



14208 - Frontier Fields Supernova Search

Cycle: 23, 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>
A1	(3) MACSJ1149-SN-ACS ANY	ACS/WFC WFC3/IR	2	10-May-2016 14:50:09.0	yes
A2	(3) MACSJ1149-SN-ACS ANY	ACS/WFC WFC3/IR	1	10-May-2016 14:50:11.0	yes
A3	(6) MACSJ1149-SN ANY	ACS/WFC WFC3/IR	1	10-May-2016 14:50:12.0	yes
A4	(6) MACSJ1149-SN	WFC3/UVIS	1	10-May-2016 14:50:13.0	yes
A5	(7) MACSJ1149-SN-ACS2	ACS/WFC	1	10-May-2016 14:50:14.0	yes
A6	(7) MACSJ1149-SN-ACS2	ACS/WFC	1	10-May-2016 14:50:15.0	yes
AA	(6) MACSJ1149-SN ANY	ACS/WFC WFC3/IR	1	10-May-2016 14:50:16.0	yes
01	(1) ABELL370-SN ANY	ACS/WFC WFC3/IR	3	10-May-2016 14:50:19.0	yes
02	(2) ABELLS1063-SN ANY	ACS/WFC WFC3/IR	3	10-May-2016 14:50:22.0	yes
03	(4) FRONTIER-FIELD-SN ANY	ACS/WFC WFC3/IR	2	10-May-2016 14:50:23.0	yes
04	(3) MACSJ1149-SN-ACS ANY	ACS/WFC WFC3/IR	1	10-May-2016 14:50:25.0	yes
05	(4) FRONTIER-FIELD-SN ANY	ACS/WFC WFC3/IR	2	10-May-2016 14:50:27.0	yes
06	(4) FRONTIER-FIELD-SN ANY	ACS/WFC WFC3/IR	1	10-May-2016 14:50:28.0	yes
07	(4) FRONTIER-FIELD-SN ANY	ACS/WFC WFC3/IR WFC3/UVIS	1	10-May-2016 14:50:29.0	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>
08	(4) FRONTIER-FIELD-SN ANY	ACS/WFC WFC3/IR	1	10-May-2016 14:50:30.0	yes
09	(4) FRONTIER-FIELD-SN ANY	ACS/WFC WFC3/IR	1	10-May-2016 14:50:32.0	yes

23 Total Orbits Used

ABSTRACT

The HST Frontier Fields (HFF) program presents an extraordinary opportunity for the detection of lensed, high-redshift transients (primarily supernovae, SNe) out to $z \sim 3$. Over the last 2 years we have been searching the HFF data and following up lensed transients and their host galaxies with HST imaging and ground-based spectroscopy. We have discovered ~ 40 SNe, which will contribute to tests of Type Ia SN progenitor models by improving rate measurements reaching to $z \sim 2.5$. Our sample also includes a subset of highly magnified objects like the multiply imaged SN Refsdal. Positions and time delays of such multiply imaged transients provide powerful constraints for the dark matter distribution in galaxy clusters. In addition, our collection of lensed Type Ia SNe are providing a rigorous test of cluster mass models by directly measuring the lensing magnification. Finally, the rapid and deep imaging of the HFF program has surprisingly opened up a new discovery space, revealing at least one peculiarly fast and faint astrophysical transient. We propose to extend this program into the third and final year of the Frontier Fields survey, finishing the collection of this unique and diverse sample of distant transients.

OBSERVING DESCRIPTION

This program will execute Target of Opportunity observations to characterize transient sources discovered in the Frontier Fields and other complementary cluster survey programs.

Each observation sequence will be tailored to fit the individual target.

We anticipate spending ~ 6 orbits on 2-5 candidate SNe that might be at high redshift ($z > 1$) or significantly magnified ($\mu > 2$). The deep and frequent HFF imaging visits will provide a high S/N and well-sampled light curve in either ACS optical bands or WFC3 IR bands. Our follow-up imaging will provide the complementary bands needed for optical-NIR colors, which are critical for photometric classification and redshift estimation of $z > 1$ SNe (Riess et al., 2004; Rodney et al., 2012). A typical target in this category might have an AB magnitude of 26.5, requiring a

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single-orbit visit to get 2-3 filters from the same camera. In some cases we use multiple epochs of imaging are needed to improve the classification and redshift estimate.

We expect the other ~14 orbits will be devoted to one or two objects of particular interest: very high redshift ($z > 1.5$) and/or strongly lensed ($\mu > 5$) transients like SN HFF14Tom, SN Refsdal, and Spock. These orbits will be used for optical/IR imaging or grism spectroscopy, as appropriate for the source redshift and class. As an example, SN HFF14Tom at $z = 1.3$ reached a peak brightness at ~ 24 AB mag in IR bands, and we followed the light curve down to 26.2 AB mag in F140W. The total cost of follow-up was 11 orbits: 5 orbits for ACS G800L grism and 6 single-orbit visits to collect the rest-frame optical light curve using WFC3-IR broad bands. Some objects will require fewer orbits: if they are bright enough for spectroscopy from the ground or if the HFF program provides most of the necessary IR imaging epochs.

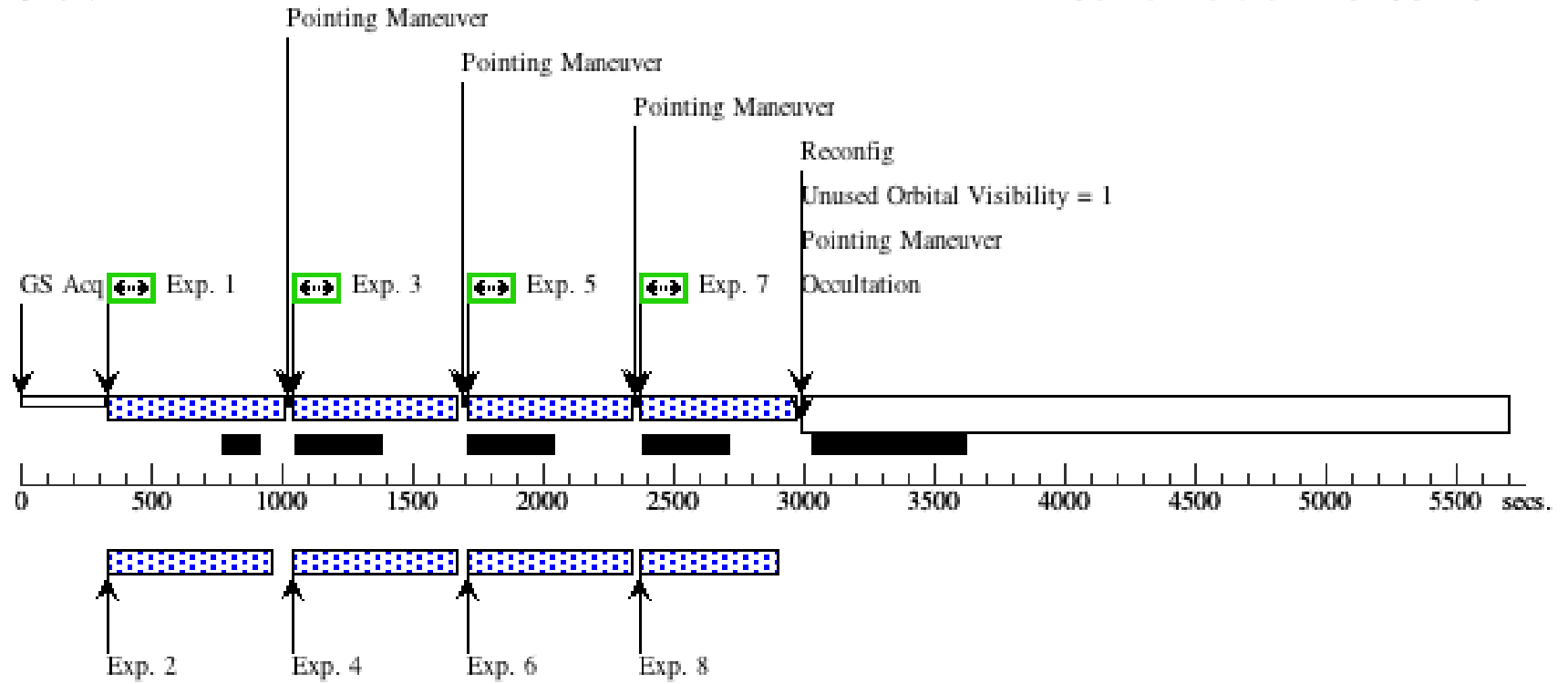
Proposal 14208 - M1149 F606W+F814W (A1) - Frontier Fields Supernova Search

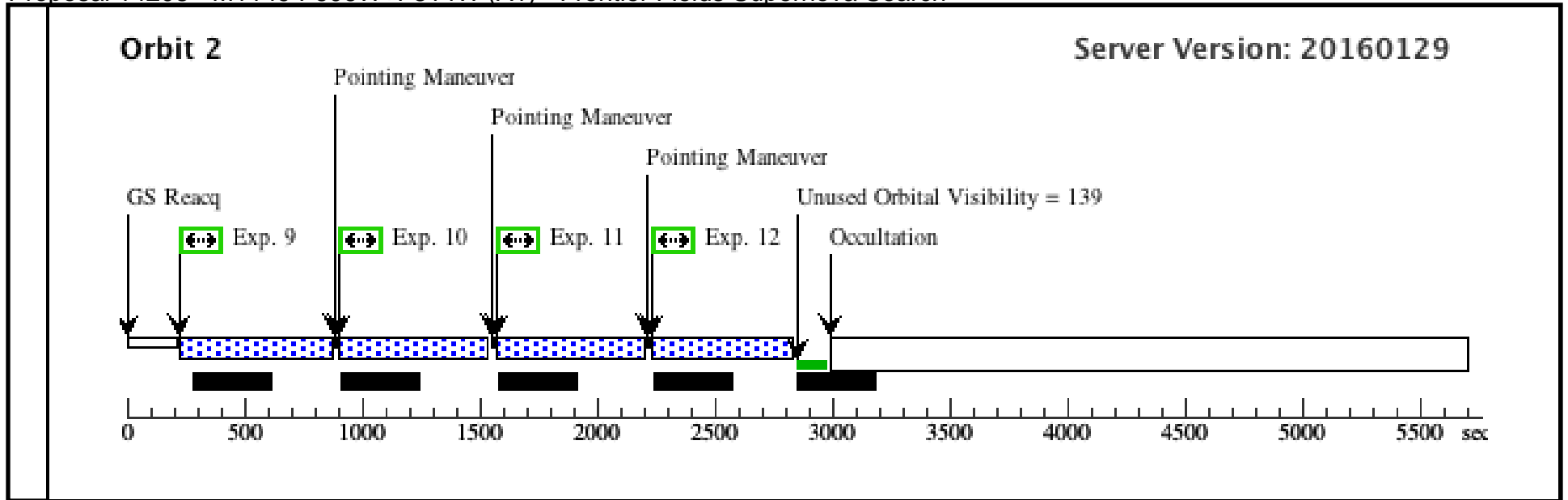
Tue May 10 18:50:33 GMT 2016

Visit	Proposal 14208, M1149 F606W+F814W (A1), scheduled Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: SCHED 100%; BEFORE 24-MAY-2016:00:00:00										
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	MACSJ1149-SN-ACS	RA: 11 49 39.1230 (177.4130125d) Dec: +22 23 51.01 (22.39750d) Equinox: J2000			V=30	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1		(3) MACSJ1149-SN-ACS	ACS/WFC, ACCUM, WFCENTER	F606W		POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in M1149 F606W+F814W (A1)	473 Secs (473 Secs) [==>]	[1]	
	2	ANY		WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=7; SAMP-SEQ=SPAR S100		Prime + Parallel Group 1-2 in M1149 F606W+F814W (A1)	602.934229 Secs (602.934 Secs) [==>]	[1]	
	3		(3) MACSJ1149-SN-ACS	ACS/WFC, ACCUM, WFCENTER	F606W		POS TARG 0.247,0.094	Prime + Parallel Group 3-4 in M1149 F606W+F814W (A1)	507 Secs (507 Secs) [==>]	[1]	
	4	ANY		WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=7; SAMP-SEQ=SPAR S100		Prime + Parallel Group 3-4 in M1149 F606W+F814W (A1)	602.934229 Secs (602.934 Secs) [==>]	[1]	
	5		(3) MACSJ1149-SN-ACS	ACS/WFC, ACCUM, WFCENTER	F606W		POS TARG 0.124,0.232	Prime + Parallel Group 5-6 in M1149 F606W+F814W (A1)	507 Secs (507 Secs) [==>]	[1]	
	6	ANY		WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=7; SAMP-SEQ=SPAR S100		Prime + Parallel Group 5-6 in M1149 F606W+F814W (A1)	602.934229 Secs (602.934 Secs) [==>]	[1]	
	7		(3) MACSJ1149-SN-ACS	ACS/WFC, ACCUM, WFCENTER	F606W		POS TARG -0.124,0.138	Prime + Parallel Group 7-8 in M1149 F606W+F814W (A1)	478 Secs (478 Secs) [==>]	[1]	
	8	ANY		WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=11; SAMP-SEQ=SPAR S50		Prime + Parallel Group 7-8 in M1149 F606W+F814W (A1)	502.936801 Secs (502.937 Secs) [==>]	[1]	
	9		(3) MACSJ1149-SN-ACS	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0,0		473 Secs (473 Secs) [==>]	[2]	
	10		(3) MACSJ1149-SN-ACS	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.247,0.094		507 Secs (507 Secs) [==>]	[2]	
	11		(3) MACSJ1149-SN-ACS	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.124,0.232		507 Secs (507 Secs) [==>]	[2]	
12		(3) MACSJ1149-SN-ACS	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG -0.124,0.138		478 Secs (478 Secs) [==>]	[2]		

