



13029 - A Snapshot Survey of the Sites of Recent, Nearby Supernovae

Cycle: 20, Proposal Category: SNAP

(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>
02	(2) SN-1988Z	WFC3/UVIS	1	24-Jul-2013 21:01:28.0	yes
03	(3) SN-2011HT	WFC3/UVIS	1	24-Jul-2013 21:01:35.0	yes
04	(4) PSN-J12304185+4137498	WFC3/UVIS	1	24-Jul-2013 21:01:40.0	yes
05	(5) SN-2009IG	WFC3/UVIS	1	24-Jul-2013 21:01:45.0	yes
06	(6) SN-2011DH	WFC3/UVIS	1	24-Jul-2013 21:01:50.0	yes
07	(7) PSN-J12355230+2755559	WFC3/UVIS	1	24-Jul-2013 21:01:54.0	yes
08	(8) SN-2011BY	WFC3/UVIS	1	24-Jul-2013 21:01:59.0	yes
09	(9) SN-2011B	WFC3/UVIS	1	24-Jul-2013 21:02:03.0	yes
10	(10) SN-2010JP	WFC3/UVIS	1	24-Jul-2013 21:02:08.0	yes
11	(11) SN-2010DN	WFC3/UVIS	1	24-Jul-2013 21:02:12.0	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>
12	(12) SN-2010DA	WFC3/UVIS	1	24-Jul-2013 21:02:16.0	yes
13	(13) SN-2006TF	WFC3/UVIS	1	24-Jul-2013 21:02:21.0	yes
14	(14) SN-2010AL	WFC3/UVIS	1	24-Jul-2013 21:02:25.0	yes
15	(15) SN-2009LS	WFC3/UVIS	1	24-Jul-2013 21:02:29.0	yes
16	(16) SN-2007RT	WFC3/UVIS	1	24-Jul-2013 21:02:34.0	yes
17	(17) SN-2009DD	WFC3/UVIS	1	24-Jul-2013 21:02:38.0	yes
18	(18) SN-2008IN	WFC3/UVIS	1	24-Jul-2013 21:02:42.0	yes
19	(19) SN-2007SV	WFC3/UVIS	1	24-Jul-2013 21:02:46.0	yes
20	(20) SN-2006GY	WFC3/UVIS	1	24-Jul-2013 21:02:51.0	yes
21	(21) SN-2006FP	WFC3/UVIS	1	24-Jul-2013 21:02:55.0	yes
22	(22) SN-2005BF	WFC3/UVIS	1	24-Jul-2013 21:02:59.0	yes
23	(23) SN-2001EM	WFC3/UVIS	1	24-Jul-2013 21:03:04.0	yes
24	(24) SN-2009IB	WFC3/UVIS	1	24-Jul-2013 21:03:08.0	yes
25	(25) SN-2010JL	WFC3/UVIS	1	24-Jul-2013 21:03:12.0	yes

24 Total Orbits Used

ABSTRACT

During the past few years, robotic (or nearly robotic) searches for supernovae (SNe), most notably our Lick Observatory Supernova Search (LOSS), have found hundreds of SNe, many of them in quite nearby galaxies ($cz < 4000$ km/s). Most of the objects were discovered before maximum brightness, and have follow-up photometry and spectroscopy; they include some of the best-studied SNe to date. We propose to conduct a survey program to image the sites of some of these nearby objects, to obtain late-time photometry that will help reveal the origin of their lingering energy. The images will also provide high-resolution information on the local environments of SNe that are far superior to what we can procure from the ground. For example, we will obtain color-magnitude diagrams of stars in these SN sites, to constrain the reddening and SN progenitor masses. We will provide statistics on the light echoes around SNe, an important clue to their progenitor systems. We also propose to image several "SN impostors" -- faint SNe II_n with massive progenitors -- to verify whether they are indeed superoutbursts of luminous blue variables and survived the explosions, or a new/weak class of massive star explosions. Finally, the data will add multi-filter, deep images of many nearby galaxies to the HST

archive for future studies such as galaxy morphology, stellar populations, SN progenitors, and variable stars.

OBSERVING DESCRIPTION

We wish to obtain WFC3 images of the sites of nearby, recent SNe discovered or monitored by LOSS. Most of the objects are core-collapse SNe, which have massive, short-lived progenitors (making it also possible to study individual stars in their local environment), but several SNe Ia will also be imaged to obtain late-time measurements in crowded environments and provide statistics on light echoes. The use of standard wide bands will permit direct comparisons with other HST observations. Although there are tradeoffs, we feel that WFC3 is superior to ACS for our purposes, due to its higher resolution and, more importantly, shorter overhead time for the relatively brief snapshot visits. Note that a substantial part of the host galaxies of the SNe will be imaged with WFC3, and the data can be used for many other studies, such as galaxy morphology, stellar populations, variable stars, star clusters, H II regions, and the search for future SN progenitors. We will adjust the pointing coordinates of the telescope to make sure the SN sites and the maximum portion of their host galaxies are imaged.

Accurate astrometry will generally be needed in order to locate the faint SN in its environment. This requires imposing an independent reference grid onto the WFC3 image, using stars that have been measured in deep, ground-based images and tied to the USNO B1 systems. We have access to telescopes at the Lick, Palomar, CFHT, Gemini, Magellan, and Keck Observatories, where we have been obtaining such images of each SN field. We have verified in previous studies that the number of stars typically visible in the HST and ground-based images is sufficient for our purposes.

Given our desire to go fairly deep, and the advantage of having some color information for SNe (and their environments), the use of at least two filters is deemed necessary, and we choose F555W (V) and F814W (I) filters for our proposed visits. The F814W filter is sensitive to massive, evolved stars in the neighborhood of core-collapse SNe, and provides constraints on the possible circumstellar material interaction and dust formation around SNe, while the F555W filter provides color information for the SNe and the stellar content of the environment, and is also more sensitive to possible light echoes. The CR-SPLIT exposures will be dithered, as requested (Call for Proposals, Sec. 4.1.7), to improve data quality.

For a single visit to be ~35 minutes long (the peak of the distribution of snapshot visits has historically been around 30-35 minutes, according to the HST Snapshot document at [http://www.stsci.edu/hst/HST overview/documents/](http://www.stsci.edu/hst/HST%20overview/documents/)), there can be only one filter change and only one CR-SPLIT pair of WFC3 exposures through each filter. Due to a severe overhead of 5.8 min for any short (< 339 s) exposures among the first three exposures in a visit, we design a visit with the first pair of exposures having 340 s integration each, while the second pair of exposures have 340 s and 170 s integrations (the last short exposure does not impose the 5.8 min overhead penalty). This yields a total visit time of 2114 s = 35.2 minutes. We have verified with

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existing HST data that uneven integration times (by a factor of 2) in a dithered CR-SPLIT exposure do not pose problems for cosmic-ray removal. The long pair of exposures (totalling 680 s) is used for the F814W filter because it has less sensitivity than the F555W filter.

For the total exposure times of 510 s in F555W and 680 s in F814W per visit, we find using the WFC3 exposure time calculator that, from our detection, as part of our Snapshot program GO-10272, of SN Ia 2003gs in NGC 936 (distance modulus $\mu \approx 31.6$ mag) on day ~ 440 at $V = 23.7$ and $I = 22.5$ mag, the SNe Ia in our sample (at comparable ages and distances, $\mu > \sim 31.7$ mag) will be easily detected at signal-to-noise ratios (S/N) of ~ 46 (V) and ~ 35 (I). These S/N will, of course, be lower for the SNe Ia that are somewhat more distant and/or older at the time of the observations. We consider the SNe Ia as the benchmark for our S/N estimation, since many of the SNe II and Ib/c may be more luminous at late times than radioactive decay would predict, due to circumstellar interaction. We may be able to use the resolved stellar environments around the core-collapse SNe to constrain the age and mass of the SN progenitor. In Figure 3 we show the color-magnitude diagram derived from observations of the SN II 2005af environment ($\mu = 27.9$ and $A_V \approx 0.6$ mag) as part of our Snapshot program GO-10877, in which we detect red supergiants (RSGs) at $V \approx 24$ mag with initial mass ~ 12 solar masses. The SNe II in our proposed sample are at an average distance modulus $\mu > \sim 30.8$ mag. We would detect similar RSGs in the environments of these SNe II (assuming $A_V \approx 0.1$ mag) at $S/N \approx 4$ (V) and ~ 15 (I).

We have chosen 24 nearby SNe/SN impostors as the superset of targets for our snapshot study. We concentrate on the most recent ones (which have the highest probability of being detected in the HST images), as well as on long-lived SNe (as judged from their continually updated ground-based light curves).

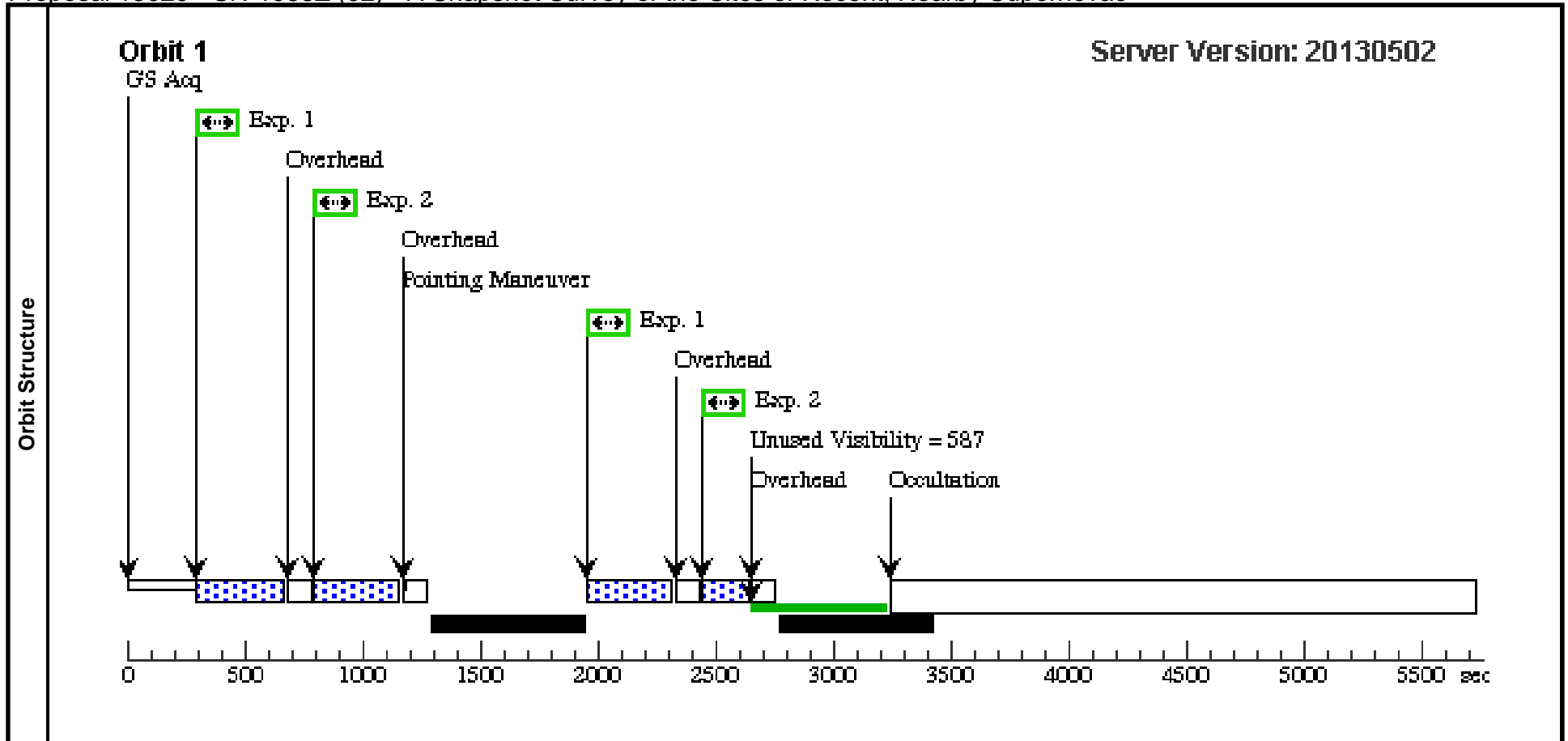
Our total request is 24 snapshots in 24 visits (at about 35 minutes per visit). Each visit will target one SN with the F555W and F814W filters.

The specific list of 24 recent targets of interest is as follows; please consult the IAU CBETs for details: 2012Z, 2011ht, PSNJ12304185+4137498 (a "SN impostor"), 2011ek, 2011dh, NGC 4559-OT1, 2011by, 2011B, 2010jp, 2010io, 2010dn, 2010da, 2010br, 2010al, 2009ls, 2009ip, 2009ib, 2009dd, 2008in, 2007sv, 2006gy, 2006fp, 2005bf, 2001em. This list includes 4 SNe Ia, 4 SNe Ib/c, 10 SNe II/IIn, and 6 SN impostors.

