



12231 - An Unprecedented Opportunity to Follow 4 Accreting WDs into the Instability Strip

Cycle: 18, Proposal Category: GO

(Availability Mode: AVAILABLE)

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	(1) GW-LIB	COS/FUV COS/NUV	2	27-Jul-2011 21:02:17.0	yes
1A	(1) GW-LIB	S/C	1	27-Jul-2011 21:02:19.0	yes
1B	(7) TARGET1-SAFE-TARGET	COS/FUV COS/NUV	2	27-Jul-2011 21:02:22.0	yes
02	(2) V455-AND	COS/FUV COS/NUV	2	27-Jul-2011 21:02:26.0	yes
2A	(2) V455-AND	S/C	1	27-Jul-2011 21:02:28.0	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>
2B	(8) TARGET2-SAFE-TARGET	COS/FUV COS/NUV	2	27-Jul-2011 21:02:30.0	yes
03	(3) SDSS0745+45	COS/FUV COS/NUV	2	27-Jul-2011 21:02:33.0	yes
3A	(3) SDSS0745+45	S/C	1	27-Jul-2011 21:02:35.0	yes
3B	(5) TARGET3-SAFE-TARGET	COS/FUV COS/NUV	2	27-Jul-2011 21:02:38.0	yes
04	(4) SDSS0804+51	COS/FUV COS/NUV	2	27-Jul-2011 21:02:41.0	yes
4A	(4) SDSS0804+51	S/C	1	27-Jul-2011 21:02:42.0	yes
4B	(6) TARGET4-SAFE-TARGET	COS/FUV COS/NUV	2	27-Jul-2011 21:02:45.0	yes

20 Total Orbits Used

ABSTRACT

While the accreting pulsating white dwarfs in dwarf novae systems only have outbursts recur on 20-30 yr timescales, 4 of the 13 known had outbursts in 2006-2007. The white dwarfs stopped pulsating, as the outburst heating caused them to move out of the instability strip. These outburst events give us the unprecedented opportunity to follow the emergence of the non-radial pulsations as they re-enter the strip. Unlike single white dwarfs, where cooling takes place on thousand year timescales, the cooling rates for white dwarfs following dwarf nova outbursts are only 3-5 yrs, with Cycle 18 ideally suited to catch this transition. Our past HST observations have shown that the UV is critical to a correct temperature determination (the white dwarf dominates over the disk emission in the UV and the Ly alpha turnover provides a crucial constraint) and mode identification (the UV/optical pulsation amplitude is typically 6-17 and indicative of low order modes). We propose to use COS in TIME-TAG mode to obtain the temperatures and UV pulsation amplitudes of the 4 post-outburst systems.

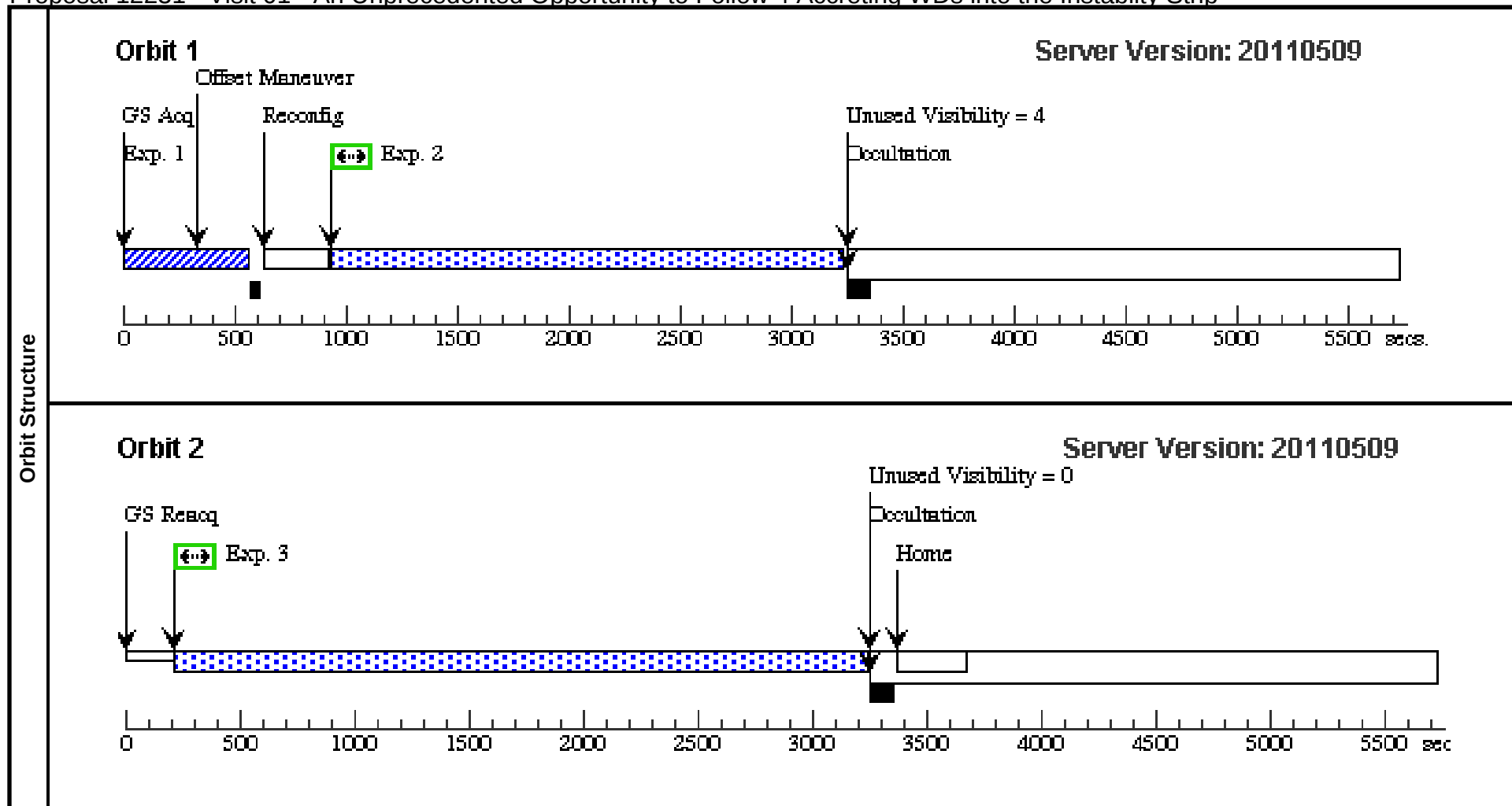
OBSERVING DESCRIPTION

Our primary goal is to obtain a summed spectrum with sufficient S/N to allow a temperature fit with models, with a secondary goal to obtain time-resolved light curves to detect or