Orbit 1

Orbit Structure

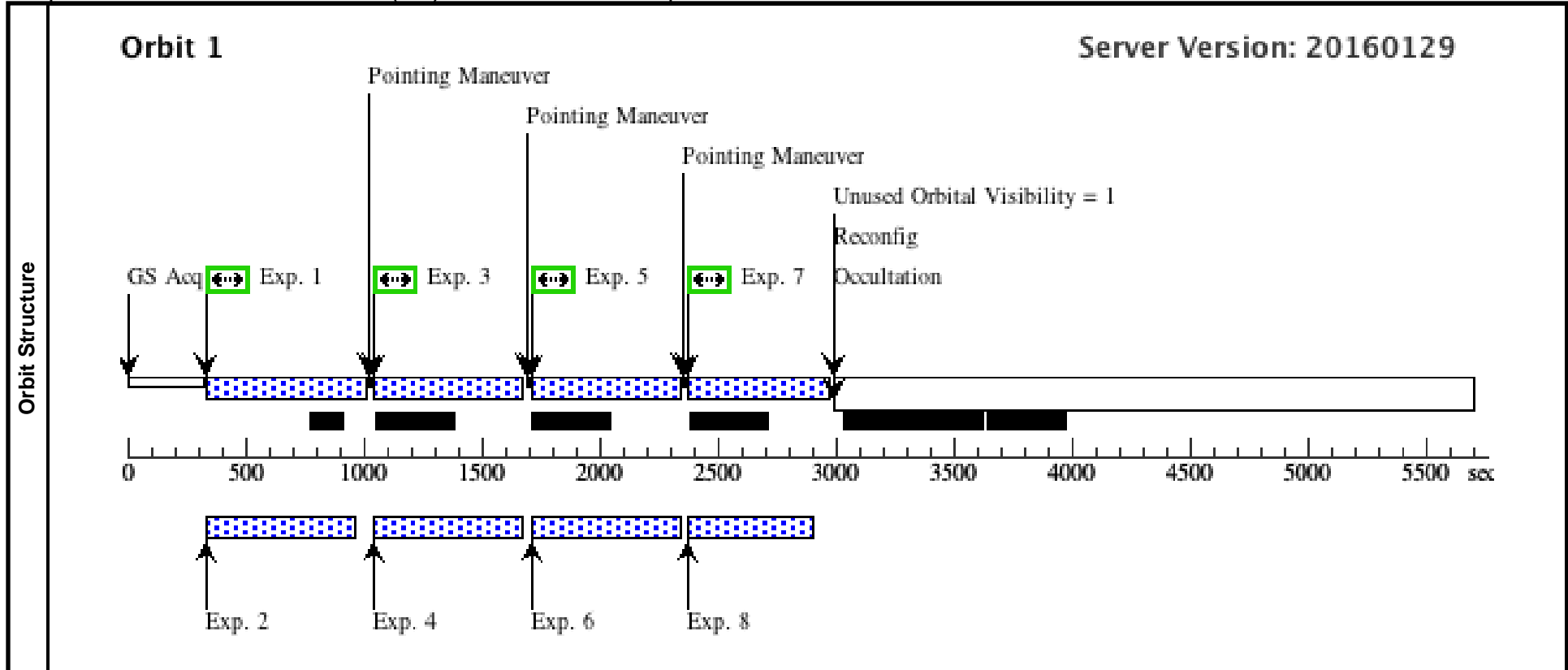




Proposal 14208 - M1149 F814W (A2) - Frontier Fields Supernova Search

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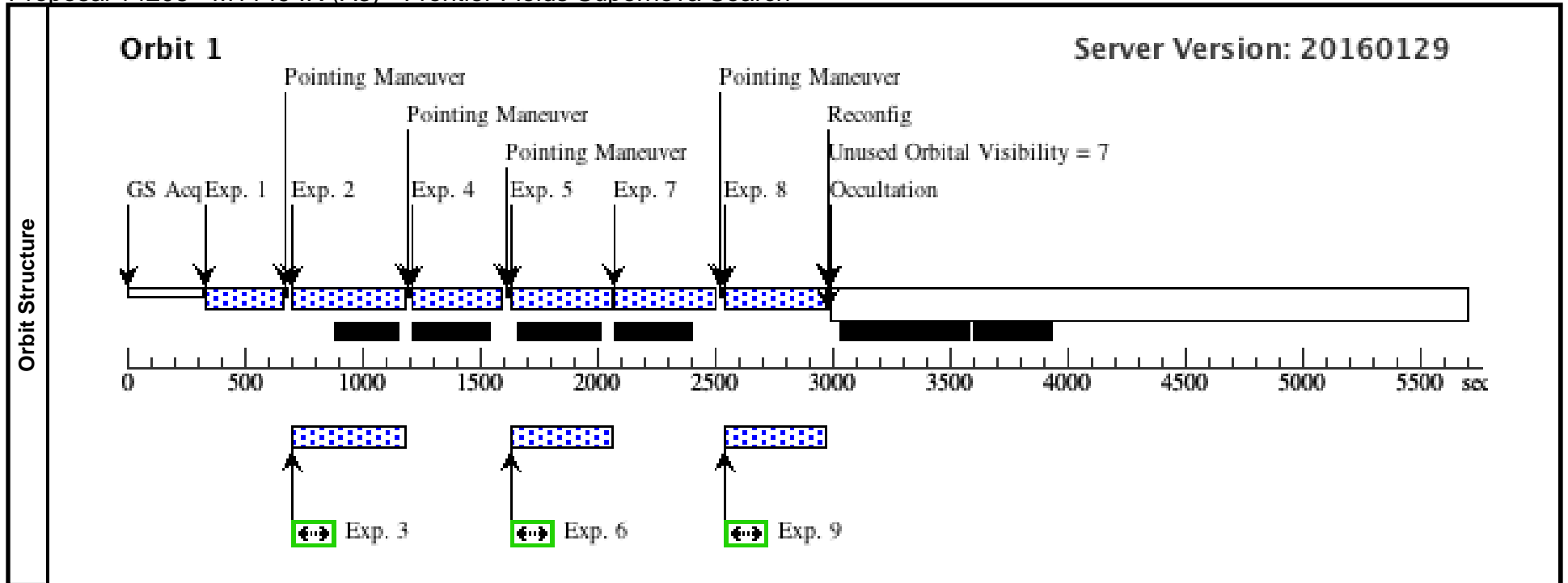
Visit	Proposal 14208, M1149 F814W (A2), scheduled Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: SCHED 100%; BEFORE 24-MAY-2016:00:00:00; SEQ A1,A2 WITHIN 2 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(3)	MACSJ1149-SN-ACS	RA: 11 49 39.1230 (177.4130125d) Dec: +22 23 51.01 (22.39750d) Equinox: J2000			V=30	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) MACSJ1149-SN-ACS	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0,0; GS ACQ SCENARI O BASE1B3	Prime + Parallel Group 1-2 in M1149 F814W (A2)	473 Secs (473 Secs) [==>]	[1]
	2	ANY		WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=7; SAMP-SEQ=SPAR S100		Prime + Parallel Group 1-2 in M1149 F814W (A2)	602.934229 Secs (602.934 Secs) [==>]	[1]
	3		(3) MACSJ1149-SN-ACS	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.247,0.094	Prime + Parallel Group 3-4 in M1149 F814W (A2)	507 Secs (507 Secs) [==>]	[1]
	4	ANY		WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=7; SAMP-SEQ=SPAR S100		Prime + Parallel Group 3-4 in M1149 F814W (A2)	602.934229 Secs (602.934 Secs) [==>]	[1]
	5		(3) MACSJ1149-SN-ACS	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG 0.124,0.232	Prime + Parallel Group 5-6 in M1149 F814W (A2)	507 Secs (507 Secs) [==>]	[1]
	6	ANY		WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=7; SAMP-SEQ=SPAR S100		Prime + Parallel Group 5-6 in M1149 F814W (A2)	602.934229 Secs (602.934 Secs) [==>]	[1]
	7		(3) MACSJ1149-SN-ACS	ACS/WFC, ACCUM, WFCENTER	F814W		POS TARG -0.124,0.138	Prime + Parallel Group 7-8 in M1149 F814W (A2)	478 Secs (478 Secs) [==>]	[1]
8	ANY		WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=11; SAMP-SEQ=SPAR S50		Prime + Parallel Group 7-8 in M1149 F814W (A2)	502.936801 Secs (502.937 Secs) [==>]	[1]	



Proposal 14208 - M1149 IR (A3) - Frontier Fields Supernova Search

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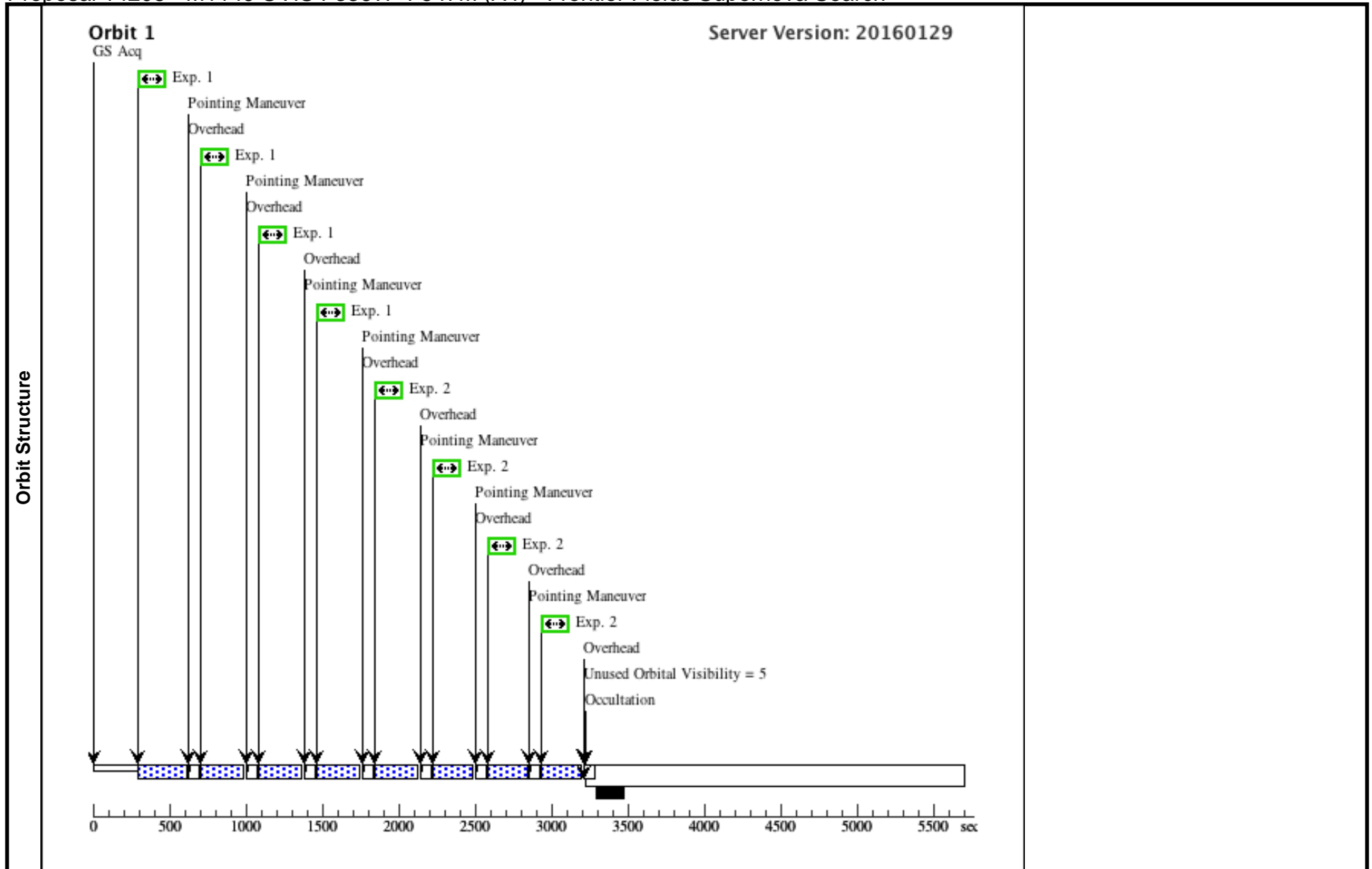
Visit	Proposal 14208, M1149 IR (A3), scheduled Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: SCHED 100%; ORIENT 125D TO 128 D; ORIENT 135D TO 147 D; BEFORE 24-MAY-2016:00:00:00; SEQ A1,A3 WITHIN 3 D Comments: 6 short prime near-IR (JYYYJJ) and 3 ACS parallel observations. Preferred ORIENT = 125.									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(6)	MACSJ1149-SN	RA: 11 49 35.6600 (177.3985833d) Dec: +22 23 48.00 (22.39667d) Equinox: J2000		V=30	Reference Frame: ICRS				
	Comments: Extended=NO									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F125W	(6) MACSJ1149-SN	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=7; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O BASE1B3		302.934997 Secs (302.935 Secs) [==>]	[1]
	2	F105W	(6) MACSJ1149-SN	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG 1.804,1.612	Prime + Parallel Group 2-3 in M1149 IR (A3)	452.93635 Secs (452.936 Secs) [==>]	[1]
	3		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 2-3 in M1149 IR (A3)	275 Secs (275 Secs) [==>]	[1]
	4	F105W	(6) MACSJ1149-SN	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG 1.353,1.209		352.935448 Secs (352.935 Secs) [==>]	[1]
	5	F105W	(6) MACSJ1149-SN	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.902,0.806	Prime + Parallel Group 5-6 in M1149 IR (A3)	402.935899 Secs (402.936 Secs) [==>]	[1]
	6		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 5-6 in M1149 IR (A3)	307 Secs (307 Secs) [==>]	[1]
	7	F125W	(6) MACSJ1149-SN	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.902,0.806		402.935899 Secs (402.936 Secs) [==>]	[1]
	8	F160W	(6) MACSJ1149-SN	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.451,0.403	Prime + Parallel Group 8-9 in M1149 IR (A3)	402.935899 Secs (402.936 Secs) [==>]	[1]
	9		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 8-9 in M1149 IR (A3)	321 Secs (307 Secs) [==>307.0 Secs]	[1]