Proposal 13029 - SN-1988Z (02) - A Snapshot Survey of the Sites of Recent, Nearby Supernovae

Thu Jul 25 01:03:20 GMT 2013

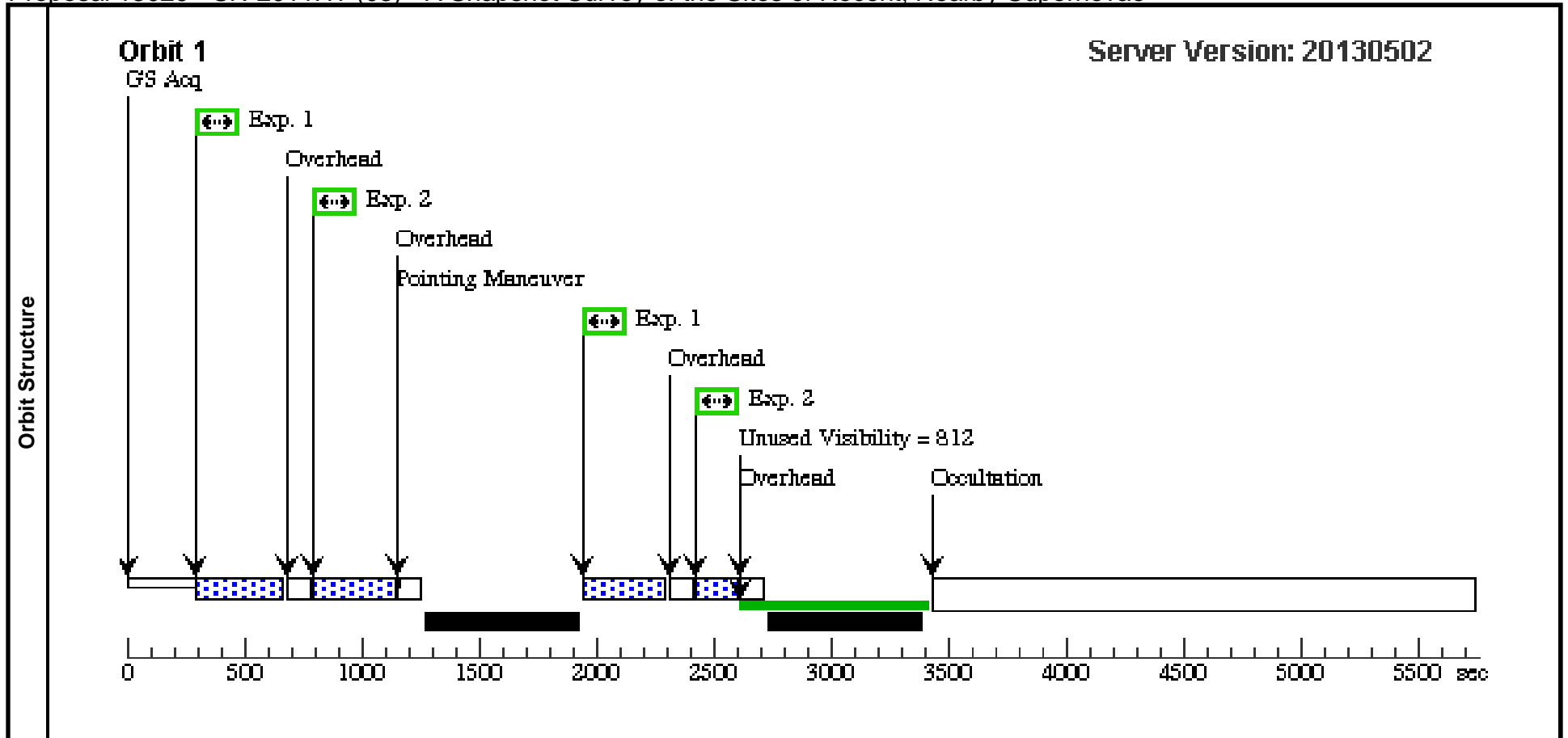
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	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	SN-1988Z	RA: 10 51 50.1000 (162.9587500d) Dec: +16 00 0.50 (16.00014d) Equinox: J2000		V=25+/-1.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(2) SN-1988Z	WFC3/UVIS, ACCUM, UVIS	F814W			Pattern 1, Exps 1-2 i n SN-1988Z (02) (1)	680 Secs (680 Secs)	
									[==>340.0 Secs (Pattern 1)] [==>340.0 Secs (Pattern 2)]	[1]
2	F625W	(2) SN-1988Z	WFC3/UVIS, ACCUM, UVIS	F625W				Pattern 1, Exps 1-2 i n SN-1988Z (02) (1)	510 Secs (510 Secs)	
									[==>340.0 Secs (Pattern 1)] [==>170.0 Secs (Pattern 2)]	[1]



Proposal 13029 - SN-2011HT (03) - A Snapshot Survey of the Sites of Recent, Nearby Supernovae

Thu Jul 25 01:03:22 GMT 2013

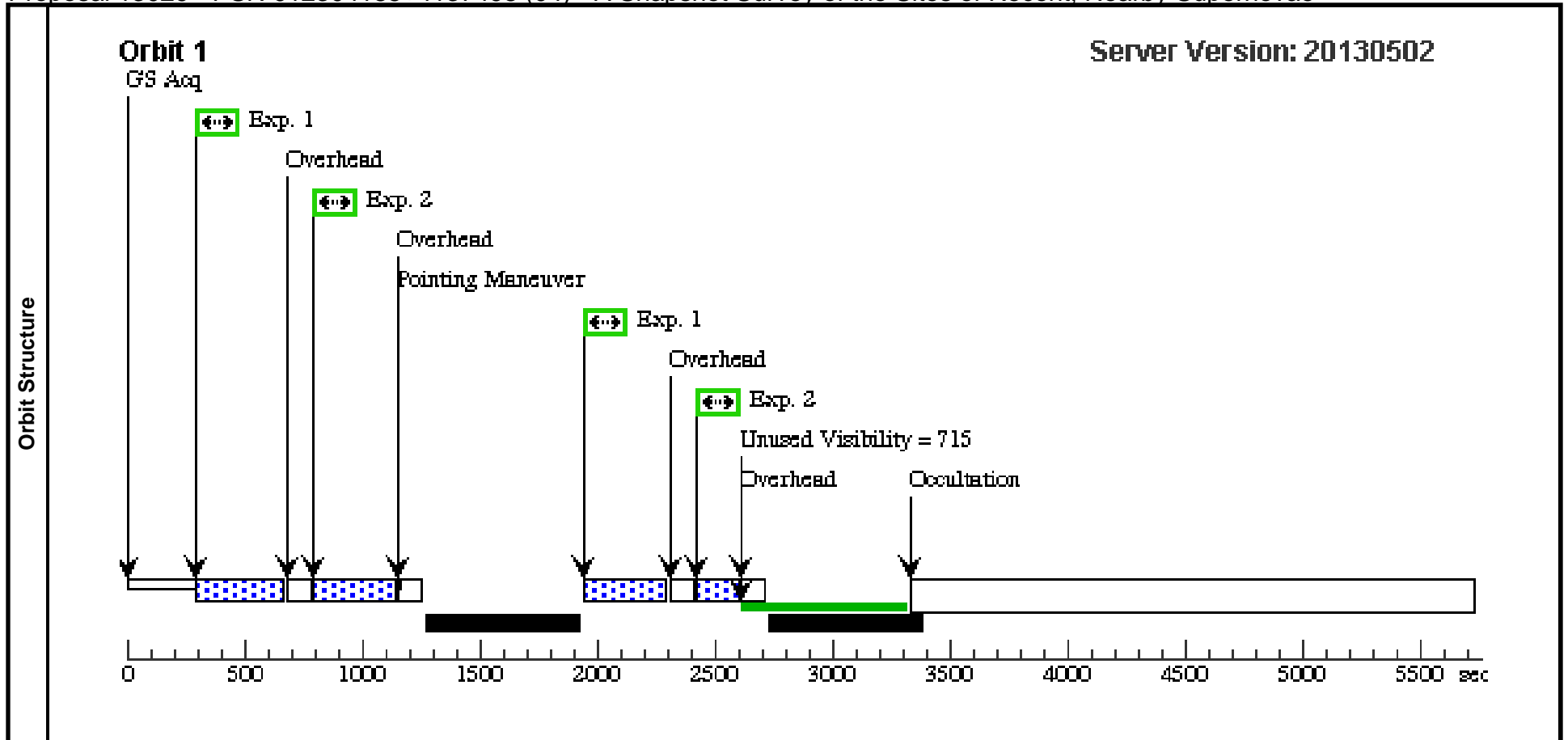
Visit	Proposal 13029, SN-2011HT (03), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	SN-2011HT	RA: 10 08 10.5800 (152.0440833d) Dec: +51 50 57.10 (51.84919d) Equinox: J2000		V=25+/-1.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(3) SN-2011HT	WFC3/UVIS, ACCUM, UVIS	F814W			Pattern 1, Exps 1-2 in SN-2011HT (03) (1)	680 Secs (680 Secs) [==>340.0 Secs (Pattern 1)] [==>340.0 Secs (Pattern 2)]	[1]
	2	F555W	(3) SN-2011HT	WFC3/UVIS, ACCUM, UVIS	F555W			Pattern 1, Exps 1-2 in SN-2011HT (03) (1)	510 Secs (510 Secs) [==>340.0 Secs (Pattern 1)] [==>170.0 Secs (Pattern 2)]	[1]



Proposal 13029 - PSN-J12304185+4137498 (04) - A Snapshot Survey of the Sites of Recent, Nearby Supernovae

Thu Jul 25 01:03:23 GMT 2013

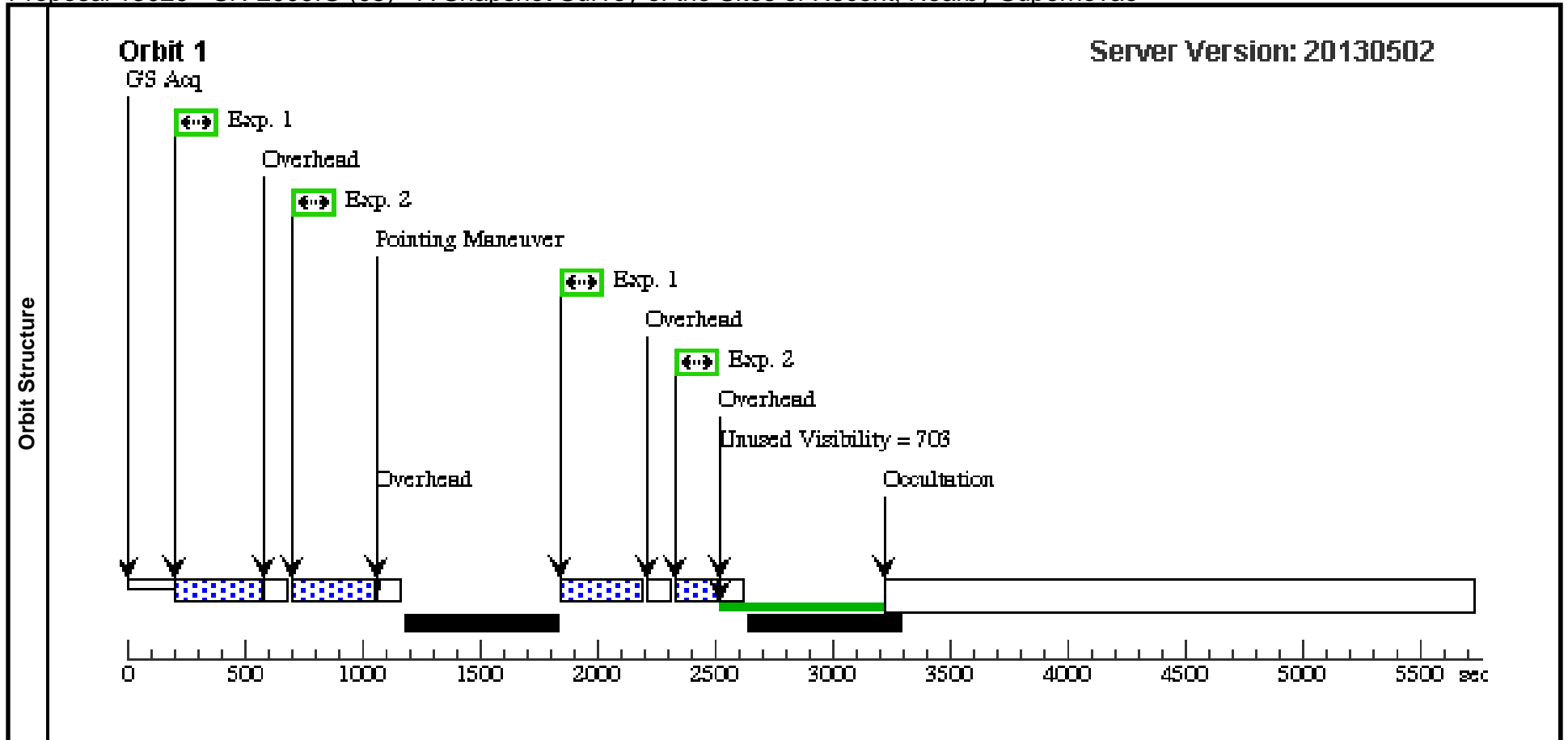
Visit	Proposal 13029, PSN-J12304185+4137498 (04), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	PSN-J12304185+4137498	RA: 12 30 41.8500 (187.6743750d) Dec: +41 37 49.80 (41.63050d) Equinox: J2000		V=25+/-1.0	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.This object was generated by the targetselector and retrieved from the SIMBAD database.									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(4) PSN-J12304185+4137498	WFC3/UVIS, ACCUM, UVIS	F814W			Pattern 1, Exps 1-2 in PSN-J12304185+4137498 (04) (1)	680 Secs (680 Secs) [==>340.0 Secs (Pattern 1)] [==>340.0 Secs (Pattern 2)]	[1]
	2	F555W	(4) PSN-J12304185+4137498	WFC3/UVIS, ACCUM, UVIS	F555W			Pattern 1, Exps 1-2 in PSN-J12304185+4137498 (04) (1)	510 Secs (510 Secs) [==>340.0 Secs (Pattern 1)] [==>170.0 Secs (Pattern 2)]	[1]



Proposal 13029 - SN-2009IG (05) - A Snapshot Survey of the Sites of Recent, Nearby Supernovae

Thu Jul 25 01:03:24 GMT 2013

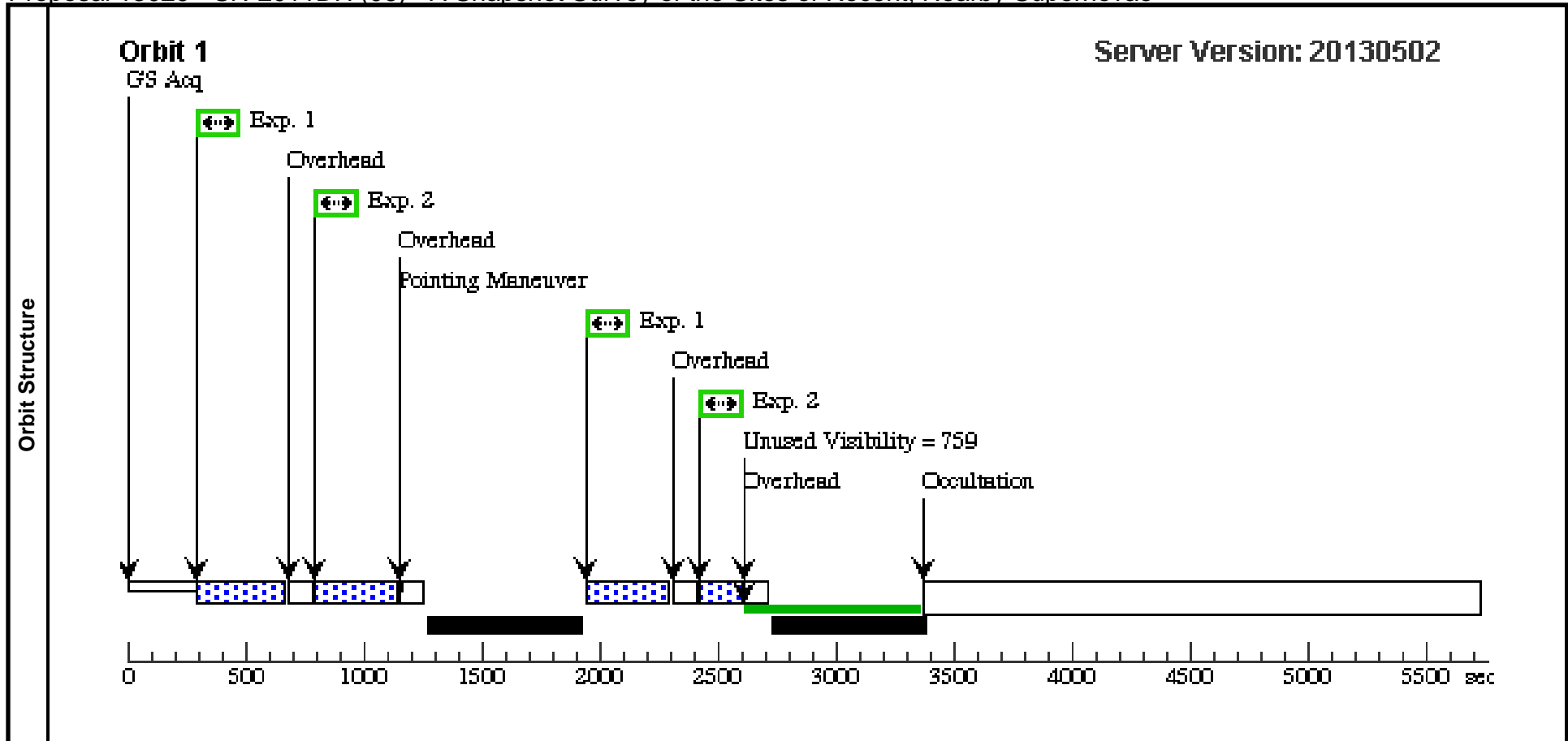
Visit	Proposal 13029, SN-2009IG (05), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	SN-2009IG	RA: 02 38 11.6100 (39.5483750d) Dec: -01 18 45.10 (-1.31253d) Equinox: J2000		V=25+/-1.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(5) SN-2009IG	WFC3/UVIS, ACCUM, UVIS	F814W		GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-2 i n SN-2009IG (05) (1)	680 Secs (680 Secs) [==>340.0 Secs (Pattern 1)] [==>340.0 Secs (Pattern 2)]	[1]
	2	F555W	(5) SN-2009IG	WFC3/UVIS, ACCUM, UVIS	F555W			Pattern 1, Exps 1-2 i n SN-2009IG (05) (1)	510 Secs (510 Secs) [==>340.0 Secs (Pattern 1)] [==>170.0 Secs (Pattern 2)]	[1]



