



12582 - Probing the explosion environment and origin of Type Ia supernovae

Cycle: 19, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(7) SN-UG8189	WFC3/UVIS	1	20-Sep-2012 21:01:34.0	yes
02	(7) SN-UG8189	STIS/CCD	1	20-Sep-2012 21:01:46.0	yes
03	(7) SN-UG8189	WFC3/UVIS	1	20-Sep-2012 21:01:55.0	yes
04	(7) SN-UG8189	STIS/CCD	1	20-Sep-2012 21:02:03.0	yes
05	(8) SN2012BL	WFC3/UVIS	1	20-Sep-2012 21:02:11.0	yes
06	(8) SN2012BL	STIS/CCD	1	20-Sep-2012 21:02:19.0	yes
07	(8) SN2012BL	WFC3/UVIS	1	20-Sep-2012 21:02:26.0	yes
08	(8) SN2012BL	STIS/CCD	1	20-Sep-2012 21:02:34.0	yes
90	(9) SN2012CG	WFC3/IR WFC3/UVIS	1	20-Sep-2012 21:02:49.0	yes
91	(9) SN2012CG	WFC3/IR WFC3/UVIS	1	20-Sep-2012 21:03:05.0	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>
92	(9) SN2012CG	STIS/CCD	1	20-Sep-2012 21:03:18.0	yes
17	(11) SN2012CU	WFC3/IR WFC3/UVIS	1	20-Sep-2012 21:03:27.0	yes
95	(12) SN2012ET	STIS/CCD	2	20-Sep-2012 21:03:42.0	yes
99	(12) SN2012ET	STIS/CCD	2	20-Sep-2012 21:03:55.0	yes
19	(11) SN2012CU	WFC3/IR WFC3/UVIS	1	20-Sep-2012 21:04:04.0	yes
94	(12) SN2012ET	WFC3/IR WFC3/UVIS	1	20-Sep-2012 21:04:14.0	yes
96	(12) SN2012ET	WFC3/IR WFC3/UVIS	1	20-Sep-2012 21:04:23.0	yes
97	(12) SN2012ET	WFC3/IR WFC3/UVIS	1	20-Sep-2012 21:04:33.0	yes
98	(12) SN2012ET	WFC3/IR WFC3/UVIS	1	20-Sep-2012 21:04:42.0	yes
93	(9) SN2012CG	STIS/CCD	1	20-Sep-2012 21:04:52.0	yes
13	(10) PTF12ENA	WFC3/UVIS	1	20-Sep-2012 21:05:01.0	yes
14	(10) PTF12ENA	STIS/CCD	1	20-Sep-2012 21:05:10.0	yes
15	(10) PTF12ENA	WFC3/UVIS	1	20-Sep-2012 21:05:21.0	yes
16	(10) PTF12ENA	STIS/CCD	1	20-Sep-2012 21:05:29.0	yes

26 Total Orbits Used

ABSTRACT

We propose a novel set of photometric and spectroscopic HST observations of near-by Type Ia supernovae to address and possibly resolve some of the outstanding questions with regards to the use of SNe Ia as distance estimators: the understanding of the non-standard color-brightness relation and the properties of the progenitor system. Thanks to the great sensitivity of WFC3 at UV and near-IR wavelengths, we will be able to differentiate reddening models that give approximately the same colors in optical bands but resulting in sizable bias for cosmology. Moreover, STIS spectra of

moderately reddened supernovae can be used to, for the first time, detect the 2175Å absorption feature from (non-Galactic) dust in SN Ia spectra. This would uniquely identify the dust-related part of the observed anomalous brightness-color relation. The spectroscopic data will also be used to quantify the impact of metallicity in the peak brightness, and to test SN Ia models with significant interactions with the circumstellarenvironment, as expected in the single degenerate scenario.

The proposed observations have the power to discriminate between practically all astrophysical processes that have been suggested as possible limitations for the ultimate accuracy of distance estimates to SNe Ia.

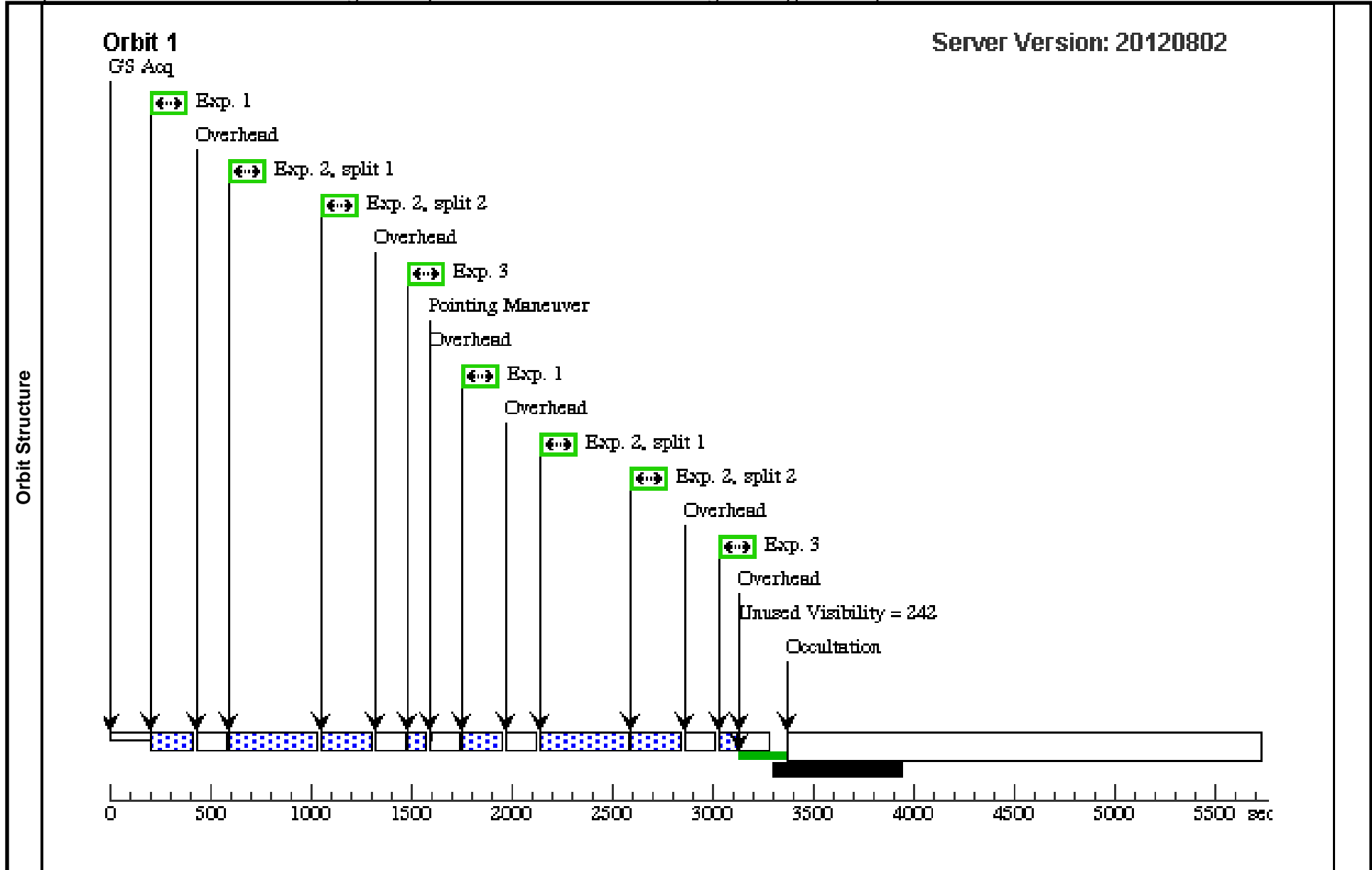
OBSERVING DESCRIPTION

We plan to execture 6 (non-disruptive) target of opportunity triggers for low-z ($z < 0.05$) Type Ia supernovae covering a wide range in color excess, $E(B-V) = [-0.1, +0.5]$. Each supernova will be observed in two different epochs, sepratte dby 2 weeks. For each epoch epoch one orbitis to be split into three UV filters, (F225W, F275W, F336W) and one. A second orbit in each epoch would be used to obtain a STIS spectrum with G230L.

Proposal 12582 - Visit 01 - Probing the explosion environment and origin of Type Ia supernovae

Fri Sep 21 01:05:39 GMT 2012

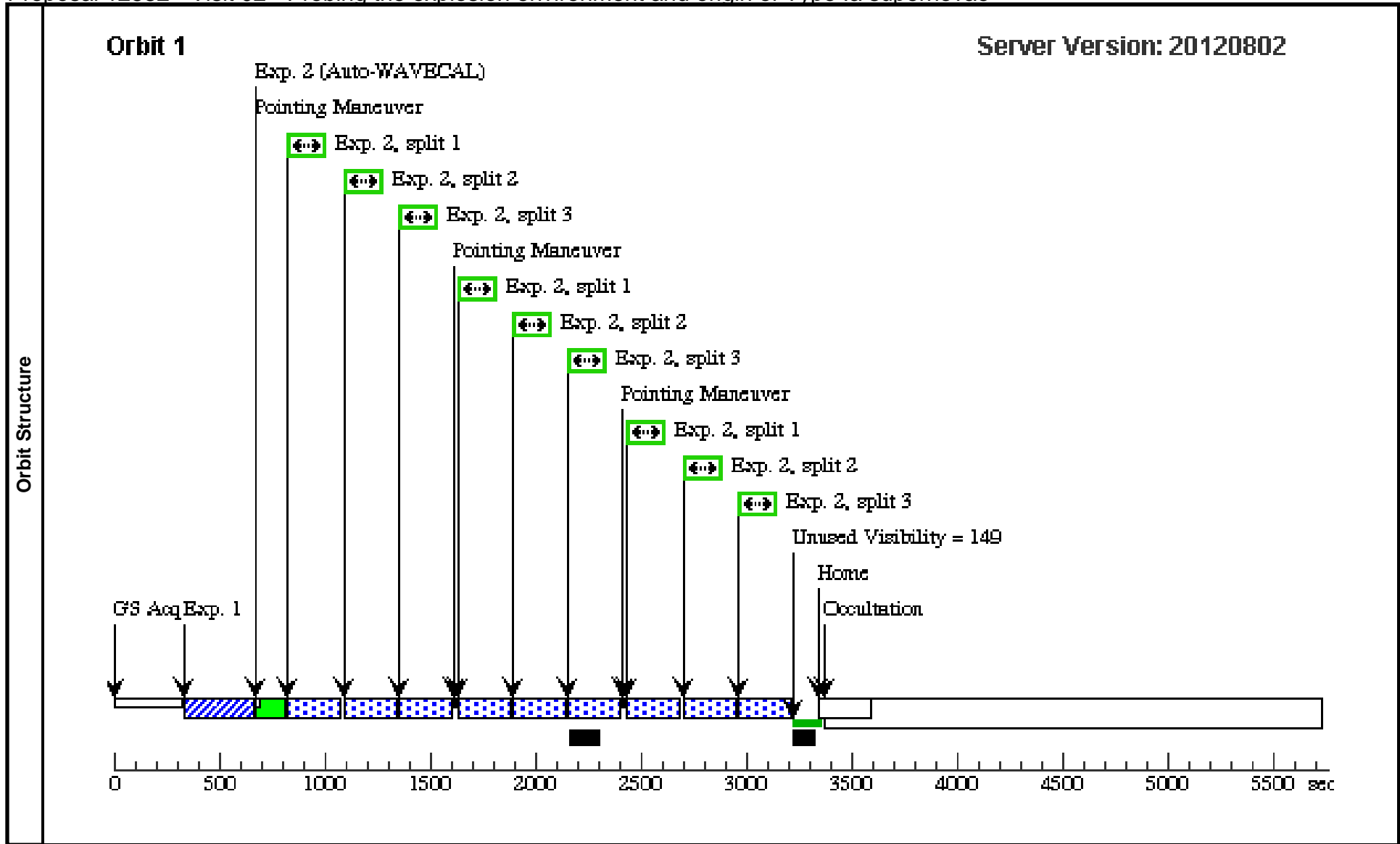
Visit	Proposal 12582, Visit 01, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 09-APR-2012:00:00:00 AND 11-APR-2012:00:00:00; ON HOLD <i>On Hold Comments: Target of opportunity</i>									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(6)	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		(1-3)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	SN-UG8189	RA: 13 05 45.6600 (196.4402500d) Dec: +46 27 52.90 (46.46469d) Equinox: J2000		V=17+/-1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Epoch 1 SN- 1 275	(7) SN-UG8189	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F275W		GS ACQ SCENARIO SINGLE	Pattern 6, Exps 1-3 in Visit 01 (6)	166 Secs [==>181.0 Secs (Pattern 1)] [==>181.0 Secs (Pattern 2)]	[1]
	2	Epoch 1 SN- 1 225	(7) SN-UG8189	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F225W	CR-SPLIT=2		Pattern 6, Exps 1-3 in Visit 01 (6)	483 Secs [==>256.5 Secs (Pattern 1, Split 1)] [==>256.5 Secs (Pattern 1, Split 2)] [==>256.5 Secs (Pattern 2, Split 1)] [==>256.5 Secs (Pattern 2, Split 2)]	[1]
	3	Epoch 1 SN- 1 336	(7) SN-UG8189	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F336W			Pattern 6, Exps 1-3 in Visit 01 (6)	50 Secs [==>65.0 Secs (Pattern 1)] [==>65.0 Secs (Pattern 2)]	[1]



Proposal 12582 - Visit 02 - Probing the explosion environment and origin of Type Ia supernovae

Fri Sep 21 01:05:41 GMT 2012

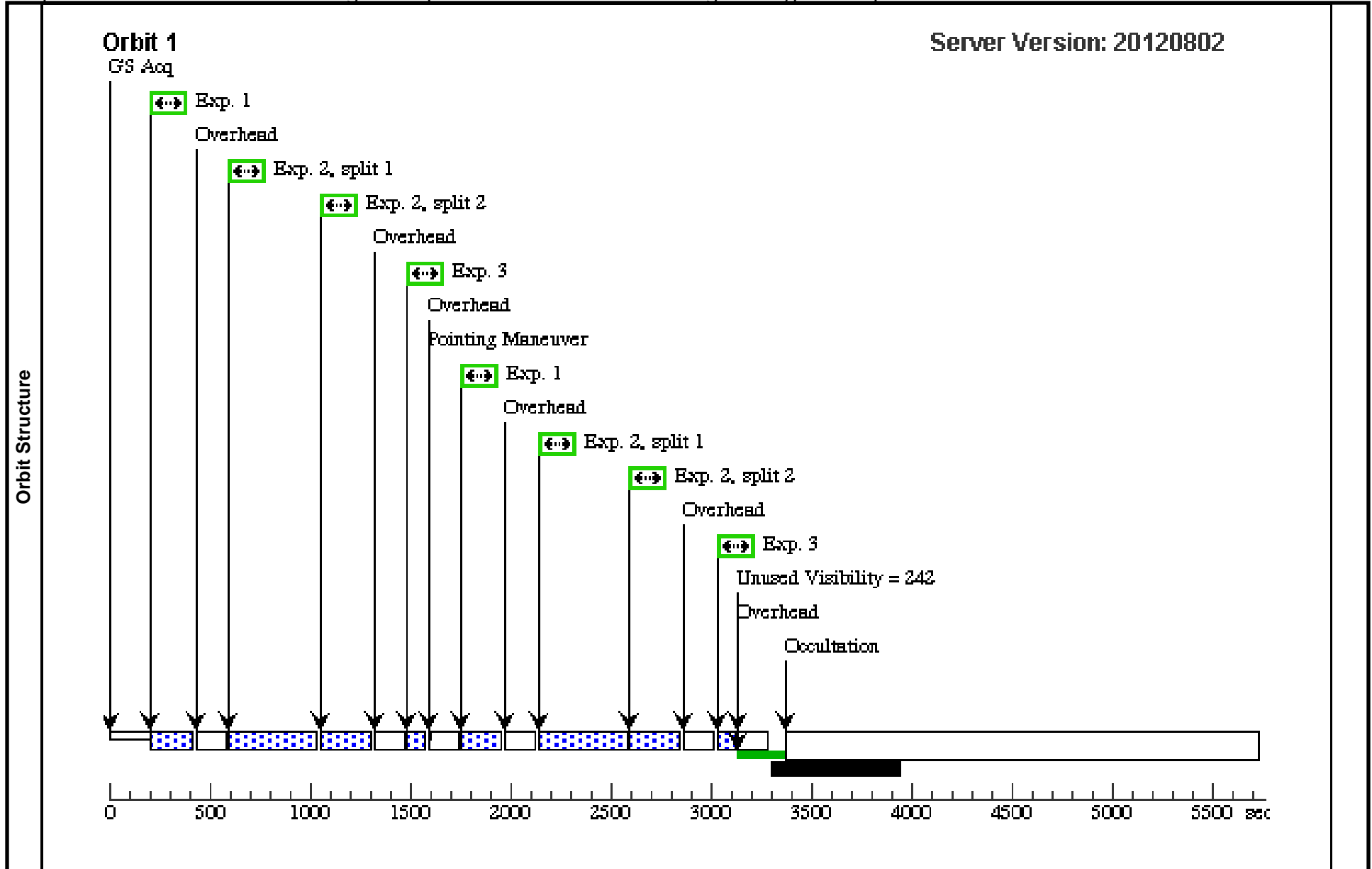
Visit	Proposal 12582, Visit 02, completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: BETWEEN 09-APR-2012:00:00:00 AND 11-APR-2012:00:00:00; ON HOLD <i>On Hold Comments: Target of opportunity</i>									
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures
		(3)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG						(2)
		Purpose=DITHER	Pattern Orientation=90.0							
		Number Of Points=3	Angle Between Sides=							
		Point Spacing=0.35	Center Pattern=false							
		Line Spacing=								
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(7)	SN-UG8189	RA: 13 05 45.6600 (196.4402500d)				V=17+/-1		Reference Frame: ICRS	
			Dec: +46 27 52.90 (46.46469d)							
			Equinox: J2000							
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	TargetAcquisition	(7) SN-UG8189	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			25 Secs	
								[==>]		[1]
	2	Epoch 1 SN-1 spec	(7) SN-UG8189	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=3		Pattern 3, Exps 2-2 in Visit 02 (3)	648 Secs	
								[==>(Pattern 1, Split 1)]		[1]
								[==>(Pattern 1, Split 2)]		
								[==>(Pattern 1, Split 3)]		
								[==>(Pattern 2, Split 1)]		
								[==>(Pattern 2, Split 2)]		
								[==>(Pattern 2, Split 3)]		
								[==>(Pattern 3, Split 1)]		
								[==>(Pattern 3, Split 2)]		
								[==>(Pattern 3, Split 3)]		



