



13724 - Pinpointing the Characteristics of Stars and Not Stars --- VERSION 2014.1021

Cycle: 22, 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	(1) LP349-025AB	WFC3/UVIS	1	22-Oct-2014 21:03:21.0	yes
02	(2) SCR0723-8015AB	WFC3/UVIS	1	22-Oct-2014 21:03:23.0	yes
03	(3) SCR0838-5855AB	WFC3/UVIS	1	22-Oct-2014 21:03:25.0	yes
04	(4) LHS2397A-AB	WFC3/UVIS	1	22-Oct-2014 21:03:26.0	yes
05	(5) DEN1454-6604AB	WFC3/UVIS	1	22-Oct-2014 21:03:27.0	yes
06	(6) LSR1610-0040AB	WFC3/UVIS	1	22-Oct-2014 21:03:29.0	yes
07	(7) 2MA1705-0516AB	WFC3/UVIS	1	22-Oct-2014 21:03:30.0	yes
08	(8) USN2101+0307AB	WFC3/UVIS	1	22-Oct-2014 21:03:31.0	yes
09	(9) 2MA2351-2537AB	WFC3/UVIS	1	22-Oct-2014 21:03:33.0	yes

9 Total Orbits Used

ABSTRACT

We propose to observe 9 binaries with HST-WFC3 to measure the optical fluxes of individual red and brown dwarfs bordering the transition region between stellar and substellar objects. The optical fluxes will be combined with infrared adaptive optics measurements to provide spectral energy distributions covering 0.5-2.2 microns, which includes more than 90% of the total fluxes for these objects. The separations and position angles will be used to convert our ground-based astrometry of the photocentric orbits into relative orbits with critical mass ratios that will then yield unprecedented mass measurements for each component. The 18 carefully characterized objects will comprise a fundamental set of standards that will stress-test theoretical models of the smallest stars and brown dwarfs for years to come. The results will be combined with our previous mass-luminosity relation work for stars with masses 0.10-0.60 Msun to extend our understanding of masses down to 0.05 Msun. We will then have a map covering a factor of more than 10 in mass for the most common objects in the Galaxy.

OBSERVING DESCRIPTION

Each of the nine binaries will be observed during a single HST orbit in five filters with WFC3-UVIS. For each binary, the goal is to obtain accurate counts for both the primary and secondary in each filter. Integration times have been chosen to be 50% of the anticipated saturation when possible, although for the faintest targets we do not have sufficient time in a single orbit to reach this level. We also wish to measure the separations and position angles of the binaries, so frames with both sources unsaturated are ideal. To increase the number of frames available for astrometry (and photometry), additional frames are included in F555W when they fit in a given orbit.

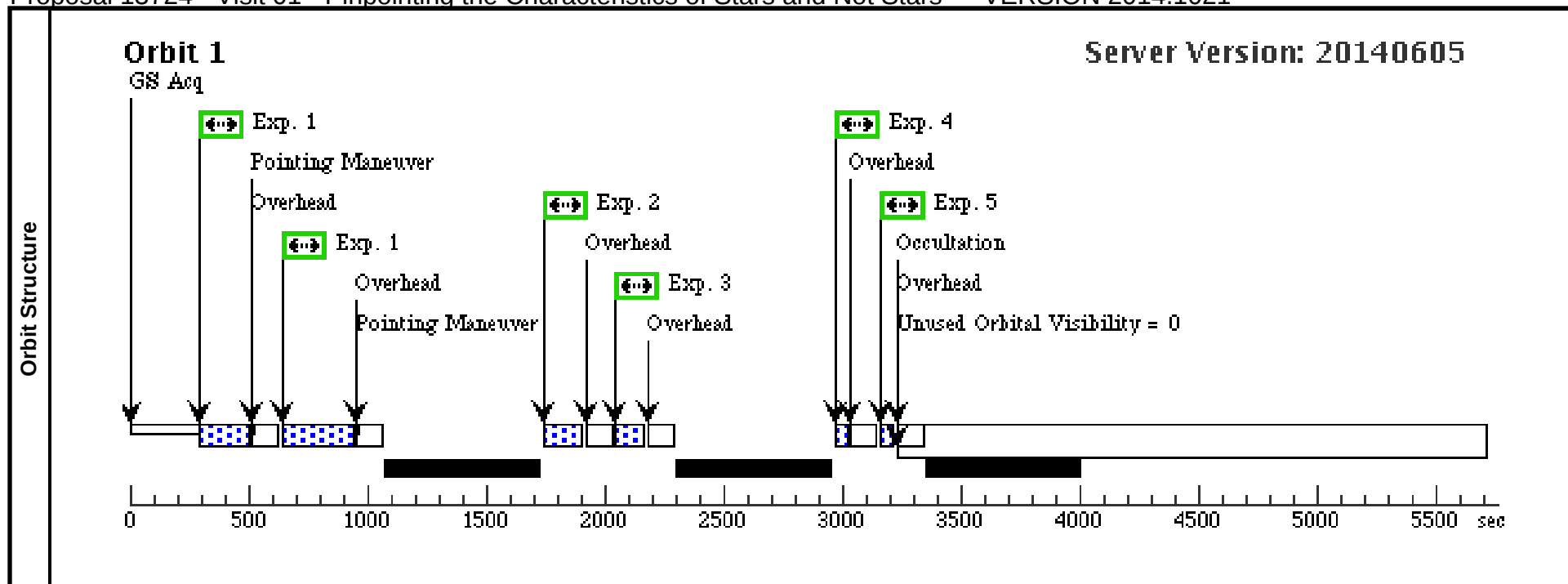
We have included post-flashes where needed to achieve the 12 e- readouts levels.

*** Ideally, the telescope would move a few arcseconds between exposures, but this was not included in the Phase II proposal at this time, as I was uncertain how to do that while simultaneously switching filters.