Proposal 13029 - SN-2011DH (06) - A Snapshot Survey of the Sites of Recent, Nearby Supernovae

Thu Jul 25 01:03:25 GMT 2013

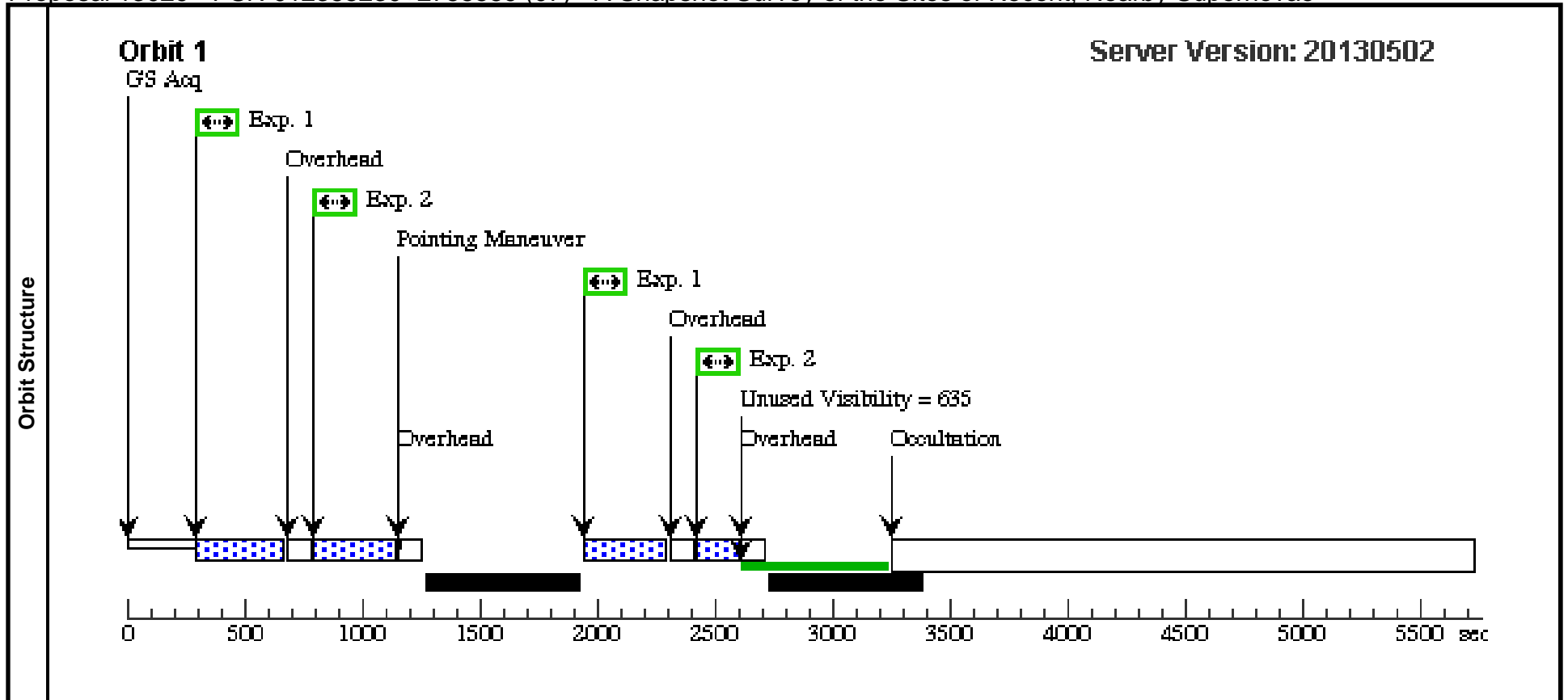
Visit	Proposal 13029, SN-2011DH (06), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	SN-2011DH	RA: 13 30 5.1200 (202.5213333d) Dec: +47 10 11.55 (47.16988d) Equinox: J2000		V=25+/-1.0	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.This object was generated by the targetselector and retrieved from the SIMBAD database.									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(6) SN-2011DH	WFC3/UVIS, ACCUM, UVIS	F814W			Pattern 1, Exps 1-2 in SN-2011DH (06) (1)	680 Secs (680 Secs) [==>340.0 Secs (Pattern 1)] [==>340.0 Secs (Pattern 2)]	[1]
	2	F555W	(6) SN-2011DH	WFC3/UVIS, ACCUM, UVIS	F555W			Pattern 1, Exps 1-2 in SN-2011DH (06) (1)	510 Secs (510 Secs) [==>340.0 Secs (Pattern 1)] [==>170.0 Secs (Pattern 2)]	[1]



Proposal 13029 - PSN-J12355230+2755559 (07) - A Snapshot Survey of the Sites of Recent, Nearby Supernovae

Thu Jul 25 01:03:26 GMT 2013

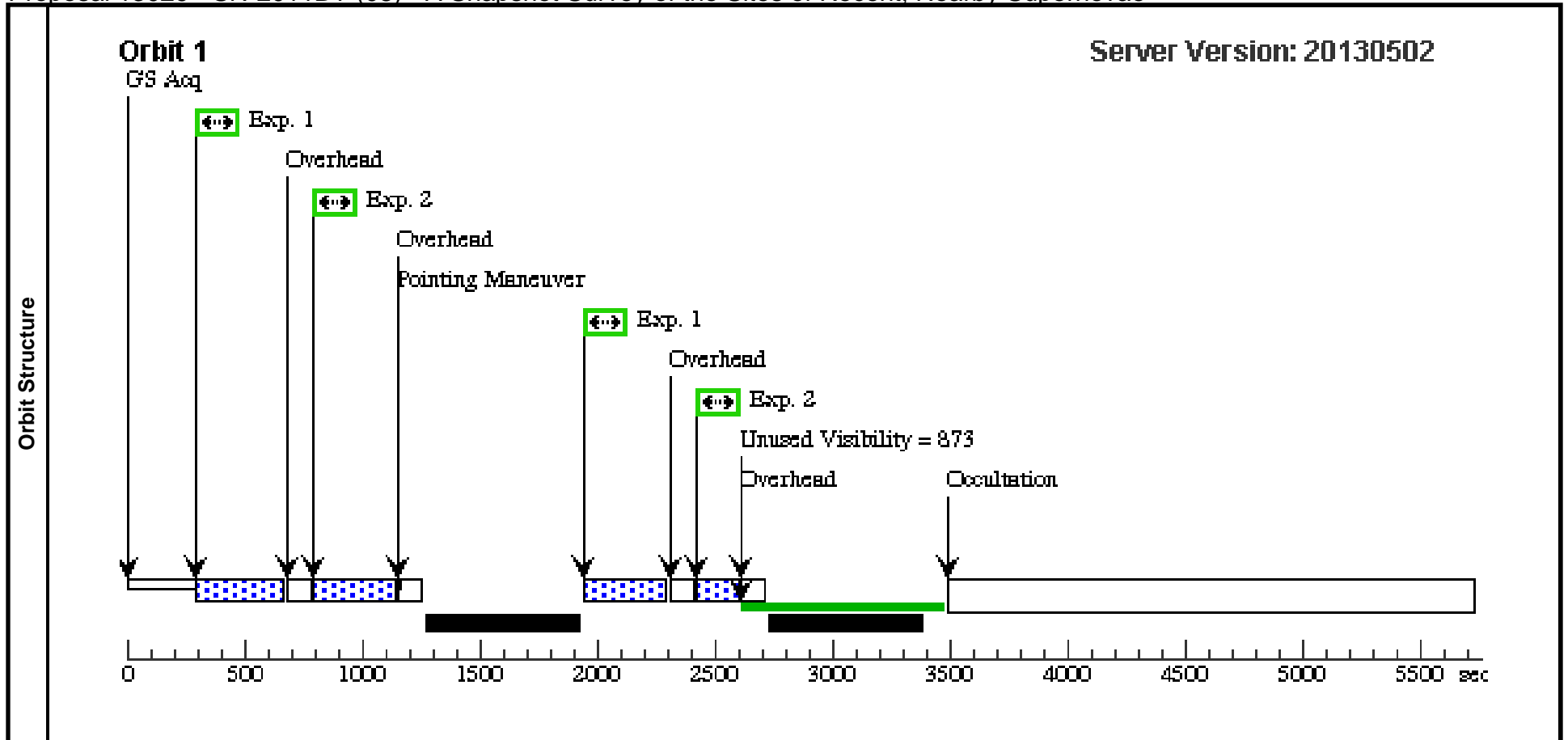
Visit	Proposal 13029, PSN-J12355230+2755559 (07), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)										
	Patterns	#	Primary Pattern				Secondary Pattern				Exposures
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Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(7)	PSN-J12355230+2755559	RA: 12 35 52.3000 (188.9679167d) Dec: +27 55 55.90 (27.93219d) Equinox: J2000				V=25.0+/-1.0		Reference Frame: ICRS		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	F814W	(7) PSN-J12355230+2755559	WFC3/UVIS, ACCUM, UVIS	F814W			Pattern 1, Exps 1-2 in PSN-J12355230+2755559 (07) (1)	680 Secs (680 Secs)		
									[=>340.0 Secs (Pattern 1)]		[1]
									[=>340.0 Secs (Pattern 2)]		
2	F555W	(7) PSN-J12355230+2755559	WFC3/UVIS, ACCUM, UVIS	F555W				Pattern 1, Exps 1-2 in PSN-J12355230+2755559 (07) (1)	510 Secs (510 Secs)		
									[=>340.0 Secs (Pattern 1)]		[1]
									[=>170.0 Secs (Pattern 2)]		



Proposal 13029 - SN-2011BY (08) - A Snapshot Survey of the Sites of Recent, Nearby Supernovae

Thu Jul 25 01:03:26 GMT 2013

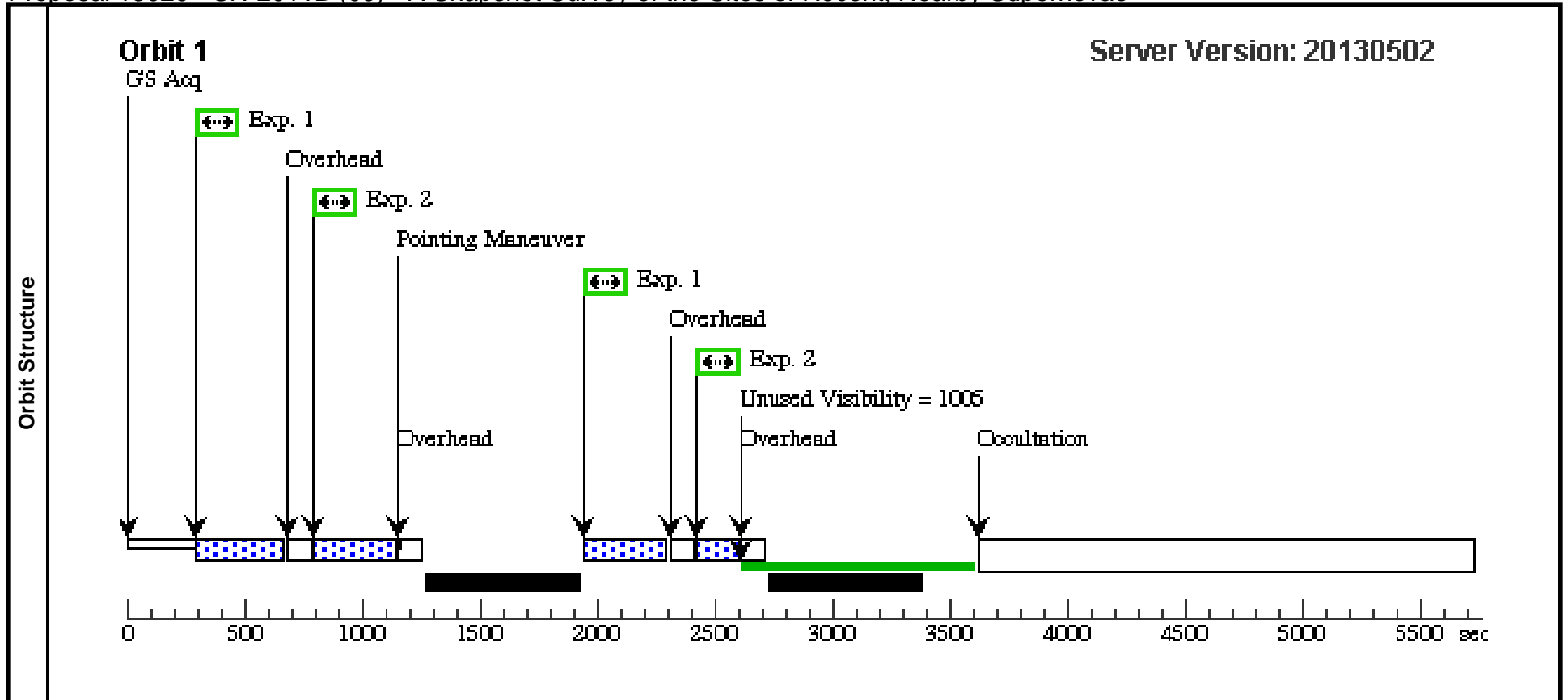
Visit	Proposal 13029, SN-2011BY (08), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	SN-2011BY	RA: 11 55 45.5600 (178.9398333d) Dec: +55 19 33.80 (55.32606d) Equinox: J2000		V=25+/-1.0	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.This object was generated by the targetselector and retrieved from the SIMBAD database.									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(8) SN-2011BY	WFC3/UVIS, ACCUM, UVIS	F814W			Pattern 1, Exps 1-2 in SN-2011BY (08) (1)	680 Secs (680 Secs) [==>340.0 Secs (Pattern 1)] [==>340.0 Secs (Pattern 2)]	[1]
	2	F555W	(8) SN-2011BY	WFC3/UVIS, ACCUM, UVIS	F555W			Pattern 1, Exps 1-2 in SN-2011BY (08) (1)	510 Secs (510 Secs) [==>340.0 Secs (Pattern 1)] [==>170.0 Secs (Pattern 2)]	[1]