Proposal 12582 - Visit 03 - Probing the explosion environment and origin of Type Ia supernovae

Fri Sep 21 01:05:42 GMT 2012

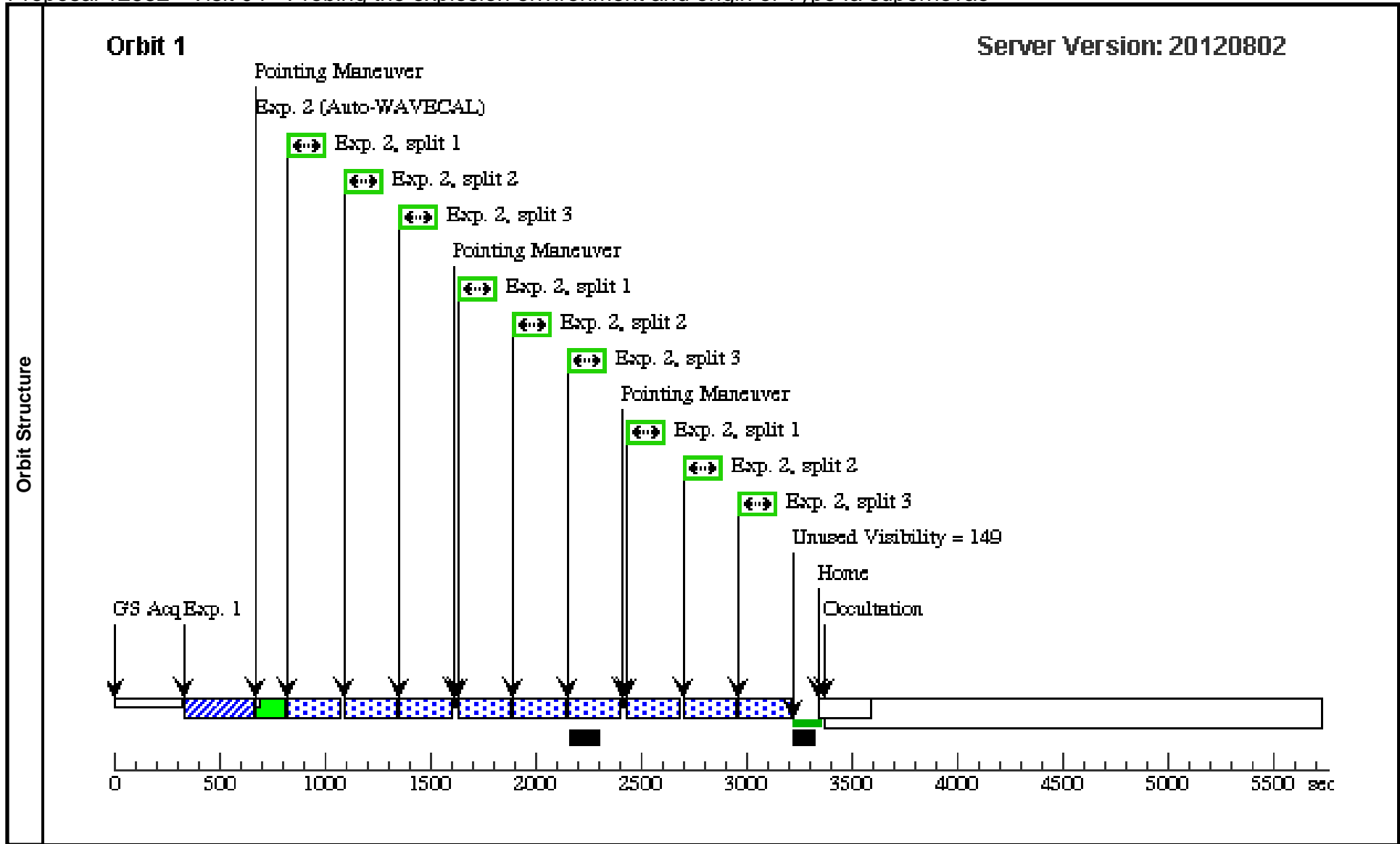
Visit	Proposal 12582, Visit 03, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 01; AFTER 01 BY 4 D TO 6 D; ON HOLD <i>On Hold Comments: Target of opportunity</i>									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(6)	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		(1-3)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	SN-UG8189	RA: 13 05 45.6600 (196.4402500d) Dec: +46 27 52.90 (46.46469d) Equinox: J2000		V=17+/-1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Epoch 2 SN- 1 275	(7) SN-UG8189	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F275W		GS ACQ SCENARI O SINGLE	Pattern 6, Exps 1-3 i n Visit 03 (6)	166 Secs [==>181.0 Secs (Pattern 1)] [==>181.0 Secs (Pattern 2)]	[1]
	2	Epoch 2 SN- 1 225	(7) SN-UG8189	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F225W	CR-SPLIT=2		Pattern 6, Exps 1-3 i n Visit 03 (6)	483 Secs [==>256.5 Secs (Pattern 1, Split 1)] [==>256.5 Secs (Pattern 1, Split 2)] [==>256.5 Secs (Pattern 2, Split 1)] [==>256.5 Secs (Pattern 2, Split 2)]	[1]
	3	Epoch2 SN- 1 336	(7) SN-UG8189	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F336W			Pattern 6, Exps 1-3 i n Visit 03 (6)	50 Secs [==>65.0 Secs (Pattern 1)] [==>65.0 Secs (Pattern 2)]	[1]



Proposal 12582 - Visit 04 - Probing the explosion environment and origin of Type Ia supernovae

Fri Sep 21 01:05:43 GMT 2012

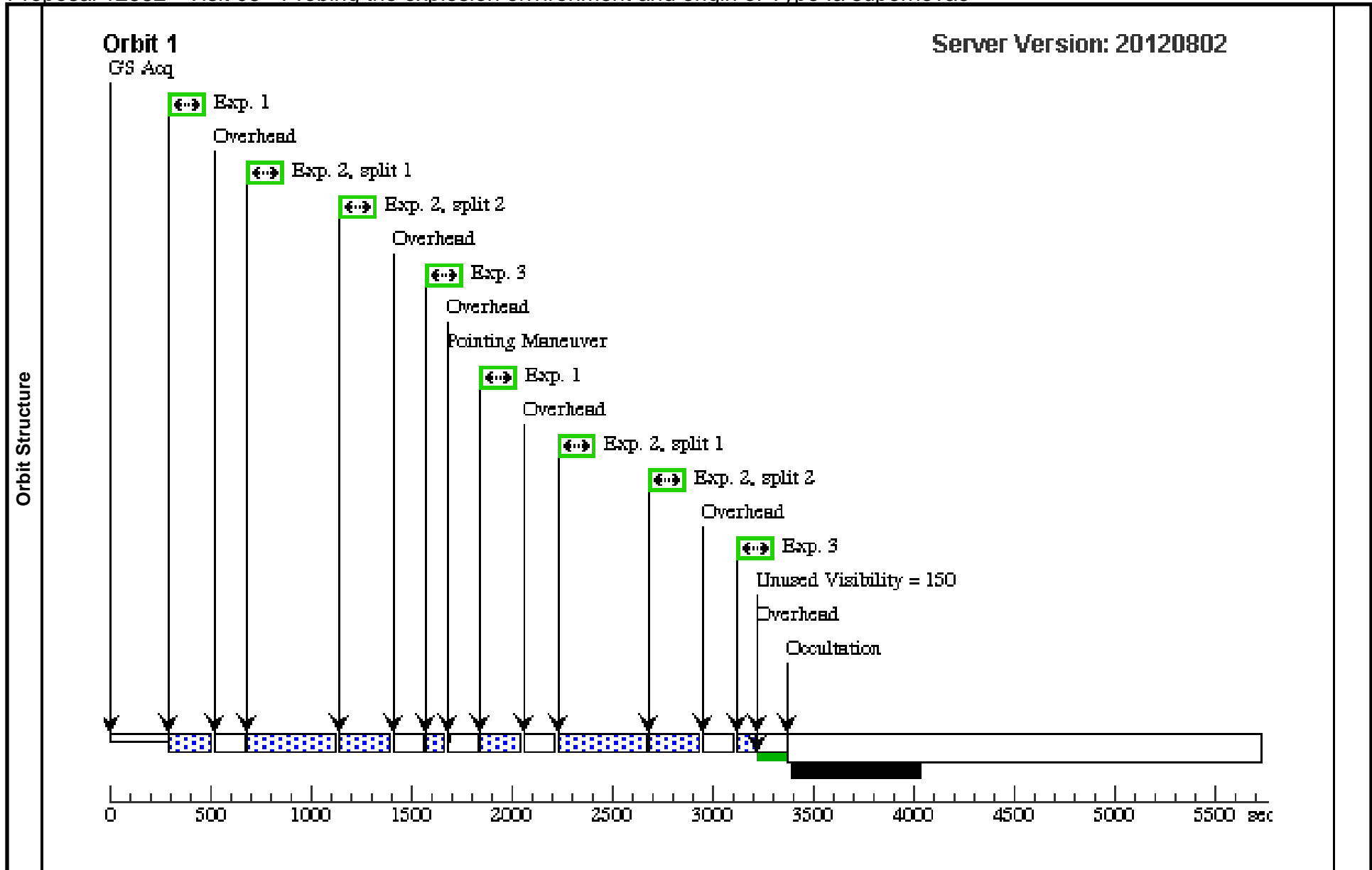
Visit	Proposal 12582, Visit 04, completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SAME ORIENT AS 02; AFTER 02 BY 4 D TO 6 D; ON HOLD <i>On Hold Comments: Target of opportunity</i>									
	Patterns	#	Primary Pattern				Secondary Pattern			
(3)		Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG							(2)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous		
	(7)	SN-UG8189	RA: 13 05 45.6600 (196.4402500d) Dec: +46 27 52.90 (46.46469d) Equinox: J2000				V=17+/-1	Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	TargetAcquisition	(7) SN-UG8189	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			25 Secs [==>]	[1]
	2	Epoch 2 SN-1 spec	(7) SN-UG8189	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=3		Pattern 3, Exps 2-2 in Visit 04 (3)	648 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 1, Split 3)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 2, Split 3)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)] [==>(Pattern 3, Split 3)]	[1]



Proposal 12582 - Visit 05 - Probing the explosion environment and origin of Type Ia supernovae

Fri Sep 21 01:05:44 GMT 2012

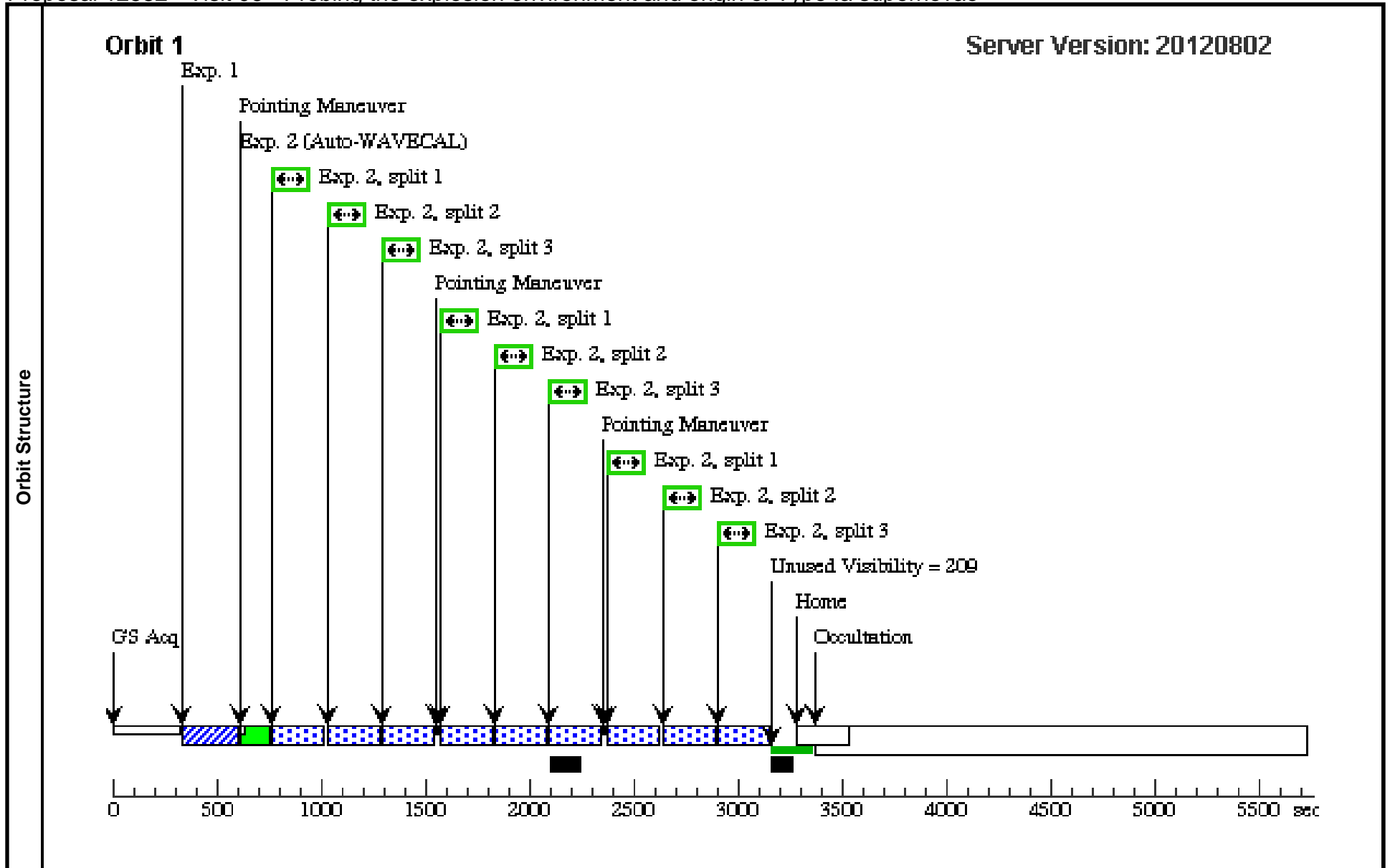
Visit	Proposal 12582, Visit 05, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 16-APR-2012:00:00:00 AND 20-APR-2012:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(6)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-3)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	SN2012BL	RA: 20 23 55.2800 (305.9803333d) Dec: -48 21 17.30 (-48.35481d) Equinox: J2000		V=14.7+/-1	Reference Frame: ICRS				
	<i>Comments: The SN is located 42.9" east and 14.6" north of the center of the host galaxy. The redshift of the host galaxy is z=0.0187. We have a spectrum identifying it as a Type Ia, about 4 days before lightcurve maximum.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Epoch 1 SN- 2 275	(8) SN2012BL	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F275W			Pattern 6, Exps 1-3 i n Visit 05 (6)	166 Secs [==>181.0 Secs (Pattern 1)] [==>181.0 Secs (Pattern 2)]	[1]
	2	Epoch 1 SN- 2 225	(8) SN2012BL	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F225W	CR-SPLIT=2		Pattern 6, Exps 1-3 i n Visit 05 (6)	483 Secs [==>256.5 Secs (Pattern 1, Split 1)] [==>256.5 Secs (Pattern 1, Split 2)] [==>256.5 Secs (Pattern 2, Split 1)] [==>256.5 Secs (Pattern 2, Split 2)]	[1]
	3	Epoch1 SN- 2 336	(8) SN2012BL	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F336W			Pattern 6, Exps 1-3 i n Visit 05 (6)	50 Secs [==>65.0 Secs (Pattern 1)] [==>65.0 Secs (Pattern 2)]	[1]



