



11605 - Obtaining the Missing Links in the Test of Very Low Mass Evolutionary Models with HST

Cycle: 17, 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	WFC3/UVIS	1	29-Jun-2009 22:17:26.0	yes
02	(2) 2MASS1534	WFC3/UVIS	2	29-Jun-2009 22:17:34.0	yes
03	(3) 2MASS1847	WFC3/UVIS	1	29-Jun-2009 22:17:46.0	yes
04	(4) 2MASS1750	WFC3/UVIS	1	29-Jun-2009 22:17:55.0	yes
05	(5) 2MASS2140	WFC3/UVIS	1	29-Jun-2009 22:18:06.0	yes
06	(6) 2MASS2206	WFC3/UVIS	1	29-Jun-2009 22:18:14.0	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>
07	(7) LP415	WFC3/UVIS	1	29-Jun-2009 22:18:26.0	yes
08	(8) 2MASS0920	WFC3/UVIS	1	29-Jun-2009 22:18:31.0	yes
09	(9) 2MASS1047	WFC3/UVIS	1	29-Jun-2009 22:18:38.0	yes
10	(10) LHS2397A	WFC3/UVIS	1	29-Jun-2009 22:18:43.0	yes
11	(11) SDSS1021	WFC3/UVIS	1	29-Jun-2009 22:18:47.0	yes

12 Total Orbits Used

ABSTRACT

We are proposing for spatially resolved ACS+HRC observations of 11 very low mass binaries spanning late-M, L and T spectral types in order to obtain precise effective temperature measurements for each component. All of our targets are part of a program in which we are measuring dynamical masses of very low-mass binaries to an unprecedented precision of 10% (or better). However, without precise temperature measurements, the full scientific value of these mass measurements cannot be realized. Together, mass and temperature measurements will allow us to distinguish between brown dwarf evolutionary models that make different assumptions about the interior and atmospheric structure of these ultra-cool objects. While dynamical masses can be obtained from the ground in the near-IR, obtaining precise temperatures require access to optical data which, for these sub-arcsecond binaries, can only be obtained from space with Hubble.

OBSERVING DESCRIPTION

Our target list contains 11 brown dwarf binaries with projected separations between 0.05 and 0.2 seconds of arc. Each binary will be observed with ACS/HRC (WFP3 if ACS is not available) and 3 filters: F625W, F775W, and F850LP. For several of our brighter targets, F892N and F658N will also be selected. Exposure times have been determined with the ETC to maximize signal-to-noise while avoiding saturation. For each filter, a 4-position box dither pattern will be used to minimize the impact of bad pixels and cosmic ray events.

Proposal 11605 (STScI Edit Number: 4, Created: Monday, June 29, 2009 9:18:50 PM EST) - Overview

One of our targets (2MASS0920) should be observed before April, 2009 in insure the binary separation can be resolved with ACS/HRC.

Also, target HD130948A, is bright and requires coronagraphic imaging. See target specific comments and coments in visit 11 for more details.

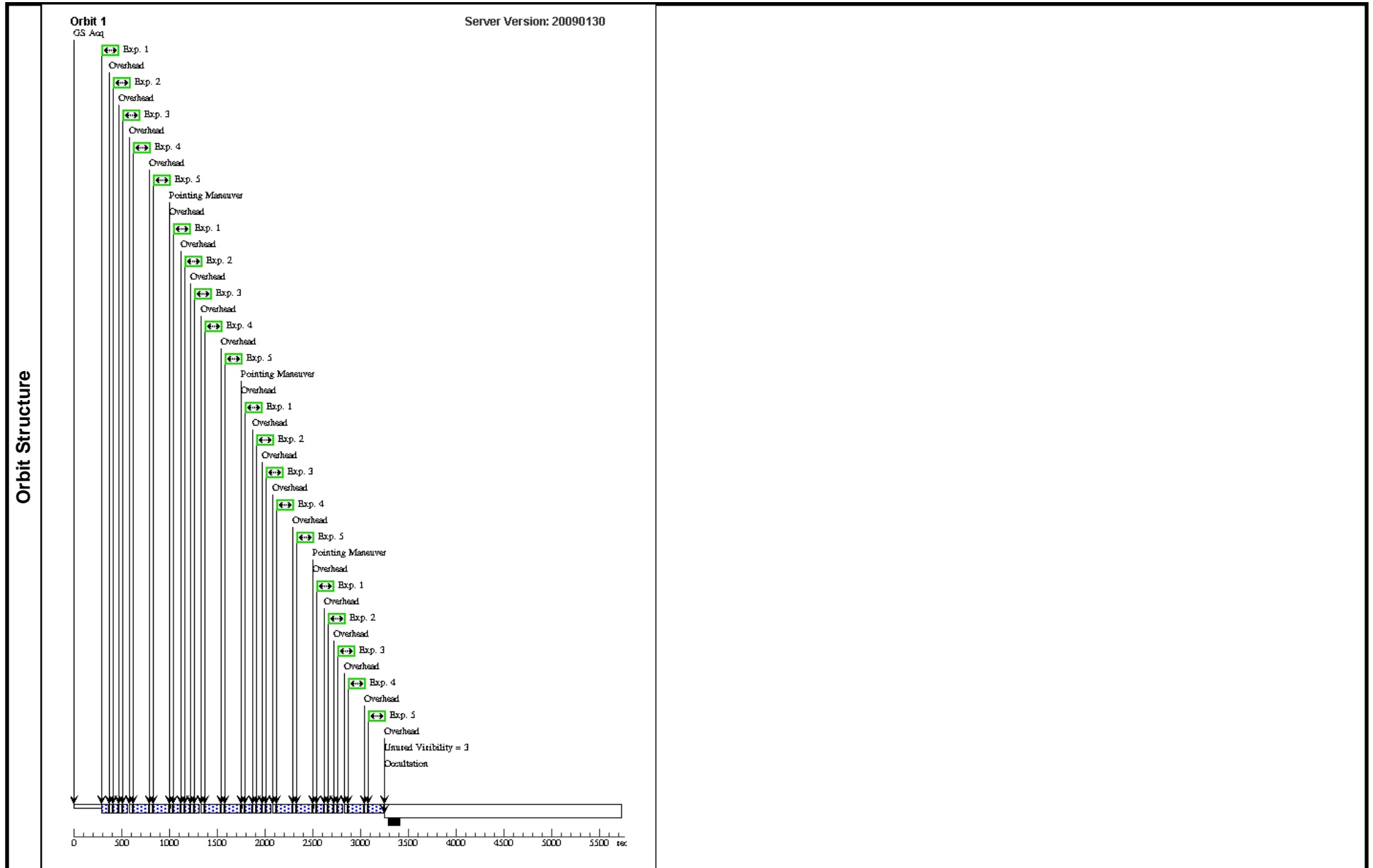
Proposal 11605 - Visit 01 - Obtaining the Missing Links in the Test of Very Low Mass Evolutionary Models with HST

Tue Jun 30 02:18:50 GMT 2009

Visit	Proposal 11605, Visit 01, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1-5)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	LP349	RA: 00 27 55.9300 (6.9830417d) Dec: +22 19 32.80 (22.32578d) Equinox: J2000	Proper Motion RA: 0.0285s/yr Proper Motion Dec: -0.168"/yr Epoch of Position: 2000	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	(1) LP349	(1) LP349	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F625W	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	20 Secs [==>37.0 Secs (Pattern 1)] [==>37.0 Secs (Pattern 2)] [==>37.0 Secs (Pattern 3)] [==>37.0 Secs (Pattern 4)]	[1]
	2	(1) LP349	(1) LP349	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F775W	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	10 Secs [==>27.0 Secs (Pattern 1)] [==>27.0 Secs (Pattern 2)] [==>27.0 Secs (Pattern 3)] [==>27.0 Secs (Pattern 4)]	[1]
	3	(1) LP349	(1) LP349	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F850LP	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	10 Secs [==>27.0 Secs (Pattern 1)] [==>27.0 Secs (Pattern 2)] [==>27.0 Secs (Pattern 3)] [==>27.0 Secs (Pattern 4)]	[1]
	4	(1) LP349	(1) LP349	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F658N	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	120 Secs [==>137.0 Secs (Pattern 1)] [==>137.0 Secs (Pattern 2)] [==>137.0 Secs (Pattern 3)] [==>137.0 Secs (Pattern 4)]	[1]