Proposal 14208 - M1149 UVIS F336W+F547M (A4) - Frontier Fields Supernova Search

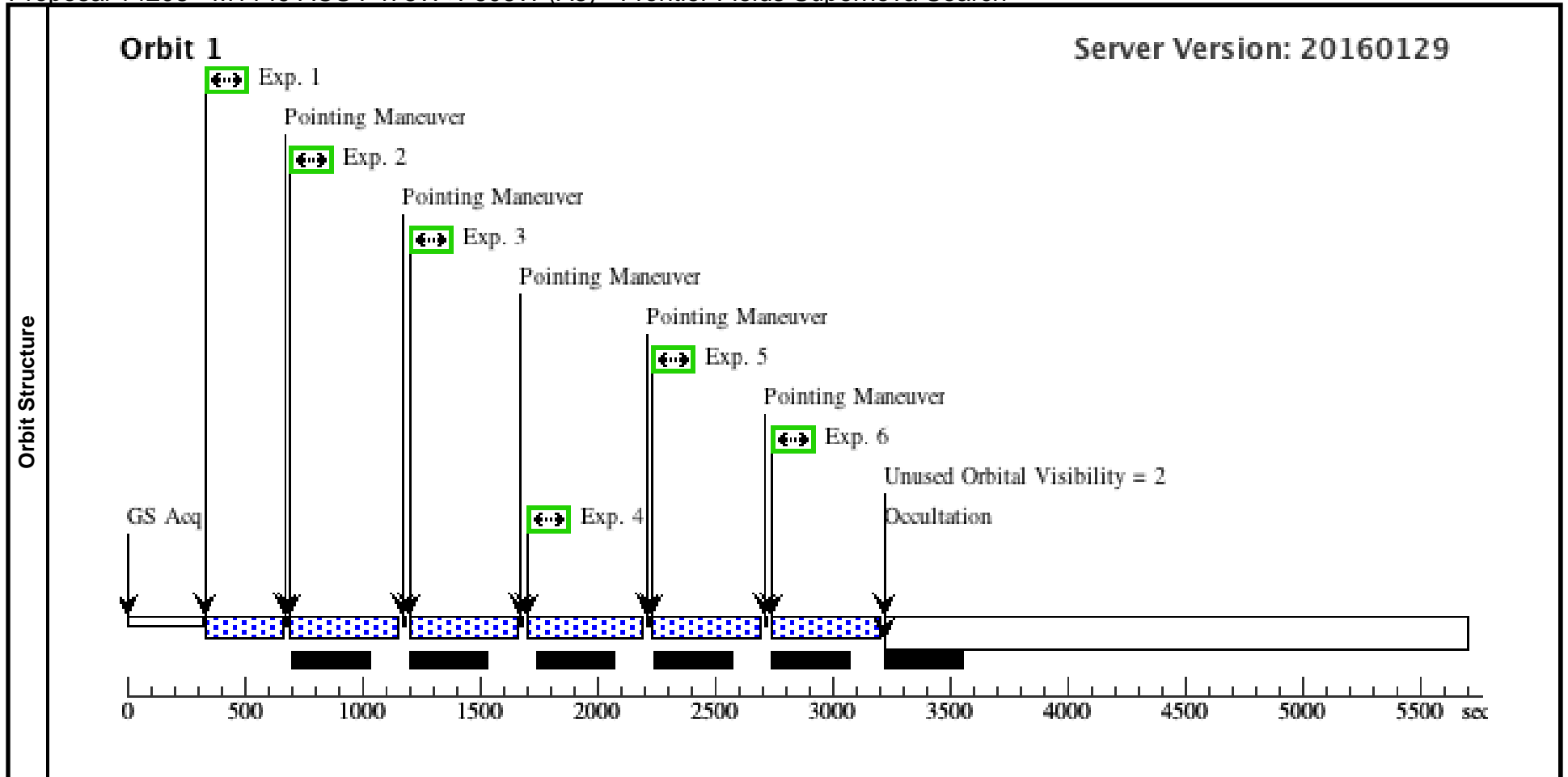
Tue May 10 18:50:34 GMT 2016

Visit	Proposal 14208, M1149 UVIS F336W+F547M (A4), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BEFORE 31-MAY-2016:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(2)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1), (2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	MACSJ1149-SN	RA: 11 49 35.6600 (177.3985833d) Dec: +22 23 48.00 (22.39667d) Equinox: J2000		V=30	Reference Frame: ICRS				
	<i>Comments: Extended=NO</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(6) MACSJ1149-SN	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F336W	FLASH=11		Pattern 2, Exps 1-1 in M1149 UVIS F336W+F547M (A4) (2)	280 Secs (1144 Secs) [==>286.0 Secs (Pattern 1)] [==>286.0 Secs (Pattern 2)] [==>286.0 Secs (Pattern 3)] [==>286.0 Secs (Pattern 4)]	[1]
	2		(6) MACSJ1149-SN	WFC3/UVIS, ACCUM, UVIS2-C1K1C-SUB	F547M	FLASH=9		Pattern 2, Exps 2-2 in M1149 UVIS F336W+F547M (A4) (2)	260 Secs (1064 Secs) [==>266.0 Secs (Pattern 1)] [==>266.0 Secs (Pattern 2)] [==>266.0 Secs (Pattern 3)] [==>266.0 Secs (Pattern 4)]	[1]



Proposal 14208 - M1149 ACS F475W+F606W (A5) - Frontier Fields Supernova Search

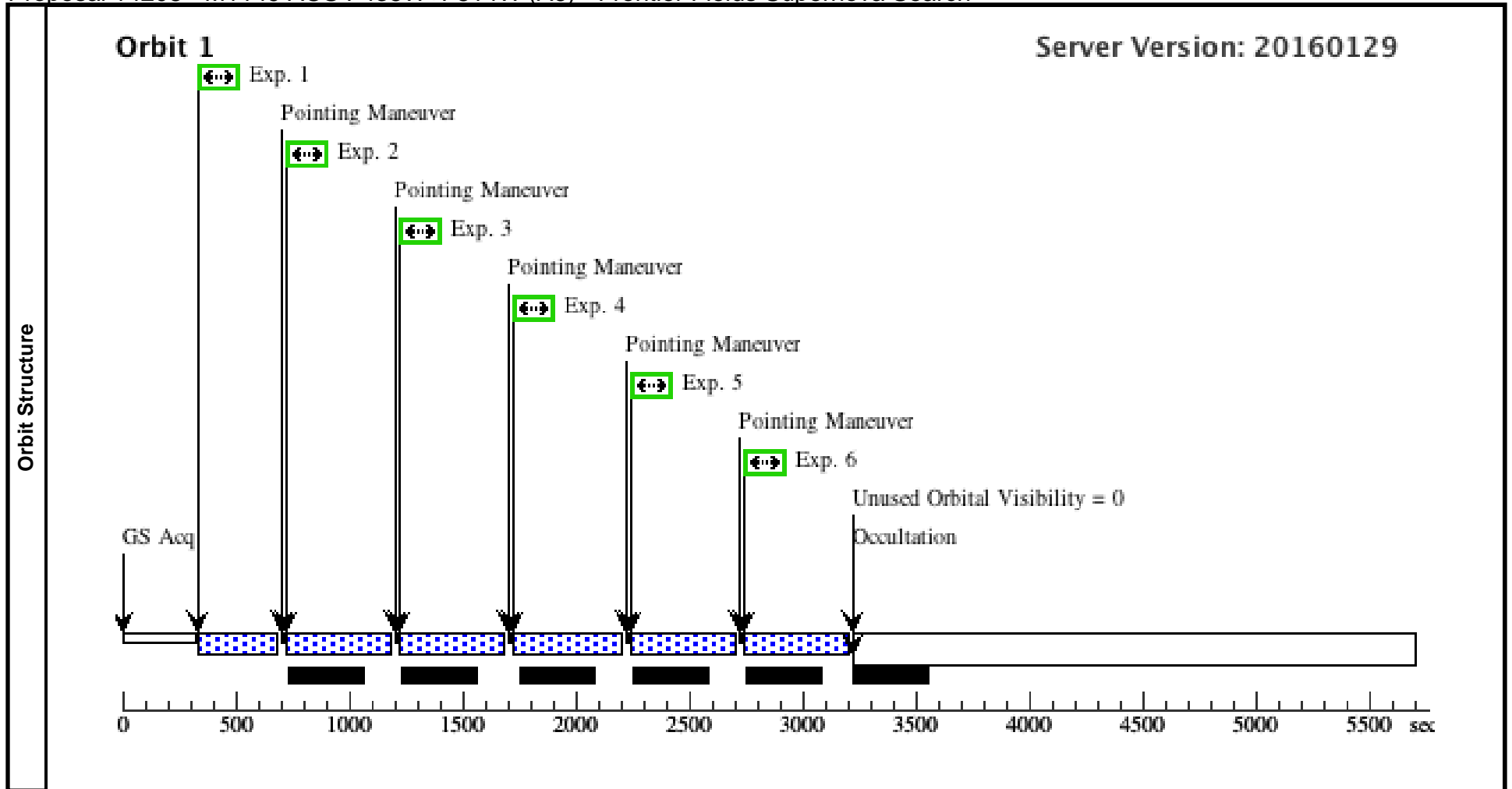
Visit	Proposal 14208, M1149 ACS F475W+F606W (A5), implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: BEFORE 31-MAY-2016:00:00:00					Tue May 10 18:50:34 GMT 2016				
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
(7)		MACSJ1149-SN-ACS2	RA: 11 49 39.2934 (177.4137225d) Dec: +22 23 46.62 (22.39628d) Equinox: J2000		V=30	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(7) MACSJ1149-SN-ACS2	ACS/WFC, ACCUM, WFC1-CTE	F475W			POS TARG 0,0		112 Secs (116 Secs) [=>116.0 Secs]	[1]
	2	(7) MACSJ1149-SN-ACS2	ACS/WFC, ACCUM, WFC1-CTE	F475W			POS TARG 0.247,2.984		337 Secs (341 Secs) [=>341.0 Secs]	[1]
	3	(7) MACSJ1149-SN-ACS2	ACS/WFC, ACCUM, WFC1-CTE	F475W			POS TARG 0.494,5.968		337 Secs (341 Secs) [=>341.0 Secs]	[1]
	4	(7) MACSJ1149-SN-ACS2	ACS/WFC, ACCUM, WFC1-CTE	F606W			SAME POS AS 1		337 Secs (341 Secs) [=>341.0 Secs]	[1]
	5	(7) MACSJ1149-SN-ACS2	ACS/WFC, ACCUM, WFC1-CTE	F606W			SAME POS AS 2		337 Secs (341 Secs) [=>341.0 Secs]	[1]
	6	(7) MACSJ1149-SN-ACS2	ACS/WFC, ACCUM, WFC1-CTE	F606W			SAME POS AS 3		337 Secs (341 Secs) [=>341.0 Secs]	[1]



Proposal 14208 - M1149 ACS F435W+F814W (A6) - Frontier Fields Supernova Search

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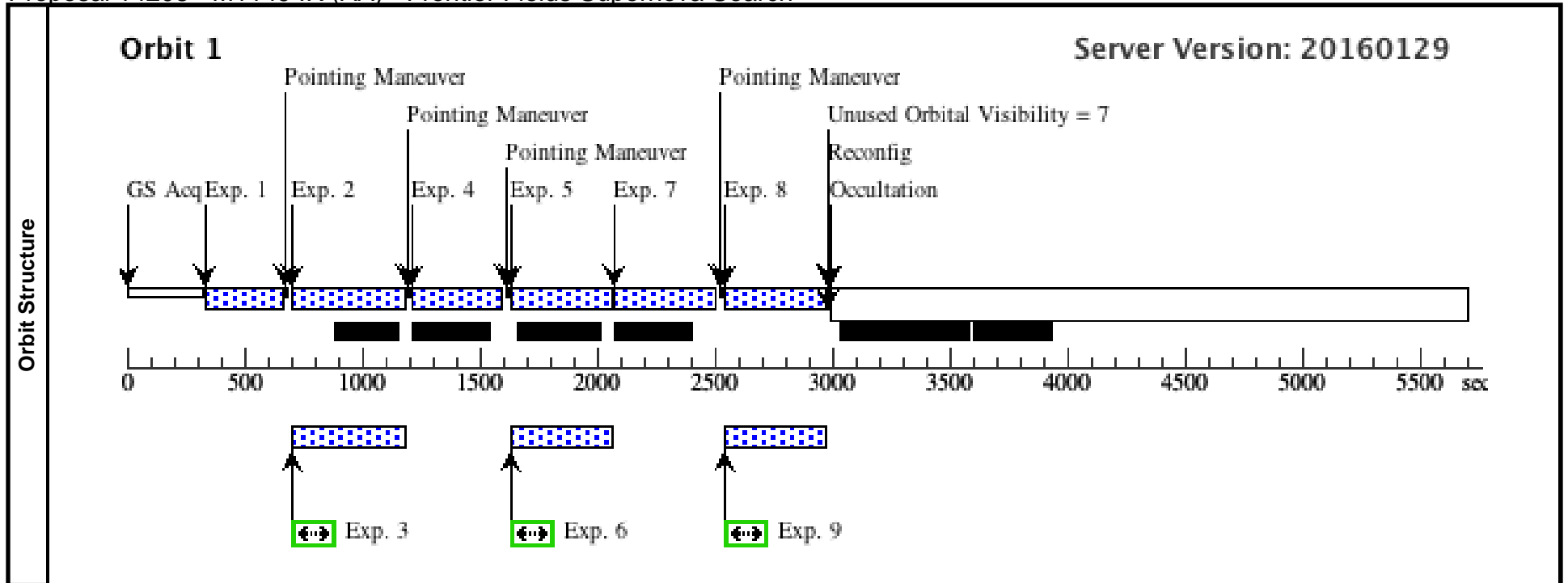
Visit	Proposal 14208, M1149 ACS F435W+F814W (A6), implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: BEFORE 31-MAY-2016:00:00:00									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(7)	MACSJ1149-SN-ACS2	RA: 11 49 39.2934 (177.4137225d) Dec: +22 23 46.62 (22.39628d) Equinox: J2000		V=30	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(7) MACSJ1149-SN-ACS2	ACS/WFC, ACCUM, WFC1-CTE	F435W		POS TARG 0,0			145 Secs (145 Secs) [==>]	[1]
	2	(7) MACSJ1149-SN-ACS2	ACS/WFC, ACCUM, WFC1-CTE	F435W		POS TARG 0.247,2.984			337 Secs (337 Secs) [==>]	[1]
	3	(7) MACSJ1149-SN-ACS2	ACS/WFC, ACCUM, WFC1-CTE	F435W		POS TARG 0.494,5.968			337 Secs (337 Secs) [==>]	[1]
	4	(7) MACSJ1149-SN-ACS2	ACS/WFC, ACCUM, WFC1-CTE	F814W		SAME POS AS 1			337 Secs (337 Secs) [==>]	[1]
	5	(7) MACSJ1149-SN-ACS2	ACS/WFC, ACCUM, WFC1-CTE	F814W		SAME POS AS 2			337 Secs (337 Secs) [==>]	[1]
	6	(7) MACSJ1149-SN-ACS2	ACS/WFC, ACCUM, WFC1-CTE	F814W		SAME POS AS 3			337 Secs (337 Secs) [==>]	[1]