Proposal 12582 - Visit 06 - Probing the explosion environment and origin of Type Ia supernovae

Fri Sep 21 01:05:45 GMT 2012

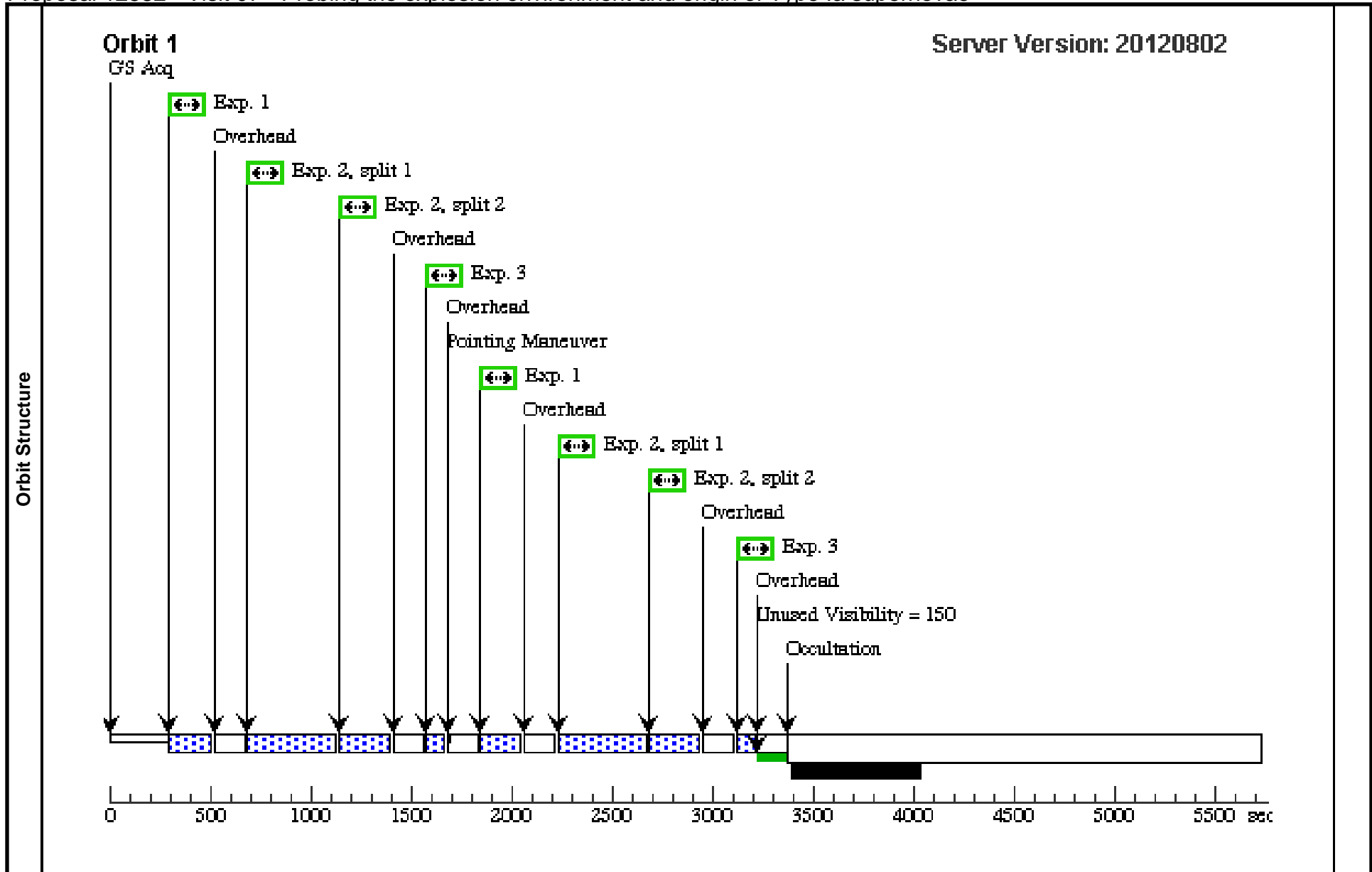
Visit	Proposal 12582, Visit 06, completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: BETWEEN 16-APR-2012:00:00:00 AND 20-APR-2012:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(3)	Pattern Type=STIS-ALONG-SLIT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=90.0 Number Of Points=3 Angle Between Sides= Point Spacing=0.35 Center Pattern=false Line Spacing=		(2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	SN2012BL	RA: 20 23 55.2800 (305.9803333d) Dec: -48 21 17.30 (-48.35481d) Equinox: J2000 <i>Comments: The SN is located 42.9" east and 14.6" north of the center of the host galaxy. The redshift of the host galaxy is z=0.0187. We have a spectrum identifying it as a Type Ia, about 4 days before lightcurve maximum.</i>		V=14.7+/-1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	TargetAcquisition	(8) SN2012BL	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			10 Secs [==>]	[1]
2	Epoch 1 SN-2 spec	(8) SN2012BL	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=3			Pattern 3, Exps 2-2 in Visit 06 (3) 648 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 1, Split 3)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 2, Split 3)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)] [==>(Pattern 3, Split 3)]	[1]	



Proposal 12582 - Visit 07 - Probing the explosion environment and origin of Type Ia supernovae

Fri Sep 21 01:05:46 GMT 2012

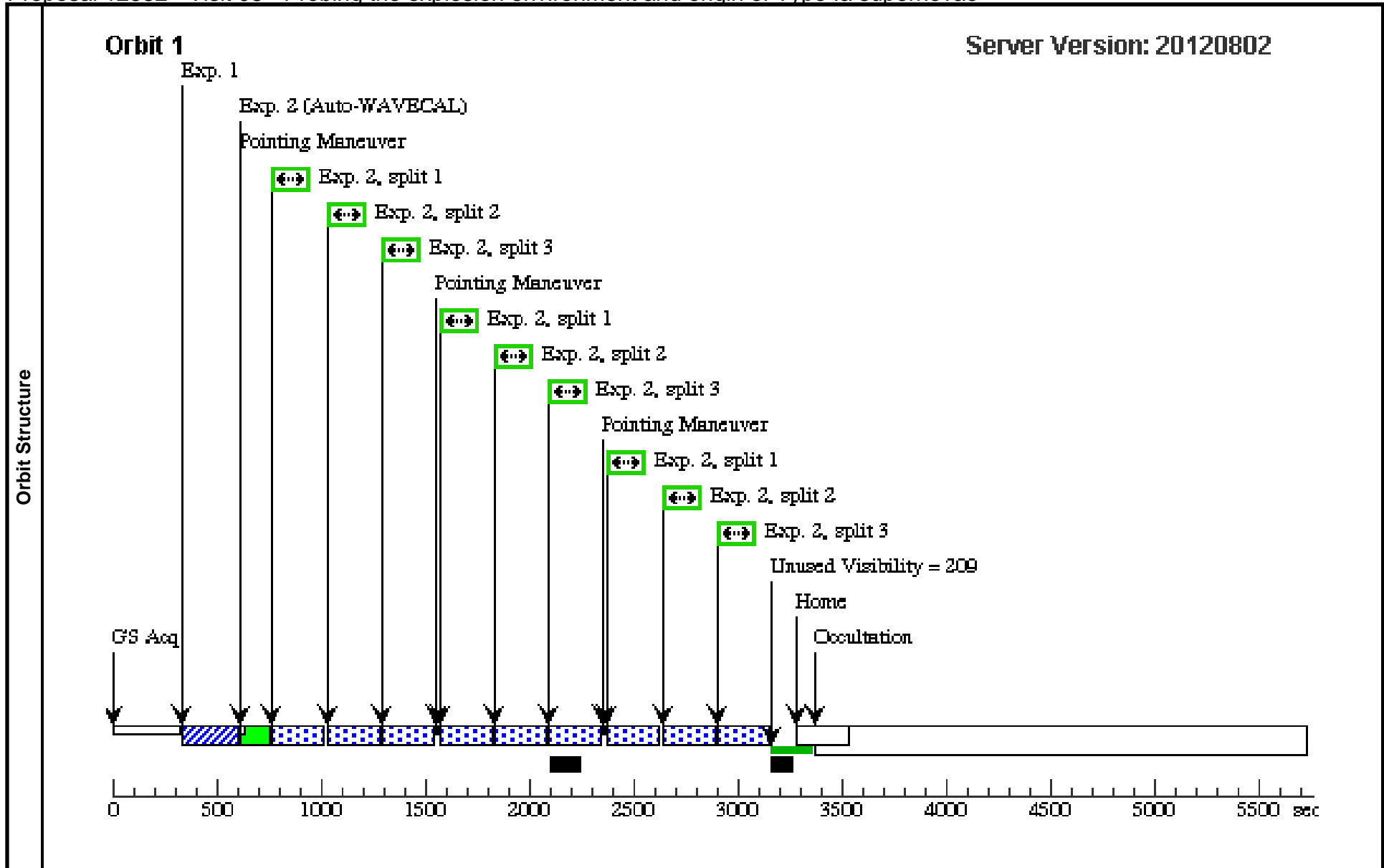
Visit	Proposal 12582, Visit 07, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 05; AFTER 05 BY 4 D TO 7 D										
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
		(6)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-3)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(8)	SN2012BL	RA: 20 23 55.2800 (305.9803333d) Dec: -48 21 17.30 (-48.35481d) Equinox: J2000		V=14.7+/-1	Reference Frame: ICRS					
<i>Comments: The SN is located 42.9" east and 14.6" north of the center of the host galaxy. The redshift of the host galaxy is z=0.0187. We have a spectrum identifying it as a Type Ia, about 4 days before lightcurve maximum.</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	Epoch 2 SN- 2 275	(8) SN2012BL	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F275W				Pattern 6, Exps 1-3 in Visit 07 (6)	166 Secs	
									[==>181.0 Secs (Pattern 1)] [==>181.0 Secs (Pattern 2)]	[1]	
	2	Epoch 2 SN- 2 225	(8) SN2012BL	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F225W	CR-SPLIT=2			Pattern 6, Exps 1-3 in Visit 07 (6)	483 Secs	
									[==>256.5 Secs (Pattern 1, Split 1)] [==>256.5 Secs (Pattern 1, Split 2)] [==>256.5 Secs (Pattern 2, Split 1)] [==>256.5 Secs (Pattern 2, Split 2)]	[1]	
3	Epoch 2 SN- 2 336	(8) SN2012BL	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F336W				Pattern 6, Exps 1-3 in Visit 07 (6)	50 Secs		
									[==>65.0 Secs (Pattern 1)] [==>65.0 Secs (Pattern 2)]	[1]	



Proposal 12582 - Visit 08 - Probing the explosion environment and origin of Type Ia supernovae

Fri Sep 21 01:05:48 GMT 2012

Visit	Proposal 12582, Visit 08, completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SAME ORIENT AS 06; AFTER 06 BY 4 D TO 7 D									
	Patterns	Primary Pattern	Secondary Pattern	Exposures						
	(3)	Pattern Type=STIS-ALONG-SLIT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=90.0 Number Of Points=3 Angle Between Sides= Point Spacing=0.35 Center Pattern=false Line Spacing=		(2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	SN2012BL	RA: 20 23 55.2800 (305.9803333d) Dec: -48 21 17.30 (-48.35481d) Equinox: J2000		V=14.7+/-1	Reference Frame: ICRS				
<i>Comments: The SN is located 42.9" east and 14.6" north of the center of the host galaxy. The redshift of the host galaxy is z=0.0187. We have a spectrum identifying it as a Type Ia, about 4 days before lightcurve maximum.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	TargetAcquisition	(8) SN2012BL	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT			10 Secs [==>]	[1]
2	Epoch 2 SN-2 spec	(8) SN2012BL	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=3			Pattern 3, Exps 2-2 in Visit 08 (3) 648 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 1, Split 3)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 2, Split 3)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)] [==>(Pattern 3, Split 3)]	[1]	



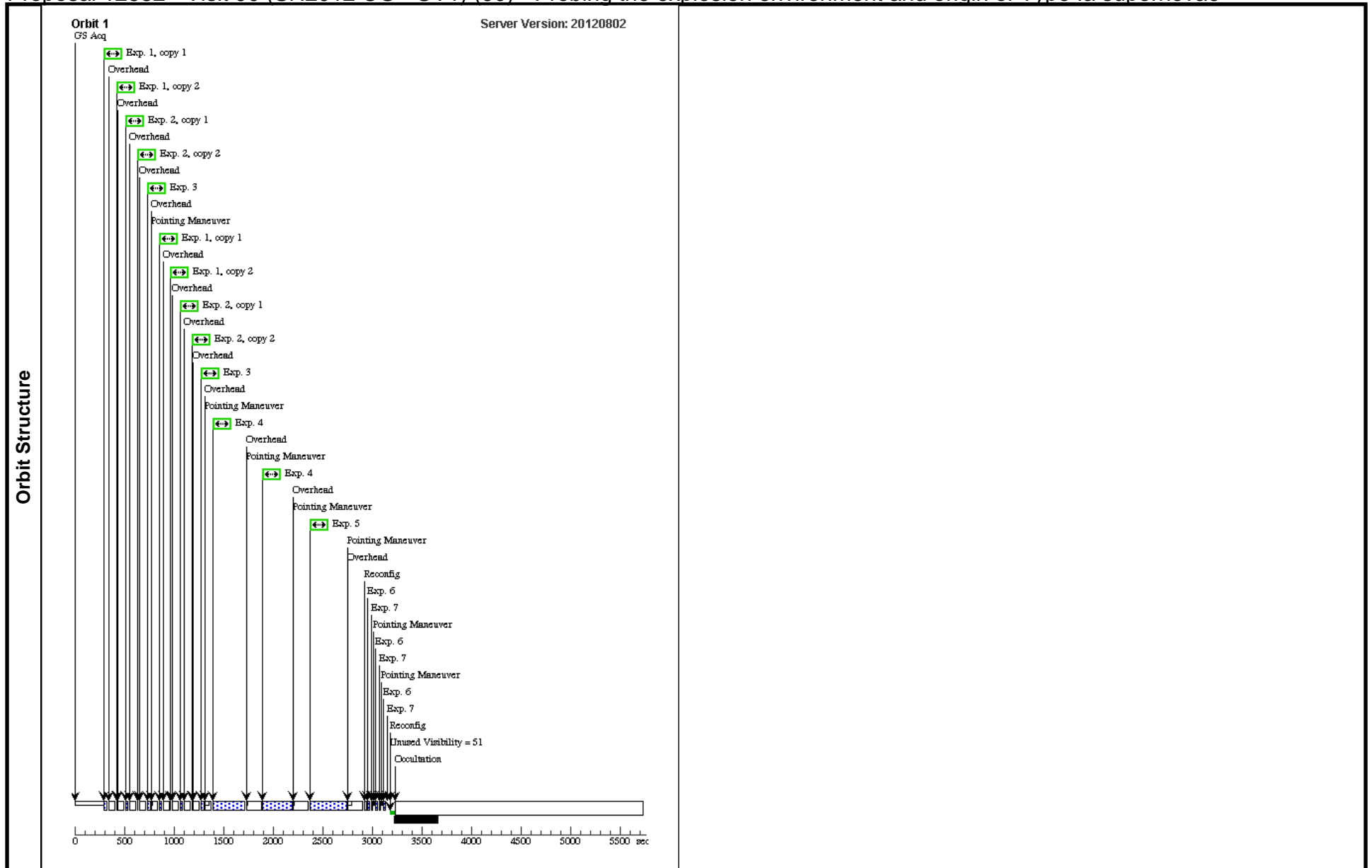
Proposal 12582 - Visit 90 (SN2012 CG - UV1) (90) - Probing the explosion environment and origin of Type Ia supernovae