constrain the UV pulsation amplitude. We plan to use 2 orbits on each of the 4 objects with COS and grating G140L. We expect the white dwarfs in the 4 objects to be between 11,000-15,000K (we know the quiescent temperatures of V455 And and GW Lib from prior HST observations and they may be somewhat hotter post outburst than pre-outburst). We used a Hubeny (1988) model white dwarf for 12,500K white dwarf at 100 pc as input to the COS ETC G140L (grating setting 1105). This provides a S/N of 22 per resolution element at 1500°A for 1 orbit. GW Lib is at a similar distance but has a hotter temperature so it will produce a higher S/N. We expect SDSSJ0745+45 will have a comparable (or hotter) temperature than GW Lib, but its distance is larger by a factor of 4, so the combined two orbits with some binning will be required to achieve a good temperature derivation. For V455 And, the temperature may be down to its quiescent value of 10,500K, in which case the two orbits will provide a good temperature determination. The previous quiescent observation with STIS was done during a snapshot program with only a short 700 sec observation that extended to 1700°A. The better sensitivity and longer redward wavelength coverage of COS is better suited to cooler white dwarfs. In addition, the short snapshot exposure did not allow the determination of the UV pulse amplitude. With COS, the pulse amplitude will be measurable if the amplitude is large (expected for low order modes). For GW Lib, the pulsation periods evident in UV and optical at quiescence were in the 230-650s range and the optical pulsation periods of V455 And are around 340 sec. If the white dwarf driving zones are hotter than pre-outburst, the periods are expected to be shorter than quiescence once they return. Thus, 2 HST orbits (about 80 min total time) with light curves created by summing the time-tag fluxes over several hundred °A and several minutes should be able to detect or place limits on the UV amplitudes. The planned continuation of our ground monitoring observations will be used to delineate the optical pulse periods and amplitudes in all cases.

Proposal 12231 - Visit 01 - An Unprecedented Opportunity to Follow 4 Accreting WDs into the Instability Strip

Visit	Proposal 12231, Visit 01, completed										Thu Jul 28 01:02:49 GMT 2011			
	Diagnostic Status: Warning													
	Scientific Instruments: COS/NUV, COS/FUV													
	Special Requirements: (none)													
Diagnos	(Visit 01) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.													
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous					
	(1)	GW-LIB	RA: 15 19 55.3270 (229.9805292d) Dec: -25 00 24.61 (-25.00684d) Equinox: J2000		Proper Motion RA: -0.00450 sec of time/yr Proper Motion Dec: 0.0278 arcsec/yr Parallax: 0.010" Epoch of Position: 2001.39		V=17.0+/-0.5 F-CONT(1700)=4.0E-15, F-LINE(1550)=9E-15, W-LINE(1550)=6		Reference Frame: ICRS					
	Comments: This objece is in the GSC2 catalog but published ICRS coords and pm by Thorstensen (2003) are used													
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit		
	1	GW-LIB	(1) GW-LIB	COS/NUV, ACQ/IMAGE, PSA		MIRRORB		USE OFFSET V01S AF		70.0 Secs [==>]		[1]		
	2	GW-LIB	(1) GW-LIB	COS/FUV, TIME-TAG, PSA		G140L 1105 A	BUFFER-TIME=21 28; FLASH=YES; FP-POS=1; SEGMENT=A	USE OFFSET V01S AF		2128.0 Secs [==>]		[1]		
	3		(1) GW-LIB	COS/FUV, TIME-TAG, PSA		G140L 1105 A	BUFFER-TIME=29 71.0; FLASH=YES; FP-POS=4; SEGMENT=A	USE OFFSET V01S AF		2971.0 Secs [==>]		[2]		