Proposal 11605 - Visit 01 - Obtaining the Missing Links in the Test of Very Low Mass Evolutionary Models with HST

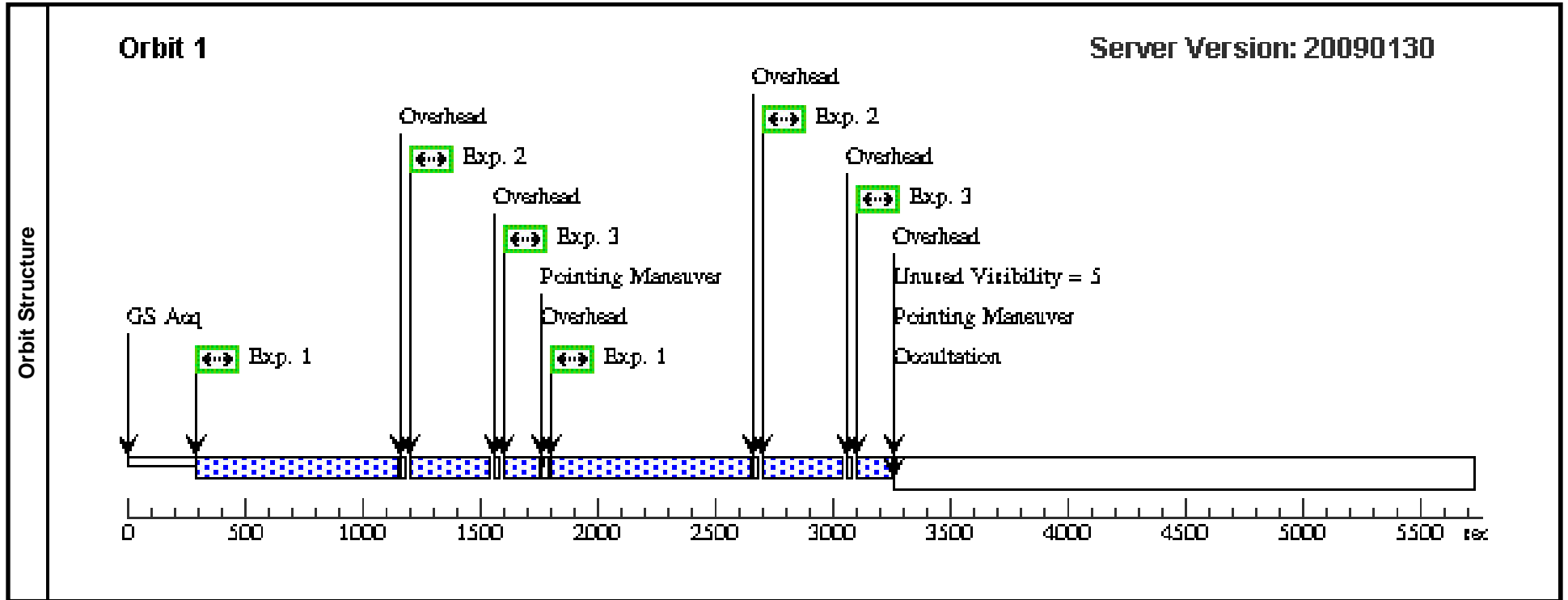
Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	5	(1) LP349	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F953N	CR-SPLIT=NO	Pattern 1, Exps 1-5 (1)	120 Secs [==>137.0 Secs (Pattern 1)] [==>137.0 Secs (Pattern 2)] [==>137.0 Secs (Pattern 3)] [==>137.0 Secs (Pattern 4)]		[1]	

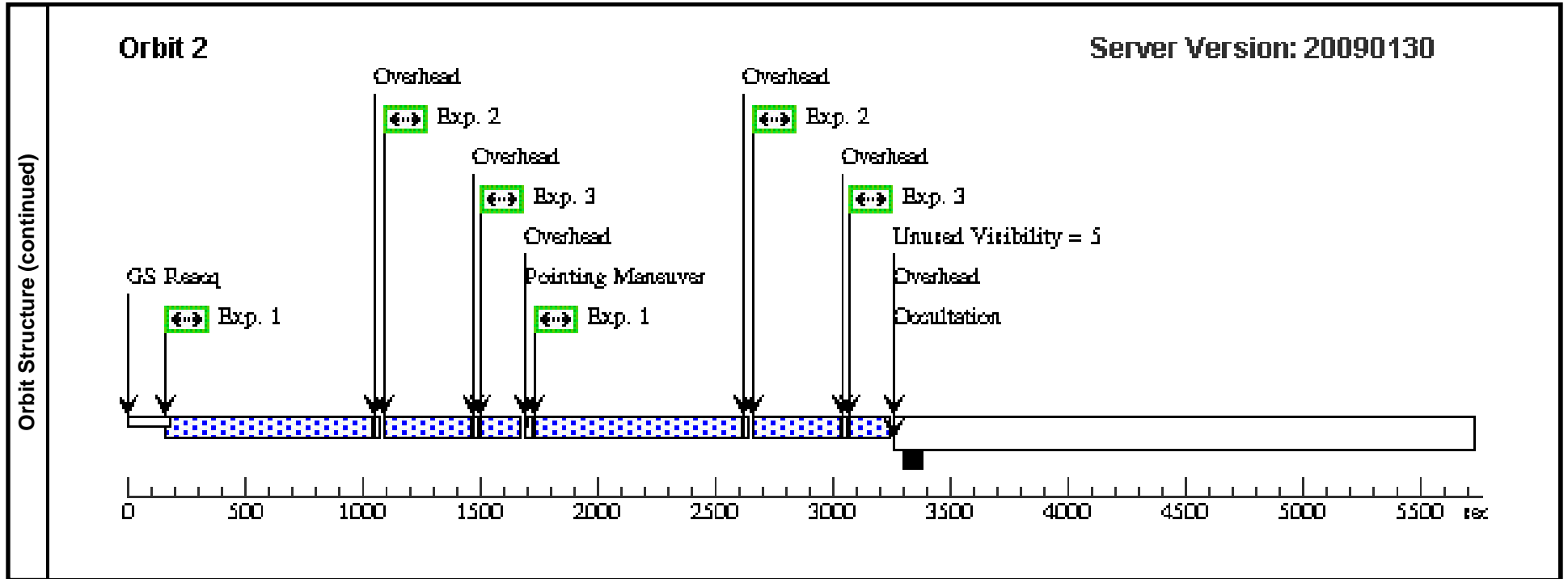


Proposal 11605 - Visit 02 - Obtaining the Missing Links in the Test of Very Low Mass Evolutionary Models with HST

Tue Jun 30 02:18:51 GMT 2009

Visit	Proposal 11605, Visit 02, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 01-AUG-2010:00:00:00									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false					(1-3)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	2MASS1534	RA: 15 34 49.8000 (233.7075000d) Dec: -29 52 27.00 (-29.87417d) Equinox: J2000	Proper Motion RA: 0.01587s/yr Proper Motion Dec: -0.230"/yr Epoch of Position: 2000	V=26+/-1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(2) 2MASS1534	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F625W	CR-SPLIT=NO		Pattern 1, Exps 1-3 (1)	800 Secs	
									[==>826.0 Secs (Pattern 1)]	[1]
									[==>826.0 Secs (Pattern 2)]	
									[==>849.0 Secs (Pattern 3)]	[2]
									[==>849.0 Secs (Pattern 4)]	
	2		(2) 2MASS1534	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F775W	CR-SPLIT=NO		Pattern 1, Exps 1-3 (1)	300 Secs	
									[==>326.0 Secs (Pattern 1)]	[1]
									[==>326.0 Secs (Pattern 2)]	
									[==>349.0 Secs (Pattern 3)]	[2]
								[==>349.0 Secs (Pattern 4)]		
3		(2) 2MASS1534	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F850LP	CR-SPLIT=NO		Pattern 1, Exps 1-3 (1)	100 Secs		
								[==>126.0 Secs (Pattern 1)]	[1]	
								[==>126.0 Secs (Pattern 2)]		
								[==>149.0 Secs (Pattern 3)]	[2]	
								[==>149.0 Secs (Pattern 4)]		