Proposal 14208 - M1149 IR (AA) - Frontier Fields Supernova Search

Tue May 10 18:50:34 GMT 2016

Visit	Proposal 14208, M1149 IR (AA), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: SCHED 100%; ORIENT 125D TO 128 D; ORIENT 135D TO 147 D; BEFORE 24-MAY-2016:00:00:00; ON HOLD Comments: 6 short prime near-IR (JYYYJJ) and 3 ACS parallel observations. Preferred ORIENT = 125. On Hold Comments: Waiting for more IR data before activating																		
	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>MACSJ1149-SN</td> <td>RA: 11 49 35.6600 (177.3985833d) Dec: +22 23 48.00 (22.39667d) Equinox: J2000</td> <td></td> <td>V=30</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6">Comments: Extended=NO</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(6)	MACSJ1149-SN	RA: 11 49 35.6600 (177.3985833d) Dec: +22 23 48.00 (22.39667d) Equinox: J2000		V=30	Reference Frame: ICRS	Comments: Extended=NO				
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous														
(6)	MACSJ1149-SN	RA: 11 49 35.6600 (177.3985833d) Dec: +22 23 48.00 (22.39667d) Equinox: J2000		V=30	Reference Frame: ICRS														
Comments: Extended=NO																			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit									
	1	F125W	(6) MACSJ1149-SN	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=7; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O BASE1B3		302.934997 Secs (302.935 Secs) [==>]	[1]									
	2	F105W	(6) MACSJ1149-SN	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG 1.804,1. 612	Prime + Parallel Gro up 2-3 in M1149 IR (AA)	452.93635 Secs (452.936 Secs) [==>]	[1]									
	3		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 2-3 in M1149 IR (AA)	275 Secs (275 Secs) [==>]	[1]									
	4	F105W	(6) MACSJ1149-SN	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG 1.353,1. 209		352.935448 Secs (352.935 Secs) [==>]	[1]									
	5	F105W	(6) MACSJ1149-SN	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.902,0. 806	Prime + Parallel Gro up 5-6 in M1149 IR (AA)	402.935899 Secs (402.936 Secs) [==>]	[1]									
	6		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 5-6 in M1149 IR (AA)	307 Secs (307 Secs) [==>]	[1]									
	7	F125W	(6) MACSJ1149-SN	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.902,0. 806		402.935899 Secs (402.936 Secs) [==>]	[1]									
	8	F160W	(6) MACSJ1149-SN	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.451,0. 403	Prime + Parallel Gro up 8-9 in M1149 IR (AA)	402.935899 Secs (402.936 Secs) [==>]	[1]									
	9		ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 8-9 in M1149 IR (AA)	321 Secs (307 Secs) [==>307.0 Secs]	[1]									



Proposal 14208 - [Grism 3orb : Hx1200 + Gx6500] (01) - Frontier Fields Supernova Search

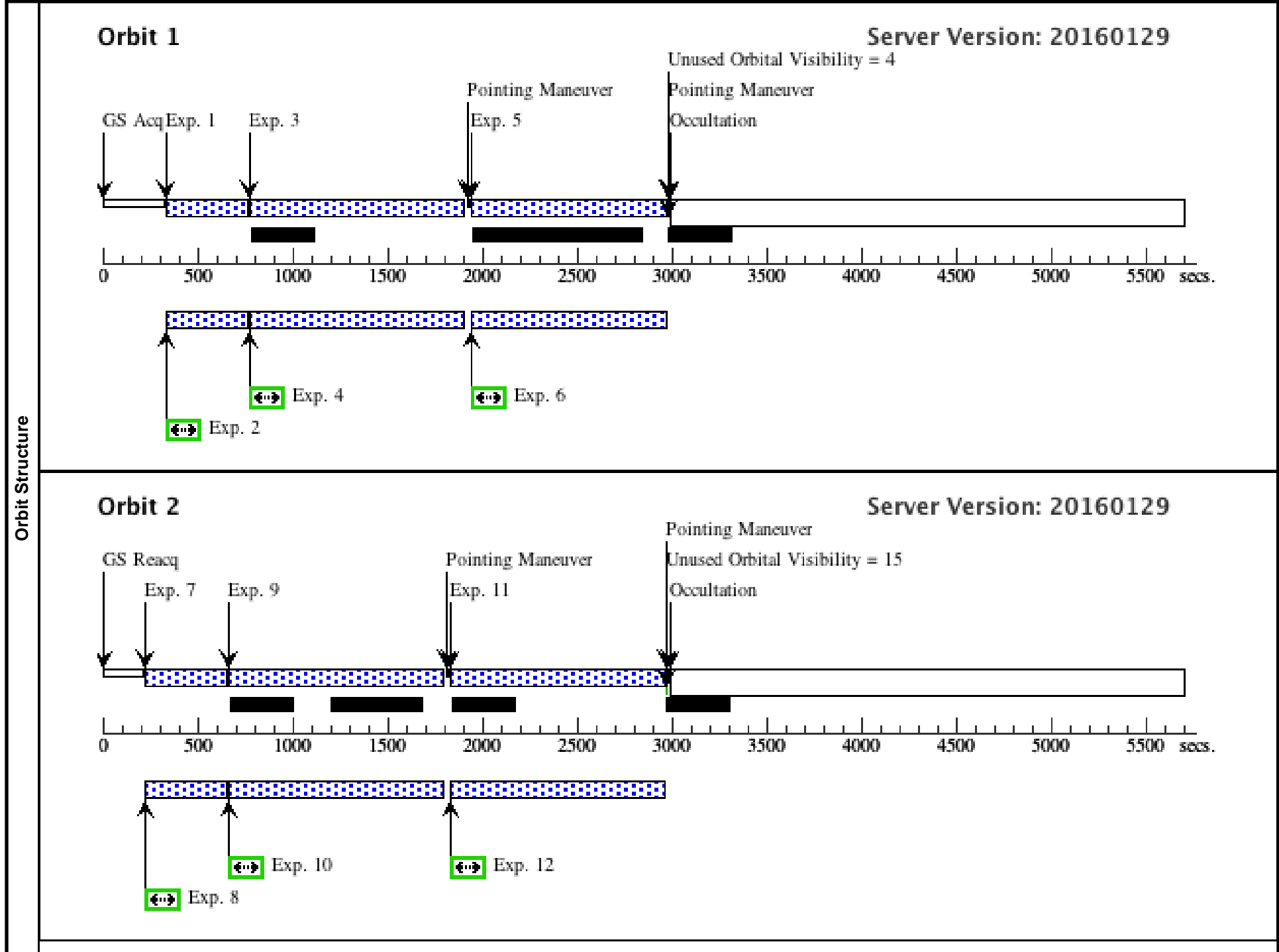
Visit	Proposal 14208, [Grism 3orb : Hx1200 + Gx6500] (01), withdrawn Tue May 10 18:50:34 GMT 2016 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: SCHED 100%; ON HOLD Comments: NOTE: this template observation is "on hold" below. On Hold Comments: Template Observation					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(1)		ABELL370-SN	RA: 02 39 50.5000 (39.9604167d) Dec: -01 35 8.00 (-1.58556d) Equinox: J2000		V=30	Reference Frame: SIMBAD
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.						

Proposal 14208 - [Grism 3orb : Hx1200 + Gx6500] (01) - Frontier Fields Supernova Search

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(1) ABELL370-SN	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.273,0.302	Prime + Parallel Group 1-2 in [Grism 3orb : Hx1200 + Gx6500] (01)	402.935899 Secs (402.936 Secs) [==>]	[1]
	2	ANY	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group 1-2 in [Grism 3orb : Hx1200 + Gx6500] (01)	200 Secs (225 Secs) [==>225.0 Secs]	[1]
	3	(1) ABELL370-SN	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S100	POS TARG 0.273,0.302	Prime + Parallel Group 3-4 in [Grism 3orb : Hx1200 + Gx6500] (01)	1102.935844 Secs (1102.936 Secs) [==>]	[1]
	4	ANY	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group 3-4 in [Grism 3orb : Hx1200 + Gx6500] (01)	507 Secs (1007 Secs) [==>1007.0 Secs]	[1]
	5	(1) ABELL370-SN	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=11; SAMP-SEQ=SPAR S100	POS TARG -0.608,0.244	Prime + Parallel Group 5-6 in [Grism 3orb : Hx1200 + Gx6500] (01)	1002.935521 Secs (1002.936 Secs) [==>]	[1]
	6	ANY	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group 5-6 in [Grism 3orb : Hx1200 + Gx6500] (01)	607 Secs (907 Secs) [==>907.0 Secs]	[1]
	7	(1) ABELL370-SN	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.540,-0.243	Prime + Parallel Group 7-8 in [Grism 3orb : Hx1200 + Gx6500] (01)	402.935899 Secs (402.936 Secs) [==>]	[2]
	8	ANY	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO		Prime + Parallel Group 7-8 in [Grism 3orb : Hx1200 + Gx6500] (01)	200 Secs (252 Secs) [==>252.0 Secs]	[2]
	9	(1) ABELL370-SN	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S100	POS TARG 0.540,-0.243	Prime + Parallel Group 9-10 in [Grism 3orb : Hx1200 + Gx6500] (01)	1102.935844 Secs (1102.936 Secs) [==>]	[2]
	10	ANY	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO		Prime + Parallel Group 9-10 in [Grism 3orb : Hx1200 + Gx6500] (01)	507 Secs (1007 Secs) [==>1007.0 Secs]	[2]
	11	(1) ABELL370-SN	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S100	POS TARG -0.340,-0.301	Prime + Parallel Group 11-12 in [Grism 3orb : Hx1200 + Gx6500] (01)	1102.935844 Secs (1102.936 Secs) [==>]	[2]
	12	ANY	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO		Prime + Parallel Group 11-12 in [Grism 3orb : Hx1200 + Gx6500] (01)	607 Secs (1007 Secs) [==>1007.0 Secs]	[2]
	13	(1) ABELL370-SN	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG -0.608,0.244	Prime + Parallel Group 13-14 in [Grism 3orb : Hx1200 + Gx6500] (01)	402.935899 Secs (402.936 Secs) [==>]	[3]
	14	ANY	ACS/WFC, ACCUM, WFCENTER	F850LP	CR-SPLIT=NO		Prime + Parallel Group 13-14 in [Grism 3orb : Hx1200 + Gx6500] (01)	200 Secs (280 Secs) [==>280.0 Secs]	[3]

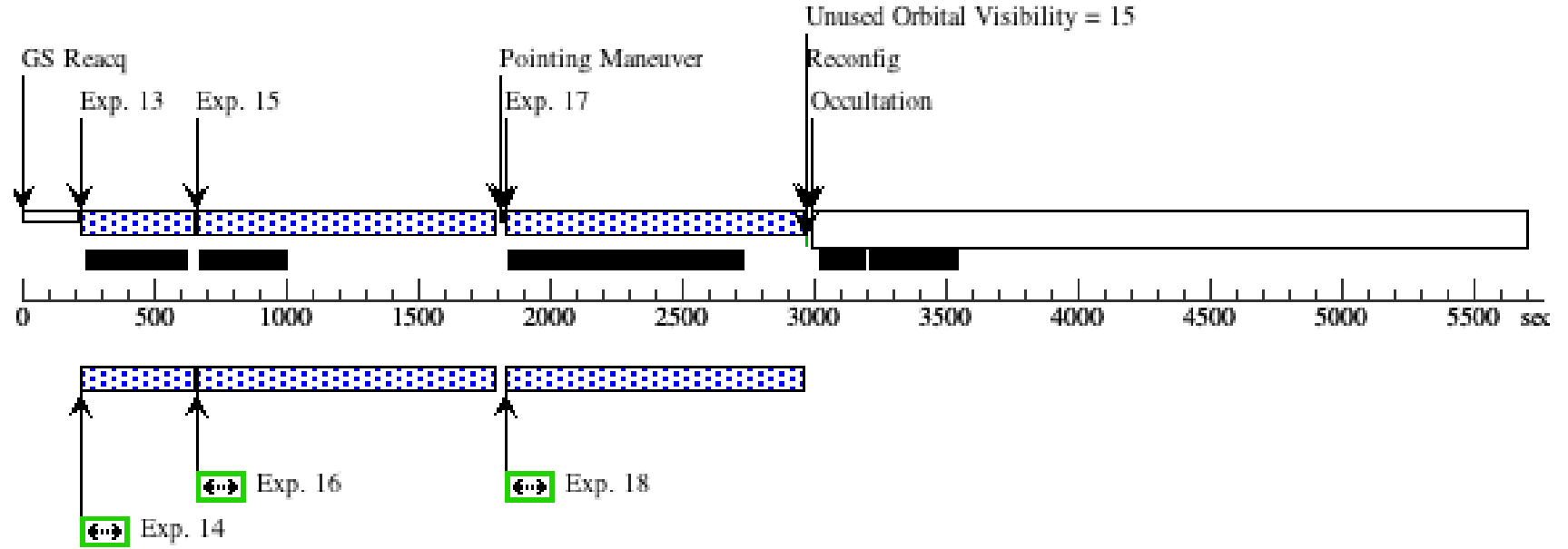
Proposal 14208 - [Grism 3orb : Hx1200 + Gx6500] (01) - Frontier Fields Supernova Search