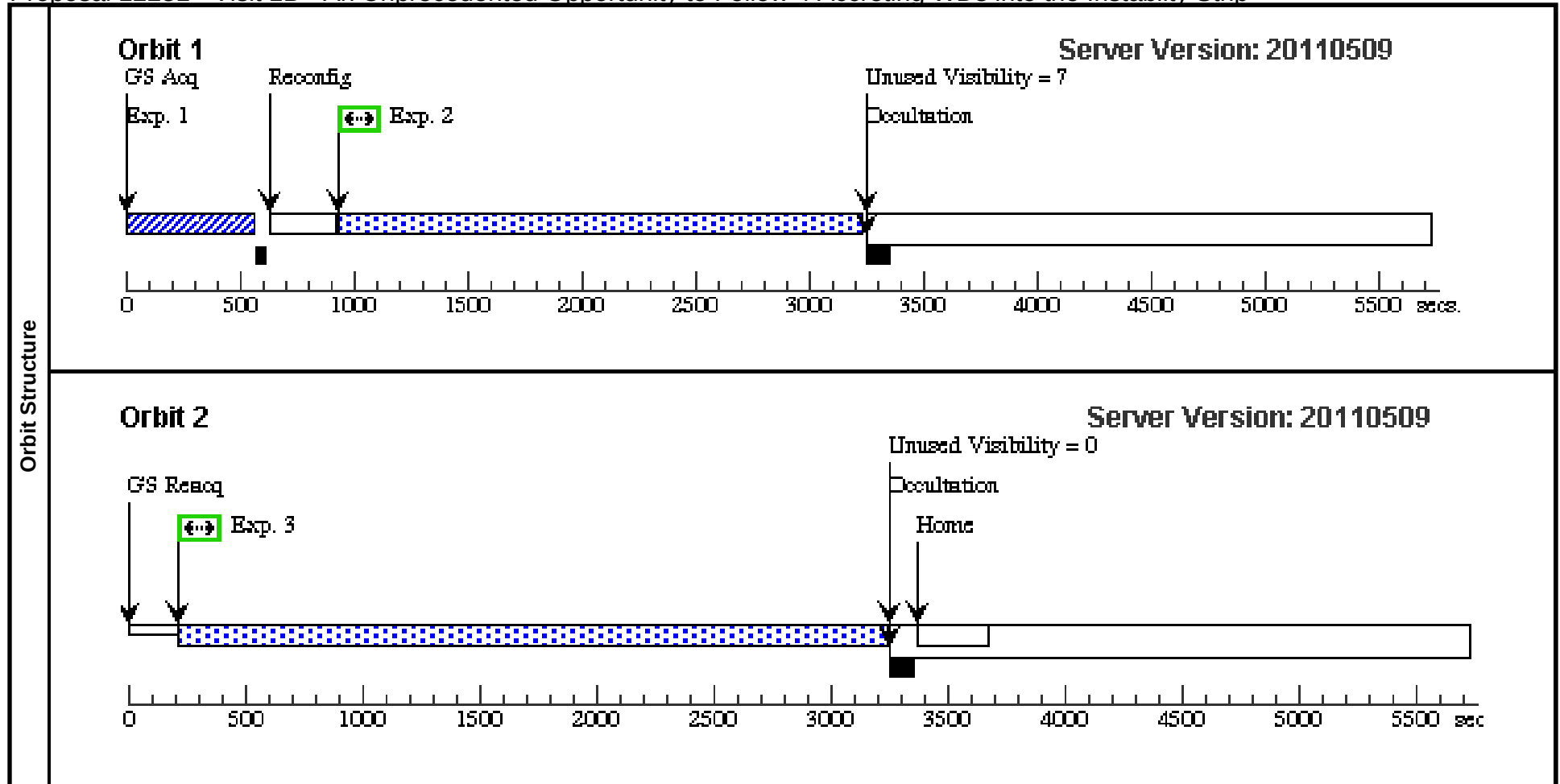


Proposal 12231 - Visit 1A - An Unprecedented Opportunity to Follow 4 Accreting WDs into the Instability Strip

Visit	Proposal 12231, Visit 1A, completed										Thu Jul 28 01:02:50 GMT 2011	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: S/C											
	Special Requirements: (none)											
Comments: This visit allocates and sets up the safe position offset slot for visit 01 which will use that slot.												
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous				
	(1)	GW-LIB	RA: 15 19 55.3270 (229.9805292d)	Proper Motion RA: -0.00450 sec of time/yr		V=17.0+/-0.5		Reference Frame: ICRS				
			Dec: -25 00 24.61 (-25.00684d)	Proper Motion Dec: 0.0278 arcsec/yr		F-CONT(1700)=4.0E-15,						
			Equinox: J2000	Parallax: 0.010"		F-LINE(1550)=9E-15,						
Epoch of Position: 2001.39												
W-LINE(1550)=6												
Comments: This objece is in the GSC2 catalog but published ICRS coords and pm by Thorstensen (2003) are used												
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit	
	1		(1) GW-LIB	S/C, DATA, V1			POS TARG 232.558, -237.541;		5 Secs			
							SAVE OFFSET V01		[>=>]			
							SAF;					
SPEC COM INSTR												
ECSLOTSET;												
GS ACQ SCENARI												
O BASE1B3;												
QESIPARM ANGL												
E 0.8;												
QESIPARM DIST 9.												
177												
[1]												
Orbit Structure	Orbit 1											Server Version: 20110509
	Exp. 1 GS Acq Unused Visibility = 2919 Occultation											
	05001000150020002500300035004000450050005500 sec											

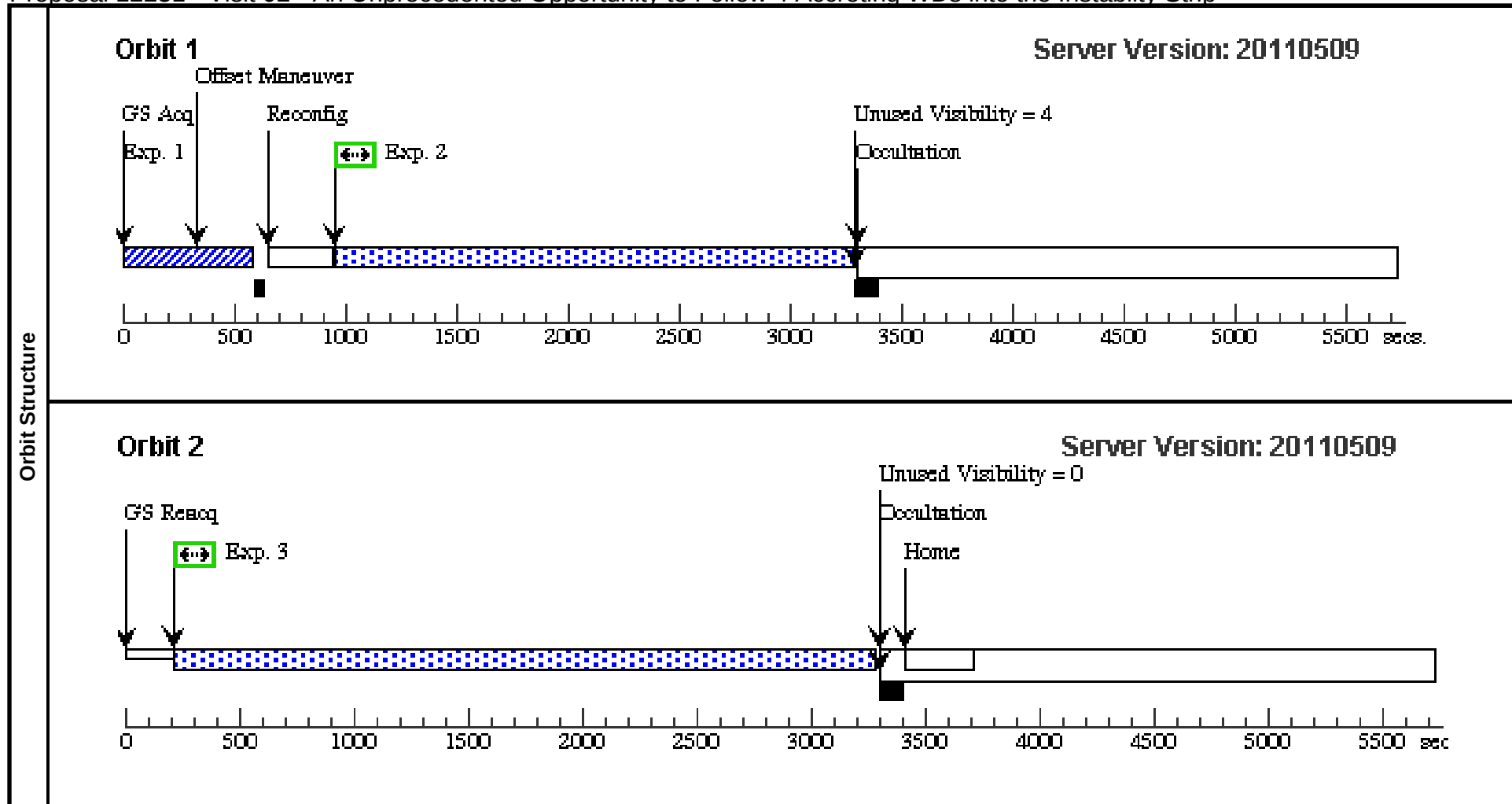
Proposal 12231 - Visit 1B - An Unprecedented Opportunity to Follow 4 Accreting WDs into the Instability Strip