Fri Sep 21 01:05:49 GMT 2012

Visit	Proposal 12582, Visit 90 (SN2012 CG - UV1) (90), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: BEFORE 11-JUN-2012:00:00:00					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
		(6)	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		(1-3), (4)
	(7)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(6-7)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(9)	SN2012CG	RA: 12 27 12.8160 (186.8034000d) Dec: +09 25 13.06 (9.42029d) Equinox: J2000		V=12+/-1	Reference Frame: ICRS
<i>Comments: Expect peak magnitude V~12, around June 4.</i>						

Proposal 12582 - Visit 90 (SN2012 CG - UV1) (90) - Probing the explosion environment and origin of Type Ia supernovae

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	Epoch 1 SN 2012 CG 275	(9) SN2012CG	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W				Pattern 6, Exps 1-3 in Visit 90 (SN2012 CG - UV1) (90) (6)	2 Secs X 2 [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)]	[1]
	2	Epoch 1 SN 2012CG 225	(9) SN2012CG	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F225W				Pattern 6, Exps 1-3 in Visit 90 (SN2012 CG - UV1) (90) (6)	4 Secs X 2 [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)]	[1]
	3	Epoch1 SN2012CG 336	(9) SN2012CG	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F336W				Pattern 6, Exps 1-3 in Visit 90 (SN2012 CG - UV1) (90) (6)	1 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	4		(9) SN2012CG	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F350LP				Pattern 6, Exps 4-4 in Visit 90 (SN2012 CG - UV1) (90) (6)	300 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	5		(9) SN2012CG	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F814W					350 Secs [==>]	[1]
	6	SN2012cg F 160W	(9) SN2012CG	WFC3/IR, MULTIACCUM, IRSUB64	F160W		NSAMP=1; SAMP-SEQ=RAPID		Pattern 7, Exps 6-7 in Visit 90 (SN2012 CG - UV1) (90) (7)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	7	SN2012cg F 125W	(9) SN2012CG	WFC3/IR, MULTIACCUM, IRSUB64	F125W		NSAMP=1; SAMP-SEQ=RAPID		Pattern 7, Exps 6-7 in Visit 90 (SN2012 CG - UV1) (90) (7)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]



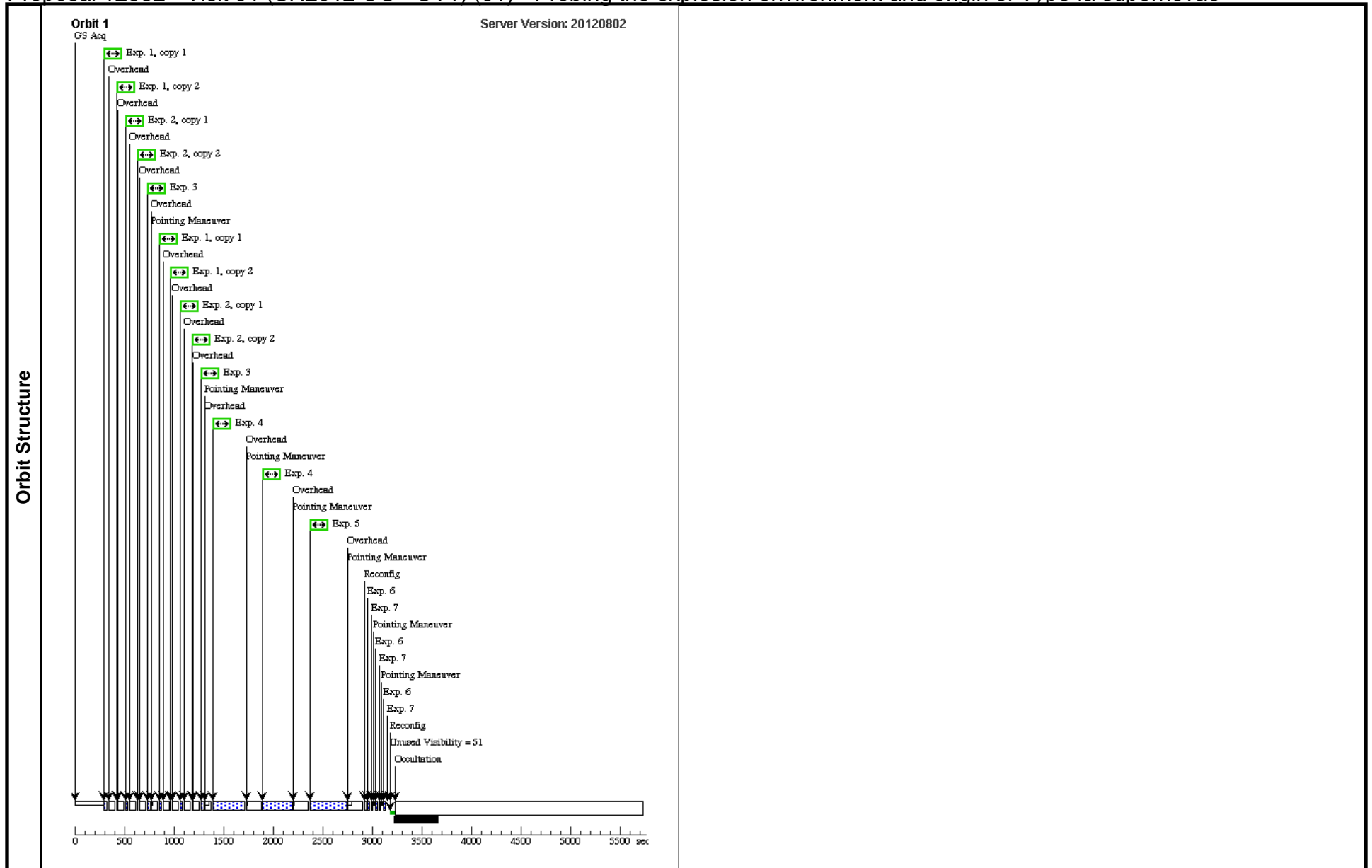
Proposal 12582 - Visit 91 (SN2012 CG - UV1) (91) - Probing the explosion environment and origin of Type Ia supernovae

Fri Sep 21 01:05:50 GMT 2012

Visit	Proposal 12582, Visit 91 (SN2012 CG - UV1) (91), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SAME ORIENT AS 90; AFTER 90 BY 12 D TO 16 D					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
		(6)	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		(1-3), (4)
	(7)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(6-7)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(9)	SN2012CG	RA: 12 27 12.8160 (186.8034000d) Dec: +09 25 13.06 (9.42029d) Equinox: J2000		V=12+/-1	Reference Frame: ICRS
<i>Comments: Expect peak magnitude V~12, around June 4.</i>						

Proposal 12582 - Visit 91 (SN2012 CG - UV1) (91) - Probing the explosion environment and origin of Type Ia supernovae

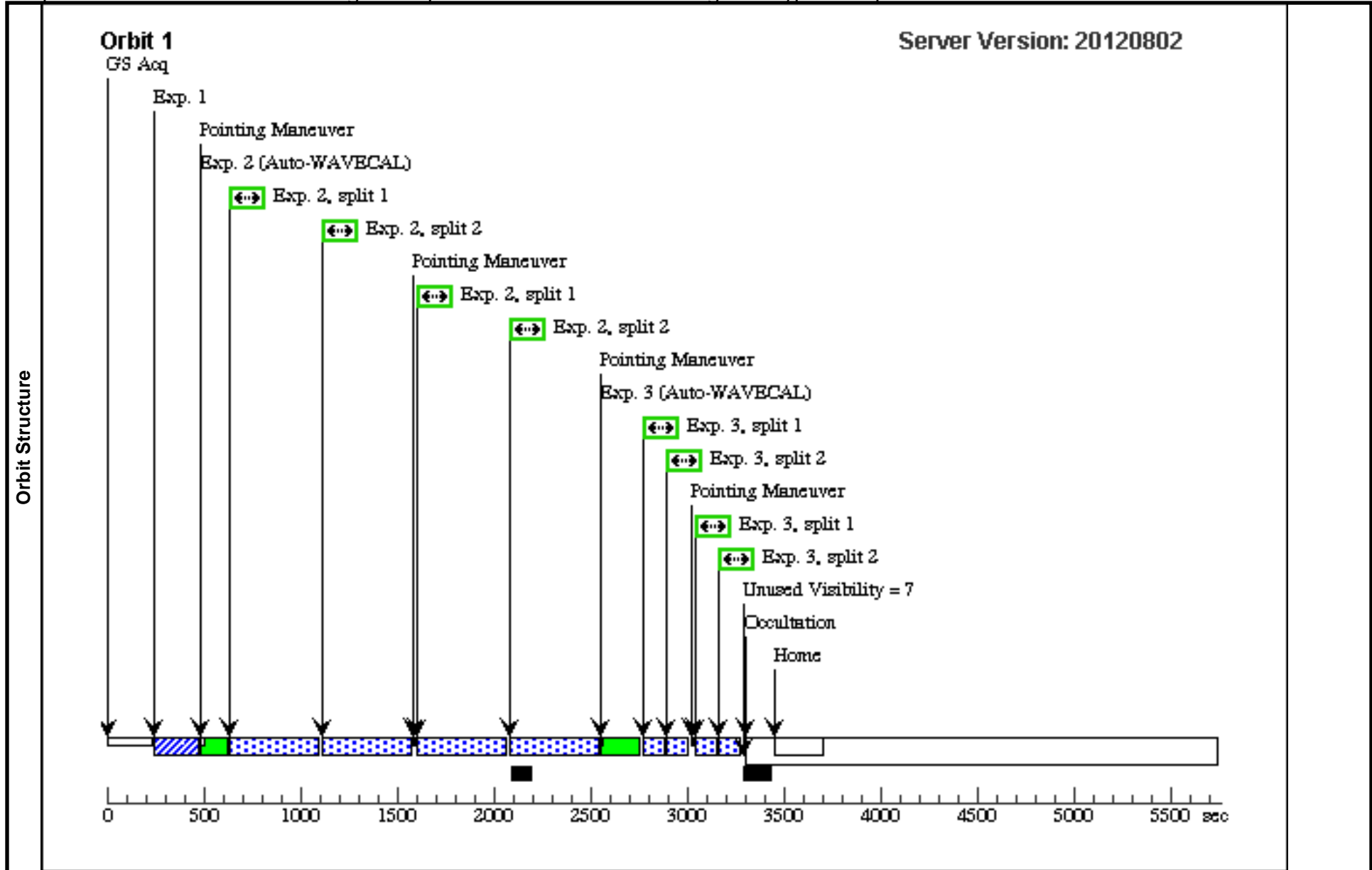
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
Exposures	1	Epoch 1 SN 2012 CG 275	(9) SN2012CG	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W		Pattern 6, Exps 1-3 in Visit 91 (SN2012 CG - UV1) (91) (6)	2 Secs X 2 [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)]	[1]	
	2	Epoch 1 SN 2012CG 225	(9) SN2012CG	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F225W		Pattern 6, Exps 1-3 in Visit 91 (SN2012 CG - UV1) (91) (6)	4 Secs X 2 [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)]	[1]	
	3	Epoch1 SN2012CG 336	(9) SN2012CG	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F336W		Pattern 6, Exps 1-3 in Visit 91 (SN2012 CG - UV1) (91) (6)	1 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]	
	4		(9) SN2012CG	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F350LP		Pattern 6, Exps 4-4 in Visit 91 (SN2012 CG - UV1) (91) (6)	300 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]	
	5		(9) SN2012CG	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F814W			350 Secs [==>]	[1]	
	6	SN2012cg F 160W	(9) SN2012CG	WFC3/IR, MULTIACCUM, IRSUB64	F160W	NSAMP=1; SAMP-SEQ=RAPID		Pattern 7, Exps 6-7 in Visit 91 (SN2012 CG - UV1) (91) (7)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	7	SN2012cg F 125W	(9) SN2012CG	WFC3/IR, MULTIACCUM, IRSUB64	F125W	NSAMP=1; SAMP-SEQ=RAPID		Pattern 7, Exps 6-7 in Visit 91 (SN2012 CG - UV1) (91) (7)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]



Proposal 12582 - Visit 92 - Probing the explosion environment and origin of Type Ia supernovae

Fri Sep 21 01:05:52 GMT 2012

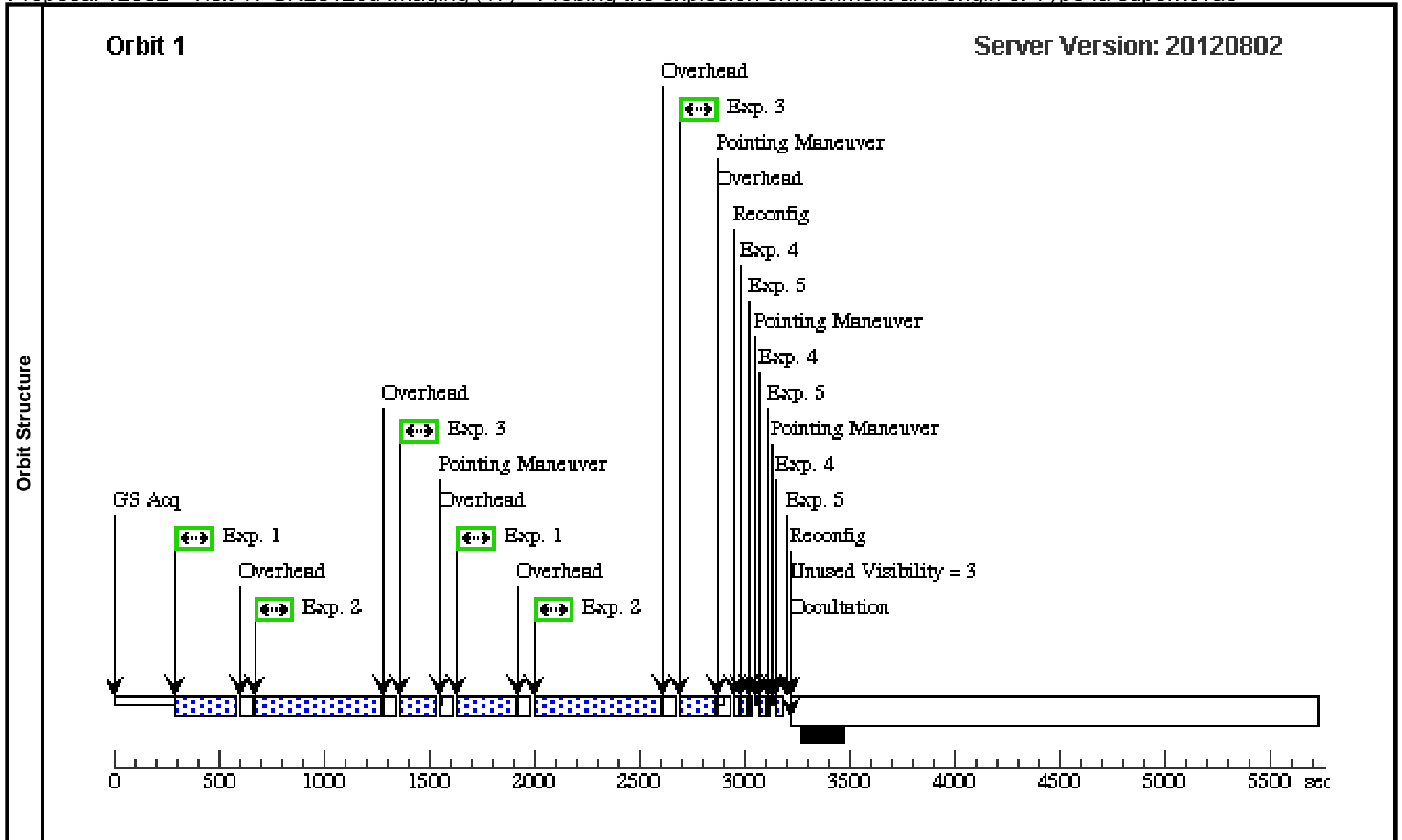
Visit	Proposal 12582, Visit 92, completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: BEFORE 11-JUN-2012:00:00:00; VISIBILITY INTERVAL 55.0 M									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(8)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG						(2), (3)
		Purpose=DITHER	Pattern Orientation=90.0							
		Number Of Points=2	Angle Between Sides=							
		Point Spacing=0.35	Center Pattern=false							
		Line Spacing=								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(9)	SN2012CG	RA: 12 27 12.8160 (186.8034000d) Dec: +09 25 13.06 (9.42029d) Equinox: J2000			V=12+/-1	Reference Frame: ICRS			
	<i>Comments: Expect peak magnitude V~12, around June 4.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	TargetAcquisition SN2012CG	(9) SN2012CG	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT	GS ACQ SCENARIO ONEB1B3		0.200 Secs	
									[==>]	[1]
	2	Epoch 1 SN2012 CG spec	(9) SN2012CG	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2		Pattern 8, Exps 2-2 in Visit 92 (8)	1000 Secs	
									[==>428.0 Secs (Pattern 1, Split 1)] [==>428.0 Secs (Pattern 1, Split 2)] [==>428.0 Secs (Pattern 2, Split 1)] [==>428.0 Secs (Pattern 2, Split 2)]	[1]
3		(9) SN2012CG	STIS/CCD, ACCUM, 52X0.1E1	G430L 4300 A			Pattern 8, Exps 3-3 in Visit 92 (8)	300 Secs		
								[==>78.0 Secs (Pattern 1, Split 1)] [==>78.0 Secs (Pattern 1, Split 2)] [==>78.0 Secs (Pattern 2, Split 1)] [==>78.0 Secs (Pattern 2, Split 2)]	[1]	