*** Neither Aladin nor the Target Confirmation buttons were working with my APT, but our astrometry is quite good for these targets, so we anticipate no problems.

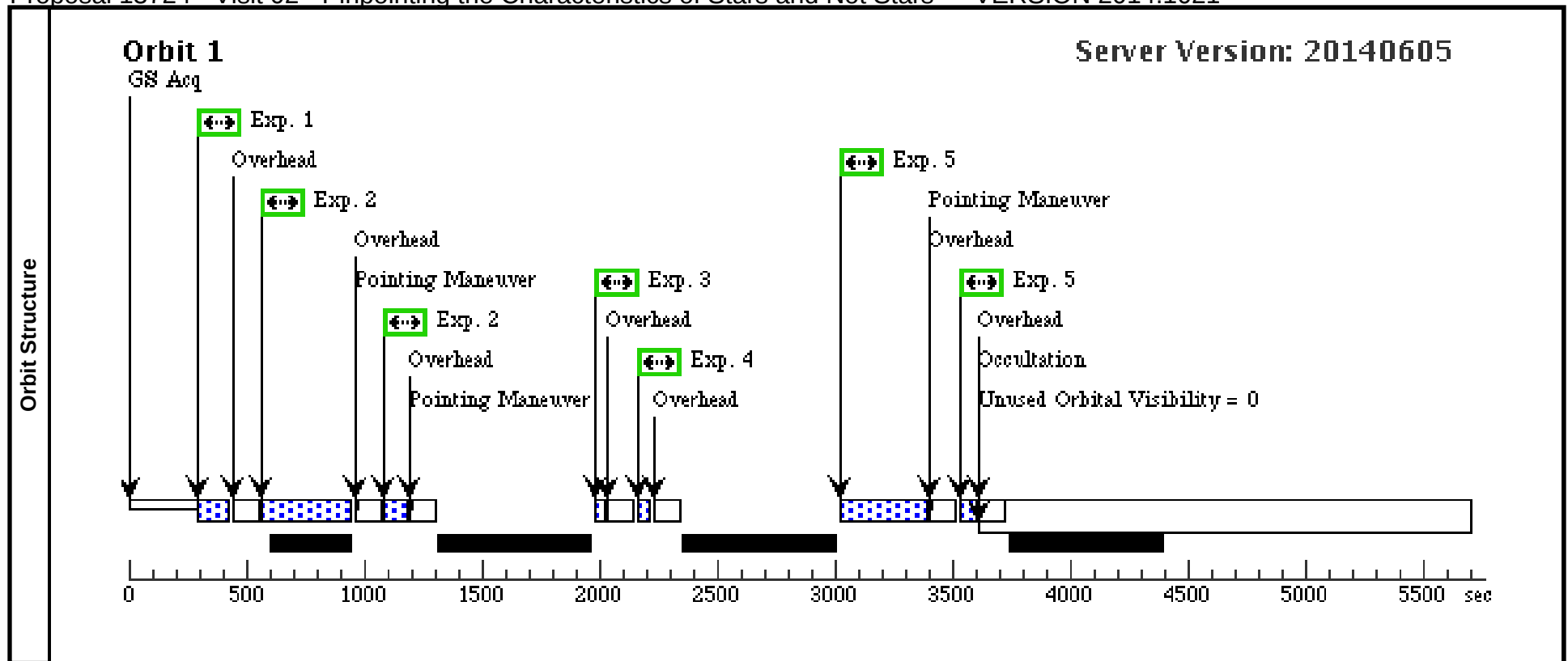
Proposal 13724 - Visit 01 - Pinpointing the Characteristics of Stars and Not Stars --- VERSION 2014.1021

Visit	Proposal 13724, Visit 01, implementation					Thu Oct 23 01:03:34 GMT 2014					
	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=5 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false				(1)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(1)	LP349-025AB	RA: 00 27 55.9900 (6.9832917d) Dec: +22 19 32.30 (22.32564d) Equinox: J2000		Proper Motion RA: 407.5 mas/yr Proper Motion Dec: -173.8 mas/yr Parallax: 0.06544" Epoch of Position: 2000.0		V=18.04+/-0.03 R=15.82 I=13.37		Reference Frame: ICRS		
	Comments: RECONS astrometry and photometry used.										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(1) LP349-025AB	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=6		Pattern 1, Exps 1-1 in Visit 01 (1)	178 Secs (480 Secs) [==>178.0 Secs (Pattern 1)] [==>302.0 Secs (Pattern 2)]		[1]
	Comments: 53% of anticipated saturation										
	2		(1) LP349-025AB	WFC3/UVIS, ACCUM, UVIS	F621M	FLASH=10			146 Secs (146 Secs) [==>]		[1]
	Comments: 53% of anticipated saturation										
	3		(1) LP349-025AB	WFC3/UVIS, ACCUM, UVIS	F689M	FLASH=11			100 Secs (100 Secs) [==>]		[1]
	Comments: 53% of anticipated saturation										
	4		(1) LP349-025AB	WFC3/UVIS, ACCUM, UVIS	F763M	FLASH=12			29 Secs (29 Secs) [==>]		[1]
	Comments: 54% of anticipated saturation										
	5		(1) LP349-025AB	WFC3/UVIS, ACCUM, UVIS	F845M	FLASH=12			31 Secs (31 Secs) [==>]		[1]
Comments: 54% of anticipated saturation											