Visit	Proposal 12231, Visit 1B, withdrawn						Thu Jul 28 01:02:50 GMT 2011			
	Diagnostic Status: Warning									
	Scientific Instruments: COS/NUV, COS/FUV									
	Special Requirements: (none)									
Comments: This visit is for BOP checking the "safe" target only and should not execute onboard HST.										
Diagnostics	(Visit 1B) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	GW-LIB	RA: 15 19 55.3270 (229.9805292d) Dec: -25 00 24.61 (-25.00684d) Equinox: J2000	Proper Motion RA: -0.00450 sec of time/yr Proper Motion Dec: 0.0278 arcsec/yr Parallax: 0.010" Epoch of Position: 2001.39	V=17.0+/-0.5 F-CONT(1700)=4.0E-15, F-LINE(1550)=9E-15, W-LINE(1550)=6	Reference Frame: ICRS				
	Comments: This objece is in the GSC2 catalog but published ICRS coords and pm by Thorstensen (2003) are used									
	(7)	TARGET1-SAFE-TARGET	Offset from GW-LIB by RA Offset: 0.0 Secs Dec Offset: 9.176 Arcsec		V=20	Offset Position (TARGET1-SAFE-TARGET) Reference Frame: ICRS				
Comments: This target is a blank piece of sky which is the bright object safe pointing and is 9.177 arcseconds away at a PA 0.8 degrees from Target #1.										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	TARGET1-SAFE-TARGET	(7) TARGET1-SAFE-TARGET	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				70.0 Secs	
									[==>]	[1]
	2	TARGET1-SAFE-TARGET	(7) TARGET1-SAFE-TARGET	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=21 28; FLASH=YES; FP-POS=1; SEGMENT=A			2128.0 Secs	
									[==>]	[1]
3	TARGET1-SAFE-TARGET	(7) TARGET1-SAFE-TARGET	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=29 71.0; FLASH=YES; FP-POS=4; SEGMENT=A			2971.0 Secs		
									[==>]	[2]



Proposal 12231 - Visit 02 - An Unprecedented Opportunity to Follow 4 Accreting WDs into the Instability Strip

Visit	Proposal 12231, Visit 02, implementation										Thu Jul 28 01:02:51 GMT 2011
	Diagnostic Status: Warning										
	Scientific Instruments: COS/NUV, COS/FUV										
	Special Requirements: (none)										
Diagnostics	(Visit 02) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(2)	V455-AND	RA: 23 34 1.4210 (353.5059208d) Dec: +39 21 40.22 (39.36117d) Equinox: J2000		Proper Motion RA: -0.00490 sec of time/yr Proper Motion Dec: -0.137 arcsec/yr Epoch of Position: 2004.86		V=16.5+/-0.5 F-CONT(1700)=4.0E-15, F-LINE(1550)=1.9E-14, W-LINE(1550)=13		Reference Frame: ICRS		
	Comments: Object is in GSC2 catalog but coords and pm from published values by Thorstensen in Araujo-Betancor et al. 2005										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	V455-AND	(2) V455-AND	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		USE OFFSET V02S AF		80.0 Secs [==>]	[1]	
	2	V455-AND	(2) V455-AND	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=21 52.0; FLASH=YES; FP-POS=1; SEGMENT=A	USE OFFSET V02S AF		2152.0 Secs [==>2152.0 Secs]	[1]	
	3	V455-AND	(2) V455-AND	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=30 15.0; FLASH=YES; FP-POS=4; SEGMENT=A	USE OFFSET V02S AF		3015.0 Secs [==>3015.0 Secs]	[2]	