Proposal 13029 - SN-2011B (09) - A Snapshot Survey of the Sites of Recent, Nearby Supernovae

Thu Jul 25 01:03:27 GMT 2013

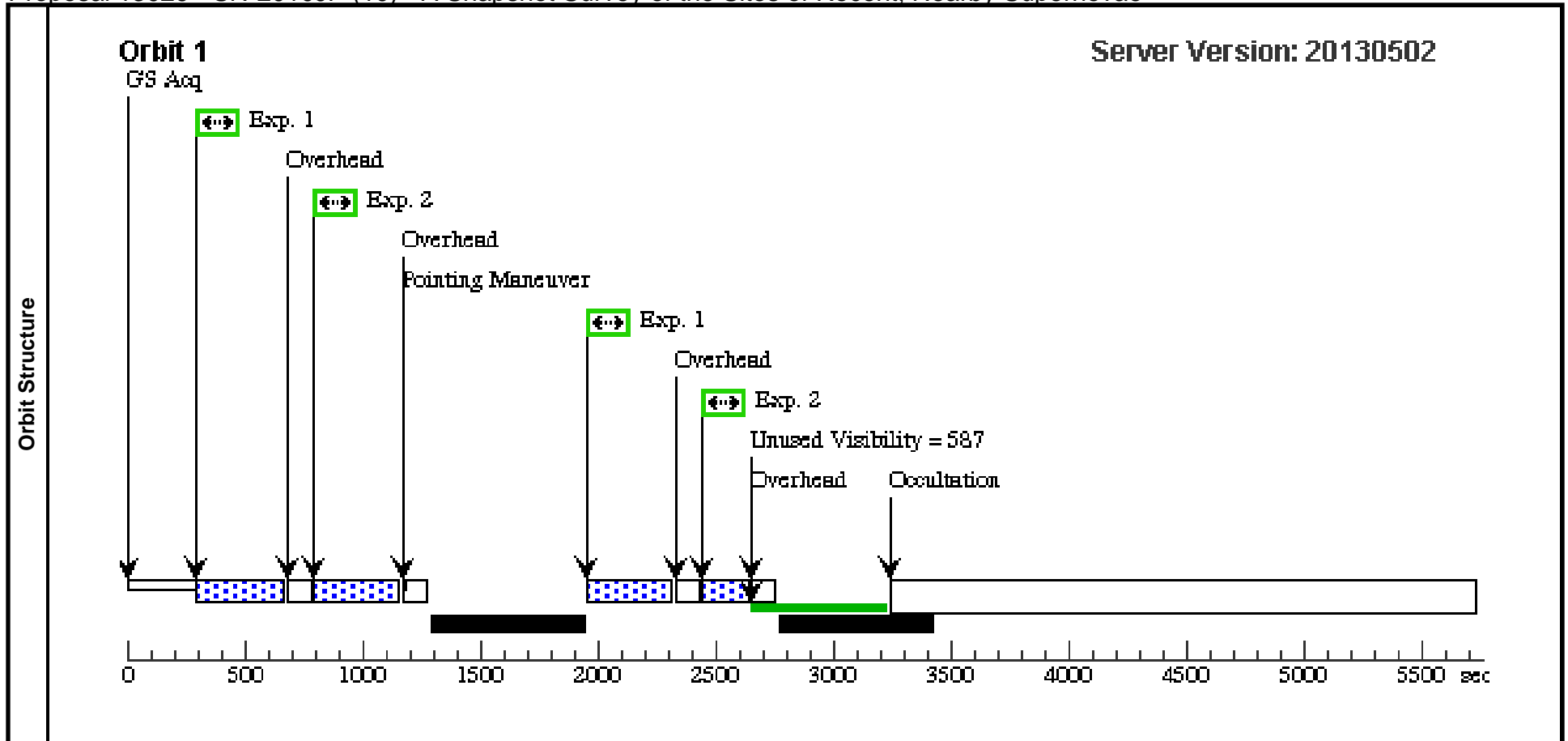
Visit	Proposal 13029, SN-2011B (09), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	SN-2011B	RA: 08 55 48.5000 (133.9520833d) Dec: +78 13 2.70 (78.21742d) Equinox: J2000		V=25+/-1.0	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.This object was generated by the targetselector and retrieved from the SIMBAD database.									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(9) SN-2011B	WFC3/UVIS, ACCUM, UVIS	F814W			Pattern 1, Exps 1-2 i n SN-2011B (09) (1)	680 Secs (680 Secs)	
									[==>340.0 Secs (Pattern 1)] [==>340.0 Secs (Pattern 2)]	[1]
2	F555W	(9) SN-2011B	WFC3/UVIS, ACCUM, UVIS	F555W				Pattern 1, Exps 1-2 i n SN-2011B (09) (1)	510 Secs (510 Secs)	
									[==>340.0 Secs (Pattern 1)] [==>170.0 Secs (Pattern 2)]	[1]



Proposal 13029 - SN-2010JP (10) - A Snapshot Survey of the Sites of Recent, Nearby Supernovae

Thu Jul 25 01:03:28 GMT 2013

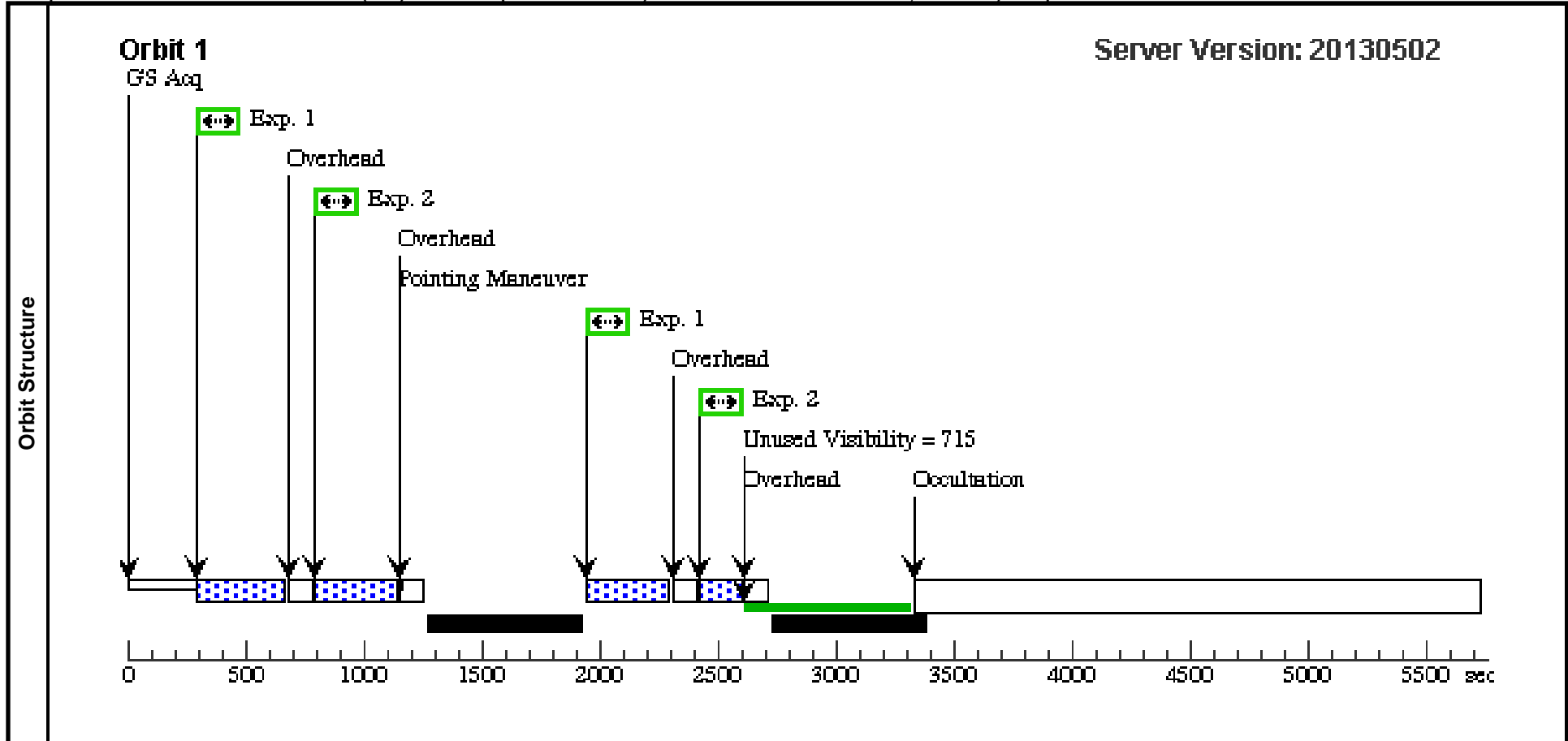
Visit	Proposal 13029, SN-2010JP (10), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	SN-2010JP	RA: 06 16 30.6300 (94.1276250d) Dec: -21 24 36.30 (-21.41008d) Equinox: J2000		V=25+/-1.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(10) SN-2010JP	WFC3/UVIS, ACCUM, UVIS	F814W			Pattern 1, Exps 1-2 in SN-2010JP (10) (1)	680 Secs (680 Secs)	
									[==>340.0 Secs (Pattern 1)] [==>340.0 Secs (Pattern 2)]	[1]
2	F625W	(10) SN-2010JP	WFC3/UVIS, ACCUM, UVIS	F625W				Pattern 1, Exps 1-2 in SN-2010JP (10) (1)	510 Secs (510 Secs)	
									[==>340.0 Secs (Pattern 1)] [==>170.0 Secs (Pattern 2)]	[1]



Proposal 13029 - SN-2010DN (11) - A Snapshot Survey of the Sites of Recent, Nearby Supernovae

Thu Jul 25 01:03:28 GMT 2013

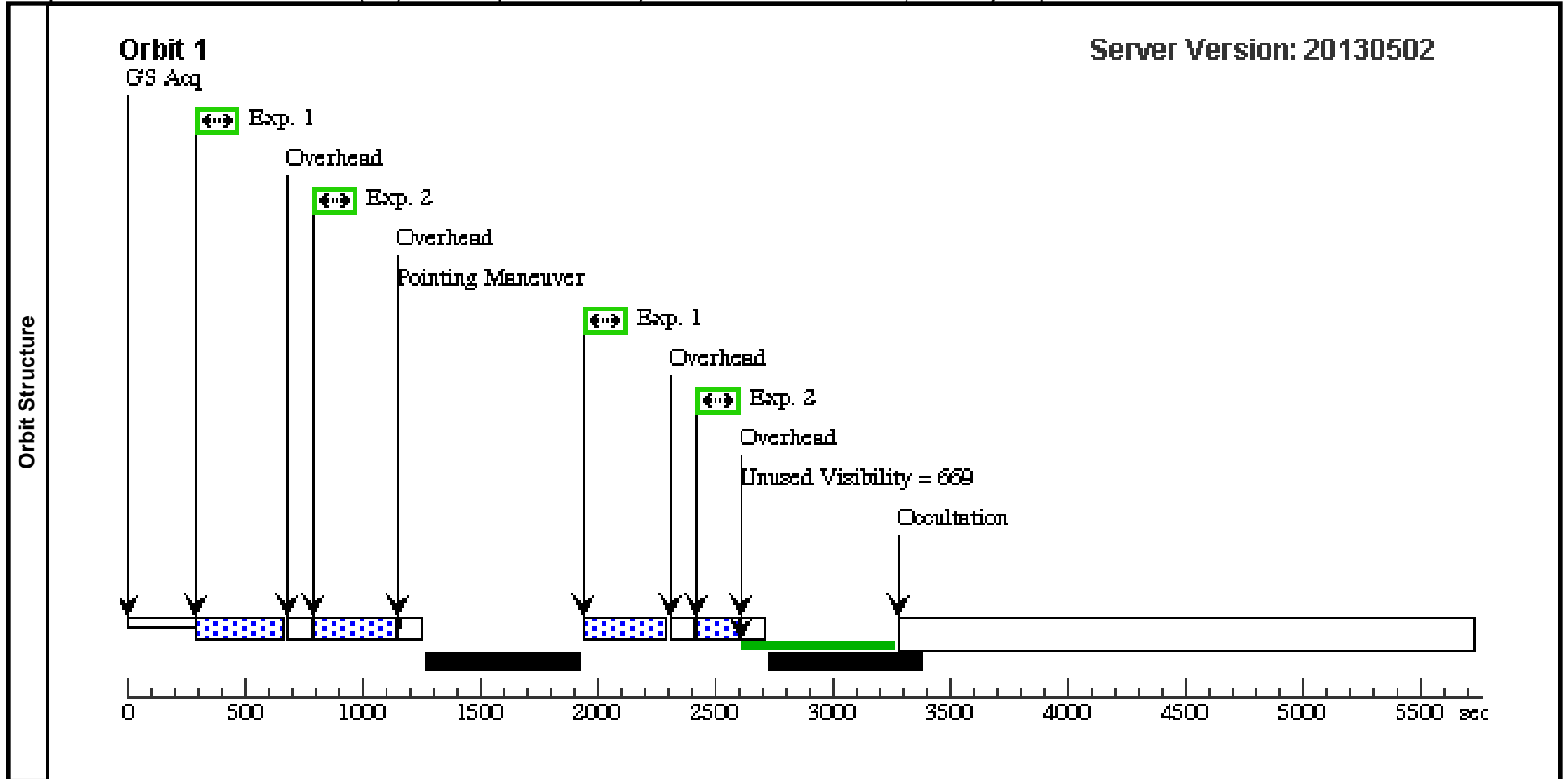
Visit	Proposal 13029, SN-2010DN (11), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(11)	SN-2010DN	RA: 10 18 19.8900 (154.5828750d) Dec: +41 26 28.80 (41.44133d) Equinox: J2000		V=25+/-1.0	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.This object was generated by the targetselector and retrieved from the SIMBAD database.									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(11) SN-2010DN	WFC3/UVIS, ACCUM, UVIS	F814W			Pattern 1, Exps 1-2 in SN-2010DN (11) (1)	680 Secs (680 Secs) [==>340.0 Secs (Pattern 1)] [==>340.0 Secs (Pattern 2)]	[1]
	2	F555W	(11) SN-2010DN	WFC3/UVIS, ACCUM, UVIS	F555W			Pattern 1, Exps 1-2 in SN-2010DN (11) (1)	510 Secs (510 Secs) [==>340.0 Secs (Pattern 1)] [==>170.0 Secs (Pattern 2)]	[1]



Proposal 13029 - SN-2010DA (12) - A Snapshot Survey of the Sites of Recent, Nearby Supernovae