15	(1) ABELL370-SN	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S100	POS TARG -0.608,0 .244	Prime + Parallel Gro up 15-16 in [Grism 3orb : Hx1200 + Gx 6500] (01)	1102.935844 Secs (1102.936 Secs)	[==>]	[3]	
	16	ANY	ACS/WFC, ACCUM, WFCENTER	F850LP	CR-SPLIT=NO	Prime + Parallel Gro up 15-16 in [Grism 3orb : Hx1200 + Gx 6500] (01)	507 Secs (1007 Secs)	[==>1007.0 Secs]	[3]	
	17	(1) ABELL370-SN	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S100	POS TARG 0.273,0 302	Prime + Parallel Gro up 17-18 in [Grism 3orb : Hx1200 + Gx 6500] (01)	1102.935844 Secs (1102.936 Secs)	[==>]	[3]
	18	ANY	ACS/WFC, ACCUM, WFCENTER	F850LP	CR-SPLIT=NO	Prime + Parallel Gro up 17-18 in [Grism 3orb : Hx1200 + Gx 6500] (01)	607 Secs (1007 Secs)	[==>1007.0 Secs]	[3]	



Orbit 3

Server Version: 20160129

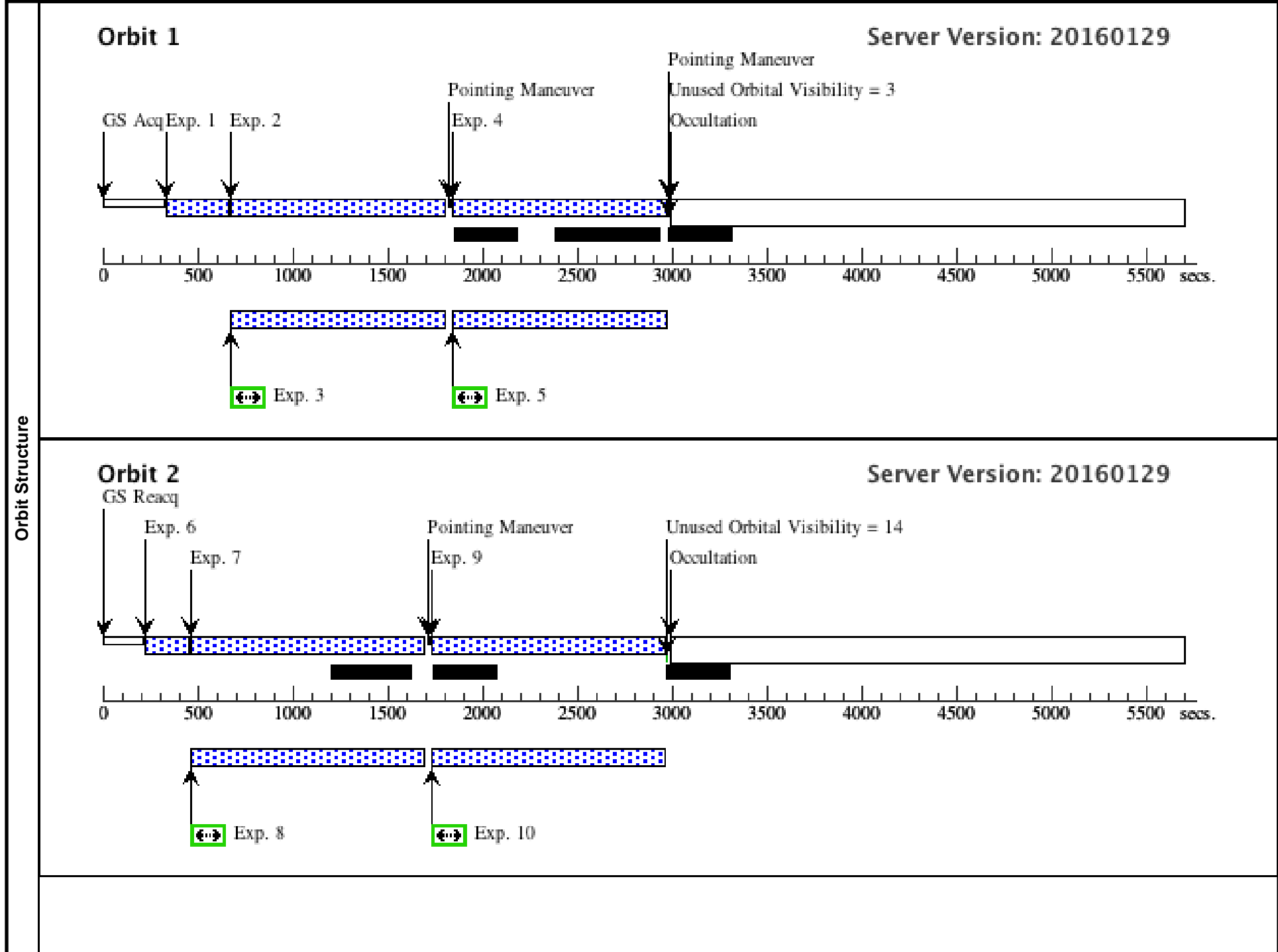


Proposal 14208 - [Grism 3orb : Hx700 + Gx7000] (02) - Frontier Fields Supernova Search

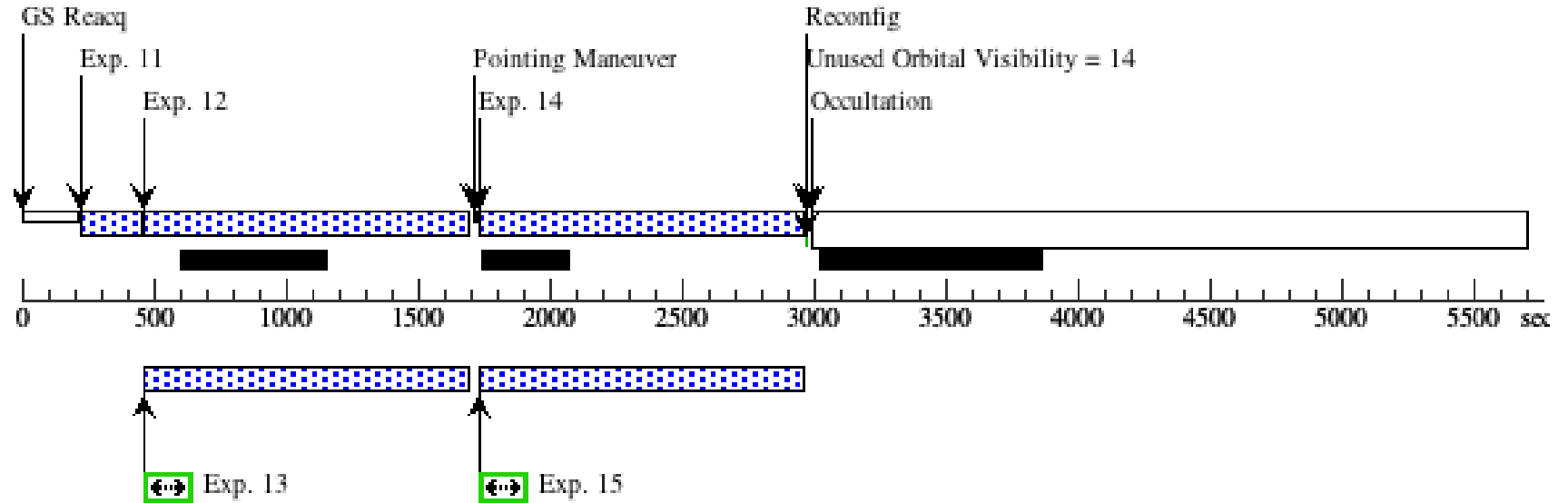
Visit	Proposal 14208, [Grism 3orb : Hx700 + Gx7000] (02), withdrawn Tue May 10 18:50:34 GMT 2016 Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: SCHED 100%; ON HOLD Comments: <i>NOTE: this template observation is "on hold" below.</i> On Hold Comments: <i>This is a template observation. Not to be executed.</i>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(2)		ABELLS1063-SN	RA: 22 48 54.3000 (342.2262500d) Dec: -44 31 7.00 (-44.51861d) Equinox: J2000		V=30	Reference Frame: SIMBAD
Comments: <i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i>						

Proposal 14208 - [Grism 3orb : Hx700 + Gx7000] (02) - Frontier Fields Supernova Search

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	Direct Image	(2) ABELLS1063-S N	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=7; SAMP-SEQ=SPAR S50	POS TARG 0.273,0. 302	302.934997 Secs (302.935 Secs) [==>]	[1]	
	2		(2) ABELLS1063-S N	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S100	POS TARG 0.273,0. 302	Prime + Parallel Group 2-3 in [Grism 3orb : Hx700 + Gx7000] (02)	1102.935844 Secs (1102.936 Secs) [==>]	[1]
	3		ANY	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group 2-3 in [Grism 3orb : Hx700 + Gx7000] (02)	507 Secs (925 Secs) [==>925.0 Secs]	[1]
	4		(2) ABELLS1063-S N	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=12; SAMP-SEQ=SPAR S100	POS TARG -0.608,0 .244	Prime + Parallel Group 4-5 in [Grism 3orb : Hx700 + Gx7000] (02)	1102.935844 Secs (1102.936 Secs) [==>]	[1]
	5		ANY	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group 4-5 in [Grism 3orb : Hx700 + Gx7000] (02)	607 Secs (1007 Secs) [==>1007.0 Secs]	[1]
	6	Direct Image	(2) ABELLS1063-S N	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG 0.540,-0 .243		202.934095 Secs (202.934 Secs) [==>]	[2]
	7		(2) ABELLS1063-S N	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.540,-0 .243	Prime + Parallel Group 7-8 in [Grism 3orb : Hx700 + Gx7000] (02)	1202.936167 Secs (1202.936 Secs) [==>]	[2]
	8		ANY	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group 7-8 in [Grism 3orb : Hx700 + Gx7000] (02)	507 Secs (1107 Secs) [==>1107.0 Secs]	[2]
	9		(2) ABELLS1063-S N	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG -0.340,- 0.301	Prime + Parallel Group 9-10 in [Grism 3orb : Hx700 + Gx7000] (02)	1202.936167 Secs (1202.936 Secs) [==>]	[2]
	10		ANY	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group 9-10 in [Grism 3orb : Hx700 + Gx7000] (02)	607 Secs (1107 Secs) [==>1107.0 Secs]	[2]
	11	Direct Image	(2) ABELLS1063-S N	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S50	POS TARG -0.340,- 0.301		202.934095 Secs (202.934 Secs) [==>]	[3]
	12		(2) ABELLS1063-S N	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG -0.340,- 0.301	Prime + Parallel Group 12-13 in [Grism 3orb : Hx700 + Gx7000] (02)	1202.936167 Secs (1202.936 Secs) [==>]	[3]
	13		ANY	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group 12-13 in [Grism 3orb : Hx700 + Gx7000] (02)	507 Secs (1107 Secs) [==>1107.0 Secs]	[3]
	14		(2) ABELLS1063-S N	WFC3/IR, MULTIACCUM, GRISM1024	G141	NSAMP=13; SAMP-SEQ=SPAR S100	POS TARG 0.540,-0 .243	Prime + Parallel Group 14-15 in [Grism 3orb : Hx700 + Gx7000] (02)	1202.936167 Secs (1202.936 Secs) [==>]	[3]
	15		ANY	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group 14-15 in [Grism 3orb : Hx700 + Gx7000] (02)	607 Secs (1107 Secs) [==>1107.0 Secs]	[3]