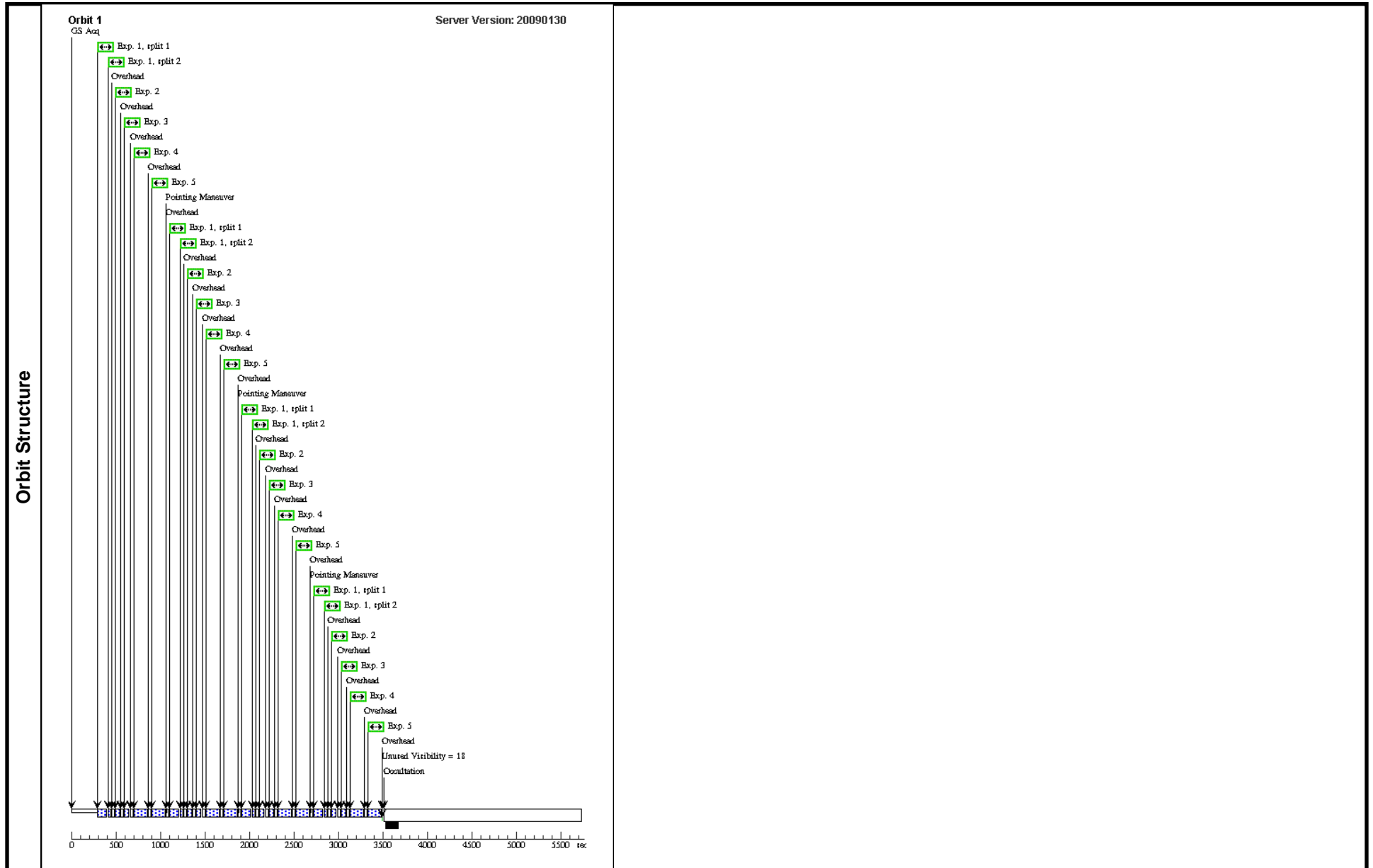
Proposal 11605 - Visit 03 - Obtaining the Missing Links in the Test of Very Low Mass Evolutionary Models with HST

Tue Jun 30 02:18:52 GMT 2009

Visit	Proposal 11605, Visit 03, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	2MASS1847	RA: 18 47 3.4200 (281.7642500d) Dec: +55 22 43.30 (55.37869d) Equinox: J2000	Proper Motion RA: 0s/yr Proper Motion Dec: 0"/yr Epoch of Position:	V=18+/-1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) 2MASS1847	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F625W			Pattern 1, Exps 1-5 (1)	25 Secs [==>28.5 Secs (Pattern 1, Split 1)] [==>28.5 Secs (Pattern 1, Split 2)] [==>28.5 Secs (Pattern 2, Split 1)] [==>28.5 Secs (Pattern 2, Split 2)] [==>28.5 Secs (Pattern 3, Split 1)] [==>28.5 Secs (Pattern 3, Split 2)] [==>28.5 Secs (Pattern 4, Split 1)] [==>28.5 Secs (Pattern 4, Split 2)]	[1]
	2		(3) 2MASS1847	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F775W	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	15 Secs [==>31.0 Secs (Pattern 1)] [==>31.0 Secs (Pattern 2)] [==>31.0 Secs (Pattern 3)] [==>31.0 Secs (Pattern 4)]	[1]
	3		(3) 2MASS1847	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F850LP	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	15 Secs [==>31.0 Secs (Pattern 1)] [==>31.0 Secs (Pattern 2)] [==>31.0 Secs (Pattern 3)] [==>31.0 Secs (Pattern 4)]	[1]

Proposal 11605 - Visit 03 - Obtaining the Missing Links in the Test of Very Low Mass Evolutionary Models with HST

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	4	(3) 2MASS1847	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F658N	CR-SPLIT=NO	Pattern 1, Exps 1-5 (1)	110 Secs [==>126.0 Secs (Pattern 1)] [==>126.0 Secs (Pattern 2)] [==>126.0 Secs (Pattern 3)] [==>126.0 Secs (Pattern 4)]	[1]		
5	(3) 2MASS1847	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F953N	CR-SPLIT=NO	Pattern 1, Exps 1-5 (1)	110 Secs [==>126.0 Secs (Pattern 1)] [==>126.0 Secs (Pattern 2)] [==>126.0 Secs (Pattern 3)] [==>126.0 Secs (Pattern 4)]	[1]			