Proposal 12582 - Visit 17 SN2012cu Imaging (17) - Probing the explosion environment and origin of Type Ia supernovae

Fri Sep 21 01:05:53 GMT 2012

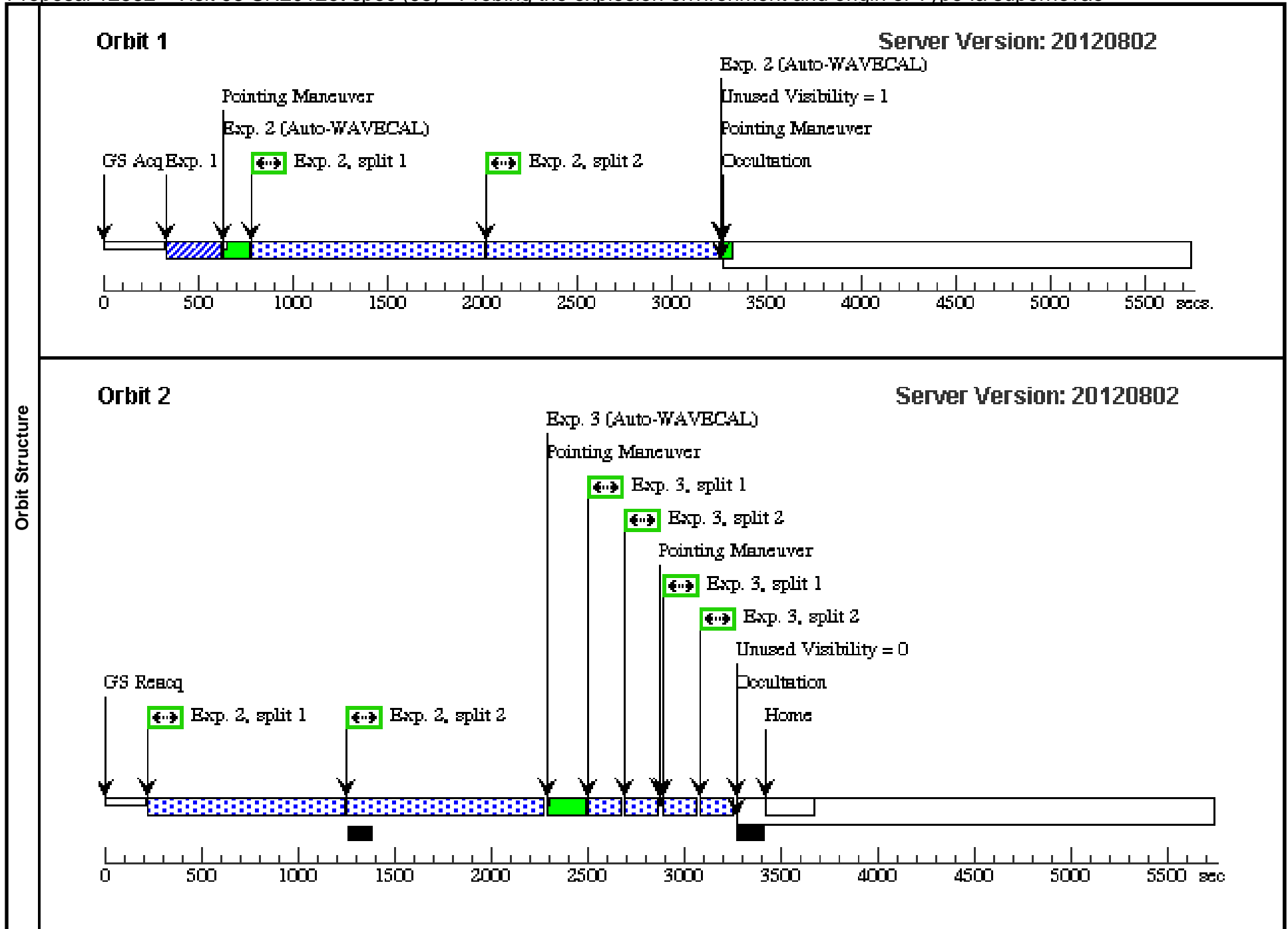
Visit	Proposal 12582, Visit 17 SN2012cu Imaging (17), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: BEFORE 04-JUL-2012										
	#	Primary Pattern	Secondary Pattern	Exposures							
Patterns	(6)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-3)							
	(7)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.636 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(4-5)							
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(11)	SN2012CU	RA: 12 53 29.3500 (193.3722917d) Dec: +02 09 39.00 (2.16083d) Equinox: J2000		V=15.5+/-1.0	Reference Frame: ICRS					
<i>Comments: Fading SN B</i>											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	Epoch 1 SN 2012cu 275	(11) SN2012CU	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W				Pattern 6, Exps 1-3 in Visit 17 SN2012cu Imaging (17) (6)	166 Secs [==>261.0 Secs (Pattern 1)] [==>261.0 Secs (Pattern 2)]	[1]
	2	Epoch 1 SN 2012cu 225	(11) SN2012CU	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F225W				Pattern 6, Exps 1-3 in Visit 17 SN2012cu Imaging (17) (6)	483 Secs [==>578.0 Secs (Pattern 1)] [==>578.0 Secs (Pattern 2)]	[1]
	3	Epoch 1 SN 2012cu 336	(11) SN2012CU	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F336W				Pattern 6, Exps 1-3 in Visit 17 SN2012cu Imaging (17) (6)	50 Secs [==>145.0 Secs (Pattern 1)] [==>145.0 Secs (Pattern 2)]	[1]
	4	Epoch 1 SN 2012cu F16 0W	(11) SN2012CU	WFC3/IR, MULTIACCUM, IRSUB512	F160W		NSAMP=1; SAMP-SEQ=RAPID		Pattern 7, Exps 4-5 in Visit 17 SN2012cu Imaging (17) (7)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	5	Epoch 1 SN 2102cu F12 5W	(11) SN2012CU	WFC3/IR, MULTIACCUM, IRSUB512	F125W		NSAMP=1; SAMP-SEQ=RAPID		Pattern 7, Exps 4-5 in Visit 17 SN2012cu Imaging (17) (7)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]



Proposal 12582 - Visit 95 SN2012et spec (95) - Probing the explosion environment and origin of Type Ia supernovae

Fri Sep 21 01:05:54 GMT 2012

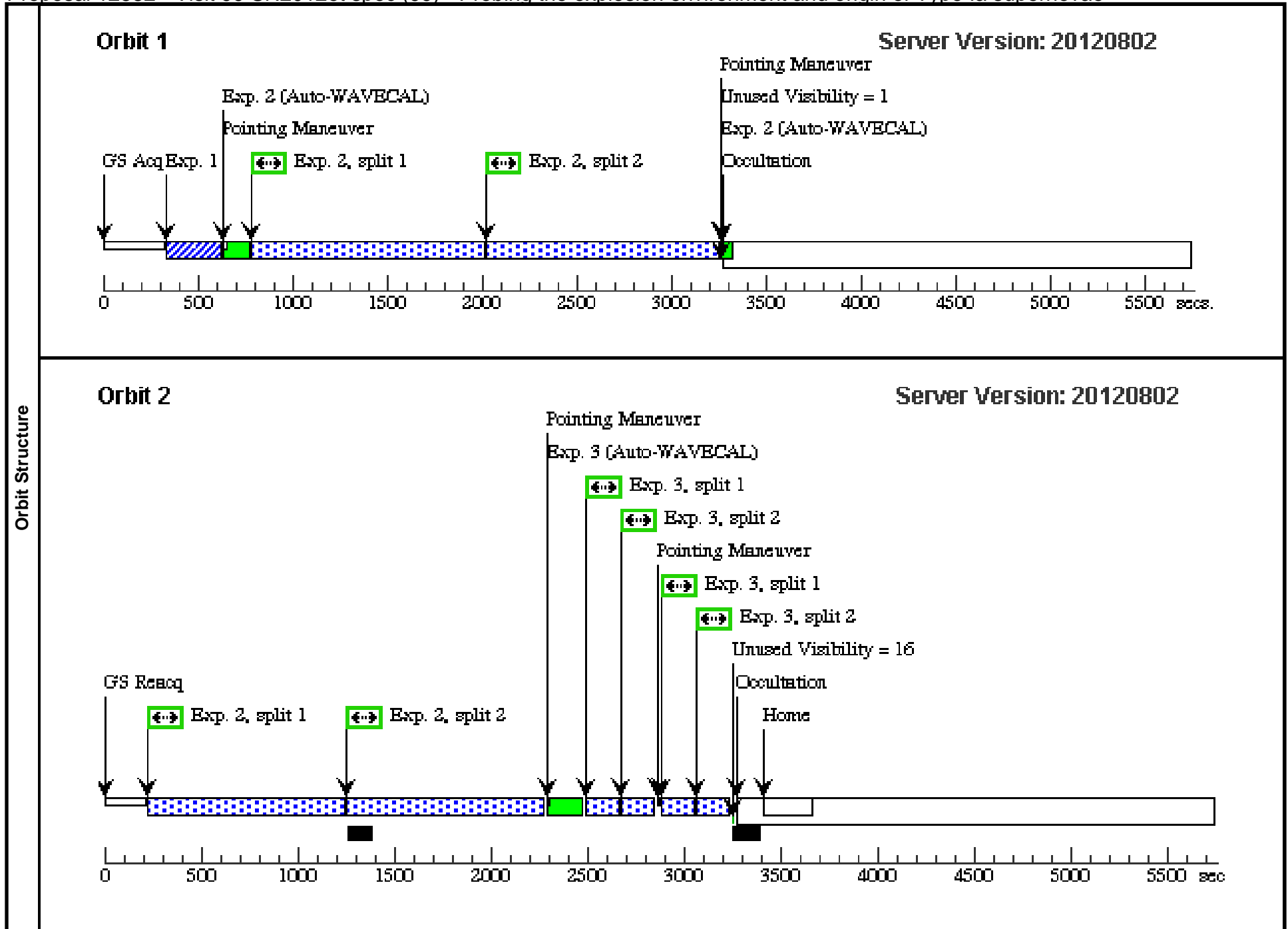
Visit	Proposal 12582, Visit 95 SN2012et spec (95), scheduled Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: BEFORE 03-OCT-2012:00:00:00: VISIBILITY INTERVAL 54.5 M									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(8)	Pattern Type=STIS-ALONG-SLIT Purpose=DITHER Number Of Points=2 Point Spacing=0.35 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=false	(2), (3)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	SN2012ET	RA: 23 42 38.8200 (355.6617500d) Dec: +27 05 31.50 (27.09208d) Equinox: J2000		V=15.5+/-1.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	TargetAcquisition J2532	(12) SN2012ET	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT	GS ACQ SCENARIO BASE1B3		15 Secs [==>]	[1]
	2	Epoch 1 SN 2012et G230	(12) SN2012ET	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2		Pattern 8, Exps 2-2 in Visit 95 SN2012et spec (95) (8)	2000 Secs [==>1194.0 Secs (Pattern 1, Split 1)] [==>1194.0 Secs (Pattern 1, Split 2)]	[1]
									[==>988.0 Secs (Pattern 2, Split 1)] [==>988.0 Secs (Pattern 2, Split 2)]	[2]
3	Epoch SN2012et G430	(12) SN2012ET	STIS/CCD, ACCUM, 52X0.1E1	G430L 4300 A				Pattern 8, Exps 3-3 in Visit 95 SN2012et spec (95) (8)	300 Secs [==>138.0 Secs (Pattern 1, Split 1)] [==>138.0 Secs (Pattern 1, Split 2)] [==>138.0 Secs (Pattern 2, Split 1)] [==>138.0 Secs (Pattern 2, Split 2)]	[2]



Proposal 12582 - Visit 99 SN2012et spec (99) - Probing the explosion environment and origin of Type Ia supernovae

Fri Sep 21 01:05:56 GMT 2012

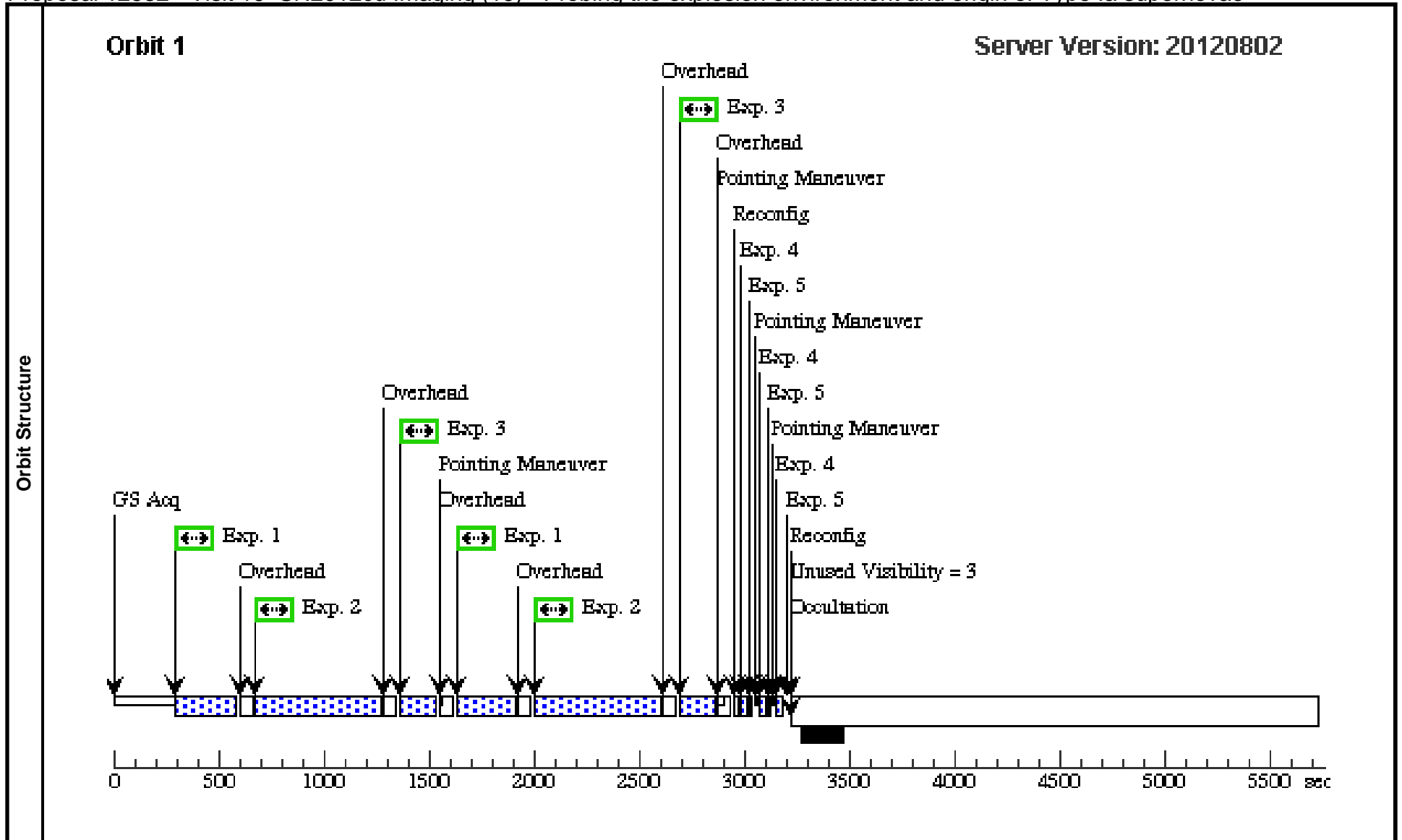
Visit	Proposal 12582, Visit 99 SN2012et spec (99), implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: BEFORE 03-OCT-2012:00:00:00: VISIBILITY INTERVAL 54.5 M									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(8)	Pattern Type=STIS-ALONG-SLIT Purpose=DITHER Number Of Points=2 Point Spacing=0.35 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=false		(2), (3)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	SN2012ET	RA: 23 42 38.8200 (355.6617500d) Dec: +27 05 31.50 (27.09208d) Equinox: J2000		V=15.5+/-1.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	TargetAcquisition J2532	(12) SN2012ET	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT	GS ACQ SCENARIO BASE1B3		15 Secs [==>]	[1]
	2	Epoch 1 SN 2012et G230	(12) SN2012ET	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2		Pattern 8, Exps 2-2 in Visit 99 SN2012et spec (99) (8)	2000 Secs [==>1194.0 Secs (Pattern 1, Split 1)] [==>1194.0 Secs (Pattern 1, Split 2)]	[1]
									[==>988.0 Secs (Pattern 2, Split 1)] [==>988.0 Secs (Pattern 2, Split 2)]	[2]
	3	Epoch SN2012et G430	(12) SN2012ET	STIS/CCD, ACCUM, 52X0.2E1	G430L 4300 A			Pattern 8, Exps 3-3 in Visit 99 SN2012et spec (99) (8)	300 Secs [==>138.0 Secs (Pattern 1, Split 1)] [==>138.0 Secs (Pattern 1, Split 2)] [==>138.0 Secs (Pattern 2, Split 1)] [==>138.0 Secs (Pattern 2, Split 2)]	[2]