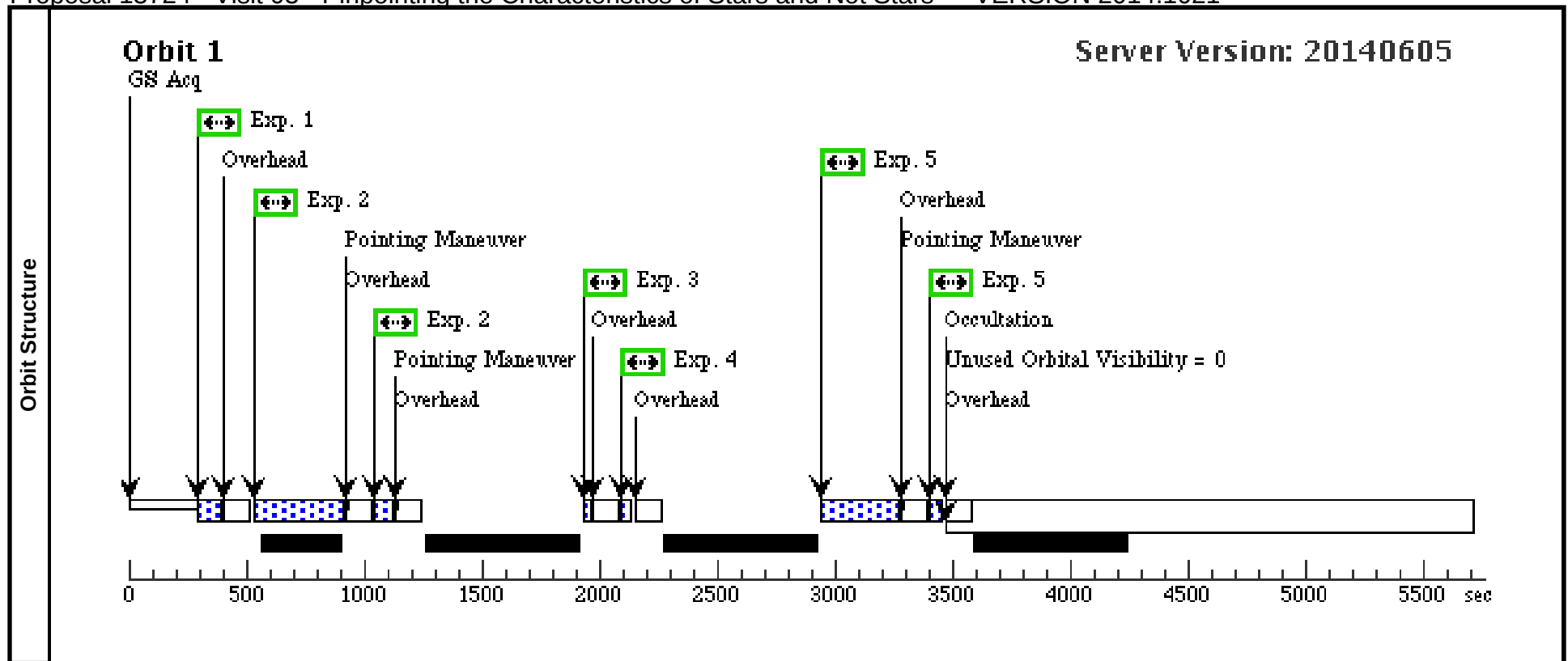
Proposal 13724 - Visit 02 - Pinpointing the Characteristics of Stars and Not Stars --- VERSION 2014.1021

Visit	Proposal 13724, Visit 02, implementation										Thu Oct 23 01:03:35 GMT 2014
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: WFC3/UVIS										
	Special Requirements: (none)										
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=5 Line Spacing=								(2), (5)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(2)	SCR0723-8015AB	RA: 07 23 59.6500 (110.9985417d) Dec: -80 15 17.80 (-80.25494d) Equinox: J2000		Proper Motion RA: -410.2 mas/yr Proper Motion Dec: 719.2 mas/yr Parallax: 0.06270" Epoch of Position: 2000.0		V=17.45+/-0.08 R=15.61 I=13.41		Reference Frame: ICRS		
Comments: RECONS astrometry and photometry used.											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(2) SCR0723-8015A B	WFC3/UVIS, ACCUM, UVIS	F621M	FLASH=11			101 Secs (101 Secs)		
									[==>]		[1]
	Comments: 50% of anticipated saturation										
	2		(2) SCR0723-8015A B	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=9		Pattern 1, Exps 2-2 i n Visit 02 (1)	98 Secs (450 Secs)		
									[==>352.0 Secs (Pattern 1)]		
									[==>98.0 Secs (Pattern 2)]		[1]
	Comments: 50% of anticipated saturation										
	3		(2) SCR0723-8015A B	WFC3/UVIS, ACCUM, UVIS	F763M	FLASH=12			25 Secs (25 Secs)		
									[==>]		[1]
	Comments: 50% of anticipated saturation										
	4		(2) SCR0723-8015A B	WFC3/UVIS, ACCUM, UVIS	F845M	FLASH=12			29 Secs (29 Secs)		
									[==>]		[1]
	Comments: 50% of anticipated saturation										
	5		(2) SCR0723-8015A B	WFC3/UVIS, ACCUM, UVIS	F689M	FLASH=11		Pattern 1, Exps 5-5 i n Visit 02 (1)	74 Secs (424 Secs)		
									[==>350.0 Secs (Pattern 1)]		
									[==>74 Secs (Pattern 2)]		[1]
Comments: 50% of anticipated saturation											