Thu Jul 25 01:03:29 GMT 2013

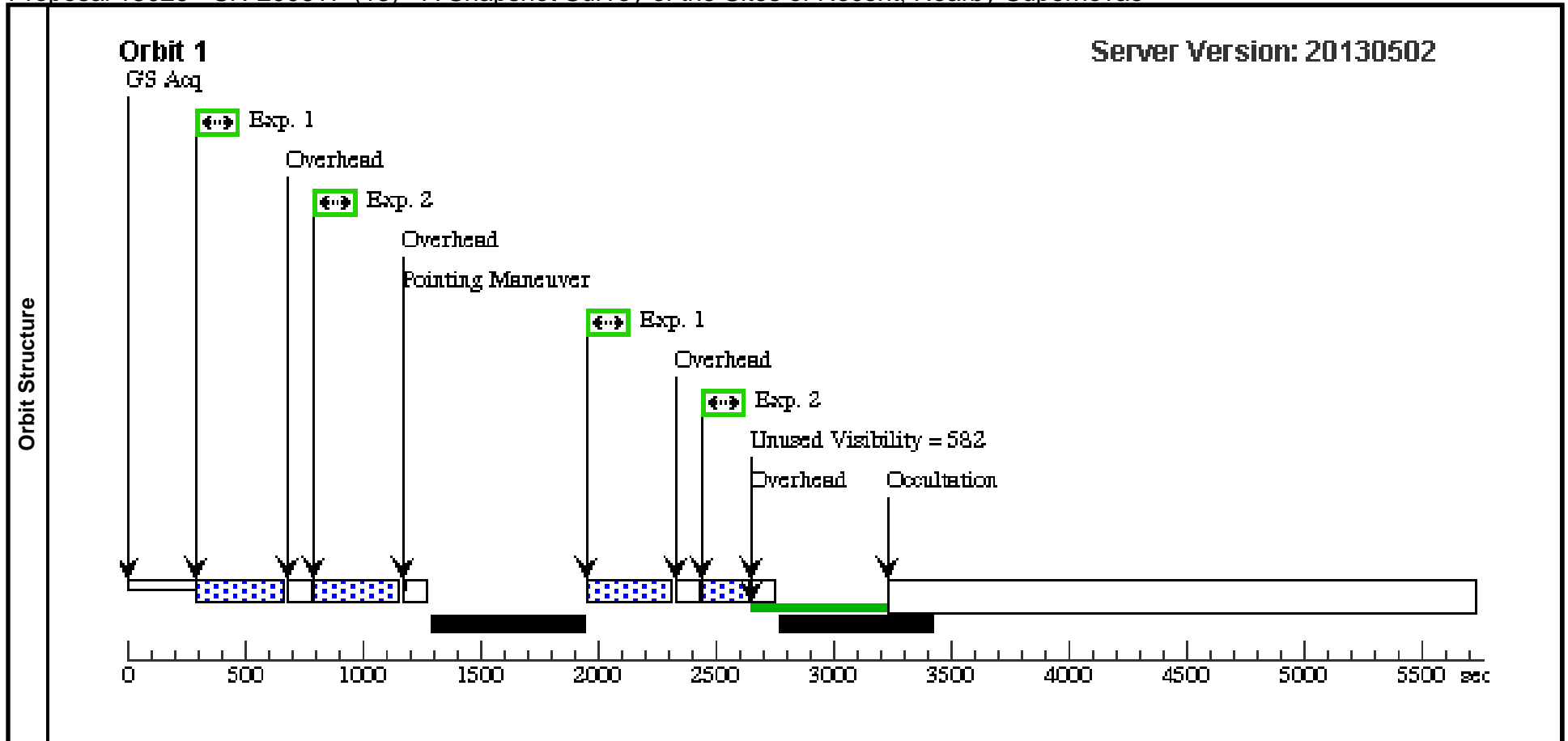
Visit	Proposal 13029, SN-2010DA (12), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	SN-2010DA	RA: 00 55 4.8600 (13.7702500d) Dec: -37 41 43.70 (-37.69547d) Equinox: J2000		V=25+/-1.0	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.This object was generated by the targetselector and retrieved from the SIMBAD database.									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(12) SN-2010DA	WFC3/UVIS, ACCUM, UVIS	F814W			Pattern 1, Exps 1-2 in SN-2010DA (12) (1)	680 Secs (680 Secs) [==>340.0 Secs (Pattern 1)] [==>340.0 Secs (Pattern 2)]	[1]
	2	F555W	(12) SN-2010DA	WFC3/UVIS, ACCUM, UVIS	F555W			Pattern 1, Exps 1-2 in SN-2010DA (12) (1)	510 Secs (510 Secs) [==>340.0 Secs (Pattern 1)] [==>170.0 Secs (Pattern 2)]	[1]



Proposal 13029 - SN-2006TF (13) - A Snapshot Survey of the Sites of Recent, Nearby Supernovae

Thu Jul 25 01:03:30 GMT 2013

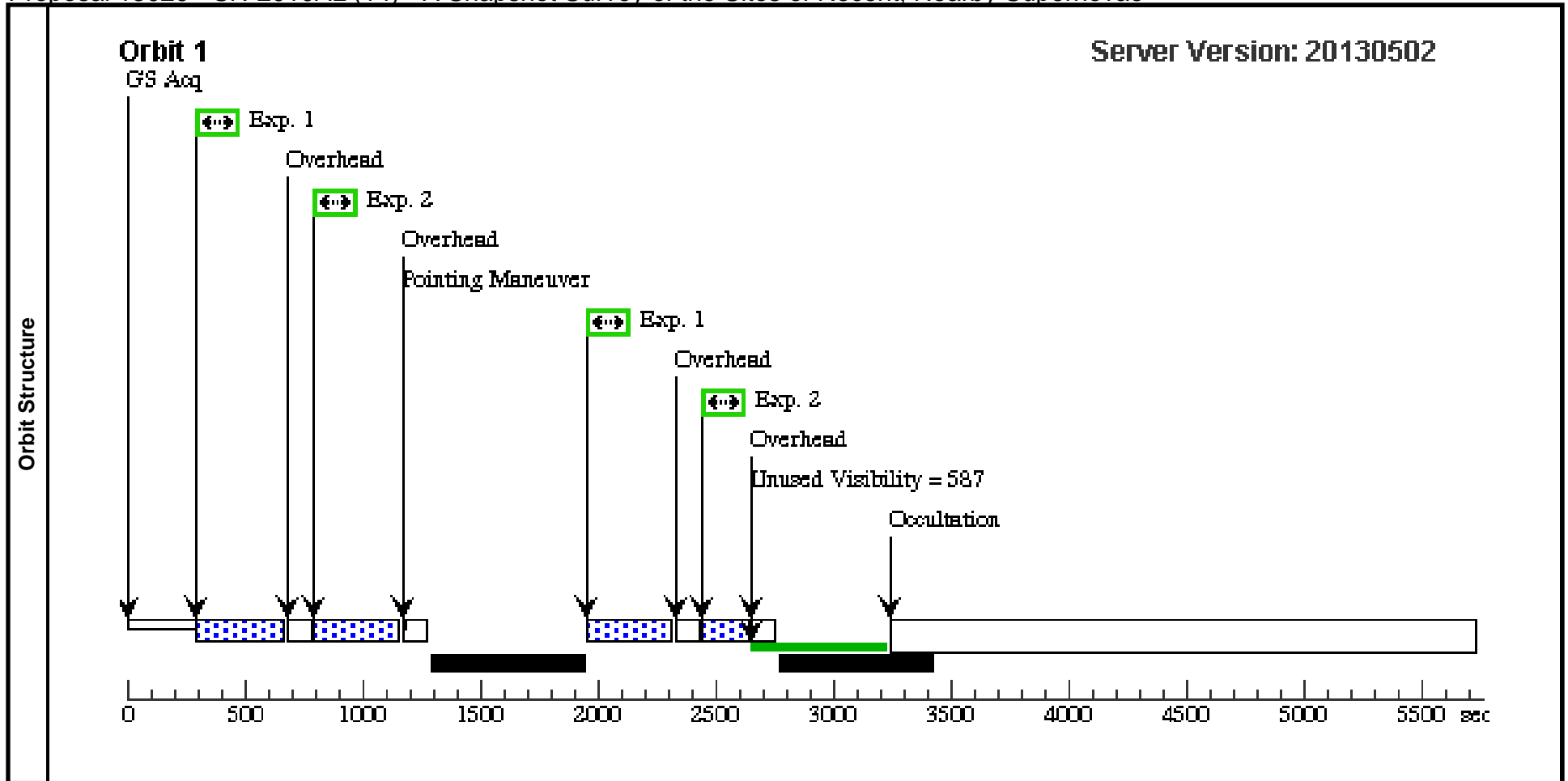
Visit	Proposal 13029, SN-2006TF (13), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	# (1)	Primary Pattern Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Secondary Pattern Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	Exposures (1-2)					
Fixed Targets	# (13)	Name SN-2006TF	Target Coordinates RA: 12 46 15.8200 (191.5659167d) Dec: +11 25 56.30 (11.43231d) Equinox: J2000	Targ. Coord. Corrections	Fluxes V=25+/-1.0	Miscellaneous Reference Frame: ICRS <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.This object was generated by the targetselector and retrieved from the SIMBAD database.</i>				
Exposures	# 1 2	Label F814W F625W	Target (13) SN-2006TF (13) SN-2006TF	Config,Mode,Aperture WFC3/UVIS, ACCUM, UVIS WFC3/UVIS, ACCUM, UVIS	Spectral Els. F814W F625W	Opt. Params.	Special Reqs.	Groups Pattern 1, Exps 1-2 in SN-2006TF (13) (1) Pattern 1, Exps 1-2 in SN-2006TF (13) (1)	Exp. Time (Total)/[Actual Dur.] 680 Secs (680 Secs) [==>340.0 Secs (Pattern 1)] [==>340.0 Secs (Pattern 2)] 510 Secs (510 Secs) [==>340.0 Secs (Pattern 1)] [==>170.0 Secs (Pattern 2)]	Orbit [1] [1]



Proposal 13029 - SN-2010AL (14) - A Snapshot Survey of the Sites of Recent, Nearby Supernovae

Thu Jul 25 01:03:30 GMT 2013

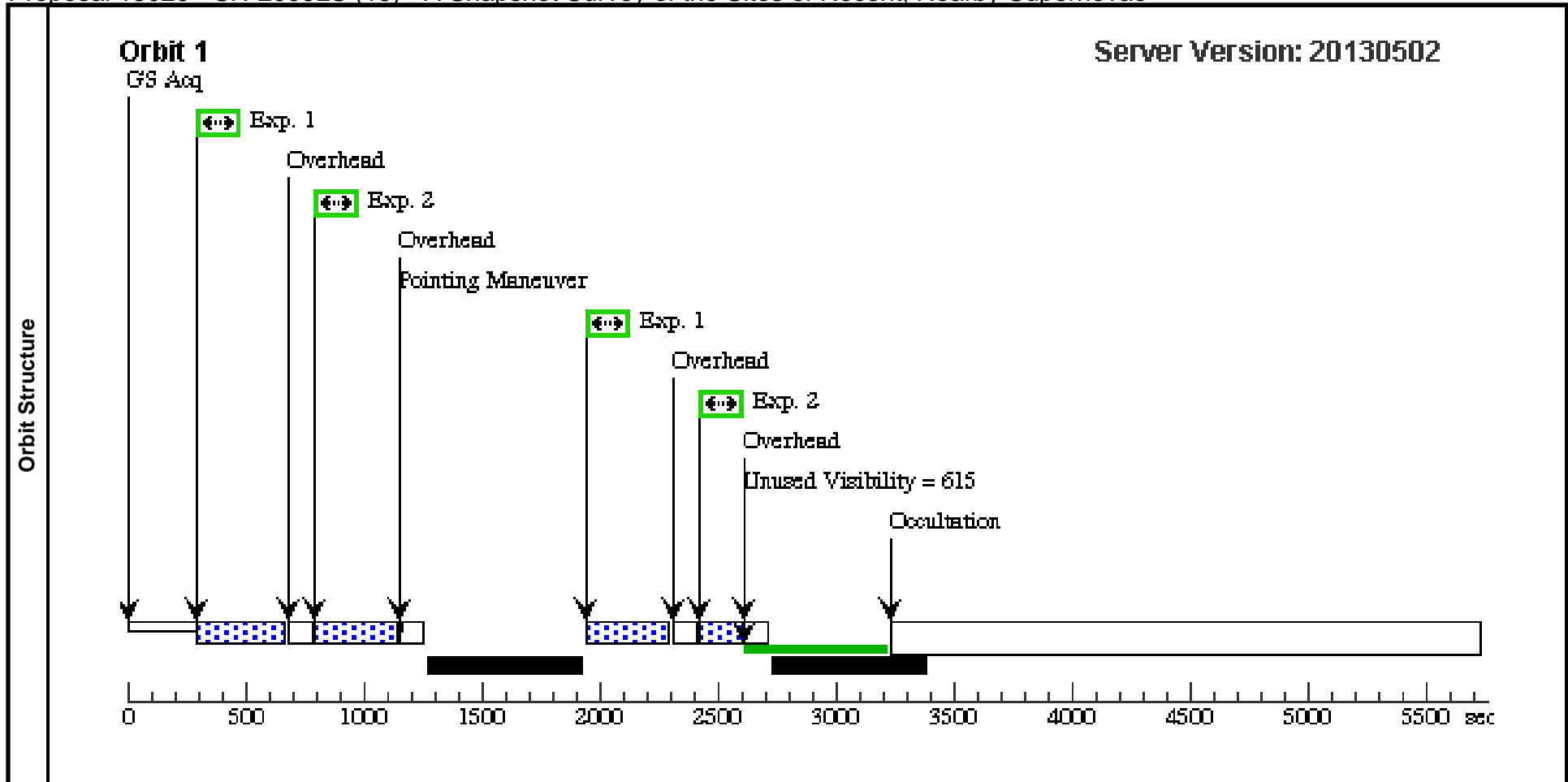
Visit	Proposal 13029, SN-2010AL (14), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	# (1)	Primary Pattern Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	Secondary Pattern	Exposures (1-2)				
Fixed Targets	# (14)	Name SN-2010AL	Target Coordinates RA: 08 14 15.9100 (123.5662917d) Dec: +18 26 18.20 (18.43839d) Equinox: J2000	Targ. Coord. Corrections	Fluxes V=25+/-1.0	Miscellaneous Reference Frame: ICRS <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.This object was generated by the targetselector and retrieved from the SIMBAD database.</i>				
Exposures	# 1 2	Label F814W F625W	Target (14) SN-2010AL (14) SN-2010AL	Config,Mode,Aperture WFC3/UVIS, ACCUM, UVIS WFC3/UVIS, ACCUM, UVIS	Spectral Els. F814W F625W	Opt. Params.	Special Reqs.	Groups Pattern 1, Exps 1-2 in SN-2010AL (14) (1) Pattern 1, Exps 1-2 in SN-2010AL (14) (1)	Exp. Time (Total)/[Actual Dur.] 680 Secs (680 Secs) [==>340.0 Secs (Pattern 1)] [==>340.0 Secs (Pattern 2)] 510 Secs (510 Secs) [==>340.0 Secs (Pattern 1)] [==>170.0 Secs (Pattern 2)]	Orbit [1] [1]