Proposal 12582 - Visit 19 SN2012cu Imaging (19) - Probing the explosion environment and origin of Type Ia supernovae

Fri Sep 21 01:05:58 GMT 2012

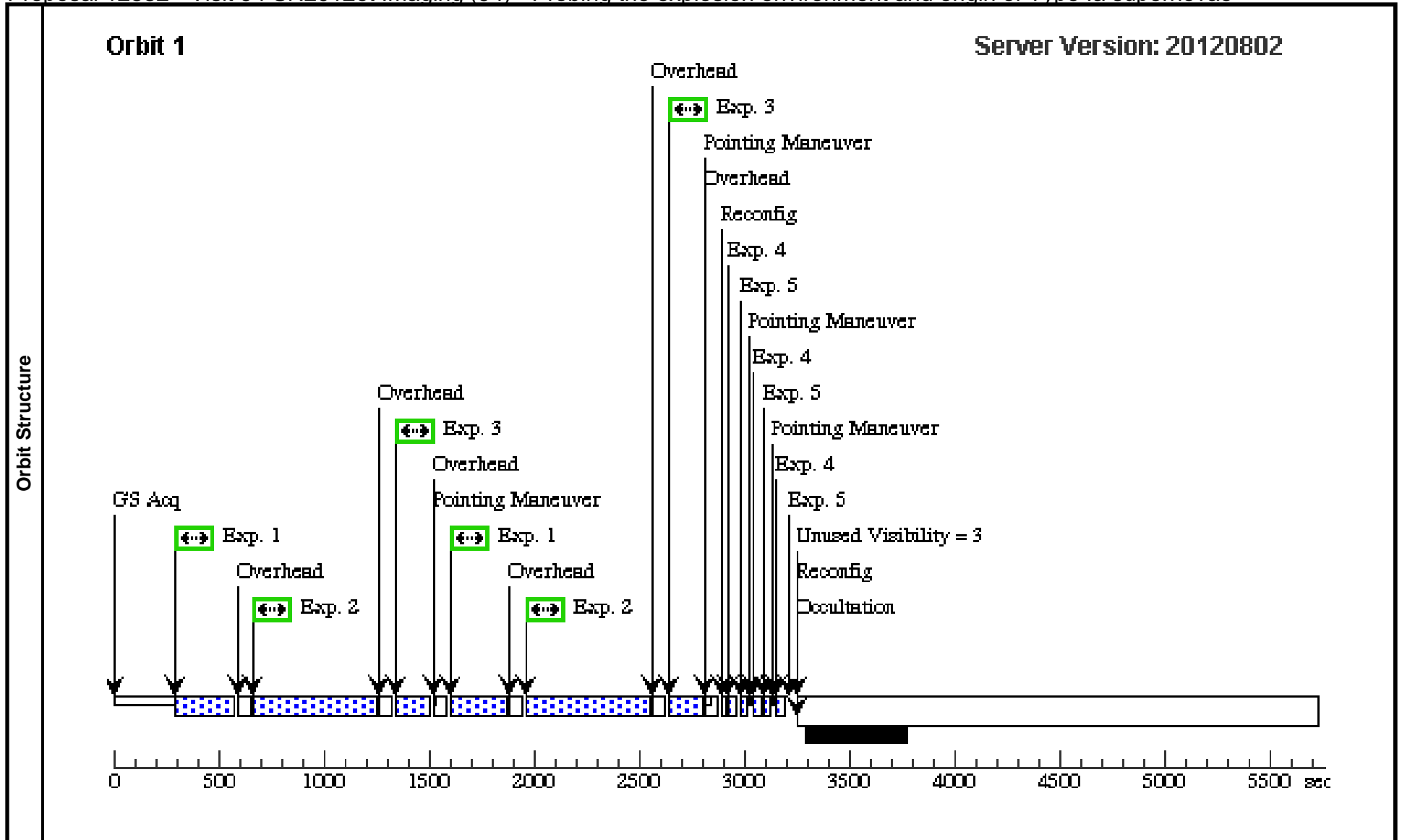
Visit	Proposal 12582, Visit 19 SN2012cu Imaging (19), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SAME ORIENT AS 17; AFTER 17 BY 5 D TO 9 D									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(6)	Pattern Type=WFC3-UVIS-DITHER-LINE 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		(1-3)						
	(7)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.636 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(4-5)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(11)	SN2012CU	RA: 12 53 29.3500 (193.3722917d) Dec: +02 09 39.00 (2.16083d) Equinox: J2000 Comments: <i>Fading SN B</i>		V=15.5+/-1.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Epoch 2 SN 2012cu 275	(11) SN2012CU	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W			Pattern 6, Exps 1-3 in Visit 19 SN2012cu Imaging (19) (6)	166 Secs [==>261.0 Secs (Pattern 1)] [==>261.0 Secs (Pattern 2)]	[1]
	2	Epoch 2 SN 2012cu 225	(11) SN2012CU	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F225W			Pattern 6, Exps 1-3 in Visit 19 SN2012cu Imaging (19) (6)	483 Secs [==>578.0 Secs (Pattern 1)] [==>578.0 Secs (Pattern 2)]	[1]
	3	Epoch 2 SN 2012cu 336	(11) SN2012CU	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F336W			Pattern 6, Exps 1-3 in Visit 19 SN2012cu Imaging (19) (6)	50 Secs [==>145.0 Secs (Pattern 1)] [==>145.0 Secs (Pattern 2)]	[1]
	4	Epoch 2 SN 2012cu F160W	(11) SN2012CU	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=1; SAMP-SEQ=RAPID		Pattern 7, Exps 4-5 in Visit 19 SN2012cu Imaging (19) (7)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
5	Epoch 2 SN 2012cu F125W	(11) SN2012CU	WFC3/IR, MULTIACCUM, IRSUB512	F125W	NSAMP=1; SAMP-SEQ=RAPID		Pattern 7, Exps 4-5 in Visit 19 SN2012cu Imaging (19) (7)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	



Proposal 12582 - Visit 94 SN2012et Imaging (94) - Probing the explosion environment and origin of Type Ia supernovae

Fri Sep 21 01:05:59 GMT 2012

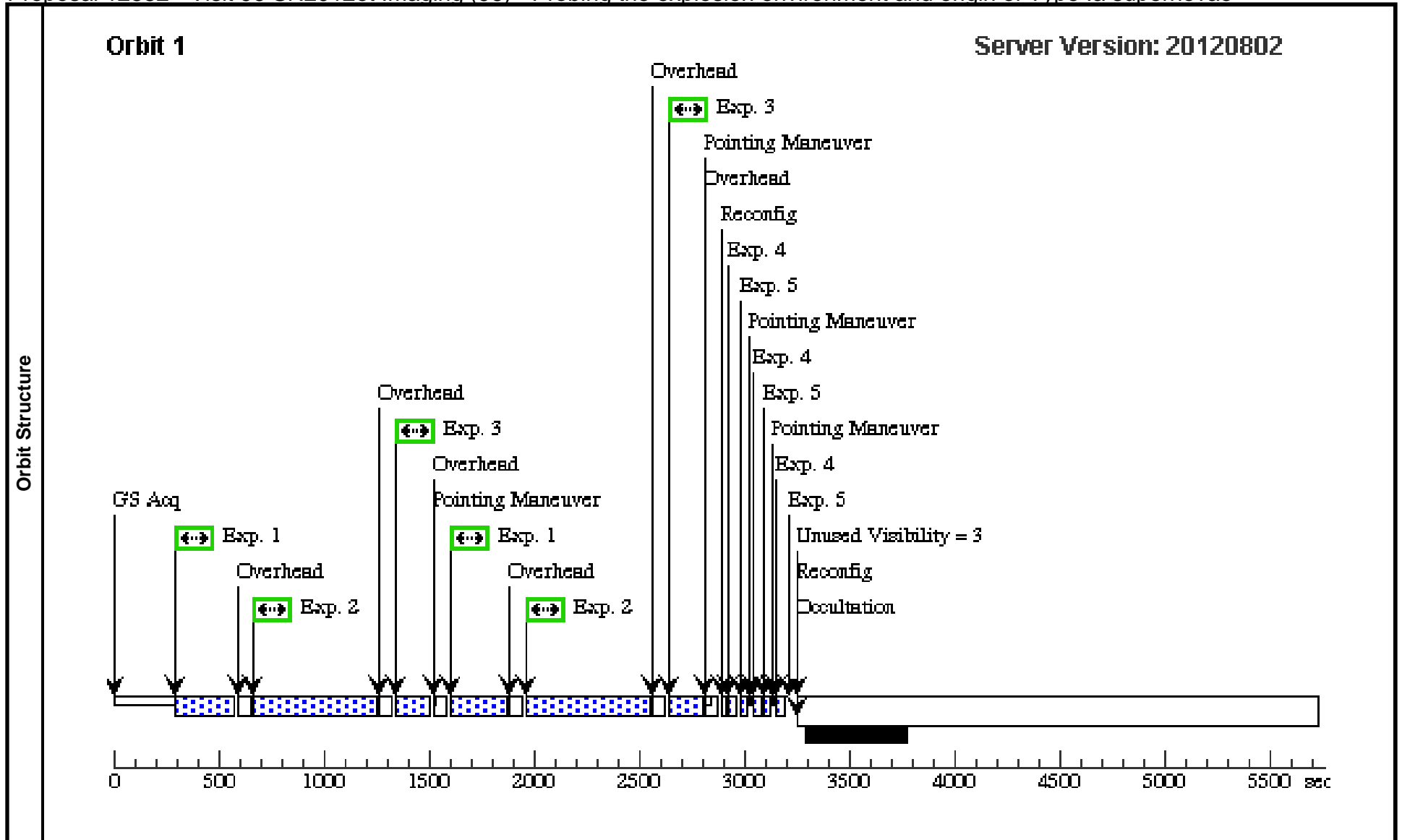
Visit	Proposal 12582, Visit 94 SN2012et Imaging (94), scheduled Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: ORIENT 125.7D TO 128.4 D; BEFORE 03-OCT-2012:00:00:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(6)	Pattern 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		(1-3)				
	(7)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(4-5)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	SN2012ET	RA: 23 42 38.8200 (355.6617500d) Dec: +27 05 31.50 (27.09208d) Equinox: J2000		V=15.5+/-1.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Epoch 1 SN 2012et 275	(12) SN2012ET	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W			Pattern 6, Exps 1-3 in Visit 94 SN2012et Imaging (94) (6)	166 Secs [==>251.0 Secs (Pattern 1)] [==>251.0 Secs (Pattern 2)]	[1]
	2	Epoch 1 SN 2012et 225	(12) SN2012ET	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F225W			Pattern 6, Exps 1-3 in Visit 94 SN2012et Imaging (94) (6)	483 Secs [==>568.0 Secs (Pattern 1)] [==>568.0 Secs (Pattern 2)]	[1]
	3	Epoch 1 SN 2012et 336	(12) SN2012ET	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F336W			Pattern 6, Exps 1-3 in Visit 94 SN2012et Imaging (94) (6)	50 Secs [==>135.0 Secs (Pattern 1)] [==>135.0 Secs (Pattern 2)]	[1]
	4	Epoch 1 SN 2012et F160 W	(12) SN2012ET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=2; SAMP-SEQ=SPAR S10		Pattern 7, Exps 4-5 in Visit 94 SN2012et Imaging (94) (7)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
5	Epoch 1 SN 2012et F125 W	(12) SN2012ET	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=2; SAMP-SEQ=SPAR S10		Pattern 7, Exps 4-5 in Visit 94 SN2012et Imaging (94) (7)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	



Proposal 12582 - Visit 96 SN2012et Imaging (96) - Probing the explosion environment and origin of Type Ia supernovae