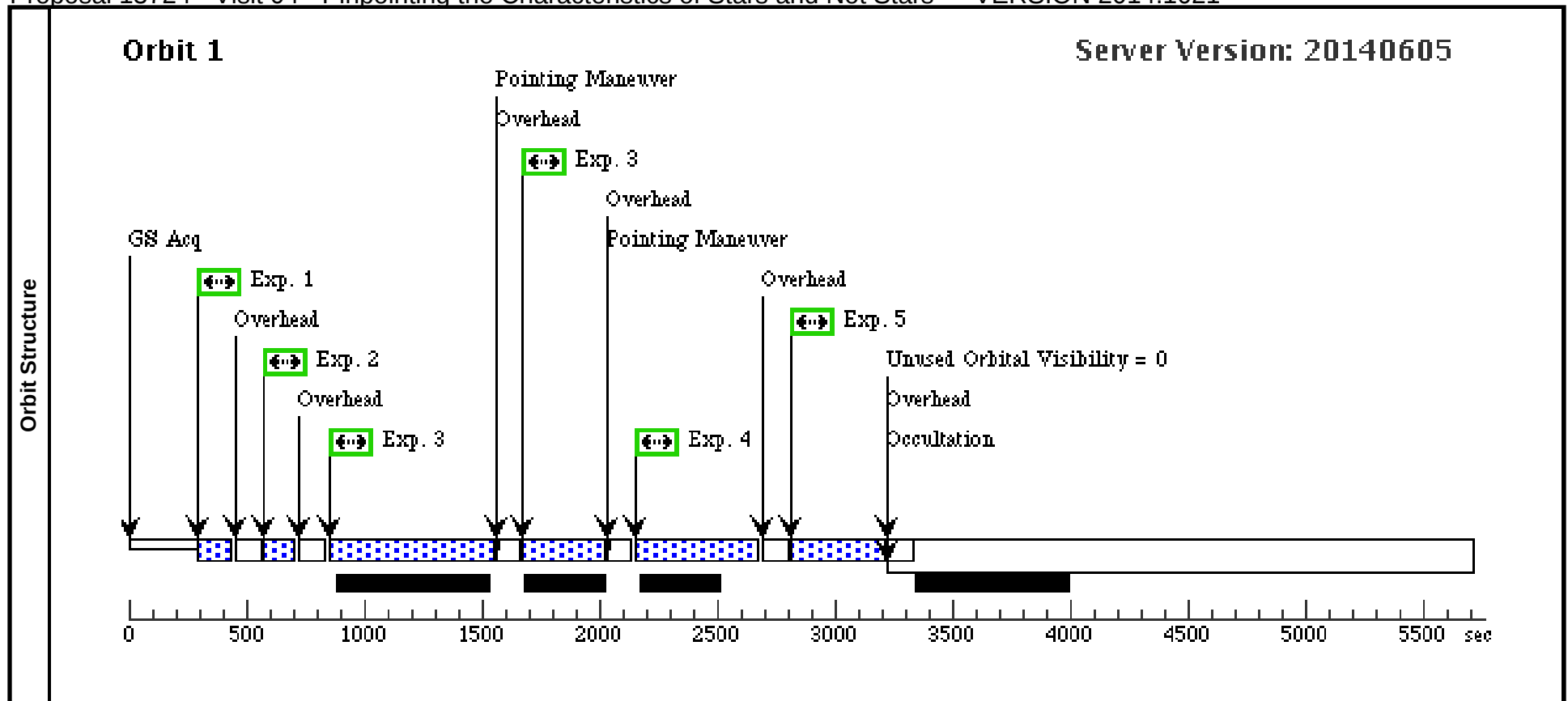
Proposal 13724 - Visit 03 - Pinpointing the Characteristics of Stars and Not Stars --- VERSION 2014.1021

Visit	Proposal 13724, Visit 03, implementation										Thu Oct 23 01:03:35 GMT 2014
	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=5 Line Spacing=				Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false				(2), (5)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(3)	SCR0838-5855AB	RA: 08 38 2.2400 (129.5093333d) Dec: -58 55 58.70 (-58.93297d) Equinox: J2000		Proper Motion RA: -50.1 mas/yr Proper Motion Dec: -316.1 mas/yr Parallax: 0.09456" Epoch of Position: 2000.0		V=17.19+/-0.08 R=15.08 I=12.78		Reference Frame: ICRS		
Comments: RECONS astrometry and photometry used.											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(3) SCR0838-5855A B	WFC3/UVIS, ACCUM, UVIS	F621M	FLASH=11			67 Secs (67 Secs)		
									[==>]		[1]
	Comments: 50% of anticipated saturation										
	2		(3) SCR0838-5855A B	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=10		Pattern 1, Exps 2-2 in Visit 03 (1)	77 Secs (429 Secs)		
									[==>352.0 Secs (Pattern 1)]		
									[==>77.0 Secs (Pattern 2)]		[1]
	Comments: 50% of anticipated saturation										
	3		(3) SCR0838-5855A B	WFC3/UVIS, ACCUM, UVIS	F763M	FLASH=12			15 Secs (15 Secs)		
									[==>]		[1]
	Comments: 50% of anticipated saturation										
	4		(3) SCR0838-5855A B	WFC3/UVIS, ACCUM, UVIS	F845M	FLASH=12			17 Secs (17 Secs)		
								[==>]		[1]	
Comments: 50% of anticipated saturation											
5		(3) SCR0838-5855A B	WFC3/UVIS, ACCUM, UVIS	F689M	FLASH=12			Pattern 1, Exps 5-5 in Visit 03 (1)	47 Secs (352 Secs)		
									[==>305.0 Secs (Pattern 1)]		
									[==>47.0 Secs (Pattern 2)]		[1]
Comments: 50% of anticipated saturation											