Orbit 3

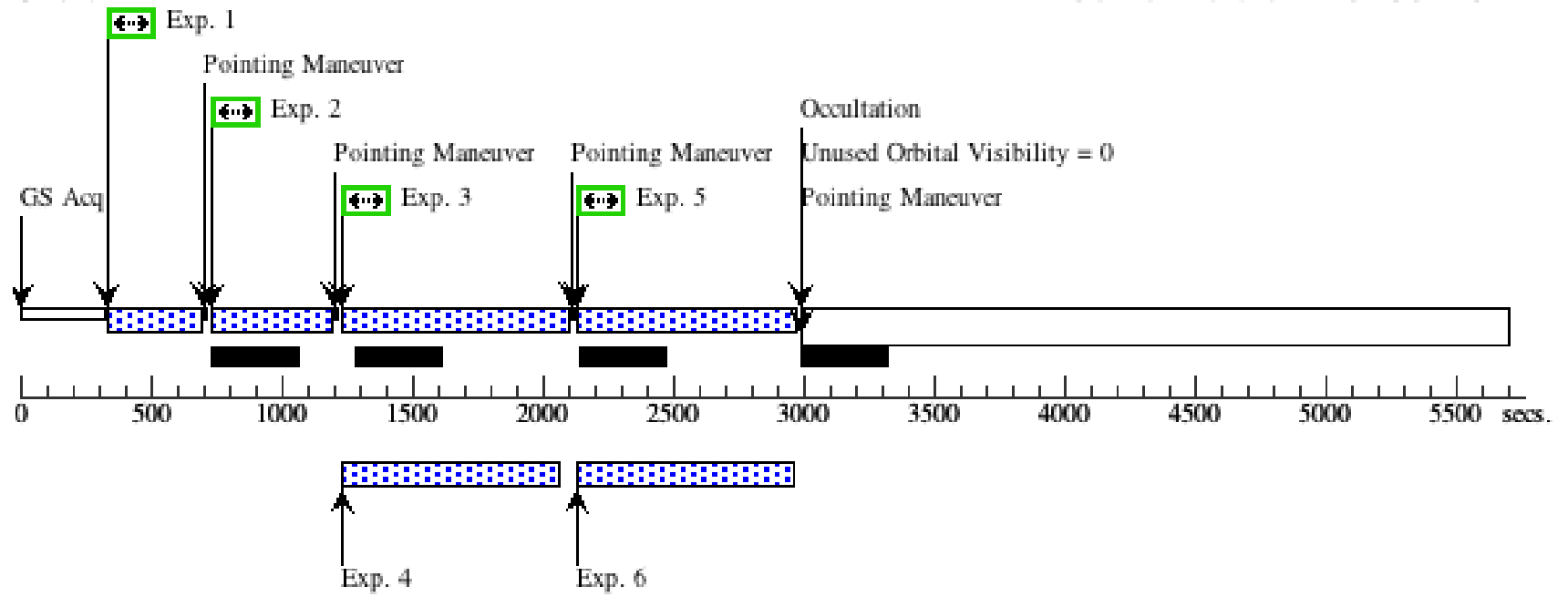


Proposal 14208 - [Grism 2orb] (03) - Frontier Fields Supernova Search

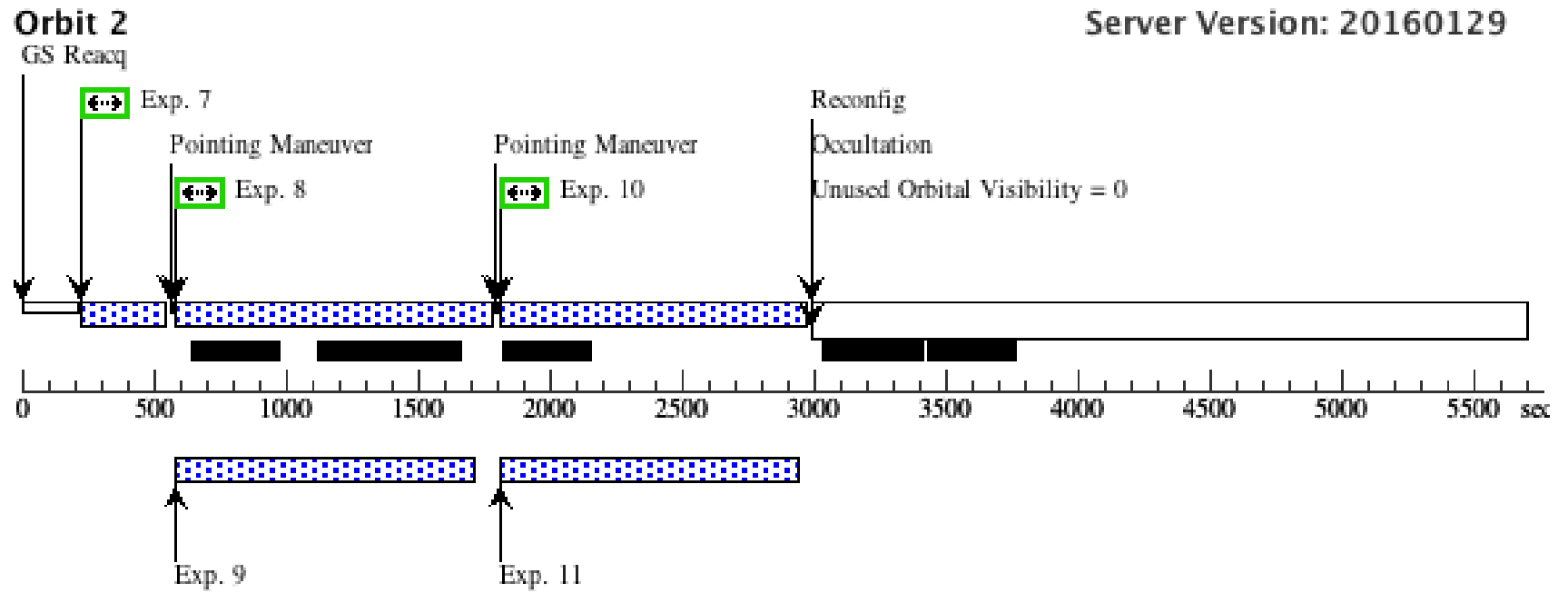
Tue May 10 18:50:34 GMT 2016

Visit	Proposal 14208, [Grism 2orb] (03), withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: SCHED 100%; ON HOLD On Hold Comments: This is a template.									
	Generic Targets	#	Name	Criteria	Description					
	(4)	FRONTIER-FIELD-SN	SN discovered in HFF or GLASS fields	SUPERNOVA						
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(4) FRONTIER-FIELD-SN	ACS/WFC, ACCUM, WFC1-CTE	F814W		POS TARG 0.0,0.0		150 Secs (150 Secs) [==>]	[1]
	2		(4) FRONTIER-FIELD-SN	ACS/WFC, ACCUM, WFC1-CTE	F814W		POS TARG 0.247,2.984		339 Secs (339 Secs) [==>]	[1]
	3		(4) FRONTIER-FIELD-SN	ACS/WFC, ACCUM, WFC1-CTE	G800L	AUTOIMAGE=NO	POS TARG 0.0,0.0	Prime + Parallel Group 3-4 in [Grism 2orb] (03)	700 Secs (700 Secs) [==>]	[1]
	4		ANY	WFC3/IR, MULTIACCUM, IR-FIX	F127M	NSAMP=9; SAMP-SEQ=SPAR S100		Prime + Parallel Group 3-4 in [Grism 2orb] (03)	802.934875 Secs (802.935 Secs) [==>]	[1]
	5		(4) FRONTIER-FIELD-SN	ACS/WFC, ACCUM, WFC1-CTE	G800L	AUTOIMAGE=NO	POS TARG 0.247,0.094	Prime + Parallel Group 5-6 in [Grism 2orb] (03)	717 Secs (717 Secs) [==>]	[1]
	6		ANY	WFC3/IR, MULTIACCUM, IR-FIX	F127M	NSAMP=9; SAMP-SEQ=SPAR S100		Prime + Parallel Group 5-6 in [Grism 2orb] (03)	802.934875 Secs (802.935 Secs) [==>]	[1]
	7		(4) FRONTIER-FIELD-SN	ACS/WFC, ACCUM, WFC1-CTE	F814W		POS TARG 0.494,5.968		150 Secs (150 Secs) [==>]	[2]
	8		(4) FRONTIER-FIELD-SN	ACS/WFC, ACCUM, WFC1-CTE	G800L	AUTOIMAGE=NO	POS TARG 0.124,0.232	Prime + Parallel Group 8-9 in [Grism 2orb] (03)	1025 Secs (1025 Secs) [==>]	[2]
	9		ANY	WFC3/IR, MULTIACCUM, IR-FIX	F127M	NSAMP=12; SAMP-SEQ=SPAR S100		Prime + Parallel Group 8-9 in [Grism 2orb] (03)	1102.935844 Secs (1102.936 Secs) [==>]	[2]
	10		(4) FRONTIER-FIELD-SN	ACS/WFC, ACCUM, WFC1-CTE	G800L	AUTOIMAGE=NO	POS TARG -0.124,0.138	Prime + Parallel Group 10-11 in [Grism 2orb] (03)	1036 Secs (1036 Secs) [==>]	[2]
11		ANY	WFC3/IR, MULTIACCUM, IR-FIX	F127M	NSAMP=12; SAMP-SEQ=SPAR S100		Prime + Parallel Group 10-11 in [Grism 2orb] (03)	1102.935844 Secs (1102.936 Secs) [==>]	[2]	

Orbit 1



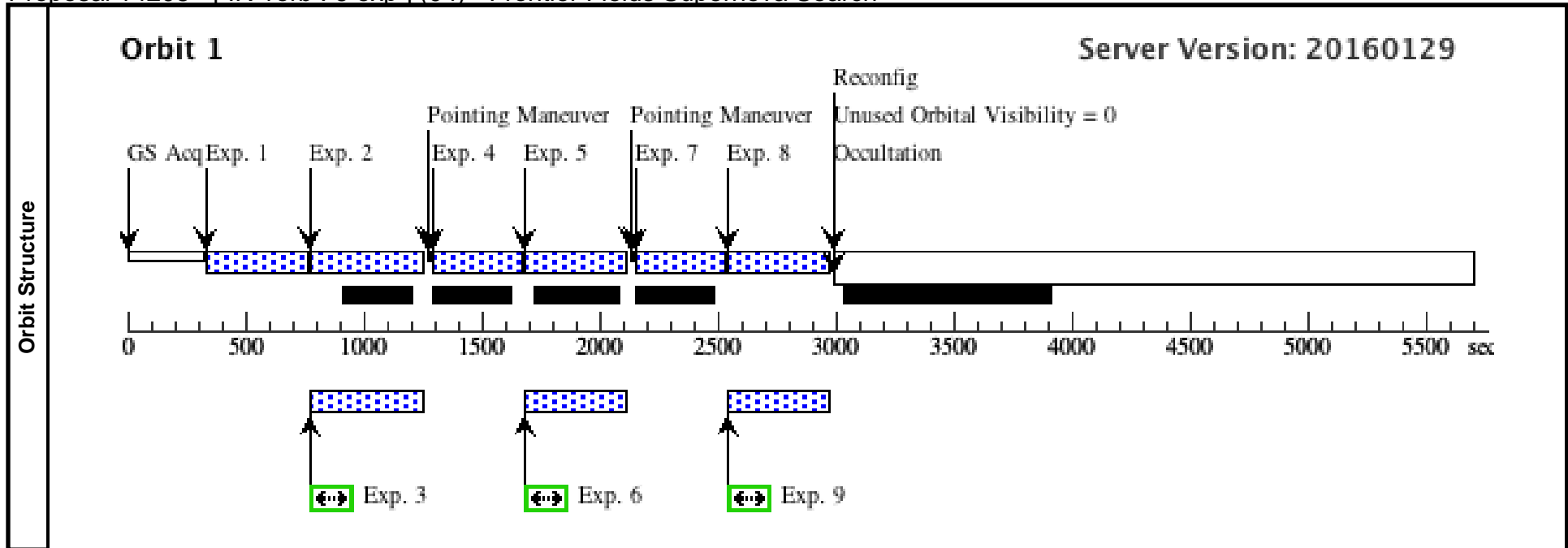
Orbit Structure



Proposal 14208 - [IR 1orb : 6 exp] (04) - Frontier Fields Supernova Search

Tue May 10 18:50:34 GMT 2016

Visit	Proposal 14208, [IR 1orb : 6 exp] (04), withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: SCHED 100%; ON HOLD Comments: Template for a tightly packed orbit with 6 short prime-field IR exposures and 3 ACS parallel exposures. On Hold Comments: This is a template.									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(3)	MACSJ1149-SN-ACS	RA: 11 49 39.1230 (177.4130125d) Dec: +22 23 51.01 (22.39750d) Equinox: J2000		V=30	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3) MACSJ1149-SN-ACS	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.00,0.0 0			402.935899 Secs (402.936 Secs) [==>]	[1]
	2	(3) MACSJ1149-SN-ACS	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG 0,0	Prime + Parallel Group 2-3 in [IR 1orb : 6 exp] (04)		452.93635 Secs (452.936 Secs) [==>]	[1]
	3	ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 2-3 in [IR 1orb : 6 exp] (04)		275 Secs (275 Secs) [==>]	[1]
	4	(3) MACSJ1149-SN-ACS	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG 0.451,0. 403			352.935448 Secs (352.935 Secs) [==>]	[1]
	5	(3) MACSJ1149-SN-ACS	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.451,0. 403	Prime + Parallel Group 5-6 in [IR 1orb : 6 exp] (04)		402.935899 Secs (402.936 Secs) [==>]	[1]
	6	ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 5-6 in [IR 1orb : 6 exp] (04)		307 Secs (307 Secs) [==>]	[1]
	7	(3) MACSJ1149-SN-ACS	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG 0.902,0. 806			352.935448 Secs (352.935 Secs) [==>]	[1]
	8	(3) MACSJ1149-SN-ACS	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	POS TARG 0.902,0. 806	Prime + Parallel Group 8-9 in [IR 1orb : 6 exp] (04)		402.935899 Secs (402.936 Secs) [==>]	[1]
9	ANY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 8-9 in [IR 1orb : 6 exp] (04)		321 Secs (307 Secs) [==>307.0 Secs]	[1]	



Proposal 14208 - [IR 2orb: Hx2500 + Jx2500] (05) - Frontier Fields Supernova Search

Visit	<p>Proposal 14208, [IR 2orb: Hx2500 + Jx2500] (05), withdrawn Tue May 10 18:50:34 GMT 2016</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: WFC3/IR, ACS/WFC</p> <p>Special Requirements: SCHED 100%; ON HOLD</p> <p><i>Comments: NOTE: this template observation is "on hold" below. Currently set to SCHED100. On Hold Comments: Template Observation.</i></p>			
	Generic Targets	#	Name	Criteria
(4)		FRONTIER-FIELD-SN	SN discovered in HFF or GLASS fields	SUPERNOVA

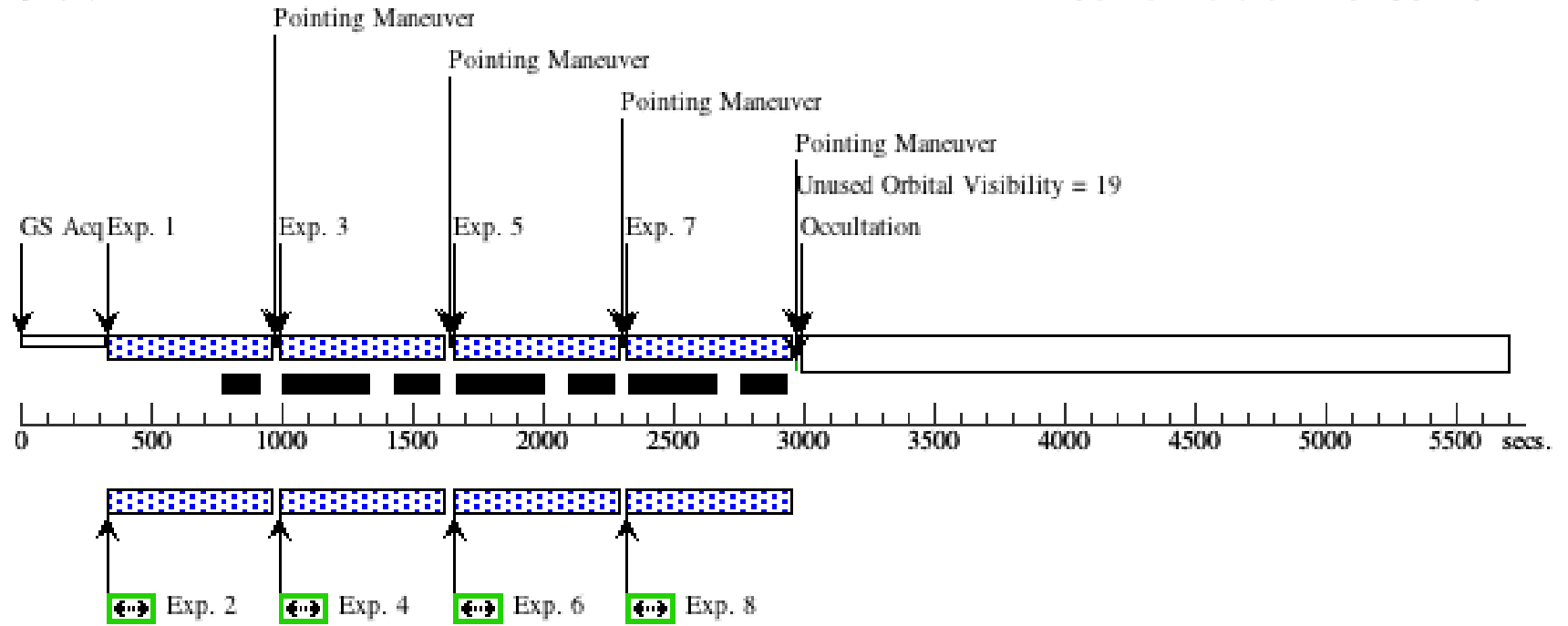
Proposal 14208 - [IR 2orb: Hx2500 + Jx2500] (05) - Frontier Fields Supernova Search