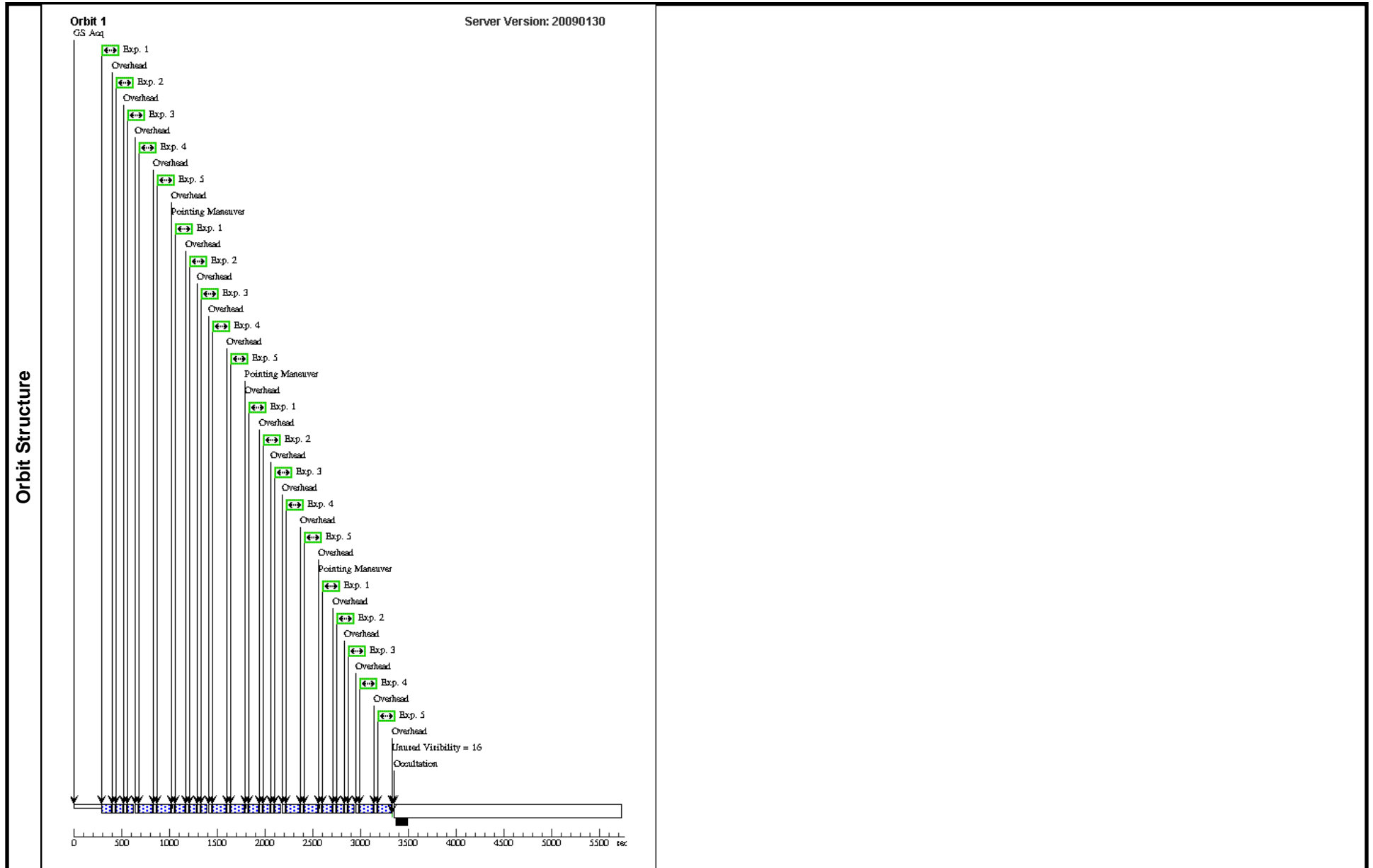
Proposal 11605 - Visit 04 - Obtaining the Missing Links in the Test of Very Low Mass Evolutionary Models with HST

Tue Jun 30 02:18:53 GMT 2009

Visit	Proposal 11605, Visit 04, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1-5)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	2MASS1750	RA: 17 50 12.9100 (267.5537917d) Dec: +44 24 4.30 (44.40119d) Equinox: J2000	Proper Motion RA: -0.00112s/yr Proper Motion Dec: 0.146"/yr Epoch of Position: 2000	V=18+/-1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(4) 2MASS1750	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F625W	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	50 Secs [==>67.0 Secs (Pattern 1)] [==>67.0 Secs (Pattern 2)] [==>67.0 Secs (Pattern 3)] [==>67.0 Secs (Pattern 4)]	[1]
	2		(4) 2MASS1750	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F775W	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	30 Secs [==>47.0 Secs (Pattern 1)] [==>47.0 Secs (Pattern 2)] [==>47.0 Secs (Pattern 3)] [==>47.0 Secs (Pattern 4)]	[1]
	3		(4) 2MASS1750	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F850LP	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	20 Secs [==>37.0 Secs (Pattern 1)] [==>37.0 Secs (Pattern 2)] [==>37.0 Secs (Pattern 3)] [==>37.0 Secs (Pattern 4)]	[1]
	4		(4) 2MASS1750	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F658N	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	100 Secs [==>117.0 Secs (Pattern 1)] [==>117.0 Secs (Pattern 2)] [==>117.0 Secs (Pattern 3)] [==>117.0 Secs (Pattern 4)]	[1]

Proposal 11605 - Visit 04 - Obtaining the Missing Links in the Test of Very Low Mass Evolutionary Models with HST

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	5		(4) 2MASS1750	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F953N	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	100 Secs [=>117.0 Secs (Pattern 1)] [=>117.0 Secs (Pattern 2)] [=>117.0 Secs (Pattern 3)] [=>117.0 Secs (Pattern 4)]	[1]



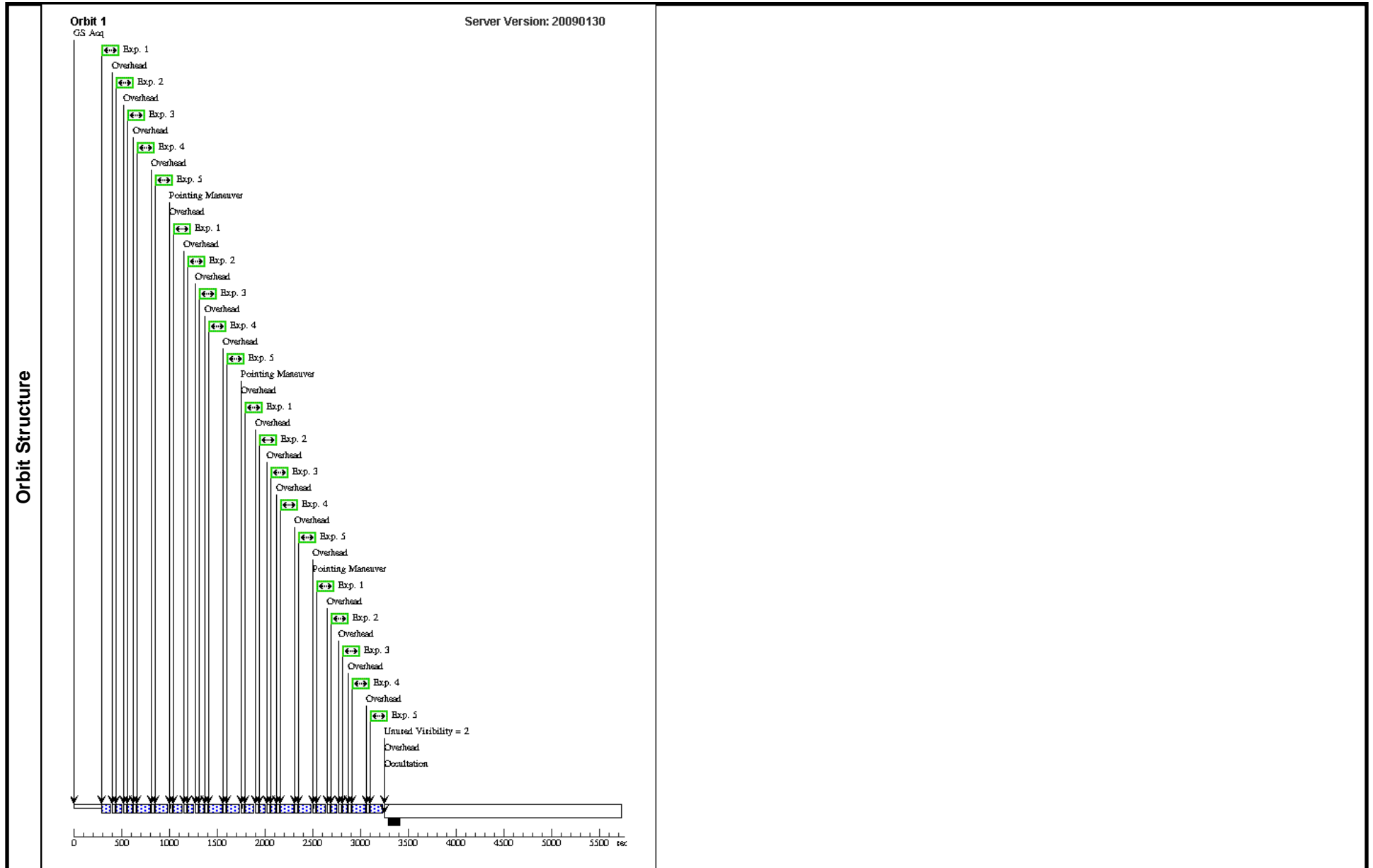
Proposal 11605 - Visit 05 - Obtaining the Missing Links in the Test of Very Low Mass Evolutionary Models with HST