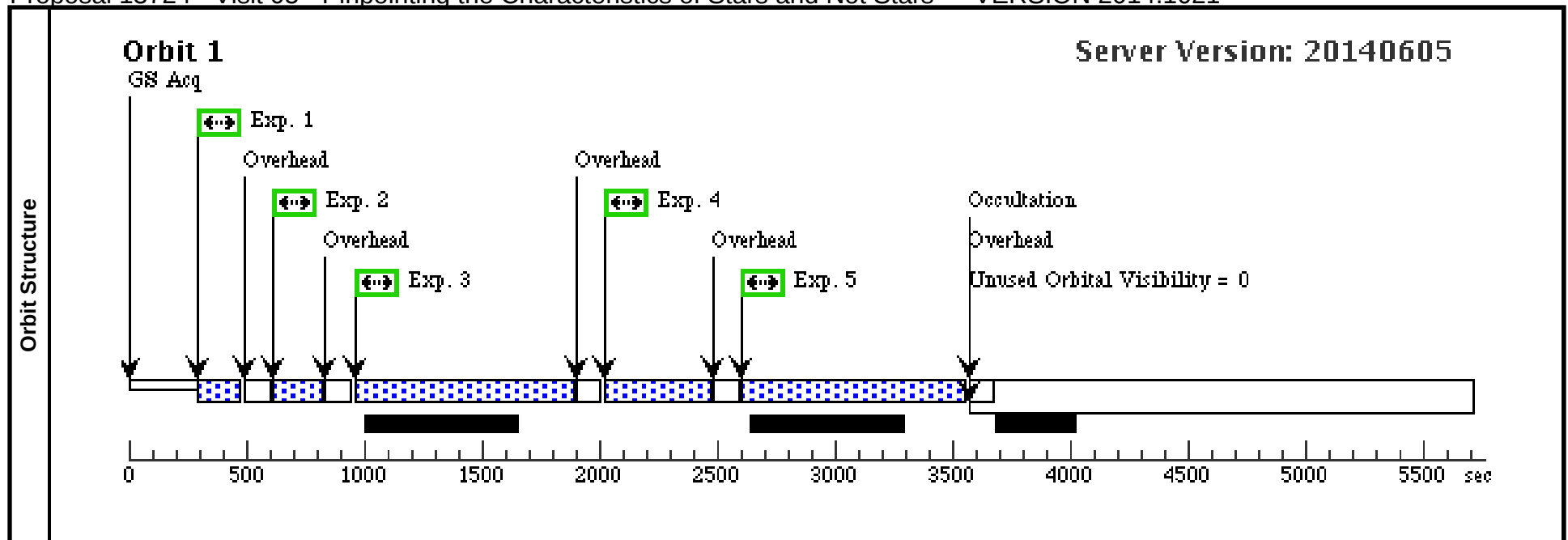
Proposal 13724 - Visit 04 - Pinpointing the Characteristics of Stars and Not Stars --- VERSION 2014.1021

Visit	Proposal 13724, Visit 04, implementation					Thu Oct 23 01:03:35 GMT 2014					
	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=5 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false						(3)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(4)	LHS2397A-AB	RA: 11 21 49.1900 (170.4549583d) Dec: -13 13 8.50 (-13.21903d) Equinox: J2000		Proper Motion RA: -465.4 mas/yr Proper Motion Dec: -48.9 mas/yr Parallax: 0.06583" Epoch of Position: 2000.0		V=19.43+/-0.04 R=17.33 I=14.84		Reference Frame: ICRS		
	Comments: RECONS astrometry and photometry used.										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(4) LHS2397A-AB	WFC3/UVIS, ACCUM, UVIS	F845M	FLASH=11			113 Secs (113 Secs)		
									[==>]		[1]
	Comments: 50% of anticipated saturation										
	2		(4) LHS2397A-AB	WFC3/UVIS, ACCUM, UVIS	F763M	FLASH=11			109 Secs (109 Secs)		
									[==>]		[1]
	Comments: 50% of anticipated saturation										
	3		(4) LHS2397A-AB	WFC3/UVIS, ACCUM, UVIS	F555W			Pattern 1, Exps 3-3 i n Visit 04 (1)	668 Secs (1016 Secs)		
									[==>668.0 Secs (Pattern 1)]		[1]
									[==>348.0 Secs (Pattern 2)]		
Comments: 55% of anticipated saturation											
4		(4) LHS2397A-AB	WFC3/UVIS, ACCUM, UVIS	F621M	FLASH=6				509 Secs (509 Secs)		
									[==>]		[1]
Comments: 43% of anticipated saturation											
5		(4) LHS2397A-AB	WFC3/UVIS, ACCUM, UVIS	F689M	FLASH=7				381 Secs (381 Secs)		
									[==>]		[1]
Comments: 50% of anticipated saturation											



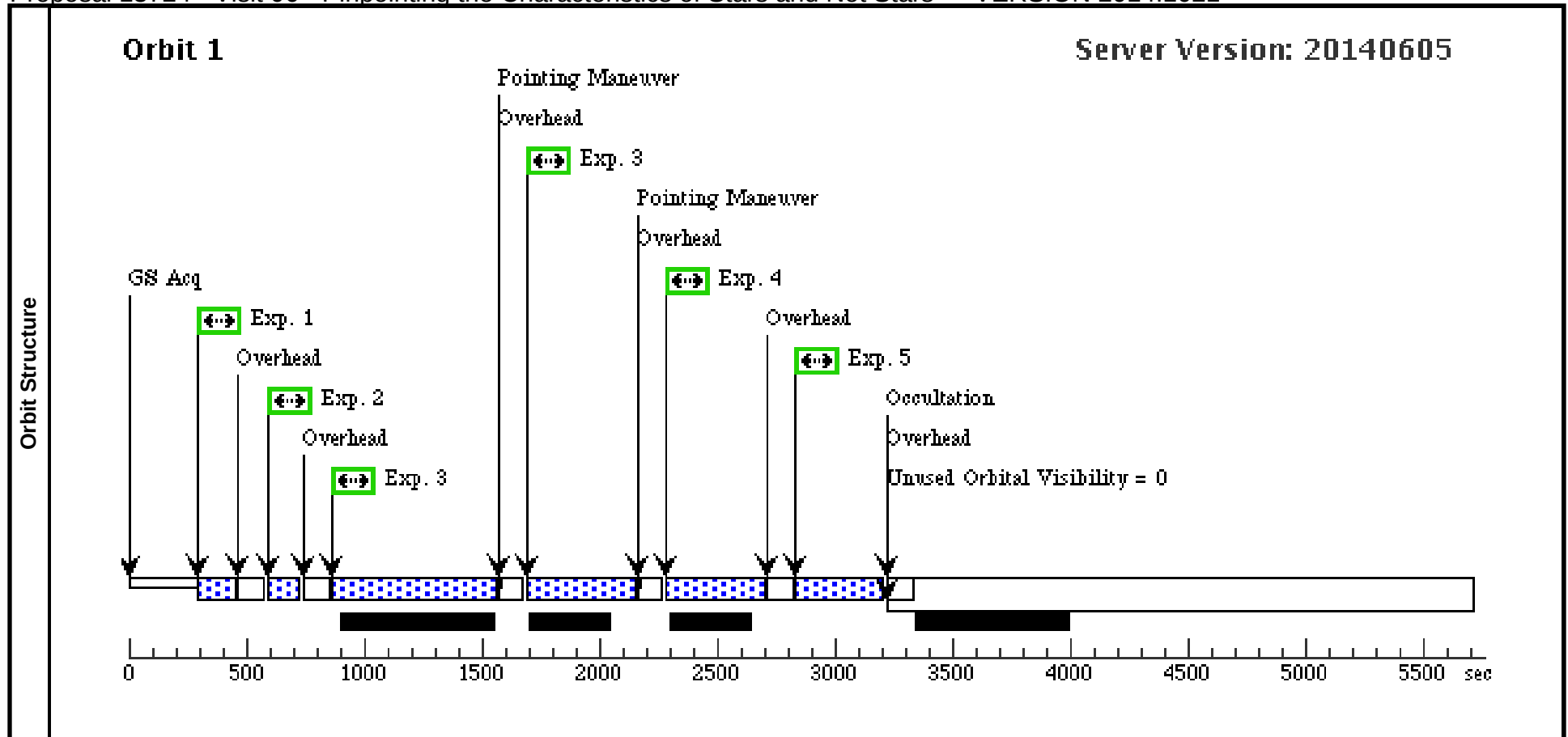
Proposal 13724 - Visit 05 - Pinpointing the Characteristics of Stars and Not Stars --- VERSION 2014.1021