Proposal 13029 - SN-2009LS (15) - A Snapshot Survey of the Sites of Recent, Nearby Supernovae

Thu Jul 25 01:03:31 GMT 2013

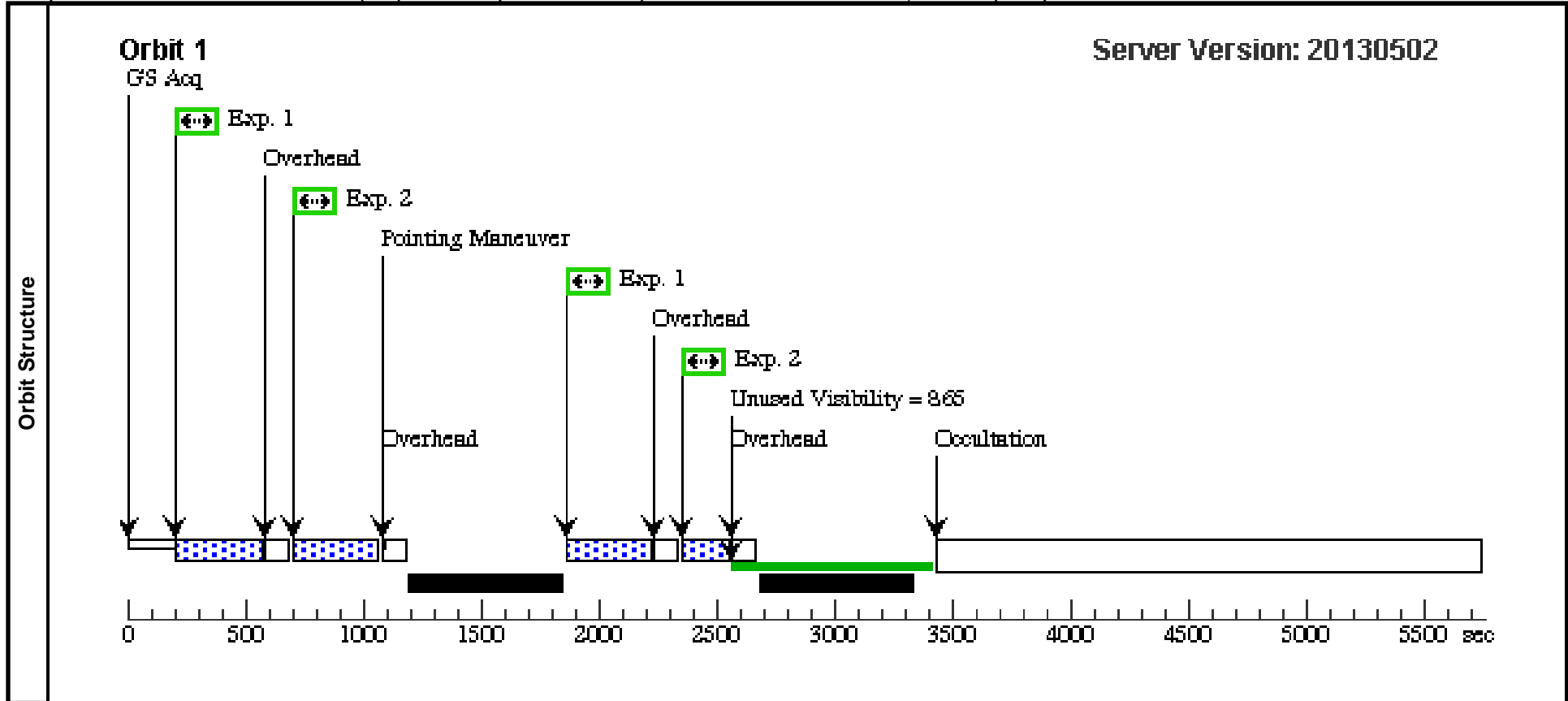
Visit	Proposal 13029, SN-2009LS (15), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(15)	SN-2009LS	RA: 10 51 14.5800 (162.8107500d) Dec: +05 50 58.80 (5.84967d) Equinox: J2000		V=25+/-1.0	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.This object was generated by the targetselector and retrieved from the SIMBAD database.									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(15) SN-2009LS	WFC3/UVIS, ACCUM, UVIS	F814W			Pattern 1, Exps 1-2 in SN-2009LS (15) (1)	680 Secs (680 Secs)	
									[==>340.0 Secs (Pattern 1)]	[1]
2	F555W	(15) SN-2009LS	WFC3/UVIS, ACCUM, UVIS	F555W			Pattern 1, Exps 1-2 in SN-2009LS (15) (1)	510 Secs (510 Secs)		
								[==>340.0 Secs (Pattern 1)]	[1]	
								[==>170.0 Secs (Pattern 2)]		



Proposal 13029 - SN-2007RT (16) - A Snapshot Survey of the Sites of Recent, Nearby Supernovae

Thu Jul 25 01:03:32 GMT 2013

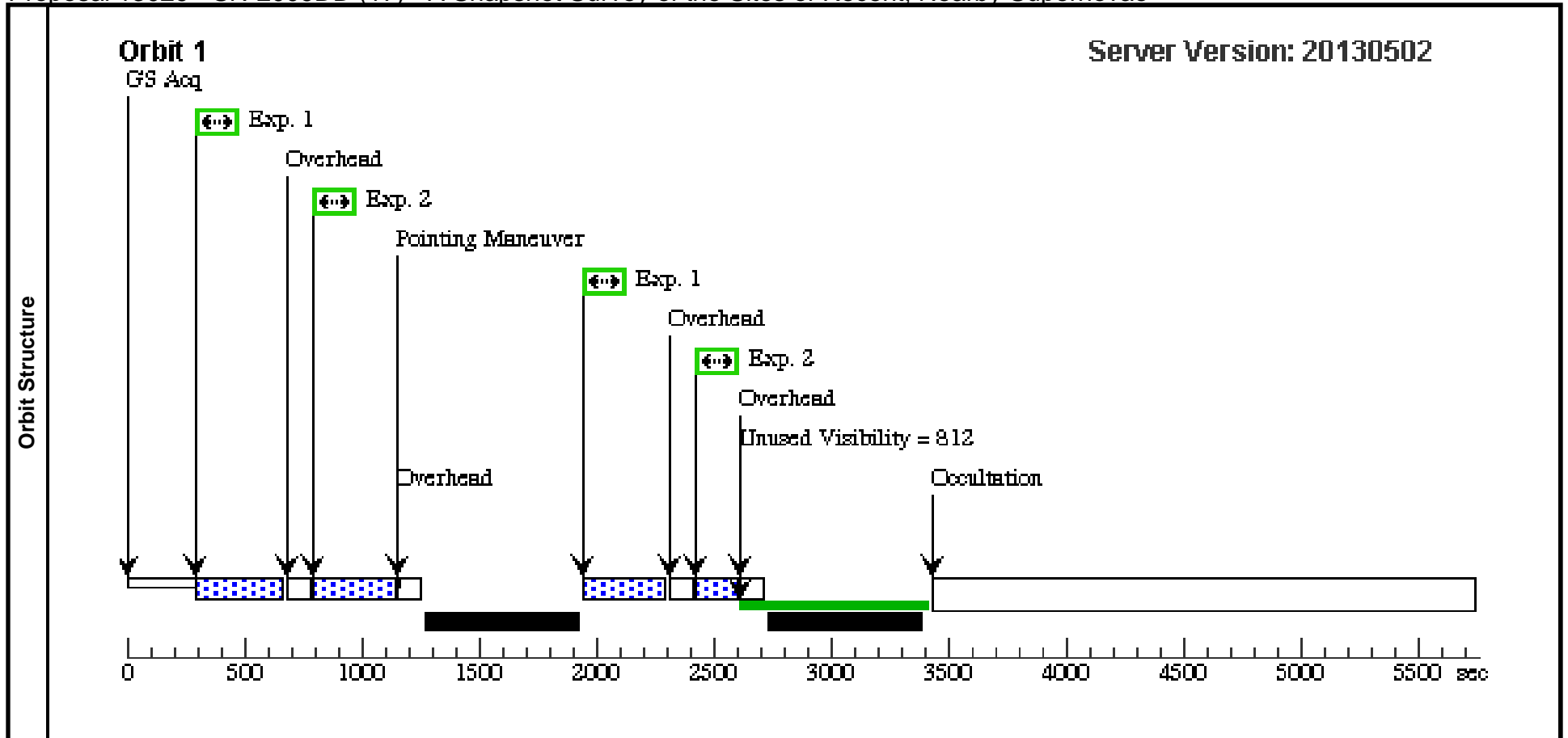
Visit	Proposal 13029, SN-2007RT (16), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(16)	SN-2007RT	RA: 11 02 34.2900 (165.6428750d) Dec: +50 34 58.50 (50.58292d) Equinox: J2000		V=25+/-1.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(16) SN-2007RT	WFC3/UVIS, ACCUM, UVIS	F814W		GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-2 i n SN-2007RT (16) (1)	680 Secs (680 Secs) [==>340.0 Secs (Pattern 1)] [==>340.0 Secs (Pattern 2)]	[1]
	2	F625W	(16) SN-2007RT	WFC3/UVIS, ACCUM, UVIS	F625W			Pattern 1, Exps 1-2 i n SN-2007RT (16) (1)	510 Secs (510 Secs) [==>340.0 Secs (Pattern 1)] [==>170.0 Secs (Pattern 2)]	[1]



Proposal 13029 - SN-2009DD (17) - A Snapshot Survey of the Sites of Recent, Nearby Supernovae

Thu Jul 25 01:03:32 GMT 2013

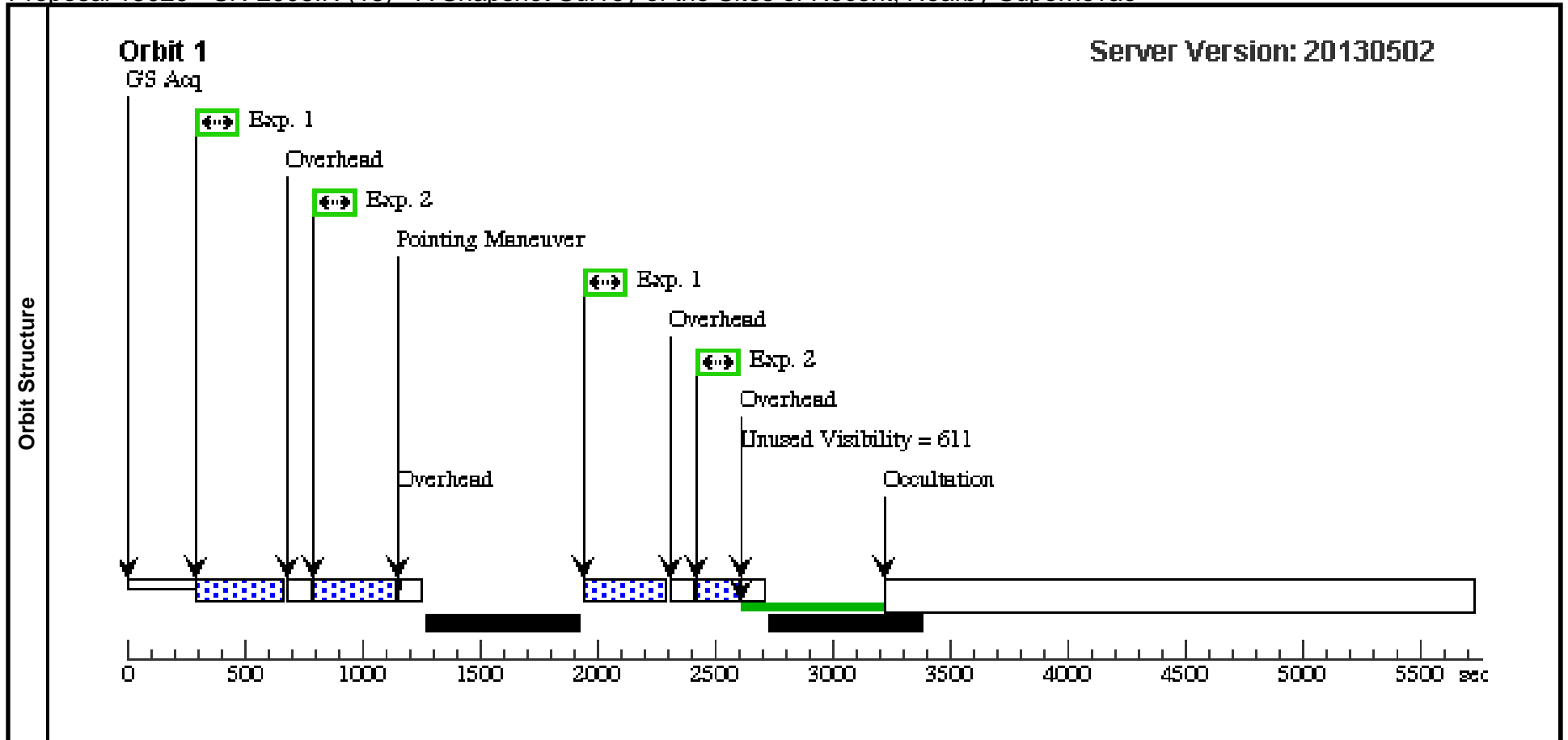
Visit	Proposal 13029, SN-2009DD (17), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(17)	SN-2009DD	RA: 12 05 34.1000 (181.3920833d) Dec: +50 32 18.60 (50.53850d) Equinox: J2000		V=25+/-1.0	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.This object was generated by the targetselector and retrieved from the SIMBAD database.									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(17) SN-2009DD	WFC3/UVIS, ACCUM, UVIS	F814W			Pattern 1, Exps 1-2 in SN-2009DD (17) (1)	680 Secs (680 Secs) [==>340.0 Secs (Pattern 1)] [==>340.0 Secs (Pattern 2)]	[1]
	2	F555W	(17) SN-2009DD	WFC3/UVIS, ACCUM, UVIS	F555W			Pattern 1, Exps 1-2 in SN-2009DD (17) (1)	510 Secs (510 Secs) [==>340.0 Secs (Pattern 1)] [==>170.0 Secs (Pattern 2)]	[1]



Proposal 13029 - SN-2008IN (18) - A Snapshot Survey of the Sites of Recent, Nearby Supernovae