Tue Jun 30 02:18:54 GMT 2009

Visit	Proposal 11605, Visit 05, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false					(1-5)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(5)	2MASS2140	RA: 21 40 29.3200 (325.1221667d) Dec: +16 25 18.30 (16.42175d) Equinox: J2000	Proper Motion RA: -0.000556s/yr Proper Motion Dec: -0.102"/yr Epoch of Position: 2000		V=19+/-1	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(5) 2MASS2140	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F625W	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	50 Secs [==>63.0 Secs (Pattern 1)] [==>63.0 Secs (Pattern 2)] [==>63.0 Secs (Pattern 3)] [==>63.0 Secs (Pattern 4)]	[1]
	2		(5) 2MASS2140	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F775W	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	30 Secs [==>43.0 Secs (Pattern 1)] [==>43.0 Secs (Pattern 2)] [==>43.0 Secs (Pattern 3)] [==>43.0 Secs (Pattern 4)]	[1]
	3		(5) 2MASS2140	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F850LP	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	20 Secs [==>33.0 Secs (Pattern 1)] [==>33.0 Secs (Pattern 2)] [==>33.0 Secs (Pattern 3)] [==>33.0 Secs (Pattern 4)]	[1]
	4		(5) 2MASS2140	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F658N	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	100 Secs [==>113.0 Secs (Pattern 1)] [==>113.0 Secs (Pattern 2)] [==>113.0 Secs (Pattern 3)] [==>113.0 Secs (Pattern 4)]	[1]

Proposal 11605 - Visit 05 - Obtaining the Missing Links in the Test of Very Low Mass Evolutionary Models with HST

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	5		(5) 2MASS2140	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F953N	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	100 Secs [=>113.0 Secs (Pattern 1)] [=>113.0 Secs (Pattern 2)] [=>113.0 Secs (Pattern 3)] [=>113.0 Secs (Pattern 4)]	[1]



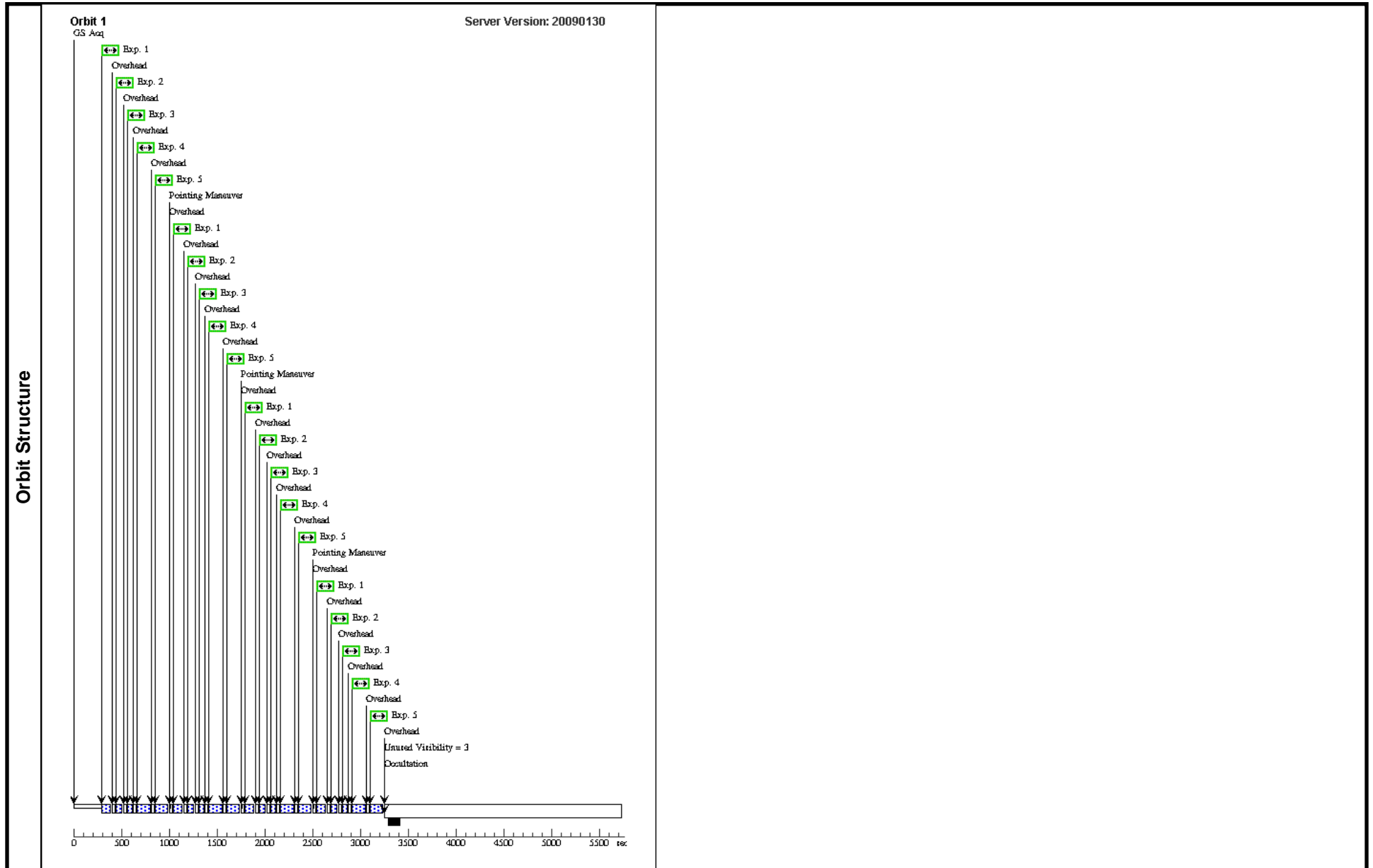
Proposal 11605 - Visit 06 - Obtaining the Missing Links in the Test of Very Low Mass Evolutionary Models with HST

Tue Jun 30 02:18:54 GMT 2009

Visit	Proposal 11605, Visit 06, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1-5)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	2MASS2206	RA: 22 06 22.8000 (331.5950000d) Dec: -20 47 5.90 (-20.78497d) Equinox: J2000	Proper Motion RA: 0.001977s/yr Proper Motion Dec: -0.057"/yr Epoch of Position: 2000	V=19+/-1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(6) 2MASS2206	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F625W	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	50 Secs [==>63.0 Secs (Pattern 1)] [==>63.0 Secs (Pattern 2)] [==>63.0 Secs (Pattern 3)] [==>63.0 Secs (Pattern 4)]	[1]
	2		(6) 2MASS2206	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F775W	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	30 Secs [==>43.0 Secs (Pattern 1)] [==>43.0 Secs (Pattern 2)] [==>43.0 Secs (Pattern 3)] [==>43.0 Secs (Pattern 4)]	[1]
	3		(6) 2MASS2206	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F850LP	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	20 Secs [==>33.0 Secs (Pattern 1)] [==>33.0 Secs (Pattern 2)] [==>33.0 Secs (Pattern 3)] [==>33.0 Secs (Pattern 4)]	[1]
	4		(6) 2MASS2206	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F658N	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	100 Secs [==>113.0 Secs (Pattern 1)] [==>113.0 Secs (Pattern 2)] [==>113.0 Secs (Pattern 3)] [==>113.0 Secs (Pattern 4)]	[1]