Visit	Proposal 13724, Visit 05, implementation										Thu Oct 23 01:03:35 GMT 2014	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: (none)											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(5)	DEN1454-6604AB	RA: 14 54 7.9600 (223.5331667d)		Proper Motion RA: 529.2 mas/yr		V=21.80+/-0.40		Reference Frame: ICRS			
			Dec: -66 04 47.60 (-66.07989d)		Proper Motion Dec: -370.5 mas/yr		R=19.22 I=16.89					
			Equinox: J2000		Parallax: 0.08715"							
	Epoch of Position: 2000.0											
	Comments: RECONS astrometry and photometry used.											
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(5) DEN1454-6604A B	WFC3/UVIS, ACCUM, UVIS		F845M	FLASH=10			150 Secs (150 Secs)		
										[==>]		[1]
	Comments: 9% of anticipated saturation											
	2		(5) DEN1454-6604A B	WFC3/UVIS, ACCUM, UVIS		F763M	FLASH=10			186 Secs (186 Secs)		
										[==>]		[1]
	Comments: 9% of anticipated saturation											
	3		(5) DEN1454-6604A B	WFC3/UVIS, ACCUM, UVIS		F555W				900 Secs (900 Secs)		
										[==>]		[1]
	Comments: 9% of anticipated saturation											
	4		(5) DEN1454-6604A B	WFC3/UVIS, ACCUM, UVIS		F689M	FLASH=5			443 Secs (443 Secs)		
										[==>]		[1]
	Comments: 9% of anticipated saturation											
	5		(5) DEN1454-6604A B	WFC3/UVIS, ACCUM, UVIS		F621M				926 Secs (926 Secs)		
										[==>]		[1]
	Comments: 9% of anticipated saturation											



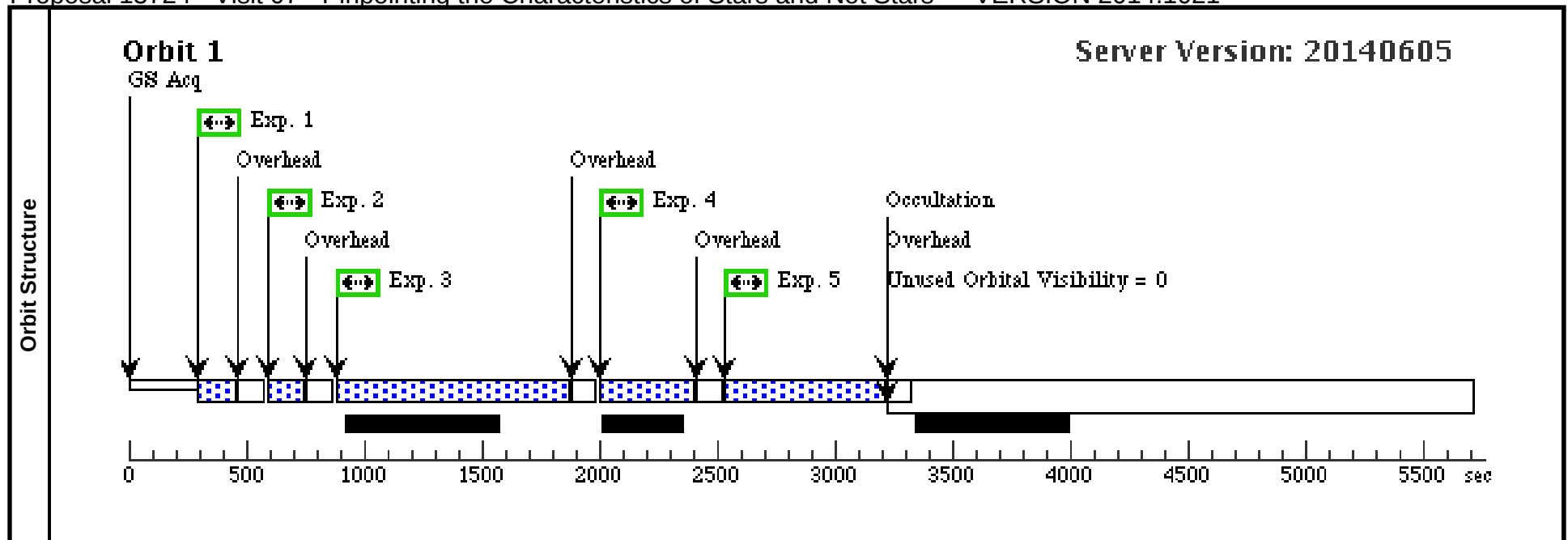
Proposal 13724 - Visit 06 - Pinpointing the Characteristics of Stars and Not Stars --- VERSION 2014.1021