Thu Jul 25 01:03:33 GMT 2013

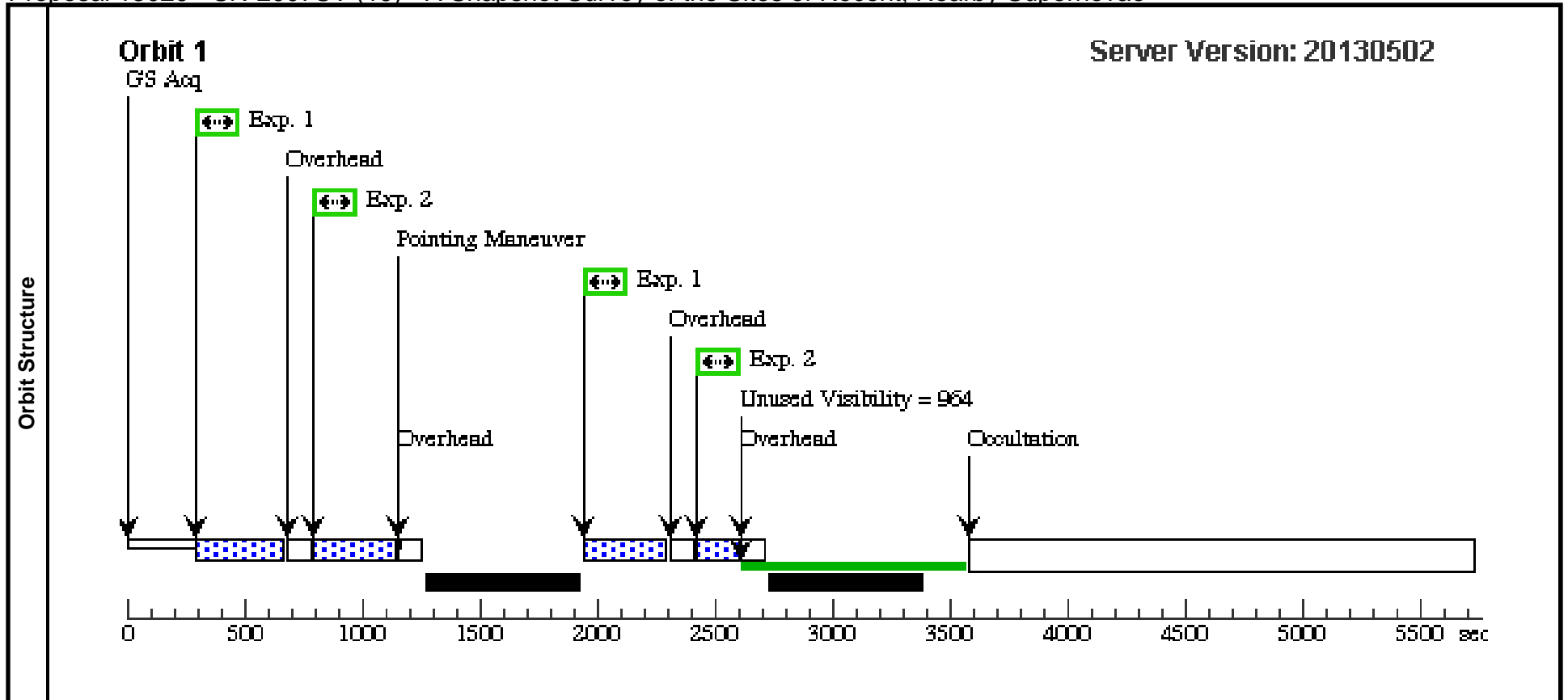
Visit	Proposal 13029, SN-2008IN (18), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(18)	SN-2008IN	RA: 12 22 1.7700 (185.5073750d) Dec: +04 28 47.50 (4.47986d) Equinox: J2000		V=25+/-1.0	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.This object was generated by the targetselector and retrieved from the SIMBAD database.									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(18) SN-2008IN	WFC3/UVIS, ACCUM, UVIS	F814W			Pattern 1, Exps 1-2 in SN-2008IN (18) (1)	680 Secs (680 Secs)	
									[==>340.0 Secs (Pattern 1)] [==>340.0 Secs (Pattern 2)]	[1]
2	F555W	(18) SN-2008IN	WFC3/UVIS, ACCUM, UVIS	F555W				Pattern 1, Exps 1-2 in SN-2008IN (18) (1)	510 Secs (510 Secs)	
									[==>340.0 Secs (Pattern 1)] [==>170.0 Secs (Pattern 2)]	[1]



Proposal 13029 - SN-2007SV (19) - A Snapshot Survey of the Sites of Recent, Nearby Supernovae

Thu Jul 25 01:03:33 GMT 2013

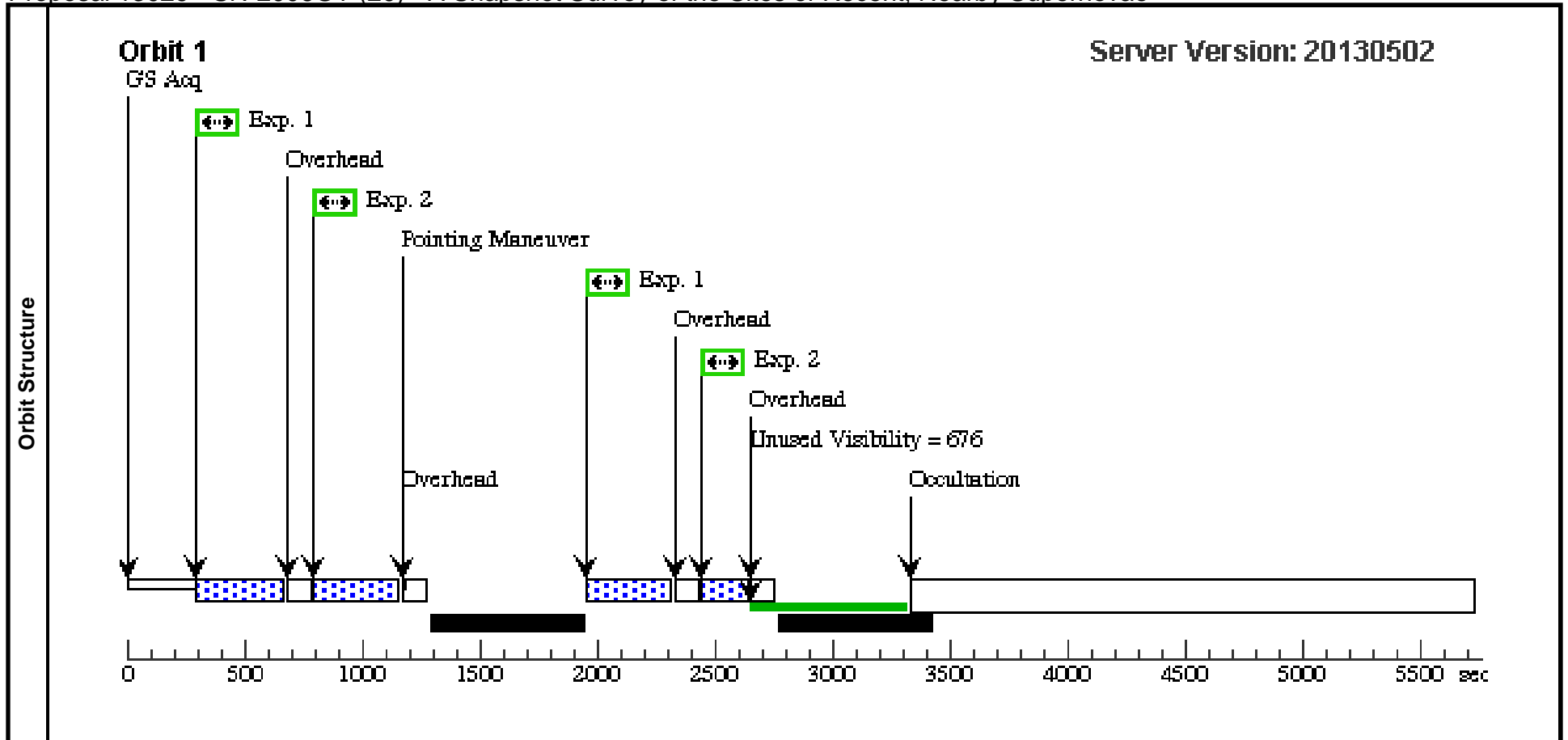
Visit	Proposal 13029, SN-2007SV (19), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(19)	SN-2007SV	RA: 10 52 40.0500 (163.1668750d) Dec: +67 59 14.20 (67.98728d) Equinox: J2000		V=25+/-1.0	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.This object was generated by the targetselector and retrieved from the SIMBAD database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(19) SN-2007SV	WFC3/UVIS, ACCUM, UVIS	F814W			Pattern 1, Exps 1-2 in SN-2007SV (19) (1)	680 Secs (680 Secs)	
									[==>340.0 Secs (Pattern 1)] [==>340.0 Secs (Pattern 2)]	[1]
2	F555W	(19) SN-2007SV	WFC3/UVIS, ACCUM, UVIS	F555W				Pattern 1, Exps 1-2 in SN-2007SV (19) (1)	510 Secs (510 Secs)	
									[==>340.0 Secs (Pattern 1)] [==>170.0 Secs (Pattern 2)]	[1]



Proposal 13029 - SN-2006GY (20) - A Snapshot Survey of the Sites of Recent, Nearby Supernovae

Thu Jul 25 01:03:34 GMT 2013

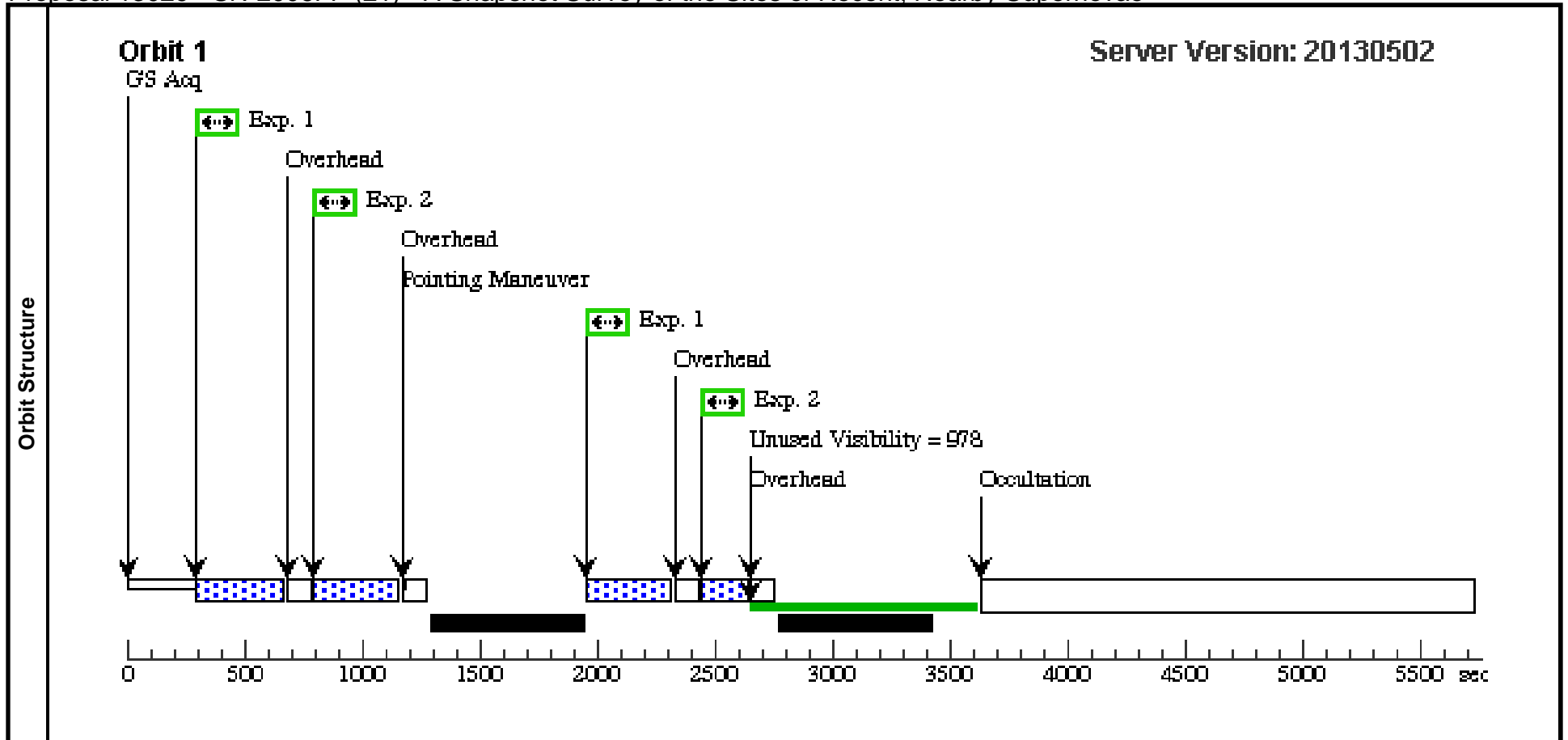
Visit	Proposal 13029, SN-2006GY (20), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(20)	SN-2006GY	RA: 03 17 27.0600 (49.3627500d) Dec: +41 24 19.50 (41.40542d) Equinox: J2000		V=25+/-1.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(20) SN-2006GY	WFC3/UVIS, ACCUM, UVIS	F814W			Pattern 1, Exps 1-2 in SN-2006GY (20) (1)	680 Secs (680 Secs) [=>340.0 Secs (Pattern 1)] [=>340.0 Secs (Pattern 2)]	[1]
	2	F625W	(20) SN-2006GY	WFC3/UVIS, ACCUM, UVIS	F625W			Pattern 1, Exps 1-2 in SN-2006GY (20) (1)	510 Secs (510 Secs) [=>340.0 Secs (Pattern 1)] [=>170.0 Secs (Pattern 2)]	[1]



Proposal 13029 - SN-2006FP (21) - A Snapshot Survey of the Sites of Recent, Nearby Supernovae