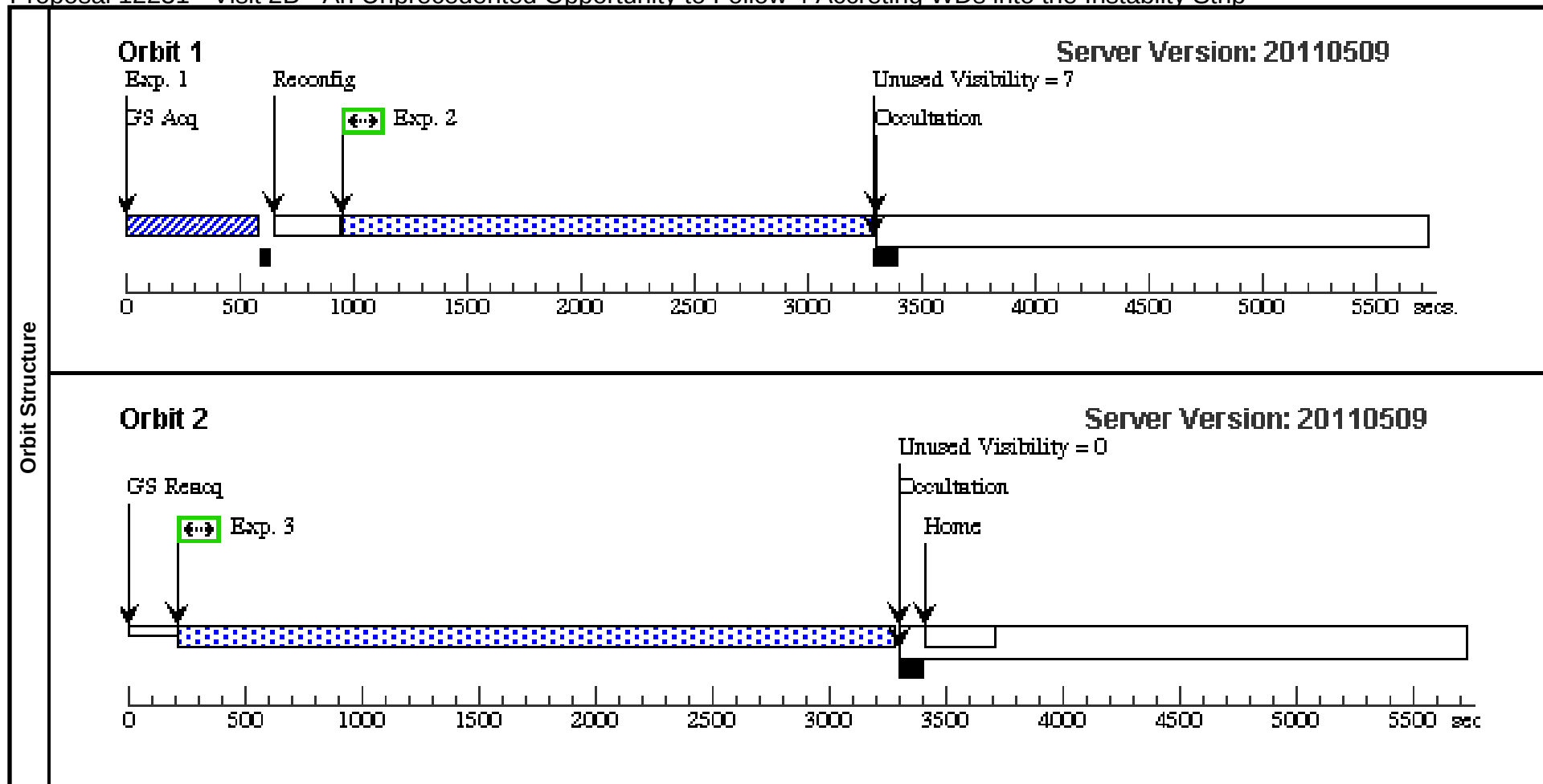


Proposal 12231 - Visit 2A - An Unprecedented Opportunity to Follow 4 Accreting WDs into the Instability Strip

Visit	Proposal 12231, Visit 2A										Thu Jul 28 01:02:51 GMT 2011	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: S/C											
	Special Requirements: (none)											
Comments: This visit allocates and sets up the safe position offset slot for visit 02 which will use that slot.												
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous						
	(2)	V455-AND	RA: 23 34 1.4210 (353.5059208d) Dec: +39 21 40.22 (39.36117d) Equinox: J2000	Proper Motion RA: -0.00490 sec of time/yr Proper Motion Dec: -0.137 arcsec/yr Epoch of Position: 2004.86	V=16.5+/-0.5 F-CONT(1700)=4.0E-15, F-LINE(1550)=1.9E-14, W-LINE(1550)=13	Reference Frame: ICRS						
	Comments: Object is in GSC2 catalog but coords and pm from published values by Thorstensen in Araujo-Betancor et al. 2005											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit		
	1		(2) V455-AND	S/C, DATA, V1			POS TARG 232.646, -237.445; SAVE OFFSET V02 SAF; SPEC COM INSTR ECSLOTSET; GS ACQ SCENARI O BASE1B3; QESIPARM ANGL E 271.4; QESIPARM DIST 9. 048		5 Secs [>=>]	[1]		
Orbit Structure	Orbit 1											Server Version: 20110509
	Exp. 1 GS Acq Unused Visibility = 2963											

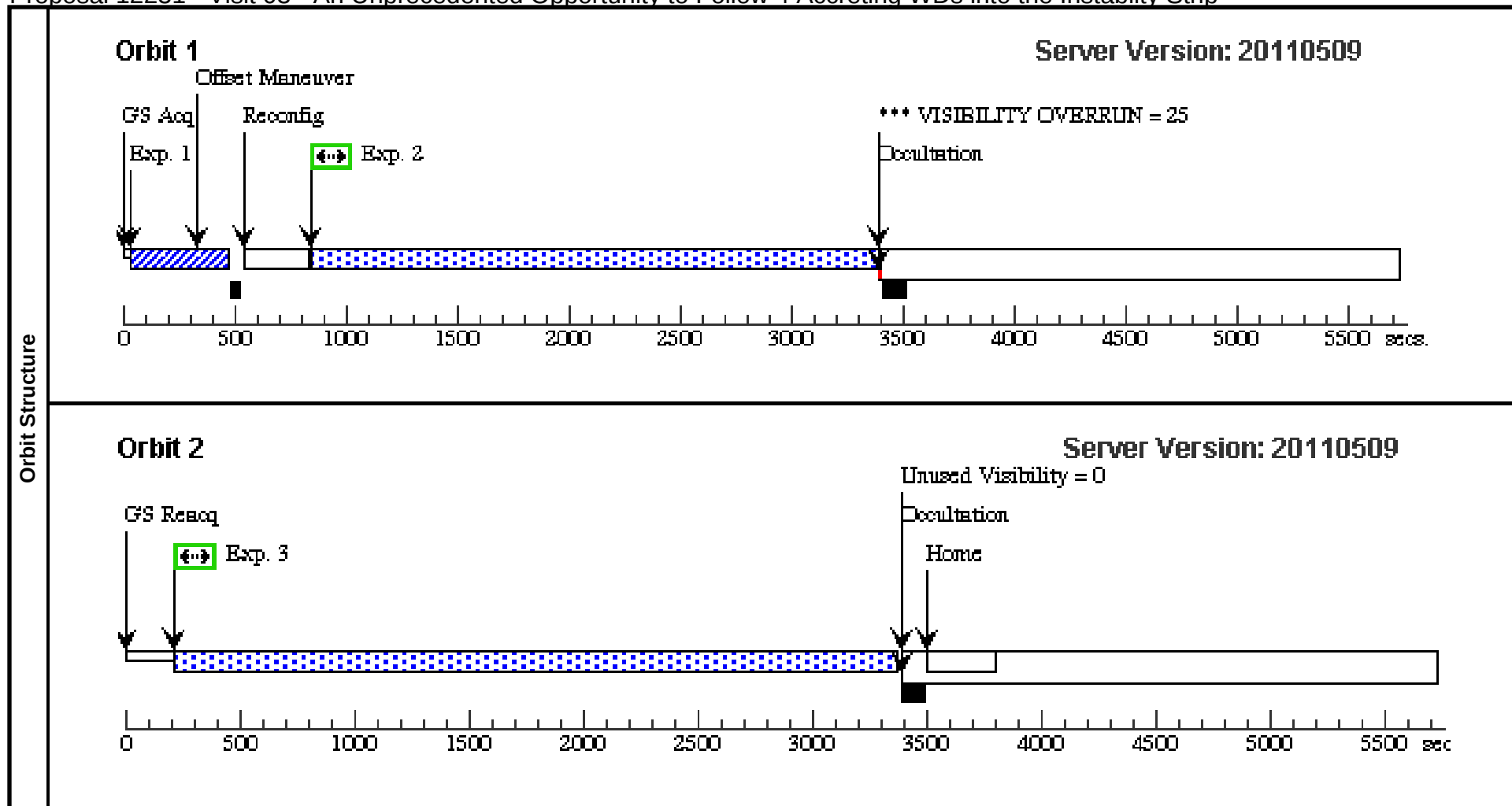
Proposal 12231 - Visit 2B - An Unprecedented Opportunity to Follow 4 Accreting WDs into the Instability Strip