Visit	Proposal 13724, Visit 06, implementation					Thu Oct 23 01:03:36 GMT 2014					
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: WFC3/UVIS										
	Special Requirements: (none)										
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=5 Line Spacing=								(3)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(6)	LSR1610-0040AB	RA: 16 10 28.9600 (242.6206667d) Dec: -00 40 54.00 (-.68167d) Equinox: J2000		Proper Motion RA: -773.7 mas/yr Proper Motion Dec: -1238.2 mas/yr Parallax: 0.03157" Epoch of Position: 2000.0		V=19.12+/-0.11 R=17.12 I=15.03		Reference Frame: ICRS		
	Comments: RECONS astrometry and photometry used.										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(6) LSR1610-0040A B	WFC3/UVIS, ACCUM, UVIS	F845M	FLASH=11			128 Secs (128 Secs)		
									[==>]		[1]
	Comments: 50% of anticipated saturation										
	2		(6) LSR1610-0040A B	WFC3/UVIS, ACCUM, UVIS	F763M	FLASH=11			111 Secs (111 Secs)		
									[==>]		[1]
	Comments: 50% of anticipated saturation										
	3		(6) LSR1610-0040A B	WFC3/UVIS, ACCUM, UVIS	F555W			Pattern 1, Exps 3-3 in Visit 06 (1)	668 Secs (1128 Secs)		
									[==>668.0 Secs (Pattern 1)]		[1]
									[==>460.0 Secs (Pattern 2)]		
	Comments: 73% of anticipated saturation										
	4		(6) LSR1610-0040A B	WFC3/UVIS, ACCUM, UVIS	F621M	FLASH=5			406 Secs (406 Secs)		
								[==>]		[1]	
Comments: 50% of anticipated saturation											
5		(6) LSR1610-0040A B	WFC3/UVIS, ACCUM, UVIS	F689M	FLASH=7			352 Secs (352 Secs)			
								[==>]		[1]	
Comments: 59% of anticipated saturation											



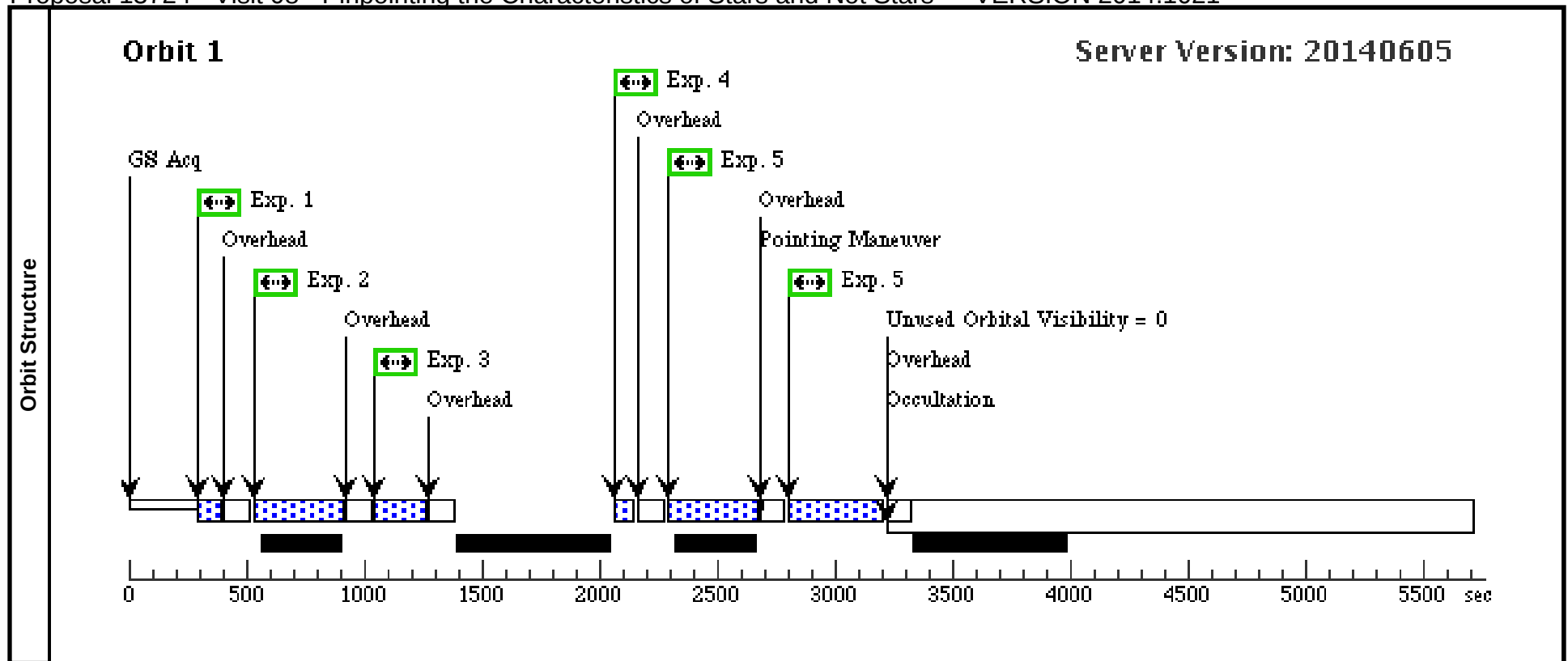
Proposal 13724 - Visit 07 - Pinpointing the Characteristics of Stars and Not Stars --- VERSION 2014.1021