Proposal 11605 - Visit 06 - Obtaining the Missing Links in the Test of Very Low Mass Evolutionary Models with HST

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	5		(6) 2MASS2206	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F953N	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	100 Secs [=>113.0 Secs (Pattern 1)] [=>113.0 Secs (Pattern 2)] [=>113.0 Secs (Pattern 3)] [=>113.0 Secs (Pattern 4)]	[1]



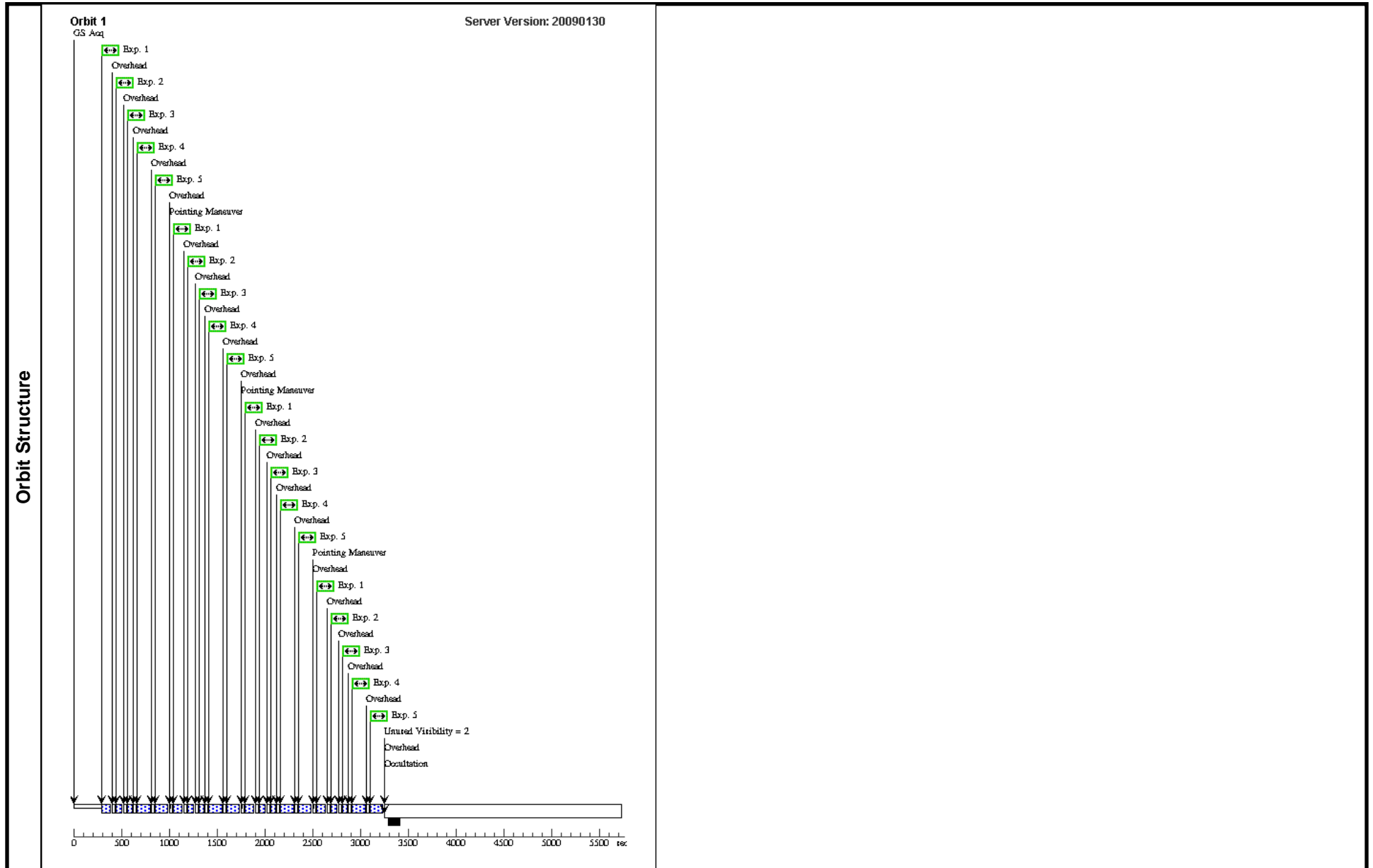
Proposal 11605 - Visit 07 - Obtaining the Missing Links in the Test of Very Low Mass Evolutionary Models with HST

Tue Jun 30 02:18:55 GMT 2009

Visit	Proposal 11605, Visit 07, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	LP415	RA: 04 21 49.0000 (65.4541667d) Dec: +19 29 10.00 (19.48611d) Equinox: J2000	Proper Motion RA: 0.008981s/yr Proper Motion Dec: -0.036"/yr Epoch of Position: 2000	V=18+/-1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(7) LP415	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F625W	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	50 Secs [==>63.0 Secs (Pattern 1)] [==>63.0 Secs (Pattern 2)] [==>63.0 Secs (Pattern 3)] [==>63.0 Secs (Pattern 4)]	[1]
	2		(7) LP415	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F775W	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	30 Secs [==>43.0 Secs (Pattern 1)] [==>43.0 Secs (Pattern 2)] [==>43.0 Secs (Pattern 3)] [==>43.0 Secs (Pattern 4)]	[1]
	3		(7) LP415	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F850LP	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	20 Secs [==>33.0 Secs (Pattern 1)] [==>33.0 Secs (Pattern 2)] [==>33.0 Secs (Pattern 3)] [==>33.0 Secs (Pattern 4)]	[1]
	4		(7) LP415	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F658N	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	100 Secs [==>113.0 Secs (Pattern 1)] [==>113.0 Secs (Pattern 2)] [==>113.0 Secs (Pattern 3)] [==>113.0 Secs (Pattern 4)]	[1]

Proposal 11605 - Visit 07 - Obtaining the Missing Links in the Test of Very Low Mass Evolutionary Models with HST