Visit	Proposal 12231, Visit 2B										Thu Jul 28 01:02:51 GMT 2011	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/NUV, COS/FUV											
	Special Requirements: (none)											
Comments: This visit is for BOP checking the "safe" target only and should not execute onboard HST.												
Diagnostics	(Visit 2B) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(2)	V455-AND	RA: 23 34 1.4210 (353.5059208d) Dec: +39 21 40.22 (39.36117d) Equinox: J2000		Proper Motion RA: -0.00490 sec of time/yr Proper Motion Dec: -0.137 arcsec/yr Epoch of Position: 2004.86		V=16.5+/-0.5 F-CONT(1700)=4.0E-15, F-LINE(1550)=1.9E-14, W-LINE(1550)=13		Reference Frame: ICRS			
	Comments: Object is in GSC2 catalog but coords and pm from published values by Thorstensen in Araujo-Betancor et al. 2005											
	(8)	TARGET2-SAFE-TARGET	Offset from V455-AND by RA Offset: -0.77 Secs Dec Offset: 0.2215 Arcsec				V=20+/-1		Offset Position (TARGET2-SAFE-TARGET) Reference Frame: ICRS			
	Comments: This target is a blank piece of sky which is the bright object safe pointing and is 9.048 arcseconds away at a PA 271.4 from Tarqet #2.											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit	
	1	TARGET2-SAFE-TARGET	(8) TARGET2-SAFE-TARGET	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				80.0 Secs			
									[==>]		[1]	
	2	TARGET2-SAFE-TARGET	(8) TARGET2-SAFE-TARGET	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=21 52.0; FLASH=YES; FP-POS=1; SEGMENT=A			2152.0 Secs			
									[==>2152.0 Secs]		[1]	
3	TARGET2-SAFE-TARGET	(8) TARGET2-SAFE-TARGET	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=30 15.0; FLASH=YES; FP-POS=4; SEGMENT=A			3015.0 Secs				
								[==>3015.0 Secs]		[2]		



Proposal 12231 - Visit 03 - An Unprecedented Opportunity to Follow 4 Accreting WDs into the Instability Strip

Visit	Proposal 12231, Visit 03, completed										Thu Jul 28 01:02:52 GMT 2011	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/NUV, COS/FUV											
	Special Requirements: (none)											
Diagnostics	(Visit 03) Warning (Orbit Planner): VISIBILITY OVERRUN											
	(Visit 03) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.											
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(3)	SDSS0745+45	RA: 07 45 31.9200 (116.3830000d) Dec: +45 38 29.60 (45.64156d) Equinox: J2000					V=19.1+/-0.5 F-CONT(1700)=5.8E-16		Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1	SDSS0745	(3) SDSS0745+45	COS/NUV, ACQ/IMAGE, PSA		MIRRORA		USE OFFSET V03S AF		25.0 Secs [==>]		[1]
	2	SDSS0745	(3) SDSS0745+45	COS/FUV, TIME-TAG, PSA		G140L 1105 A	SEGMENT=A; BUFFER-TIME=23 81; FLASH=YES; FP-POS=1	USE OFFSET V03S AF		2381.0 Secs [==>]		[1]
	3	SDSS0745	(3) SDSS0745+45	COS/FUV, TIME-TAG, PSA		G140L 1105 A	SEGMENT=A; BUFFER-TIME=31 05; FLASH=YES; FP-POS=4	USE OFFSET V03S AF		3105.0 Secs [==>]		[2]