Fri Sep 21 01:06:00 GMT 2012

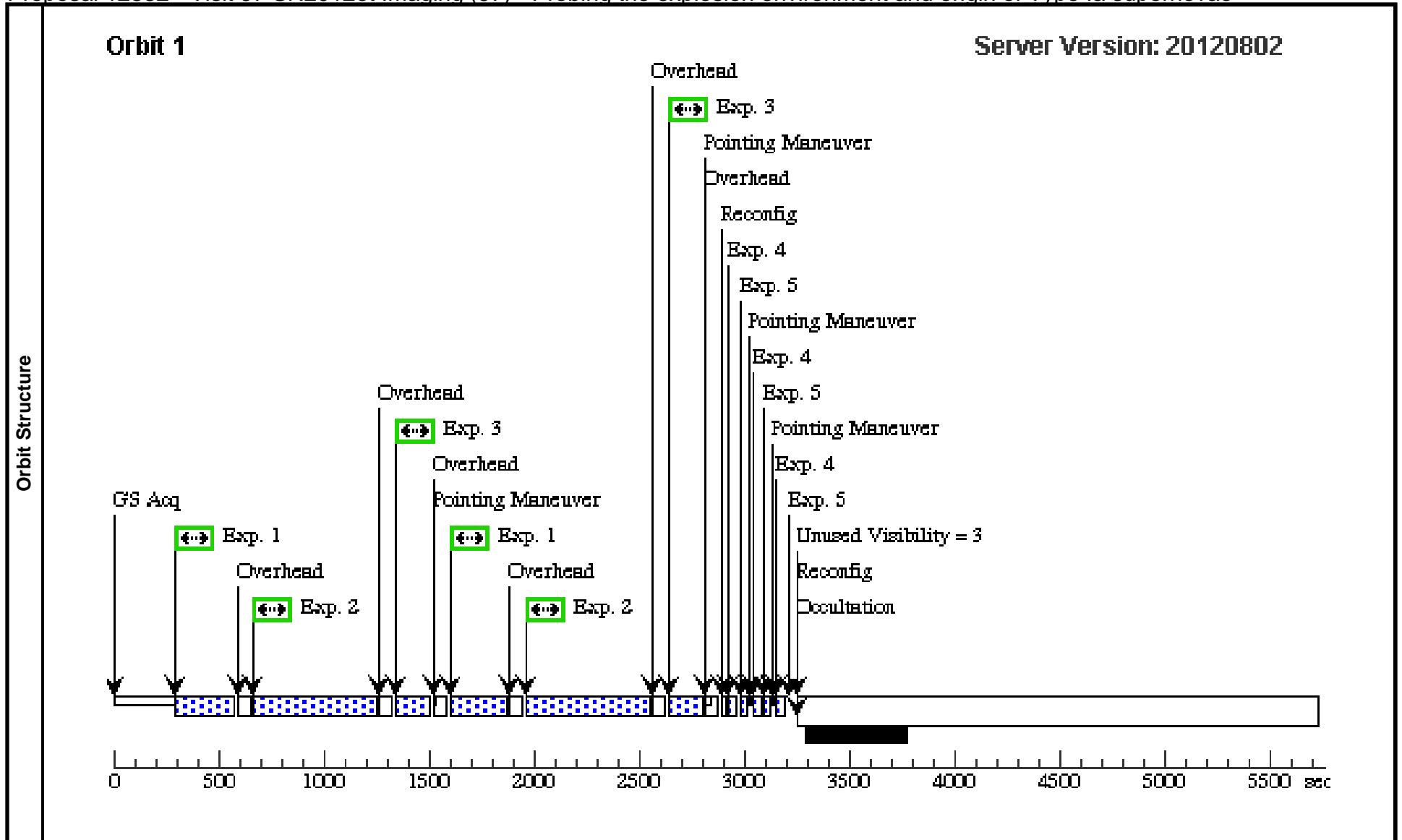
Visit	Proposal 12582, Visit 96 SN2012et Imaging (96), scheduled Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SAME ORIENT AS 94; AFTER 94 BY 4 D TO 6 D									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(6)	Pattern Type=WFC3-UVIS-DITHER-LINE 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		(1-3)						
	(7)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.636 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(4-5)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	SN2012ET	RA: 23 42 38.8200 (355.6617500d) Dec: +27 05 31.50 (27.09208d) Equinox: J2000		V=15.5+/-1.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Epoch 1 SN 2012et 275	(12) SN2012ET	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W			Pattern 6, Exps 1-3 in Visit 96 SN2012et Imaging (96) (6)	166 Secs [==>251.0 Secs (Pattern 1)] [==>251.0 Secs (Pattern 2)]	[1]
	2	Epoch 1 SN 2012et 225	(12) SN2012ET	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F225W			Pattern 6, Exps 1-3 in Visit 96 SN2012et Imaging (96) (6)	483 Secs [==>568.0 Secs (Pattern 1)] [==>568.0 Secs (Pattern 2)]	[1]
	3	Epoch 1 SN 2012et 336	(12) SN2012ET	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F336W			Pattern 6, Exps 1-3 in Visit 96 SN2012et Imaging (96) (6)	50 Secs [==>135.0 Secs (Pattern 1)] [==>135.0 Secs (Pattern 2)]	[1]
	4	Epoch 1 SN 2012et F160 W	(12) SN2012ET	WFC3/IR, MULTIACCUM, IR	F160W		NSAMP=2; SAMP-SEQ=SPAR S10		Pattern 7, Exps 4-5 in Visit 96 SN2012et Imaging (96) (7) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
5	Epoch 1 SN 2012et F125 W	(12) SN2012ET	WFC3/IR, MULTIACCUM, IR	F125W		NSAMP=2; SAMP-SEQ=SPAR S10		Pattern 7, Exps 4-5 in Visit 96 SN2012et Imaging (96) (7) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	



Proposal 12582 - Visit 97 SN2012et Imaging (97) - Probing the explosion environment and origin of Type Ia supernovae

Fri Sep 21 01:06:01 GMT 2012

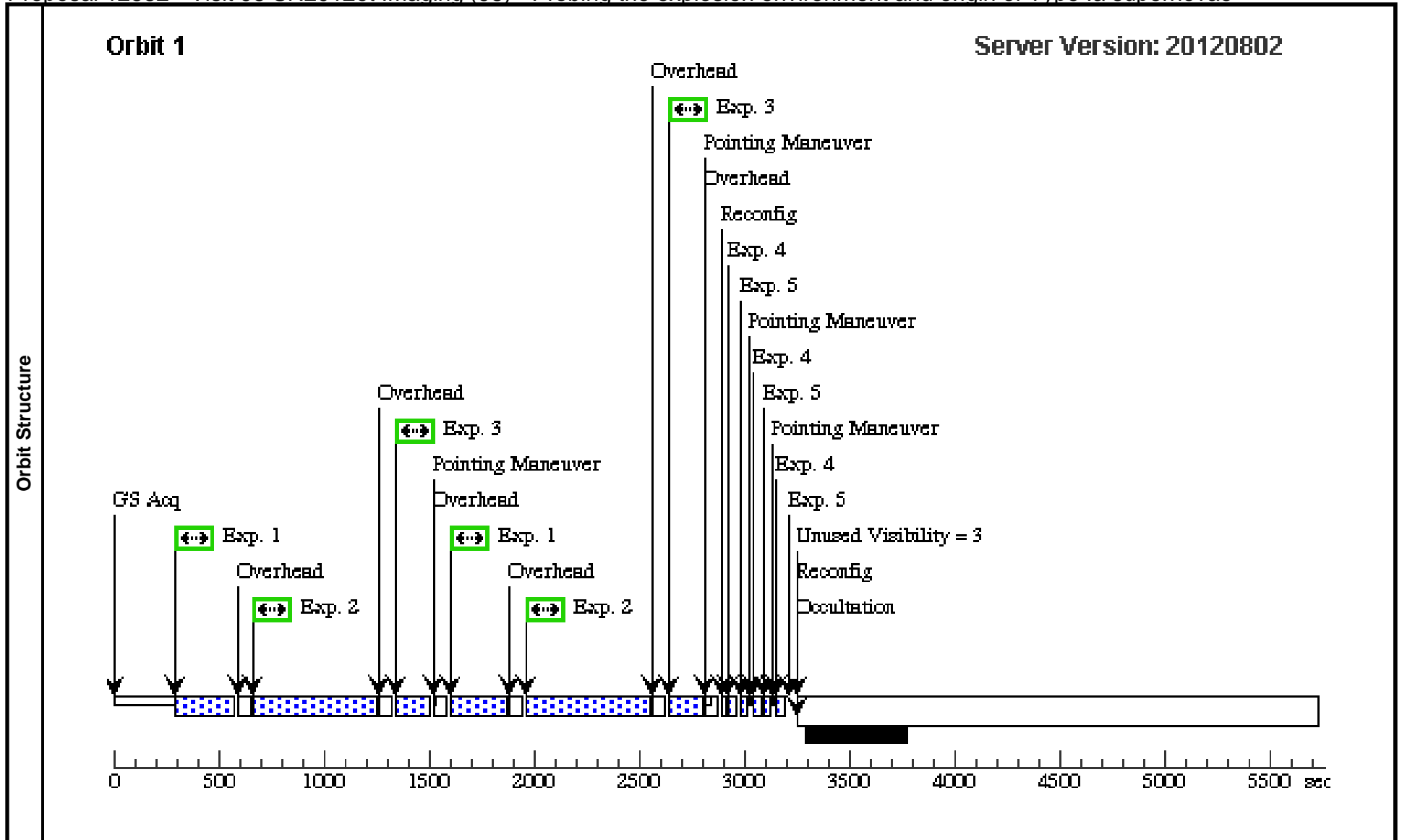
Visit	Proposal 12582, Visit 97 SN2012et Imaging (97), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SAME ORIENT AS 94; AFTER 96 BY 4 D TO 6 D									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(6)	Pattern Type=WFC3-UVIS-DITHER-LINE 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		(1-3)						
	(7)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.636 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(4-5)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	SN2012ET	RA: 23 42 38.8200 (355.6617500d) Dec: +27 05 31.50 (27.09208d) Equinox: J2000		V=15.5+/-1.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Epoch 1 SN 2012et 275	(12) SN2012ET	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W			Pattern 6, Exps 1-3 in Visit 97 SN2012et Imaging (97) (6)	166 Secs [==>251.0 Secs (Pattern 1)] [==>251.0 Secs (Pattern 2)]	[1]
	2	Epoch 1 SN 2012et 225	(12) SN2012ET	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F225W			Pattern 6, Exps 1-3 in Visit 97 SN2012et Imaging (97) (6)	483 Secs [==>568.0 Secs (Pattern 1)] [==>568.0 Secs (Pattern 2)]	[1]
	3	Epoch 1 SN 2012et 336	(12) SN2012ET	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F336W			Pattern 6, Exps 1-3 in Visit 97 SN2012et Imaging (97) (6)	50 Secs [==>135.0 Secs (Pattern 1)] [==>135.0 Secs (Pattern 2)]	[1]
	4	Epoch 1 SN 2012et F160 W	(12) SN2012ET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=2; SAMP-SEQ=SPAR S10		Pattern 7, Exps 4-5 in Visit 97 SN2012et Imaging (97) (7)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
5	Epoch 1 SN 2012et F125 W	(12) SN2012ET	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=2; SAMP-SEQ=SPAR S10		Pattern 7, Exps 4-5 in Visit 97 SN2012et Imaging (97) (7)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	



Proposal 12582 - Visit 98 SN2012et Imaging (98) - Probing the explosion environment and origin of Type Ia supernovae

Fri Sep 21 01:06:02 GMT 2012

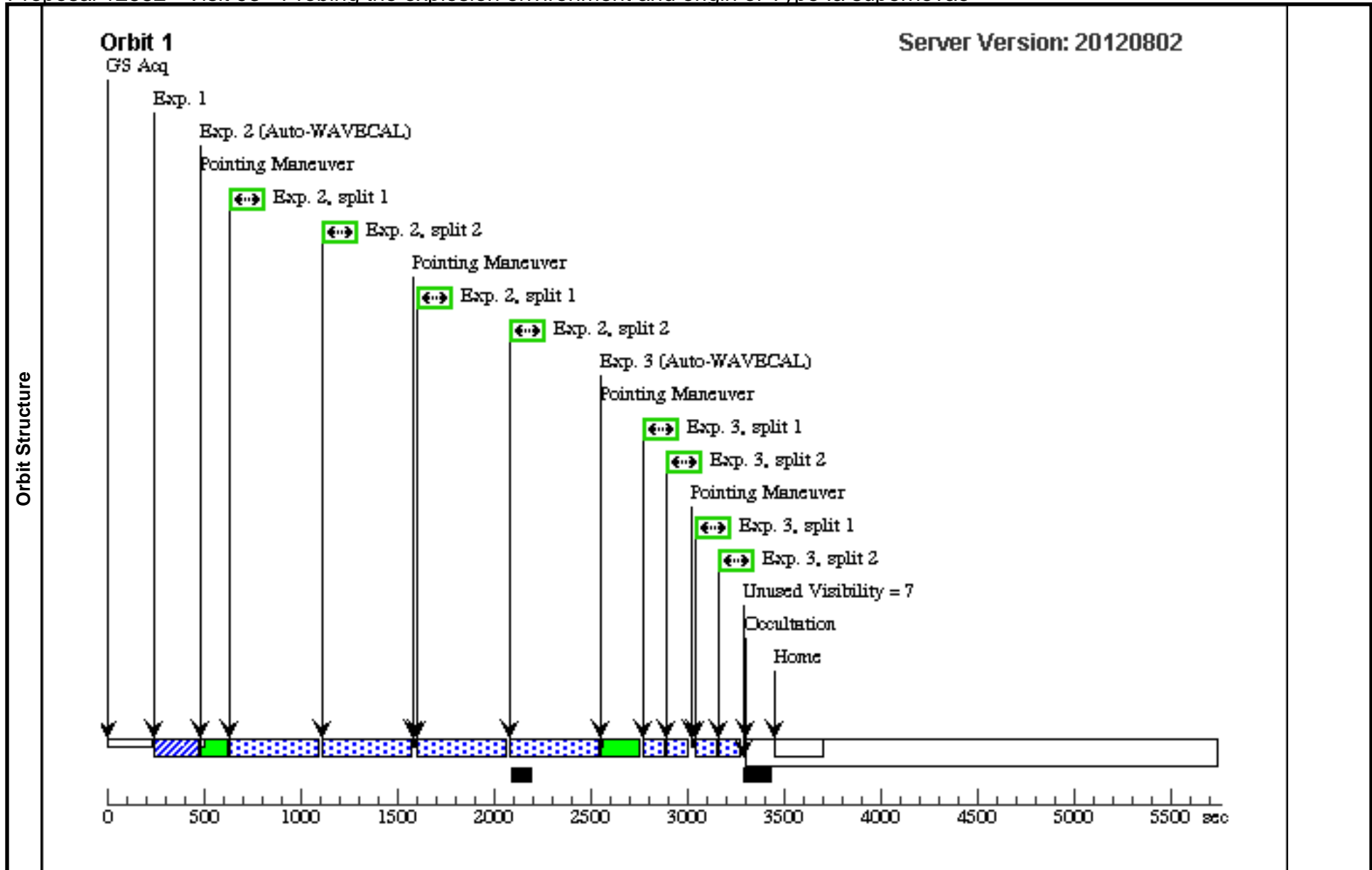
Visit	Proposal 12582, Visit 98 SN2012et Imaging (98), scheduling									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SAME ORIENT AS 94; AFTER 97 BY 4 D TO 6 D									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(6)	Pattern Type=WFC3-UVIS-DITHER-LINE 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		(1-3)						
(7)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.636 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(4-5)							
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	SN2012ET	RA: 23 42 38.8200 (355.6617500d) Dec: +27 05 31.50 (27.09208d) Equinox: J2000		V=15.5+/-1.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Epoch 1 SN 2012et 275	(12) SN2012ET	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F275W			Pattern 6, Exps 1-3 in Visit 98 SN2012et Imaging (98) (6)	166 Secs [==>251.0 Secs (Pattern 1)] [==>251.0 Secs (Pattern 2)]	[1]
	2	Epoch 1 SN 2012et 225	(12) SN2012ET	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F225W			Pattern 6, Exps 1-3 in Visit 98 SN2012et Imaging (98) (6)	483 Secs [==>568.0 Secs (Pattern 1)] [==>568.0 Secs (Pattern 2)]	[1]
	3	Epoch 1 SN 2012et 336	(12) SN2012ET	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F336W			Pattern 6, Exps 1-3 in Visit 98 SN2012et Imaging (98) (6)	50 Secs [==>135.0 Secs (Pattern 1)] [==>135.0 Secs (Pattern 2)]	[1]
	4	Epoch 1 SN 2012et F160 W	(12) SN2012ET	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=2; SAMP-SEQ=SPAR S10		Pattern 7, Exps 4-5 in Visit 98 SN2012et Imaging (98) (7)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
5	Epoch 1 SN 2012et F125 W	(12) SN2012ET	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=2; SAMP-SEQ=SPAR S10		Pattern 7, Exps 4-5 in Visit 98 SN2012et Imaging (98) (7)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	



Proposal 12582 - Visit 93 - Probing the explosion environment and origin of Type Ia supernovae