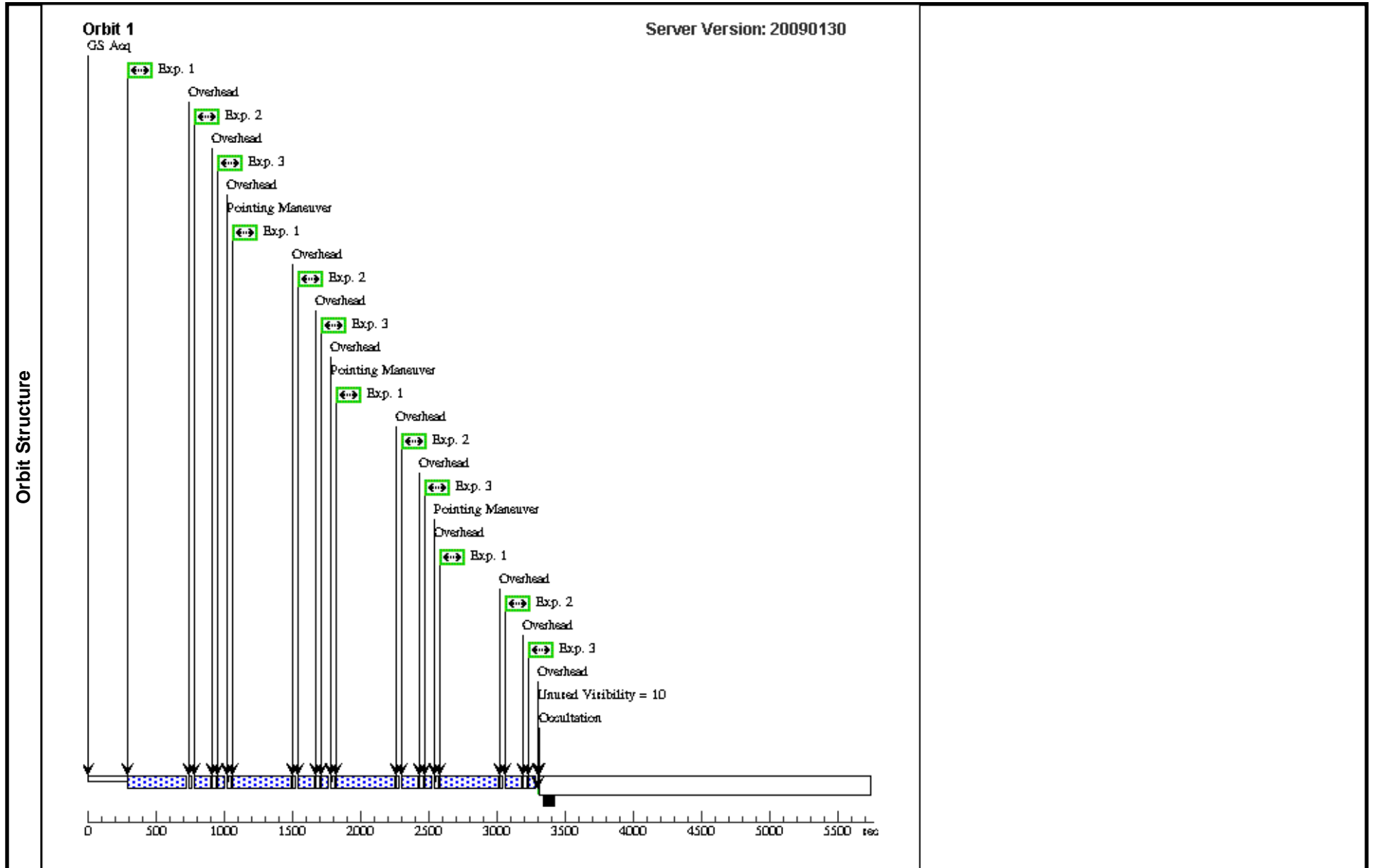
Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	5	(7) LP415	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F953N	CR-SPLIT=NO	Pattern 1, Exps 1-5 (1)	100 Secs <i>[=>113.0 Secs (Pattern 1)]</i> <i>[=>113.0 Secs (Pattern 2)]</i> <i>[=>113.0 Secs (Pattern 3)]</i> <i>[=>113.0 Secs (Pattern 4)]</i>	<i>[1]</i>		



Proposal 11605 - Visit 08 - Obtaining the Missing Links in the Test of Very Low Mass Evolutionary Models with HST

Tue Jun 30 02:18:55 GMT 2009

Visit	Proposal 11605, Visit 08, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 01-AUG-2010:00:00:00 <i>Comments: In this visit, target 2MASS0920 should be observed in March/April 2010 in order for the binary to be resolved by ACS/HRC.</i>									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false					(1-3)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(8)	2MASS0920	RA: 09 20 12.2000 (140.0508333d) Dec: +35 17 43.00 (35.29528d) Equinox: J2000	Proper Motion RA: 0s/yr Proper Motion Dec: 0"/yr Epoch of Position:		V=24+/-1	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(8) 2MASS0920	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F625W	CR-SPLIT=NO		Pattern 1, Exps 1-3 (1)	400 Secs [=>401.0 Secs (Pattern 1)] [=>401.0 Secs (Pattern 2)] [=>401.0 Secs (Pattern 3)] [=>401.0 Secs (Pattern 4)]	[1]
	2		(8) 2MASS0920	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F775W	CR-SPLIT=NO		Pattern 1, Exps 1-3 (1)	100 Secs [=>101.0 Secs (Pattern 1)] [=>101.0 Secs (Pattern 2)] [=>101.0 Secs (Pattern 3)] [=>101.0 Secs (Pattern 4)]	[1]
	3		(8) 2MASS0920	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F850LP	CR-SPLIT=NO		Pattern 1, Exps 1-3 (1)	30 Secs [=>31.0 Secs (Pattern 1)] [=>31.0 Secs (Pattern 2)] [=>31.0 Secs (Pattern 3)] [=>31.0 Secs (Pattern 4)]	[1]



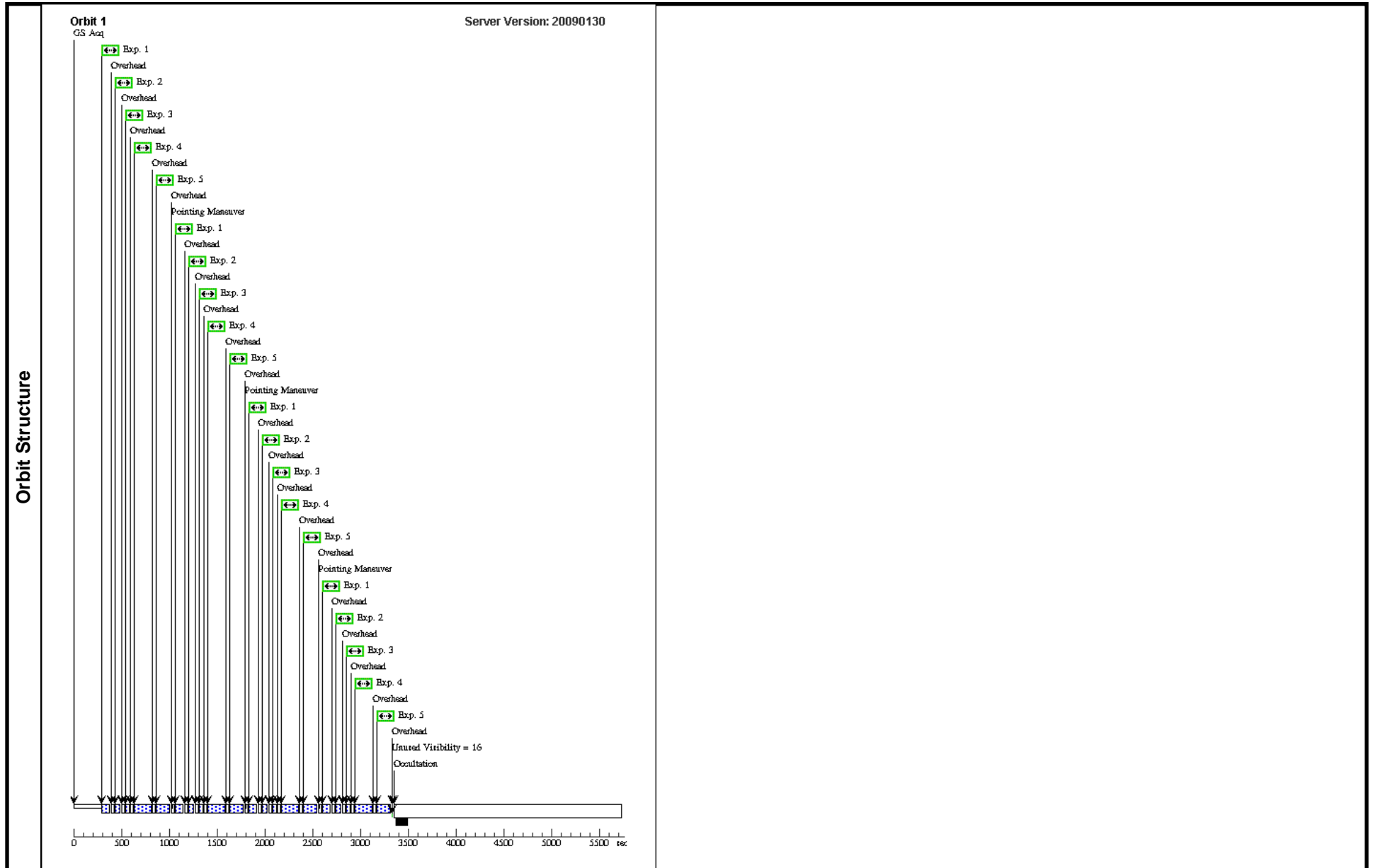
Proposal 11605 - Visit 09 - Obtaining the Missing Links in the Test of Very Low Mass Evolutionary Models with HST