Visit	Proposal 13724, Visit 07, implementation								Thu Oct 23 01:03:36 GMT 2014	
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: WFC3/UVIS									
	Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	2MA1705-0516AB	RA: 17 05 48.3500 (256.4514583d) Dec: -05 16 46.30 (-5.27953d) Equinox: J2000	Proper Motion RA: 128.5 mas/yr Proper Motion Dec: -101.9 mas/yr Parallax: 0.05507" Epoch of Position: 2000.0	V=21.67+/-0.03 R=19.05 I=16.67	Reference Frame: ICRS				
	Comments: RECONS astrometry and photometry used.									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(7) 2MA1705-0516A B	WFC3/UVIS, ACCUM, UVIS	F845M	FLASH=11			126 Secs (126 Secs)	
									[==>]	[1]
	Comments: 10% of anticipated saturation									
	2		(7) 2MA1705-0516A B	WFC3/UVIS, ACCUM, UVIS	F763M	FLASH=11			130 Secs (130 Secs)	
									[==>]	[1]
	Comments: 10% of anticipated saturation									
	3		(7) 2MA1705-0516A B	WFC3/UVIS, ACCUM, UVIS	F555W				956 Secs (956 Secs)	
									[==>]	[1]
	Comments: 10% of anticipated saturation									
	4		(7) 2MA1705-0516A B	WFC3/UVIS, ACCUM, UVIS	F689M	FLASH=6			388 Secs (388 Secs)	
									[==>]	[1]
	Comments: 10% of anticipated saturation									
	5		(7) 2MA1705-0516A B	WFC3/UVIS, ACCUM, UVIS	F621M	FLASH=1			652 Secs (652 Secs)	
									[==>]	[1]
	Comments: 10% of anticipated saturation									



Proposal 13724 - Visit 08 - Pinpointing the Characteristics of Stars and Not Stars --- VERSION 2014.1021

Visit	Proposal 13724, Visit 08, implementation					Thu Oct 23 01:03:36 GMT 2014					
	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=5 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false						(5)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(8)	USN2101+0307AB	RA: 21 01 4.8000 (315.2700000d) Dec: +03 07 4.70 (3.11797d) Equinox: J2000		Proper Motion RA: 1039.4 mas/yr Proper Motion Dec: -36.3 mas/yr Parallax: 0.05373" Epoch of Position: 2000.0		V=18.67+/-0.08 R=16.64 I=14.32		Reference Frame: ICRS		
	Comments: RECONS astrometry and photometry used.										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(8) USN2101+0307 AB	WFC3/UVIS, ACCUM, UVIS	F845M	FLASH=12			68 Secs (68 Secs)		
									[==>]		[1]
	Comments: 50% of anticipated saturation										
	2		(8) USN2101+0307 AB	WFC3/UVIS, ACCUM, UVIS	F621M	FLASH=6			352 Secs (352 Secs)		
									[==>]		[1]
	Comments: 62% of anticipated saturation										
	3		(8) USN2101+0307 AB	WFC3/UVIS, ACCUM, UVIS	F689M	FLASH=9			196 Secs (196 Secs)		
									[==>]		[1]
	Comments: 50% of anticipated saturation										
	4		(8) USN2101+0307 AB	WFC3/UVIS, ACCUM, UVIS	F763M	FLASH=12			62 Secs (62 Secs)		
									[==>]		[1]
Comments: 50% of anticipated saturation											
5		(8) USN2101+0307 AB	WFC3/UVIS, ACCUM, UVIS	F555W				Pattern 1, Exps 5-5 in Visit 08 (1)	352 Secs (759 Secs)		
									[==>352.0 Secs (Pattern 1)]		
									[==>407.0 Secs (Pattern 2)]		[1]
Comments: 58% of anticipated saturation											



Proposal 13724 - Visit 09 - Pinpointing the Characteristics of Stars and Not Stars --- VERSION 2014.1021

Visit	Proposal 13724, Visit 09, implementation										Thu Oct 23 01:03:36 GMT 2014	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: WFC3/UVIS											
	Special Requirements: (none)											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(9)	2MA2351-2537AB	RA: 23 51 50.4800 (357.9603333d)		Proper Motion RA: 355.5 mas/yr		V=19.98+/-0.27		Reference Frame: ICRS			
			Dec: -25 37 36.70 (-25.62686d)		Proper Motion Dec: 181.1 mas/yr		R=17.86 I=15.47					
			Equinox: J2000		Parallax: 0.04725"							
	Epoch of Position: 2000.0											
	Comments: RECONS astrometry and photometry used.											
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(9) 2MA2351-2537A B	WFC3/UVIS, ACCUM, UVIS		F845M	FLASH=11			153 Secs (153 Secs)		
										[==>]		[1]
	Comments: 38% of anticipated saturation											
	2		(9) 2MA2351-2537A B	WFC3/UVIS, ACCUM, UVIS		F763M	FLASH=10			147 Secs (147 Secs)		
										[==>]		[1]
	Comments: 38% of anticipated saturation											
	3		(9) 2MA2351-2537A B	WFC3/UVIS, ACCUM, UVIS		F555W				771 Secs (771 Secs)		
										[==>]		[1]
	Comments: 38% of anticipated saturation											
	4		(9) 2MA2351-2537A B	WFC3/UVIS, ACCUM, UVIS		F621M				732 Secs (732 Secs)		
										[==>]		[1]
	Comments: 38% of anticipated saturation											
	5		(9) 2MA2351-2537A B	WFC3/UVIS, ACCUM, UVIS		F689M	FLASH=5			474 Secs (474 Secs)		
										[==>]		[1]
	Comments: 38% of anticipated saturation											

