 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	540.0 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	540.0 Secs [==>]	[1]
	4	exposure 4	(12) MS1054.4-0321	ACS/WFC, ACCUM, WFC	F775W	CR-SPLIT=NO	POS TARG 11.255,1.18	Sequence 1-4 Non-Int	542.0 Secs [==>]	[1]
<b>Orbit Structure</b>	<p><b>Orbit 1</b> <span style="float: right;"><b>Server Version: 20060619</b></span></p> <p>The diagram shows a horizontal timeline from 0 to 5500 seconds. Key events are marked with vertical arrows: GS Acq at ~20s, Exp. 1 at ~40s, Pointing Maneuver at ~1100s, Exp. 2 at ~1200s, Pointing Maneuver at ~1800s, Exp. 3 at ~1900s, Pointing Maneuver at ~2500s, Exp. 4 at ~2600s, Occultation at ~3200s, and Unused Visibility = 12 at ~3300s. A blue checkered bar spans from approximately 40s to 3200s. Green double-headed arrows indicate the duration of each exposure. Black bars below the timeline represent pointing maneuvers and occultation periods.</p>									

Proposal 10493 - Visit 13 - A Survey for Supernovae in Massive High-Redshift Clusters

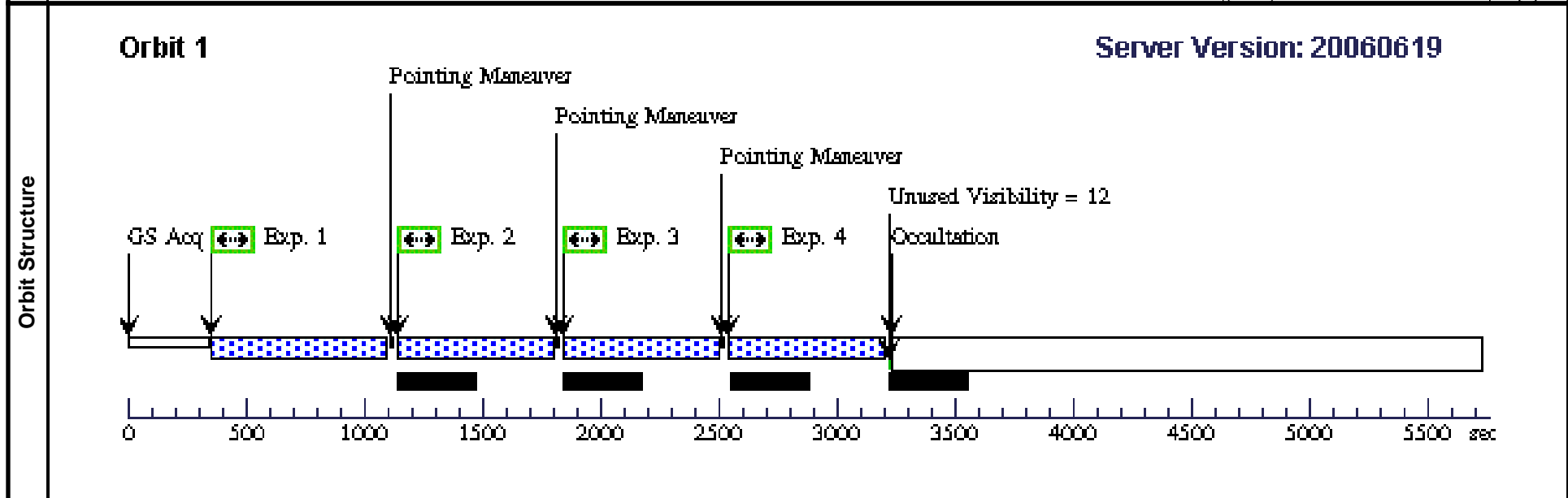
Sat Nov 18 02:03:31 GMT 2006

Visit	Proposal 10493, Visit 13, completed Diagnostic Status: No Diagnostics 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									
	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 Plate Id: (?)		V=25.0+/-2.0 z=0.54	Coordinate Source: HST_IMAGE				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Exposure 1	(13) MS0016.5+165 4	ACS/WFC, ACCUM, WFC	F775W	CR-SPLIT=NO	POS TARG 0,0	Sequence 1-4 Non-In t	545.0 Secs [==>]	[1]
	2	exposure 2	(13) MS0016.5+165 4	ACS/WFC, ACCUM, WFC	F775W	CR-SPLIT=NO	POS TARG 3.76,3.7 1	Sequence 1-4 Non-In t	546.0 Secs [==>]	[1]
	3	exposure 3	(13) MS0016.5+165 4	ACS/WFC, ACCUM, WFC	F775W	CR-SPLIT=NO	POS TARG 7.495,7. 47	Sequence 1-4 Non-In t	546.0 Secs [==>]	[1]
	4	exposure 4	(13) MS0016.5+165 4	ACS/WFC, ACCUM, WFC	F775W	CR-SPLIT=NO	POS TARG 11.255,1 1.18	Sequence 1-4 Non-In t	546.0 Secs [==>]	[1]
Orbit Structure	<div style="display: flex; justify-content: space-between;"> <div> <h3>Orbit 1</h3> <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 approximately 200 seconds, followed by four exposures (Exp. 1, 2, 3, 4) each lasting about 545-546 seconds. Three pointing maneuvers occur between the exposures. An occultation begins at approximately 3250 seconds, leaving 12 seconds of unused visibility at the end of the orbit.</p> </div> <div> <p><b>Server Version: 20060619</b></p> </div> </div>									
	<p>Unused Visibility = 12</p>									

<b>Visit</b>	Proposal 10493, Visit 14, completed				
	Diagnostic Status: No Diagnostics				
	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				

<b>Fixed Targets</b>	#	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 Plate Id: (?)		V=25.0+/-2.0 z=0.55	Coordinate Source: HST_IMAGE

<b>Exposures</b>	#	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	POS TARG 0,0	Sequence 1-4 Non-Int	540.0 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	540.0 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	540.0 Secs [=>]	[1]
	4	exposure 4	(14) MS0451.6-0305	ACS/WFC, ACCUM, WFC	F814W	CR-SPLIT=NO	POS TARG 11.255,1.18	Sequence 1-4 Non-Int	542.0 Secs [=>]	[1]



Proposal 10493 - Visit 15 - A Survey for Supernovae in Massive High-Redshift Clusters

Sat Nov 18 02:03:32 GMT 2006

<b>Visit</b>	<b>Proposal 10493, Visit 15, completed</b> <b>Diagnostic Status: Warning</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 <i>Comments: Orient requirements relaxed from +/-3 degrees to +/- 5 degrees to allow schedulability.</i>																																																											
	(Visit 15) Warning: GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE																																																											
<b>Diagnosics</b>																																																												
<b>Fixed Targets</b>	<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>(15)</td> <td>CL0152-1357</td> <td>RA: 01 52 43.0000 (28.1791667d) Dec: -13 57 20.00 (-13.95556d) Equinox: J2000 Plate Id: (?)</td> <td></td> <td>V=25.0 z=0.831</td> <td>Coordinate Source: HST_IMAGE</td> </tr> </tbody> </table>	#	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 Plate Id: (?)		V=25.0 z=0.831	Coordinate Source: HST_IMAGE																																															
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