Thu Jul 25 01:03:34 GMT 2013

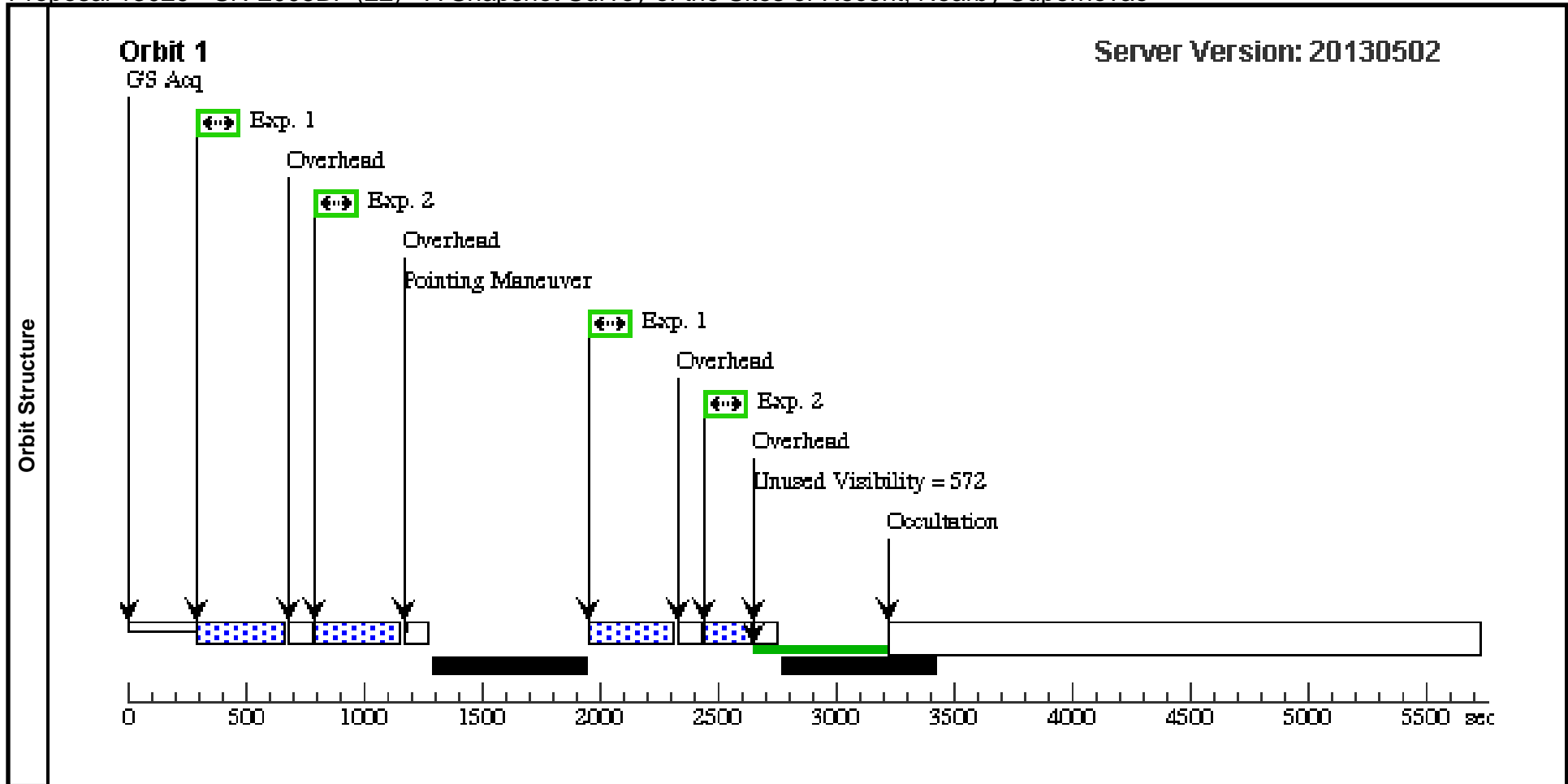
Visit	Proposal 13029, SN-2006FP (21), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(21)	SN-2006FP	RA: 22 45 41.1300 (341.4213750d) Dec: +73 09 47.80 (73.16328d) Equinox: J2000		V=25+/-1.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(21) SN-2006FP	WFC3/UVIS, ACCUM, UVIS	F814W			Pattern 1, Exps 1-2 in SN-2006FP (21) (1)	680 Secs (680 Secs)	
									[==>340.0 Secs (Pattern 1)] [==>340.0 Secs (Pattern 2)]	[1]
2	F625W	(21) SN-2006FP	WFC3/UVIS, ACCUM, UVIS	F625W				Pattern 1, Exps 1-2 in SN-2006FP (21) (1)	510 Secs (510 Secs)	
									[==>340.0 Secs (Pattern 1)] [==>170.0 Secs (Pattern 2)]	[1]



Proposal 13029 - SN-2005BF (22) - A Snapshot Survey of the Sites of Recent, Nearby Supernovae

Thu Jul 25 01:03:35 GMT 2013

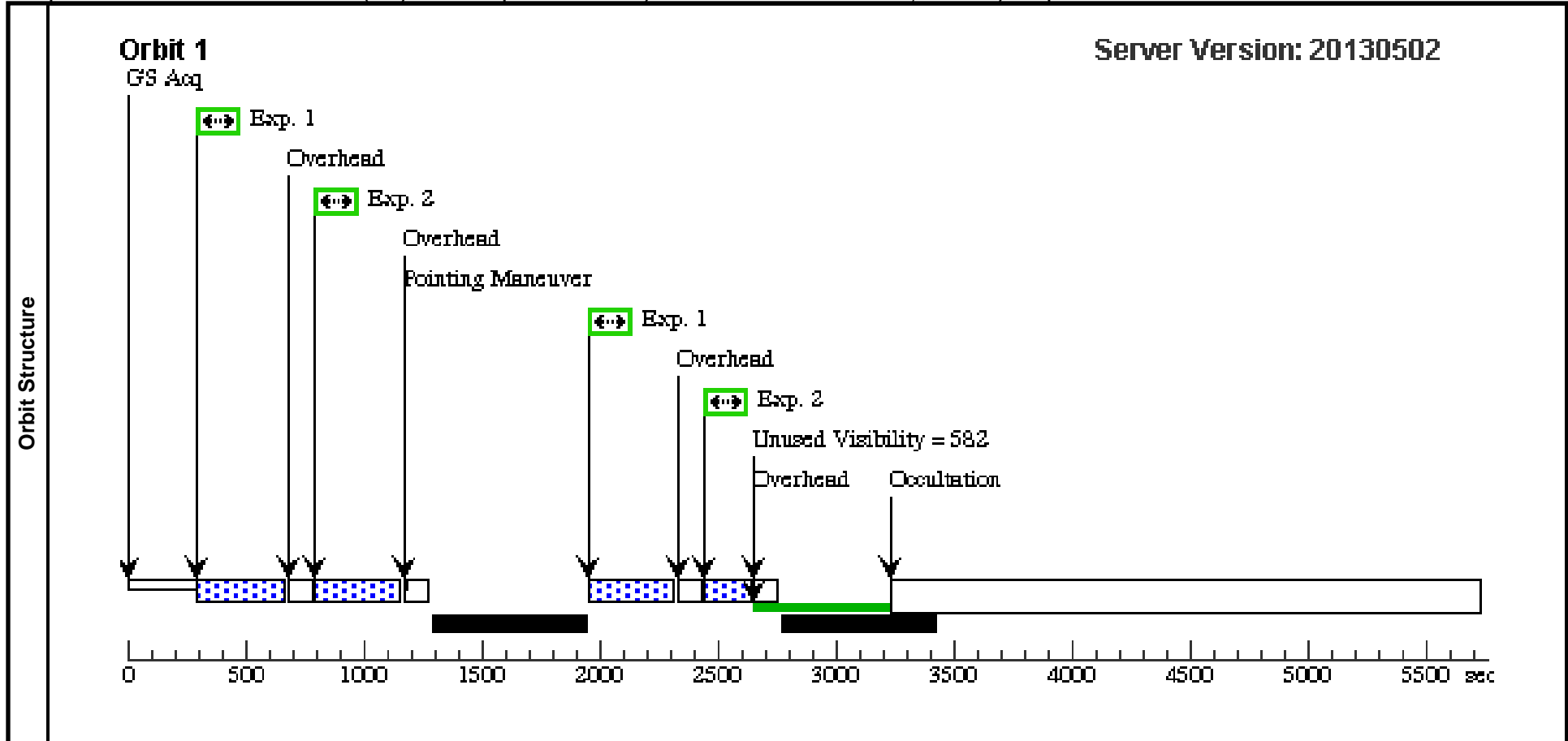
Visit	Proposal 13029, SN-2005BF (22), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	# (1)	Primary Pattern Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Secondary Pattern Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	Exposures (1-2)					
Fixed Targets	# (22)	Name SN-2005BF	Target Coordinates RA: 10 23 57.2700 (155.9886250d) Dec: -03 11 28.60 (-3.19128d) Equinox: J2000	Targ. Coord. Corrections	Fluxes V=25+/-1.0	Miscellaneous Reference Frame: ICRS <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.This object was generated by the targetselector and retrieved from the SIMBAD database.</i>				
Exposures	# 1 2	Label F814W F625W	Target (22) SN-2005BF (22) SN-2005BF	Config,Mode,Aperture WFC3/UVIS, ACCUM, UVIS WFC3/UVIS, ACCUM, UVIS	Spectral Els. F814W F625W	Opt. Params.	Special Reqs.	Groups Pattern 1, Exps 1-2 in SN-2005BF (22) (1) Pattern 1, Exps 1-2 in SN-2005BF (22) (1)	Exp. Time (Total)/[Actual Dur.] 680 Secs (680 Secs) [==>340.0 Secs (Pattern 1)] [==>340.0 Secs (Pattern 2)] 510 Secs (510 Secs) [==>340.0 Secs (Pattern 1)] [==>170.0 Secs (Pattern 2)]	Orbit [1] [1]



Proposal 13029 - SN-2001EM (23) - A Snapshot Survey of the Sites of Recent, Nearby Supernovae

Thu Jul 25 01:03:35 GMT 2013

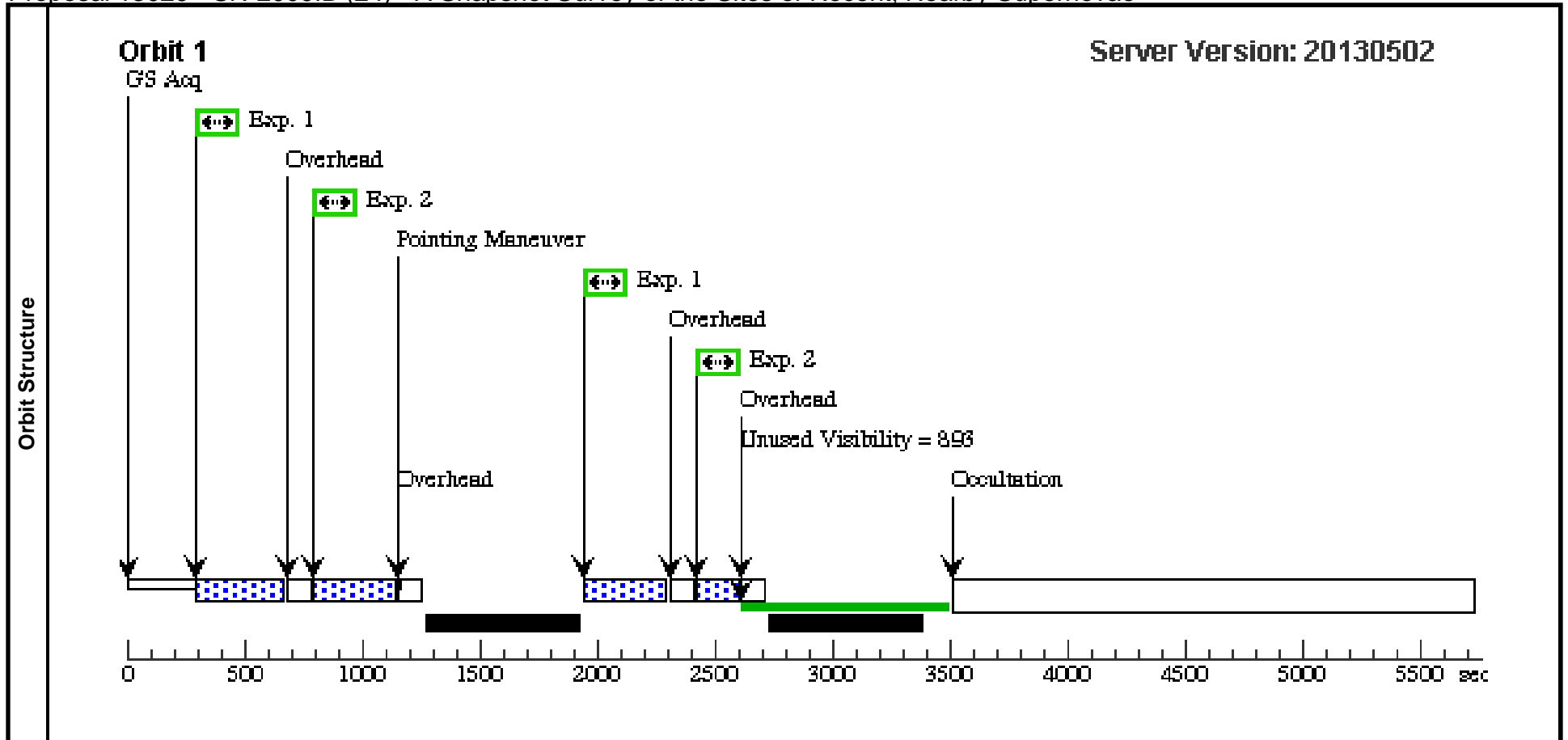
Visit	Proposal 13029, SN-2001EM (23), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	# (1)	Primary Pattern Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	Secondary Pattern	Exposures (1-2)				
Fixed Targets	# (23)	Name SN-2001EM	Target Coordinates RA: 21 42 23.6600 (325.5985833d) Dec: +12 29 50.90 (12.49747d) Equinox: J2000	Targ. Coord. Corrections	Fluxes V=25+/-1.0	Miscellaneous Reference Frame: ICRS <i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.This object was generated by the targetselector and retrieved from the SIMBAD database.</i>				
Exposures	# 1 2	Label F814W F625W	Target (23) SN-2001EM (23) SN-2001EM	Config,Mode,Aperture WFC3/UVIS, ACCUM, UVIS WFC3/UVIS, ACCUM, UVIS	Spectral Els. F814W F625W	Opt. Params.	Special Reqs.	Groups Pattern 1, Exps 1-2 in SN-2001EM (23) (1) Pattern 1, Exps 1-2 in SN-2001EM (23) (1)	Exp. Time (Total)/[Actual Dur.] 680 Secs (680 Secs) [==>340.0 Secs (Pattern 1)] [==>340.0 Secs (Pattern 2)] 510 Secs (510 Secs) [==>340.0 Secs (Pattern 1)] [==>170.0 Secs (Pattern 2)]	Orbit [1] [1]



Proposal 13029 - SN-2009IB (24) - A Snapshot Survey of the Sites of Recent, Nearby Supernovae

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Visit	Proposal 13029, SN-2009IB (24), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(24)	SN-2009IB	RA: 04 17 39.9200 (64.4163333d) Dec: -62 46 38.70 (-62.77742d) Equinox: J2000		V=25+/-1.0	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.This object was generated by the targetselector and retrieved from the SIMBAD database.									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(24) SN-2009IB	WFC3/UVIS, ACCUM, UVIS	F814W			Pattern 1, Exps 1-2 in SN-2009IB (24) (1)	680 Secs (680 Secs)	
									[=>340.0 Secs (Pattern 1)]	[1]
									[=>340.0 Secs (Pattern 2)]	
2	F555W	(24) SN-2009IB	WFC3/UVIS, ACCUM, UVIS	F555W				Pattern 1, Exps 1-2 in SN-2009IB (24) (1)	510 Secs (510 Secs)	
									[=>340.0 Secs (Pattern 1)]	[1]
									[=>170.0 Secs (Pattern 2)]	



Proposal 13029 - SN-2010JL (25) - A Snapshot Survey of the Sites of Recent, Nearby Supernovae

Thu Jul 25 01:03:36 GMT 2013

Visit	Proposal 13029, SN-2010JL (25), implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(25)	SN-2010JL	RA: 09 42 53.3300 (145.7222083d) Dec: +09 29 41.80 (9.49494d) Equinox: J2000		V=21+/-1.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(25) SN-2010JL	WFC3/UVIS, ACCUM, UVIS	F814W		GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-2 i n SN-2010JL (25) (1)	680 Secs (680 Secs) [==>340 Secs (Pattern 1)] [==>340 Secs (Pattern 2)]	[1]
	2	F300X	(25) SN-2010JL	WFC3/UVIS, ACCUM, UVIS	F300X	FLASH=12		Pattern 1, Exps 1-2 i n SN-2010JL (25) (1)	510 Secs (510 Secs) [==>340 Secs (Pattern 1)] [==>170 Secs (Pattern 2)]	[1]