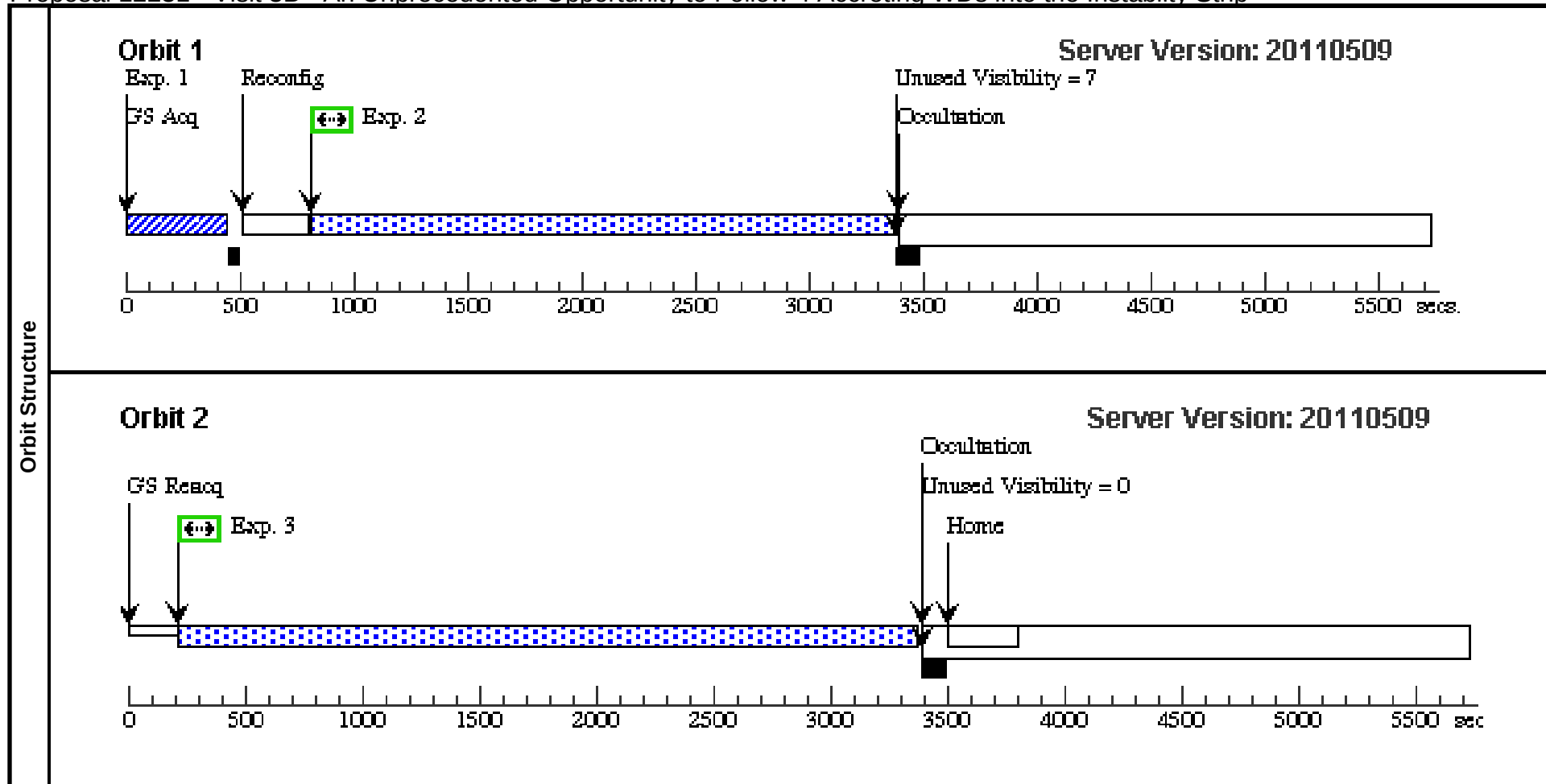


Proposal 12231 - Visit 3A - An Unprecedented Opportunity to Follow 4 Accreting WDs into the Instability Strip

Visit	Proposal 12231, Visit 3A, completed										Thu Jul 28 01:02:52 GMT 2011	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: S/C											
	Special Requirements: (none)											
Comments: This visit allocates and sets up the safe position offset slot for visit 03 which will use that slot.												
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(3)	SDSS0745+45	RA: 07 45 31.9200 (116.3830000d) Dec: +45 38 29.60 (45.64156d) Equinox: J2000				V=19.1+/-0.5 F-CONT(1700)=5.8E-16		Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit	
	1		(3) SDSS0745+45	S/C, DATA, V1			POS TARG 232.558, -237.541; SAVE OFFSET V03 SAF; SPEC COM INSTR ECSLOTSET; GS ACQ SCENARI O BASE1B3; QESIPARM ANGL E 165.1; QESIPARM DIST 9.752		5 Secs [==>]		[1]	
Orbit Structure	Orbit 1											Server Version: 20110509
	Exp. 1 GS Acq Unused Visibility = 3063 Occultation											

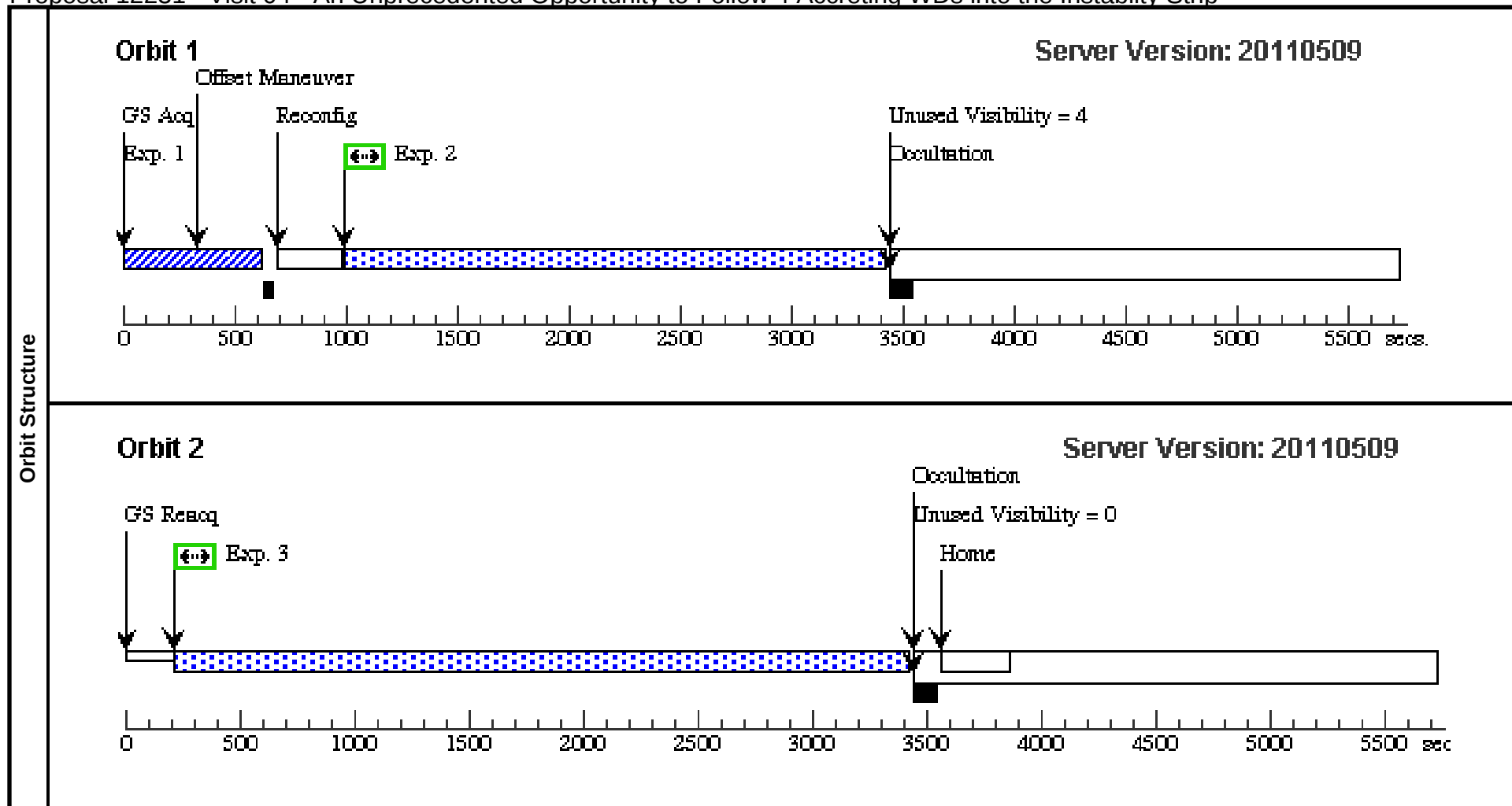
Proposal 12231 - Visit 3B - An Unprecedented Opportunity to Follow 4 Accreting WDs into the Instability Strip