Fri Sep 21 01:06:03 GMT 2012

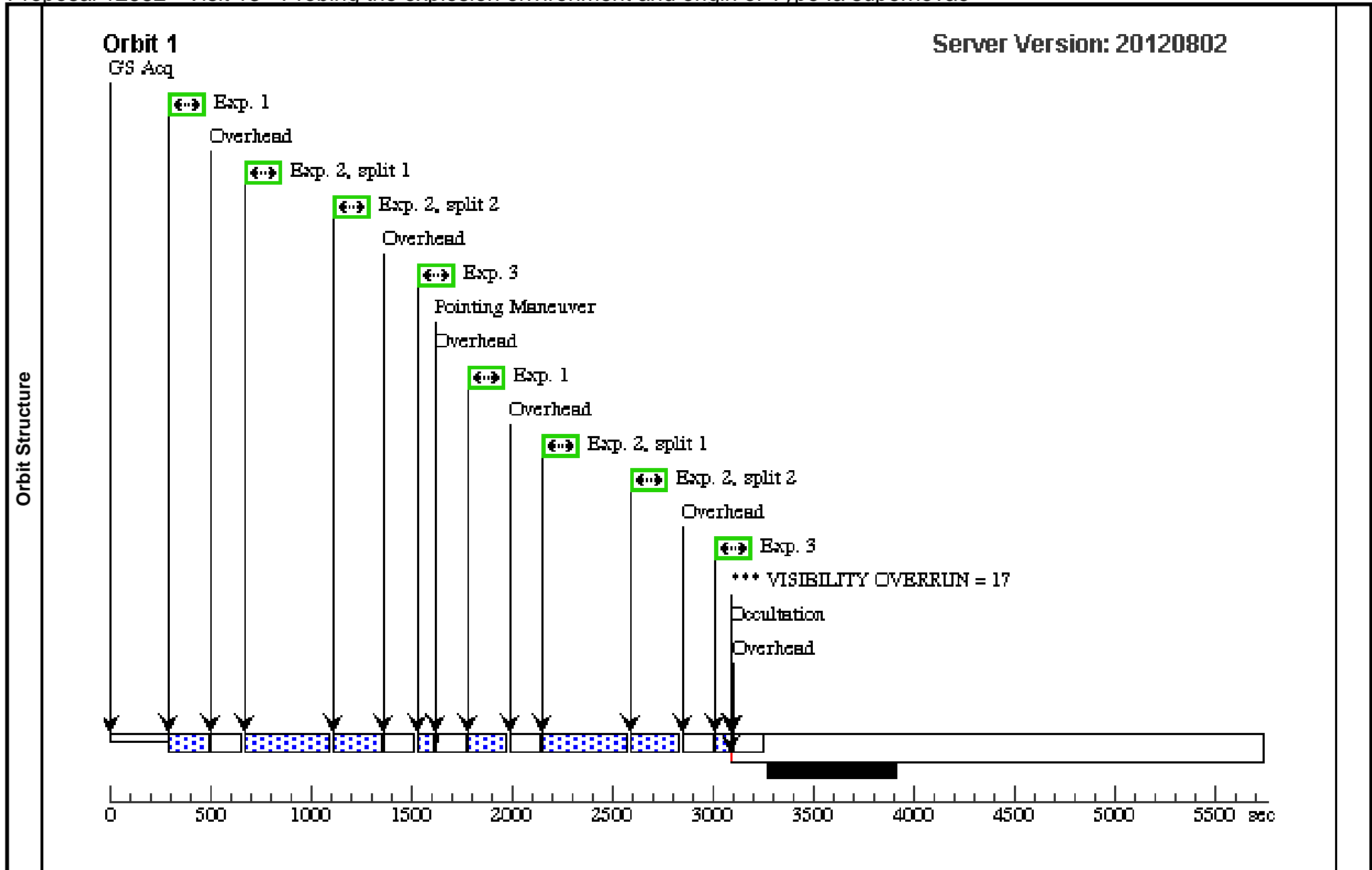
Visit	Proposal 12582, Visit 93, completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: SAME ORIENT AS 92; AFTER 92 BY 12 D TO 16 D; VISIBILITY INTERVAL 55.0 M									
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures
		(8)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG						
		Purpose=DITHER	Pattern Orientation=90.0							
		Number Of Points=2	Angle Between Sides=							
		Point Spacing=0.35	Center Pattern=false							
		Line Spacing=								
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(9)	SN2012CG	RA: 12 27 12.8160 (186.8034000d)	Dec: +09 25 13.06 (9.42029d)			V=12+/-1		Reference Frame: ICRS	
			Equinox: J2000							
		<i>Comments: Expect peak magnitude V~12, around June 4.</i>								
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	TargetAcquisition SN2012CG	(9) SN2012CG	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT	GS ACQ SCENARIO ONEB1B3		0.200 Secs [==>]	[1]
	2	Epoch 1 SN2012 CG spec	(9) SN2012CG	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=2		Pattern 8, Exps 2-2 in Visit 93 (8)	1000 Secs [==>428.0 Secs (Pattern 1, Split 1)] [==>428.0 Secs (Pattern 1, Split 2)] [==>428.0 Secs (Pattern 2, Split 1)] [==>428.0 Secs (Pattern 2, Split 2)]	[1]
	3		(9) SN2012CG	STIS/CCD, ACCUM, 52X0.1E1	G430L 4300 A			Pattern 8, Exps 3-3 in Visit 93 (8)	300 Secs [==>78.0 Secs (Pattern 1, Split 1)] [==>78.0 Secs (Pattern 1, Split 2)] [==>78.0 Secs (Pattern 2, Split 1)] [==>78.0 Secs (Pattern 2, Split 2)]	[1]



Proposal 12582 - Visit 13 - Probing the explosion environment and origin of Type Ia supernovae

Fri Sep 21 01:06:04 GMT 2012

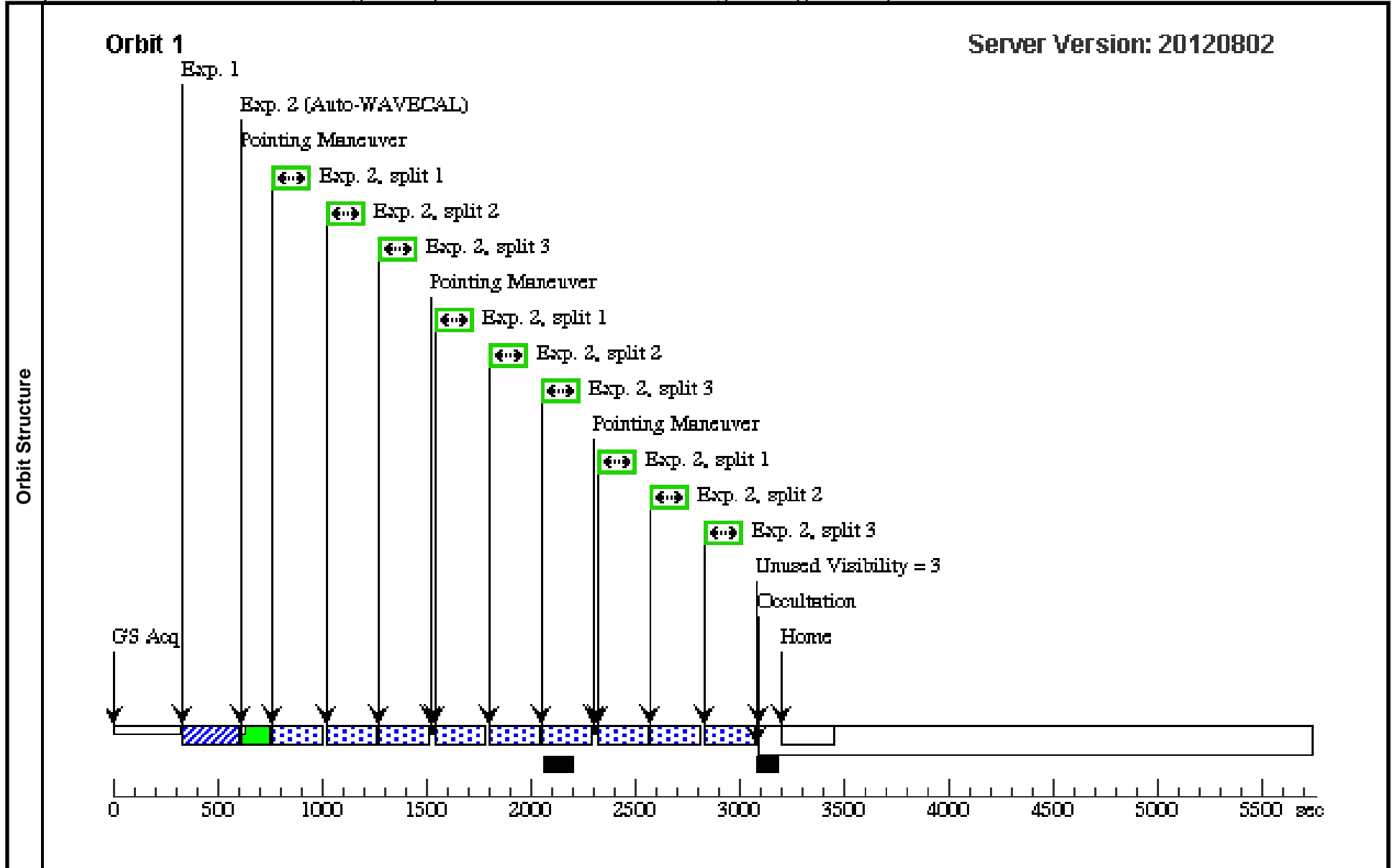
Visit	Proposal 12582, Visit 13, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BEFORE 11-JUN-2012:00:00:00; VISIBILITY INTERVAL 51.5 M									
	(Visit 13) Warning (Orbit Planner): VISIBILITY OVERRUN									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(6)	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		(1-3)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	PTF12ENA	RA: 13 47 1.7940 (206.7574750d) Dec: +33 53 34.98 (33.89305d) Equinox: J2000 Comments: Peak Magnitude		V=15+/-0.5	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Epoch 1 SN- FTF12ena 2 75	(10) PTF12ENA	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F275W		GS ACQ SCENARI O BASE1B3	Pattern 6, Exps 1-3 i n Visit 13 (6)	166 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	Epoch 1 SN- FTF12ena 2 25	(10) PTF12ENA	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F225W	CR-SPLIT=2		Pattern 6, Exps 1-3 i n Visit 13 (6)	483 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)]	[1]
	3	Epoch 1 SN- FTF12ena 3 36	(10) PTF12ENA	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F336W			Pattern 6, Exps 1-3 i n Visit 13 (6)	50 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 12582 - Visit 14 - Probing the explosion environment and origin of Type Ia supernovae

Fri Sep 21 01:06:05 GMT 2012

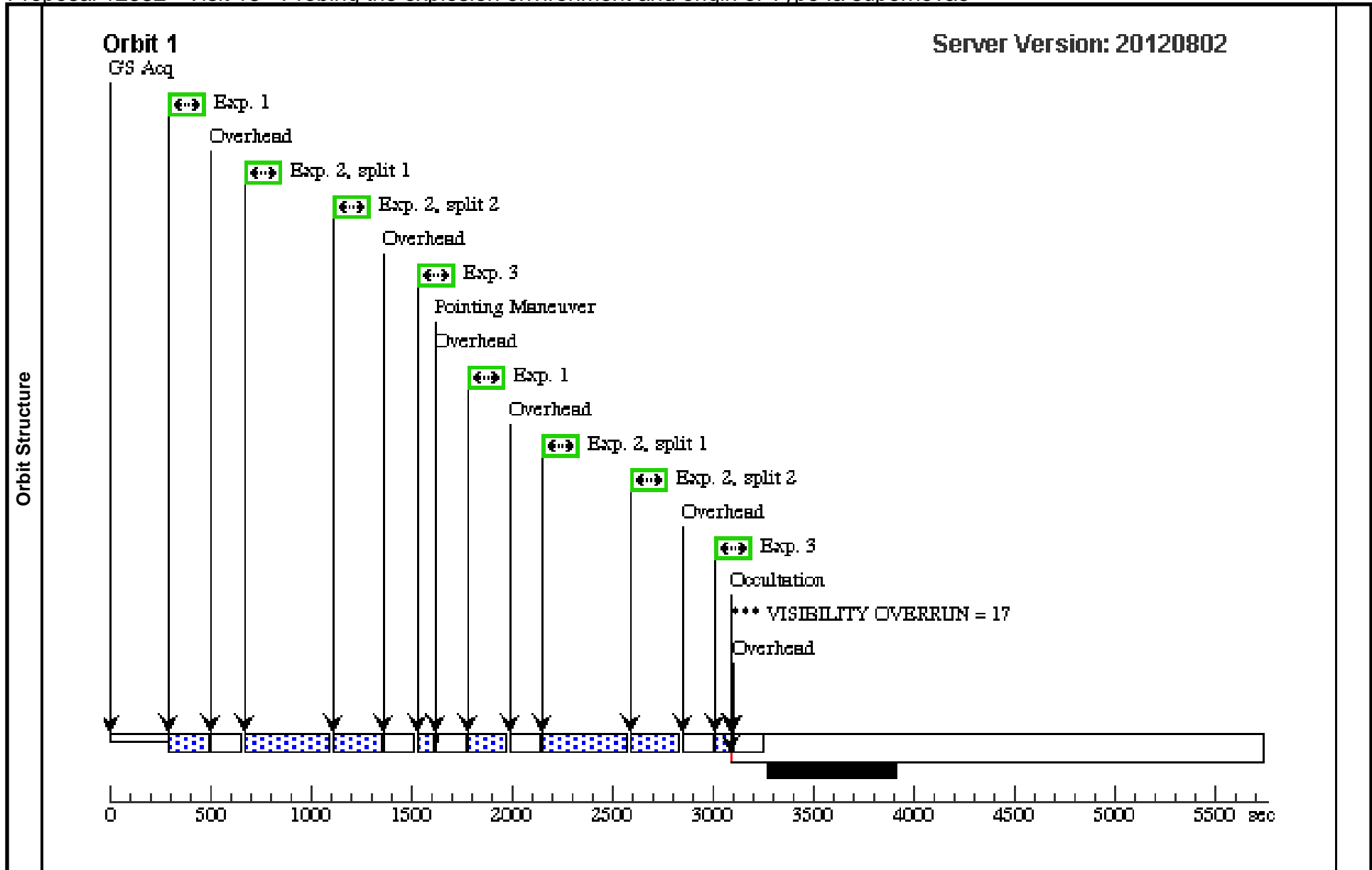
Visit	Proposal 12582, Visit 14, completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: BEFORE 11-JUN-2012:00:00:00; VISIBILITY INTERVAL 51.5 M									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(3)	Pattern Type=STIS-ALONG-SLIT Purpose=DITHER Number Of Points=3 Point Spacing=0.35 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=false		(2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	PTF12ENA	RA: 13 47 1.7940 (206.7574750d) Dec: +33 53 34.98 (33.89305d) Equinox: J2000 Comments: Peak Magnitude		V=15+/-0.5	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	TargetAcquisition FTF12ena	(10) PTF12ENA	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT	GS ACQ SCENARIO BASE1B3		10 Secs [==>]	[1]
2	Epoch 1 Epoch 1 SN-FT F12ena STIS	(10) PTF12ENA	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=3		Pattern 3, Exps 2-2 in Visit 14 (3)	648 Secs [==>207.0 Secs (Pattern 1, Split 1)] [==>207.0 Secs (Pattern 1, Split 2)] [==>207.0 Secs (Pattern 1, Split 3)] [==>207.0 Secs (Pattern 2, Split 1)] [==>207.0 Secs (Pattern 2, Split 2)] [==>207.0 Secs (Pattern 2, Split 3)] [==>207.0 Secs (Pattern 3, Split 1)] [==>207.0 Secs (Pattern 3, Split 2)] [==>207.0 Secs (Pattern 3, Split 3)]	[1]	



Proposal 12582 - Visit 15 - Probing the explosion environment and origin of Type Ia supernovae

Fri Sep 21 01:06:06 GMT 2012

Visit	Proposal 12582, Visit 15, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 13; AFTER 13 BY 12 D TO 16 D; VISIBILITY INTERVAL 51.5 M									
	(Visit 15) Warning (Orbit Planner): VISIBILITY OVERRUN									
Diagnosics										
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(6)	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			(1-3)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous		
	(10)	PTF12ENA	RA: 13 47 1.7940 (206.7574750d) Dec: +33 53 34.98 (33.89305d) Equinox: J2000				V=15+/-0.5	Reference Frame: ICRS		
<i>Comments: Peak Magnitude</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	Epoch 2 SN- FTF12ena 2 75	(10) PTF12ENA	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F275W		GS ACQ SCENARI O BASE1B3	Pattern 6, Exps 1-3 i n Visit 15 (6)	166 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	Epoch 2 SN- FTF12ena 2 25	(10) PTF12ENA	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F225W	CR-SPLIT=2		Pattern 6, Exps 1-3 i n Visit 15 (6)	483 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)]	[1]
	3	Epoch 2 SN- FTF12ena 3 36	(10) PTF12ENA	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F336W			Pattern 6, Exps 1-3 i n Visit 15 (6)	50 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 12582 - Visit 16 - Probing the explosion environment and origin of Type Ia supernovae

Fri Sep 21 01:06:07 GMT 2012

Visit	Proposal 12582, Visit 16, completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD Special Requirements: SAME ORIENT AS 14; AFTER 14 BY 12 D TO 16 D; VISIBILITY INTERVAL 51.5 M									
	(Visit 16) Warning (Orbit Planner): VISIBILITY OVERRUN									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern		Exposures					
	(3)	Pattern Type=STIS-ALONG-SLIT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=90.0 Number Of Points=3 Angle Between Sides= Point Spacing=0.35 Center Pattern=false Line Spacing=			(2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	PTF12ENA	RA: 13 47 1.7940 (206.7574750d) Dec: +33 53 34.98 (33.89305d) Equinox: J2000 <i>Comments: Peak Magnitude</i>		V=15+/-0.5	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	TargetAcquisition FTF12ena	(10) PTF12ENA	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=POINT	GS ACQ SCENARIO BASE1B3		10 Secs [==>]	[1]
	2	Epoch 2 SN-FTF12ena STIS	(10) PTF12ENA	STIS/CCD, ACCUM, 52X0.2E1	G230LB 2375 A	CR-SPLIT=3			Pattern 3, Exps 2-2 in Visit 16 (3) 648 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 1, Split 3)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 2, Split 3)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)] [==>(Pattern 3, Split 3)]	[1]