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(4) FRONTIER-FIE LD-SN	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0.273,0.302	Prime + Parallel Group 1-2 in [IR 2orb: Hx2500 + Jx2500] (05)	602.934229 Secs (602.934 Secs) [==>]	[1]
	2	ANY	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO		Prime + Parallel Group 1-2 in [IR 2orb: Hx2500 + Jx2500] (05)	425 Secs (425 Secs) [==>]	[1]
	3	(4) FRONTIER-FIE LD-SN	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0.540,-0.243	Prime + Parallel Group 3-4 in [IR 2orb: Hx2500 + Jx2500] (05)	602.934229 Secs (602.934 Secs) [==>]	[1]
	4	ANY	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO		Prime + Parallel Group 3-4 in [IR 2orb: Hx2500 + Jx2500] (05)	507 Secs (507 Secs) [==>]	[1]
	5	(4) FRONTIER-FIE LD-SN	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG -0.340,-0.301	Prime + Parallel Group 5-6 in [IR 2orb: Hx2500 + Jx2500] (05)	602.934229 Secs (602.934 Secs) [==>]	[1]
	6	ANY	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO		Prime + Parallel Group 5-6 in [IR 2orb: Hx2500 + Jx2500] (05)	507 Secs (507 Secs) [==>]	[1]
	7	(4) FRONTIER-FIE LD-SN	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG -0.608,0.244	Prime + Parallel Group 7-8 in [IR 2orb: Hx2500 + Jx2500] (05)	602.934229 Secs (602.934 Secs) [==>]	[1]
	8	ANY	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO		Prime + Parallel Group 7-8 in [IR 2orb: Hx2500 + Jx2500] (05)	555 Secs (507 Secs) [==>507.0 Secs]	[1]
	9	(4) FRONTIER-FIE LD-SN	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0.273,0.302	Prime + Parallel Group 9-10 in [IR 2orb: Hx2500 + Jx2500] (05)	602.934229 Secs (602.934 Secs) [==>]	[2]
	10	ANY	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group 9-10 in [IR 2orb: Hx2500 + Jx2500] (05)	461 Secs (452 Secs) [==>452.0 Secs]	[2]
	11	(4) FRONTIER-FIE LD-SN	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0.540,-0.243	Prime + Parallel Group 11-12 in [IR 2orb: Hx2500 + Jx2500] (05)	602.934229 Secs (602.934 Secs) [==>]	[2]
	12	ANY	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group 11-12 in [IR 2orb: Hx2500 + Jx2500] (05)	507 Secs (507 Secs) [==>]	[2]
	13	(4) FRONTIER-FIE LD-SN	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=13; SAMP-SEQ=SPAR S50	POS TARG -0.340,-0.301	Prime + Parallel Group 13-14 in [IR 2orb: Hx2500 + Jx2500] (05)	602.937703 Secs (602.938 Secs) [==>]	[2]
	14	ANY	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO		Prime + Parallel Group 13-14 in [IR 2orb: Hx2500 + Jx2500] (05)	557 Secs (507 Secs) [==>507.0 Secs]	[2]

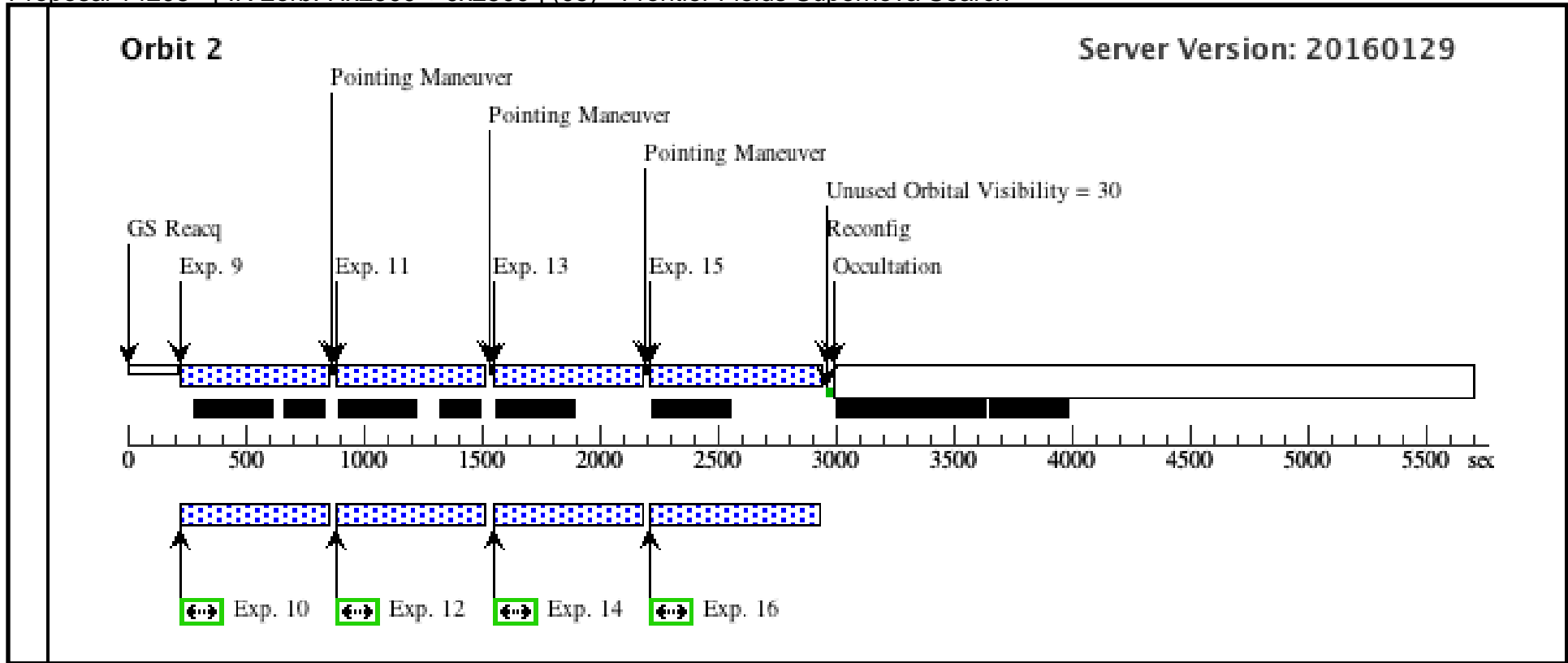
Proposal 14208 - [IR 2orb: Hx2500 + Jx2500] (05) - Frontier Fields Supernova Search

15	(4) FRONTIER-FIE LD-SN	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=15; SAMP-SEQ=SPAR S50	POS TARG -0.608,0 .244	Prime + Parallel Gro up 15-16 in [IR 2orb : Hx2500 + Jx2500] (05)	702.938605 Secs (702.939 Secs) [==>]	[2]
16	ANY	ACS/WFC, ACCUM, WFCENTER	F814W	CR-SPLIT=NO		Prime + Parallel Gro up 15-16 in [IR 2orb : Hx2500 + Jx2500] (05)	607 Secs (601 Secs) [==>601.0 Secs]	[2]

Orbit 1



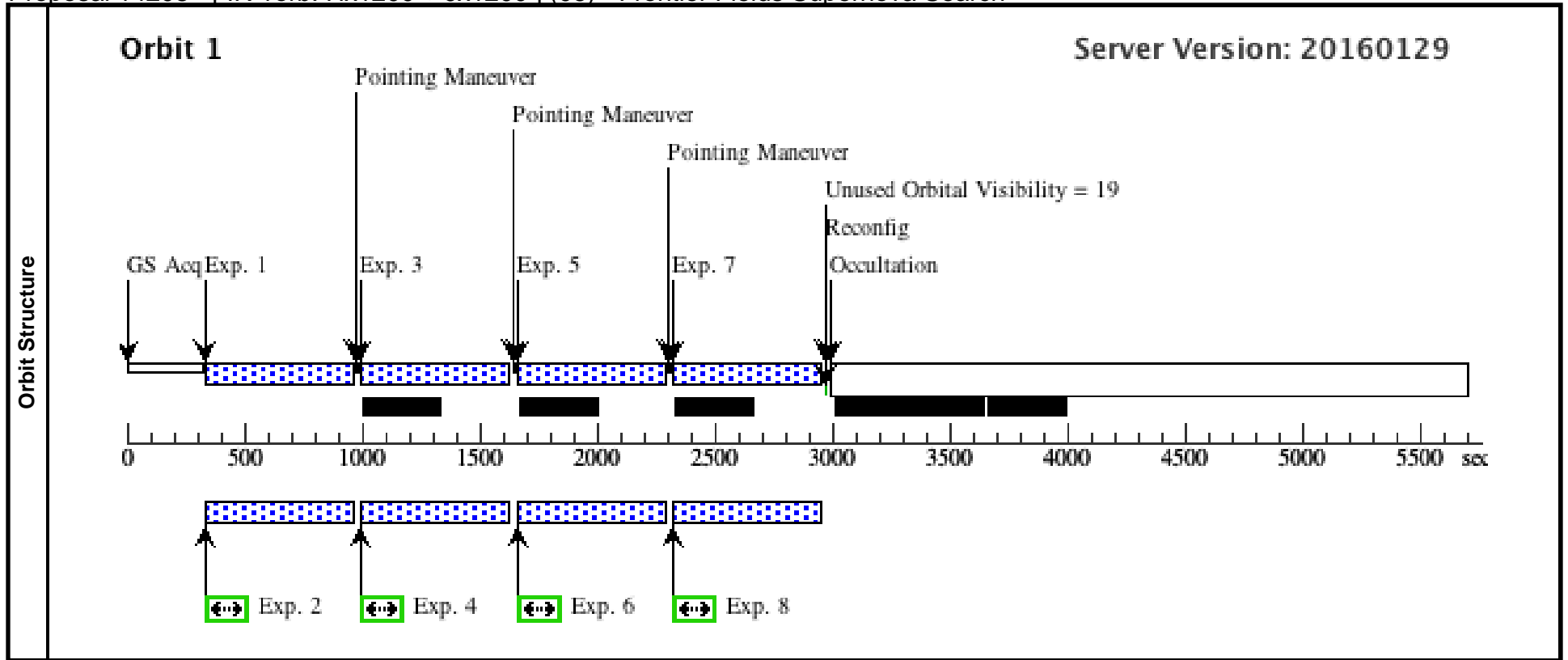
Orbit Structure



Proposal 14208 - [IR 1orb: Hx1200 + Jx1200] (06) - Frontier Fields Supernova Search

Tue May 10 18:50:34 GMT 2016

Visit	Proposal 14208, [IR 1orb: Hx1200 + Jx1200] (06), withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: SCHED 100%; ON HOLD Comments: NOTE: this template observation is "on hold" below. Currently set to SCHED100. On Hold Comments: Template Observation.									
	Generic Targets	#	Name	Criteria	Description					
	(4)	FRONTIER-FIELD-SN	SN discovered in HFF or GLASS fields	SUPERNOVA						
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(4) FRONTIER-FIELD-SN	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0.273,0.302	Prime + Parallel Group 1-2 in [IR 1orb: Hx1200 + Jx1200] (06)	602.934229 Secs (602.934 Secs) [==>]	[1]
	2		ANY	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO		Prime + Parallel Group 1-2 in [IR 1orb: Hx1200 + Jx1200] (06)	425 Secs (425 Secs) [==>]	[1]
	3		(4) FRONTIER-FIELD-SN	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0.540,-0.243	Prime + Parallel Group 3-4 in [IR 1orb: Hx1200 + Jx1200] (06)	602.934229 Secs (602.934 Secs) [==>]	[1]
	4		ANY	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO		Prime + Parallel Group 3-4 in [IR 1orb: Hx1200 + Jx1200] (06)	507 Secs (507 Secs) [==>]	[1]
	5		(4) FRONTIER-FIELD-SN	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG -0.340,-0.301	Prime + Parallel Group 5-6 in [IR 1orb: Hx1200 + Jx1200] (06)	602.934229 Secs (602.934 Secs) [==>]	[1]
	6		ANY	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO		Prime + Parallel Group 5-6 in [IR 1orb: Hx1200 + Jx1200] (06)	507 Secs (507 Secs) [==>]	[1]
	7		(4) FRONTIER-FIELD-SN	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG -0.608,0.244	Prime + Parallel Group 7-8 in [IR 1orb: Hx1200 + Jx1200] (06)	602.934229 Secs (602.934 Secs) [==>]	[1]
8		ANY	ACS/WFC, ACCUM, WFCENTER	F606W	CR-SPLIT=NO		Prime + Parallel Group 7-8 in [IR 1orb: Hx1200 + Jx1200] (06)	555 Secs (507 Secs) [==>507.0 Secs]	[1]	