Visit	Proposal 12231, Visit 3B, withdrawn										Thu Jul 28 01:02:52 GMT 2011
	Diagnostic Status: Warning										
	Scientific Instruments: COS/NUV, COS/FUV										
	Special Requirements: (none)										
Comments: This visit is for BOP checking the "safe" target only and should not execute onboard HST.											
Diagnostics	(Visit 3B) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes	Miscellaneous			
	(3)	SDSS0745+45	RA: 07 45 31.9200 (116.3830000d) Dec: +45 38 29.60 (45.64156d) Equinox: J2000				V=19.1+/-0.5 F-CONT(1700)=5.8E-16	Reference Frame: ICRS			
	(5)	TARGET3-SAFE-TARGET	Offset from SDSS0745+45 by RA Offset: 0.23 Secs Dec Offset: -9.426 Arcsec				V=20	Offset Position (TARGET3-SAFE-TARGET) Reference Frame: ICRS			
	Comments: This target is a blank piece of sky which is the bright object safe pointing and is 9.752 arcseconds away at a PA 165.1 degrees from Target #3.										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	TARGET3-SAFE-TARGET	(5) TARGET3-SAFE-TARGET	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				25.0 Secs [==>]	[1]	
	2	TARGET3-SAFE-TARGET	(5) TARGET3-SAFE-TARGET	COS/FUV, TIME-TAG, PSA	G140L 1105 A	SEGMENT=A; BUFFER-TIME=2381; FLASH=YES; FP-POS=1			2381.0 Secs [==>]	[1]	
	3	TARGET3-SAFE-TARGET	(5) TARGET3-SAFE-TARGET	COS/FUV, TIME-TAG, PSA	G140L 1105 A	SEGMENT=A; BUFFER-TIME=3105; FLASH=YES; FP-POS=4			3105.0 Secs [==>]	[2]	



Proposal 12231 - Visit 04 - An Unprecedented Opportunity to Follow 4 Accreting WDs into the Instability Strip

Visit	Proposal 12231, Visit 04, implementation Thu Jul 28 01:02:53 GMT 2011									
	Diagnostic Status: Warning Scientific Instruments: COS/NUV, COS/FUV Special Requirements: (none)									
Diagnostics	(Visit 04) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	SDSS0804+51	RA: 08 04 34.2000 (121.1425000d) Dec: +51 03 49.20 (51.06367d) Equinox: J2000		V=17.9+/-0.5 F-CONT(1700)=1.75E-15	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	SDSS0804	(4) SDSS0804+51	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		USE OFFSET V04S AF		100.0 Secs	
									[==>]	[1]
	2	SDSS0804	(4) SDSS0804+51	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 56.0; FLASH=YES; FP-POS=1; SEGMENT=A	USE OFFSET V04S AF		2256.0 Secs	
									[==>2256.0 Secs]	[1]
	3	SDSS0804	(4) SDSS0804+51	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=31 59.0; FLASH=YES; FP-POS=4; SEGMENT=A	USE OFFSET V04S AF		3159.0 Secs	
									[==>]	[2]



Proposal 12231 - Visit 4A - An Unprecedented Opportunity to Follow 4 Accreting WDs into the Instability Strip

Visit	Proposal 12231, Visit 4A, implementation										Thu Jul 28 01:02:53 GMT 2011
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: S/C										
	Special Requirements: (none)										
Comments: This visit allocates and sets up the safe position offset slot for visit 04 which will use that slot.											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous		
	(4)	SDSS0804+51	RA: 08 04 34.2000 (121.1425000d) Dec: +51 03 49.20 (51.06367d) Equinox: J2000				V=17.9+/-0.5 F-CONT(1700)=1.75E-15		Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(4) SDSS0804+51	S/C, DATA, V1			POS TARG 232.646, -237.445; SAVE OFFSET V04 SAF; SPEC COM INSTR ECSLOTSET; GS ACQ SCENARI O BASE1B3; QESIPARM ANGL E 180.9; QESIPARM DIST 9.063		5 Secs [==>]		[1]
Orbit Structure	Orbit 1 Server Version: 20110509 Exp. 1 GS Acq Unused Visibility = 3107 Occultation										

Proposal 12231 - Visit 4B - An Unprecedented Opportunity to Follow 4 Accreting WDs into the Instability Strip

Visit	Proposal 12231, Visit 4B, implementation										Thu Jul 28 01:02:53 GMT 2011
	Diagnostic Status: Warning										
	Scientific Instruments: COS/NUV, COS/FUV										
	Special Requirements: (none)										
Comments: This visit is for BOP checking the "safe" target only and should not execute onboard HST.											
Diagnostics	(Visit 4B) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(4)	SDSS0804+51	RA: 08 04 34.2000 (121.1425000d) Dec: +51 03 49.20 (51.06367d) Equinox: J2000				V=17.9+/-0.5 F-CONT(1700)=1.75E-15		Reference Frame: ICRS		
	(6)	TARGET4-SAFE-TARGET	Offset from SDSS0804+51 by RA Offset: 0.01 Secs Dec Offset: -9.062 Arcsec				V=20		Offset Position (TARGET4-SAFE-TARGET) Reference Frame: ICRS		
	Comments: This target is a blank piece of sky which is the bright object safe pointing and is 9.063 arcseconds away at a PA 180.9 degrees from Target #4.										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1	TARGET4-SAFE-TARGET	(6) TARGET4-SAFE-TARGET	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				100.0 Secs		
									[==>]		[1]
	2	TARGET4-SAFE-TARGET	(6) TARGET4-SAFE-TARGET	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 56.0; FLASH=YES; FP-POS=1; SEGMENT=A			2256.0 Secs		
									[==>2256.0 Secs]		[1]
3	TARGET4-SAFE-TARGET	(6) TARGET4-SAFE-TARGET	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=31 59.0; FLASH=YES; FP-POS=4; SEGMENT=A			3159.0 Secs			
									[==>]		[2]