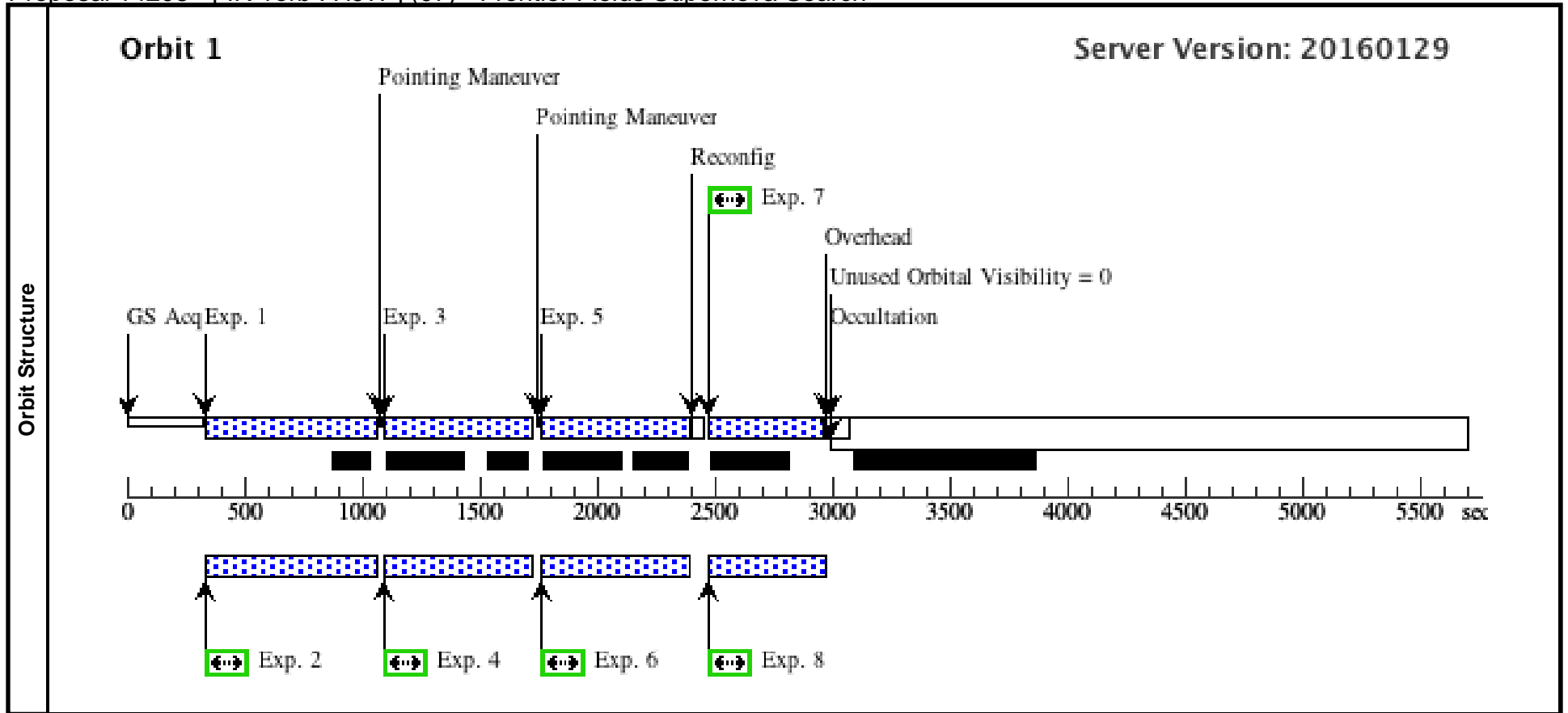


Proposal 14208 - [IR 1orb : HJW] (07) - Frontier Fields Supernova Search

Tue May 10 18:50:34 GMT 2016

Generic Targets	#	Name	Criteria	Description
	(4)	FRONTIER-FIELD-SN	SN discovered in HFF or GLASS fields	SUPERNOVA

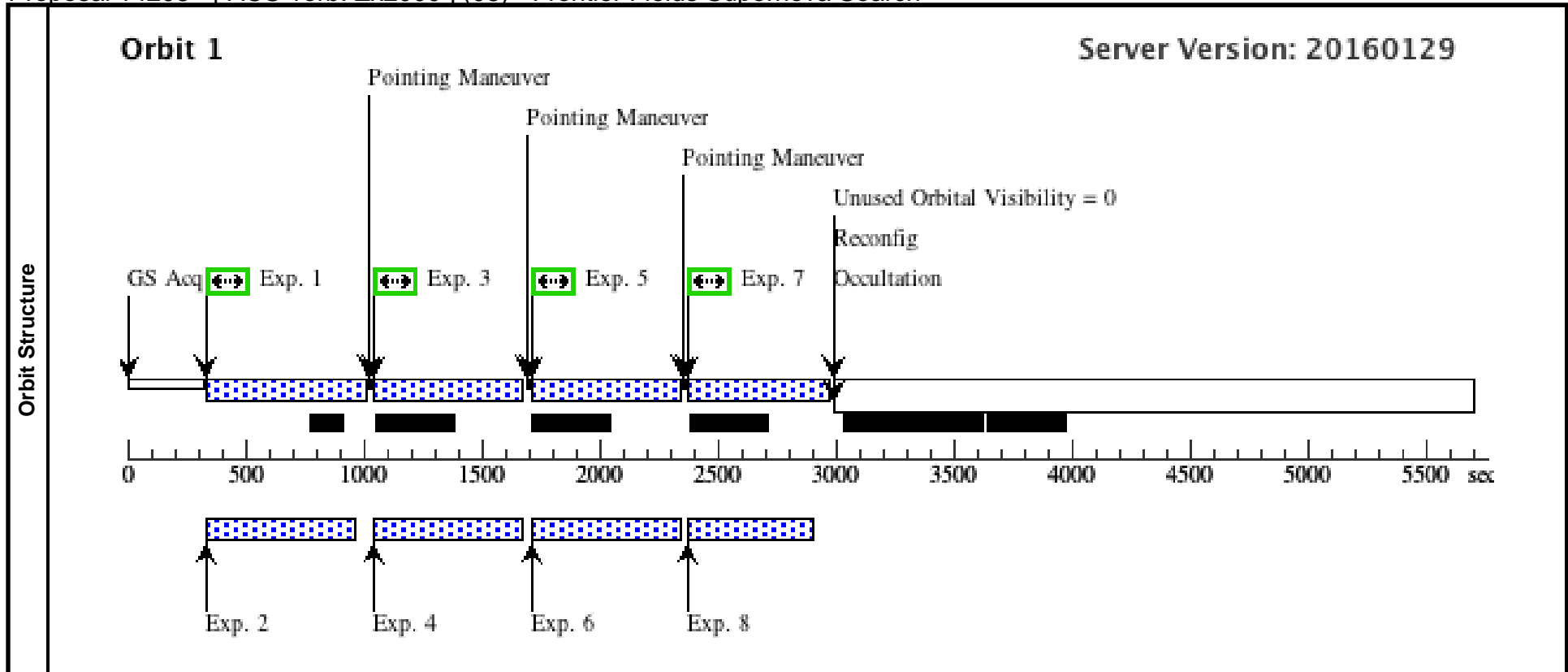
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(4) FRONTIER-FIELD-SN	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=8; SAMP-SEQ=SPAR S100	POS TARG 0.273,0.302	Prime + Parallel Group 1-2 in [IR 1orb : HJW] (07)	702.934552 Secs (702.935 Secs) [==>]	[1]	
	2	ANY	ACS/WFC, ACCUM, WFCENTER	F850LP	CR-SPLIT=NO		Prime + Parallel Group 1-2 in [IR 1orb : HJW] (07)	507 Secs (525 Secs) [==>525.0 Secs]	[1]	
	3	(4) FRONTIER-FIELD-SN	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0.540,-0.243	Prime + Parallel Group 3-4 in [IR 1orb : HJW] (07)	602.934229 Secs (602.934 Secs) [==>]	[1]	
	4	ANY	ACS/WFC, ACCUM, WFCENTER	F850LP	CR-SPLIT=NO		Prime + Parallel Group 3-4 in [IR 1orb : HJW] (07)	507 Secs (507 Secs) [==>]	[1]	
	5	(4) FRONTIER-FIELD-SN	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=13; SAMP-SEQ=SPAR S50	POS TARG 0,0	Prime + Parallel Group 5-6 in [IR 1orb : HJW] (07)	602.937703 Secs (602.938 Secs) [==>]	[1]	
	6	ANY	ACS/WFC, ACCUM, WFCENTER	F850LP	CR-SPLIT=NO		Prime + Parallel Group 5-6 in [IR 1orb : HJW] (07)	507 Secs (507 Secs) [==>]	[1]	
	7	(4) FRONTIER-FIELD-SN	WFC3/UVIS, ACCUM, UVIS-IR-FIX	F350LP		POS TARG 0,0	Prime + Parallel Group 7-8 in [IR 1orb : HJW] (07)	459 Secs (459 Secs) [==>]	[1]	
	8	ANY	ACS/WFC, ACCUM, WFCENTER	F850LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in [IR 1orb : HJW] (07)	381 Secs (381 Secs) [==>]	[1]	



Proposal 14208 - [ACS 1orb: Zx2000] (08) - Frontier Fields Supernova Search

Tue May 10 18:50:34 GMT 2016

Visit	Proposal 14208, [ACS 1orb: Zx2000] (08), withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: SCHED 100%; ON HOLD <i>Comments: NOTE: this template observation is "on hold" below.</i> <i>Currently set to SCHED100.</i> <i>On Hold Comments: Template observation.</i>									
Generic Targets	#	Name	Criteria	Description						
	(4)	FRONTIER-FIELD-SN	SN discovered in HFF or GLASS fields	SUPERNOVA						
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(4) FRONTIER-FIELD-SN	ACS/WFC, ACCUM, WFCENTER	F850LP		POS TARG 0,0	Prime + Parallel Group 1-2 in [ACS 1orb : Zx2000] (08)	473 Secs (473 Secs)	[1]	
	2	ANY	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=7; SAMP-SEQ=SPAR S100		Prime + Parallel Group 1-2 in [ACS 1orb : Zx2000] (08)	602.934229 Secs (602.934 Secs)	[1]	
	3	(4) FRONTIER-FIELD-SN	ACS/WFC, ACCUM, WFCENTER	F850LP		POS TARG 0.247,0.094	Prime + Parallel Group 3-4 in [ACS 1orb : Zx2000] (08)	507 Secs (507 Secs)	[1]	
	4	ANY	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=7; SAMP-SEQ=SPAR S100		Prime + Parallel Group 3-4 in [ACS 1orb : Zx2000] (08)	602.934229 Secs (602.934 Secs)	[1]	
	5	(4) FRONTIER-FIELD-SN	ACS/WFC, ACCUM, WFCENTER	F850LP		POS TARG 0.124,0.232	Prime + Parallel Group 5-6 in [ACS 1orb : Zx2000] (08)	507 Secs (507 Secs)	[1]	
	6	ANY	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=7; SAMP-SEQ=SPAR S100		Prime + Parallel Group 5-6 in [ACS 1orb : Zx2000] (08)	602.934229 Secs (602.934 Secs)	[1]	
	7	(4) FRONTIER-FIELD-SN	ACS/WFC, ACCUM, WFCENTER	F850LP		POS TARG -0.124,0.138	Prime + Parallel Group 7-8 in [ACS 1orb : Zx2000] (08)	478 Secs (478 Secs)	[1]	
	8	ANY	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=11; SAMP-SEQ=SPAR S50		Prime + Parallel Group 7-8 in [ACS 1orb : Zx2000] (08)	502.936801 Secs (502.937 Secs)	[1]	



Proposal 14208 - [ACS 1orb: Vx1200 + Zx700] (09) - Frontier Fields Supernova Search

Tue May 10 18:50:34 GMT 2016

Visit	Proposal 14208, [ACS 1orb: Vx1200 + Zx700] (09), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC Special Requirements: SCHED 100%; ON HOLD Comments: NOTE: this template observation is "on hold" below. Currently set to SCHED100. On Hold Comments: Template observation.									
	Generic Targets	#	Name	Criteria	Description					
	(4)	FRONTIER-FIELD-SN	SN discovered in HFF or GLASS fields	SUPERNOVA						
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(4) FRONTIER-FIELD-SN	ACS/WFC, ACCUM, WFCENTER	F606W		POS TARG 0,0	Prime + Parallel Group 1-2 in [ACS 1orb : Vx1200 + Zx700] (09)	327 Secs (327 Secs) [==>]	[1]
	2		ANY	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=10; SAMP-SEQ=SPAR S50		Prime + Parallel Group 1-2 in [ACS 1orb : Vx1200 + Zx700] (09)	452.93635 Secs (452.936 Secs) [==>]	[1]
	3		(4) FRONTIER-FIELD-SN	ACS/WFC, ACCUM, WFCENTER	F606W		POS TARG 0.247,0.094	Prime + Parallel Group 3-4 in [ACS 1orb : Vx1200 + Zx700] (09)	350 Secs (350 Secs) [==>]	[1]
	4		ANY	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=5; SAMP-SEQ=SPAR S100		Prime + Parallel Group 3-4 in [ACS 1orb : Vx1200 + Zx700] (09)	402.933583 Secs (402.934 Secs) [==>]	[1]
	5		(4) FRONTIER-FIELD-SN	ACS/WFC, ACCUM, WFCENTER	F606W		POS TARG 0.124,0.232	Prime + Parallel Group 5-6 in [ACS 1orb : Vx1200 + Zx700] (09)	350 Secs (350 Secs) [==>]	[1]
	6		ANY	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=5; SAMP-SEQ=SPAR S100		Prime + Parallel Group 5-6 in [ACS 1orb : Vx1200 + Zx700] (09)	402.933583 Secs (402.934 Secs) [==>]	[1]
	7		(4) FRONTIER-FIELD-SN	ACS/WFC, ACCUM, WFCENTER	F850LP		POS TARG 0.124,0.232	Prime + Parallel Group 7-8 in [ACS 1orb : Vx1200 + Zx700] (09)	389 Secs (389 Secs) [==>]	[1]
	8		ANY	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=6; SAMP-SEQ=SPAR S100		Prime + Parallel Group 7-8 in [ACS 1orb : Vx1200 + Zx700] (09)	502.933906 Secs (502.934 Secs) [==>]	[1]
	9		(4) FRONTIER-FIELD-SN	ACS/WFC, ACCUM, WFCENTER	F850LP		POS TARG -0.124,0.138	Prime + Parallel Group 9-10 in [ACS 1orb : Vx1200 + Zx700] (09)	384 Secs (384 Secs) [==>]	[1]
10		ANY	WFC3/IR, MULTIACCUM, IR-FIX	F125W	NSAMP=10; SAMP-SEQ=SPAR S50		Prime + Parallel Group 9-10 in [ACS 1orb : Vx1200 + Zx700] (09)	452.93635 Secs (452.936 Secs) [==>]	[1]	