Tue Jun 30 02:18:56 GMT 2009

Visit	Proposal 11605, Visit 09, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(1-5)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	2MASS1047	RA: 10 47 12.6500 (161.8027083d) Dec: +40 26 43.70 (40.44547d) Equinox: J2000	Proper Motion RA: -0.02645s/yr Proper Motion Dec: -0.035"/yr Epoch of Position: 2000	V=16+/-1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(9) 2MASS1047	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F625W	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	50 Secs [==>53.0 Secs (Pattern 1)] [==>53.0 Secs (Pattern 2)] [==>53.0 Secs (Pattern 3)] [==>53.0 Secs (Pattern 4)]	[1]
	2		(9) 2MASS1047	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F775W	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	30 Secs [==>33.0 Secs (Pattern 1)] [==>33.0 Secs (Pattern 2)] [==>33.0 Secs (Pattern 3)] [==>33.0 Secs (Pattern 4)]	[1]
	3		(9) 2MASS1047	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F850LP	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	20 Secs [==>23.0 Secs (Pattern 1)] [==>23.0 Secs (Pattern 2)] [==>23.0 Secs (Pattern 3)] [==>23.0 Secs (Pattern 4)]	[1]
	4		(9) 2MASS1047	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F658N	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	150 Secs [==>153.0 Secs (Pattern 1)] [==>153.0 Secs (Pattern 2)] [==>153.0 Secs (Pattern 3)] [==>153.0 Secs (Pattern 4)]	[1]

Proposal 11605 - Visit 09 - Obtaining the Missing Links in the Test of Very Low Mass Evolutionary Models with HST

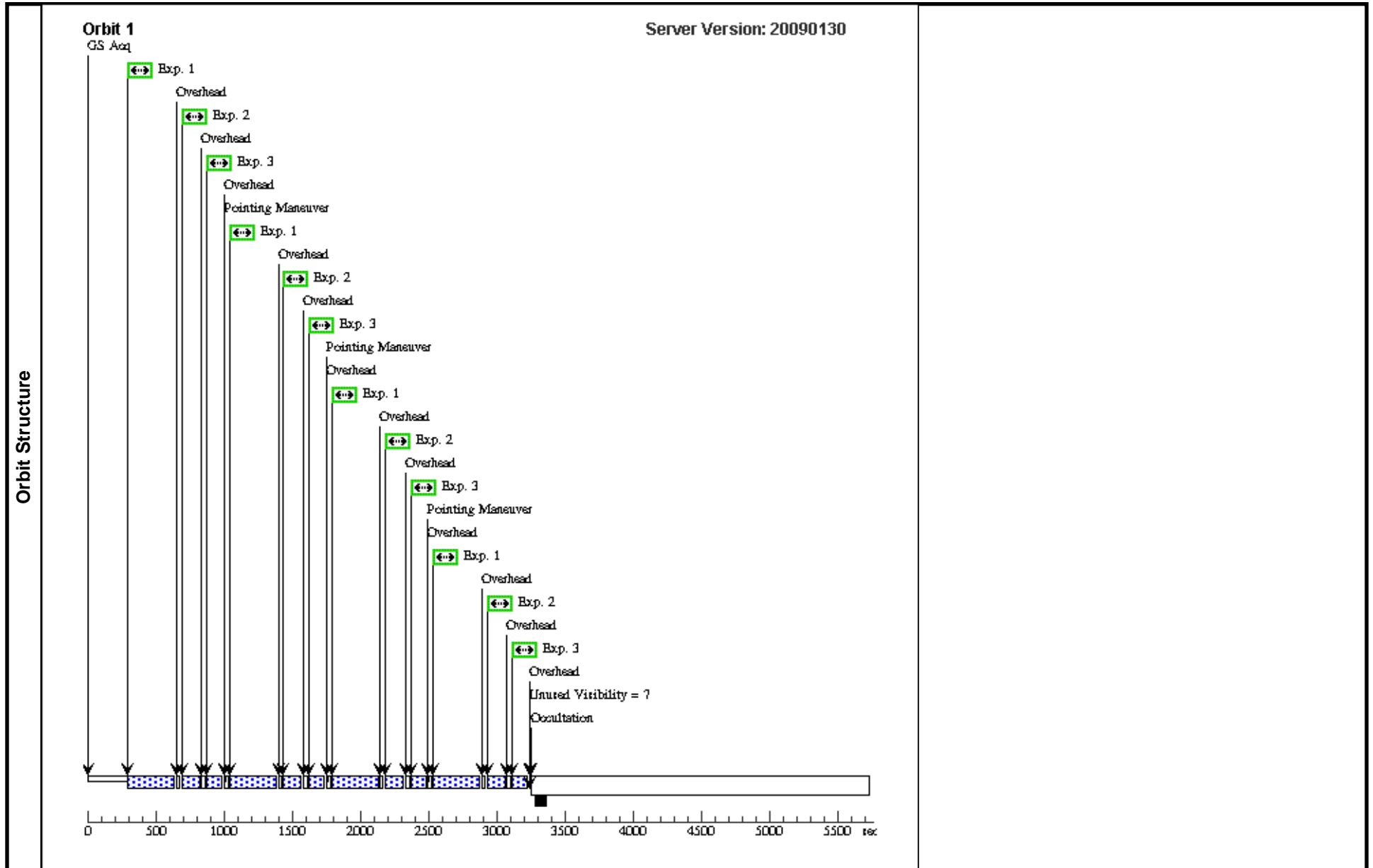
Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	5		(9) 2MASS1047	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F953N	CR-SPLIT=NO		Pattern 1, Exps 1-5 (1)	120 Secs [==>123.0 Secs (Pattern 1)] [==>123.0 Secs (Pattern 2)] [==>123.0 Secs (Pattern 3)] [==>123.0 Secs (Pattern 4)]	[1]



Proposal 11605 - Visit 10 - Obtaining the Missing Links in the Test of Very Low Mass Evolutionary Models with HST

Tue Jun 30 02:18:56 GMT 2009

Visit	Proposal 11605, Visit 10, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures
		(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false				(1-3)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous		
	(10)	LHS2397A	RA: 11 21 49.2500 (170.4552083d) Dec: -13 13 8.40 (-13.21900d) Equinox: J2000	Proper Motion RA: -0.0347s/yr Proper Motion Dec: -0.080"/yr Epoch of Position: 2000	V=20+/-1		Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(10) LHS2397A	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F625W	CR-SPLIT=NO		Pattern 1, Exps 1-3 (1)	250 Secs [==>313.0 Secs (Pattern 1)] [==>313.0 Secs (Pattern 2)] [==>313.0 Secs (Pattern 3)] [==>313.0 Secs (Pattern 4)]	[1]
	2		(10) LHS2397A	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F775W	CR-SPLIT=NO		Pattern 1, Exps 1-3 (1)	50 Secs [==>113.0 Secs (Pattern 1)] [==>113.0 Secs (Pattern 2)] [==>113.0 Secs (Pattern 3)] [==>113.0 Secs (Pattern 4)]	[1]
	3		(10) LHS2397A	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F850LP	CR-SPLIT=NO		Pattern 1, Exps 1-3 (1)	30 Secs [==>93.0 Secs (Pattern 1)] [==>93.0 Secs (Pattern 2)] [==>93.0 Secs (Pattern 3)] [==>93.0 Secs (Pattern 4)]	[1]



Proposal 11605 - Visit 11 - Obtaining the Missing Links in the Test of Very Low Mass Evolutionary Models with HST

Tue Jun 30 02:18:57 GMT 2009

Visit	Proposal 11605, Visit 11, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: AFTER 01-AUG-2010:00:00:00									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false					(1-2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(11)	SDSS1021	RA: 10 21 9.6900 (155.2903750d) Dec: -03 04 20.10 (-3.07225d) Equinox: J2000	Proper Motion RA: 0.0s/yr Proper Motion Dec: 0.0"/yr Epoch of Position: 2000		V=23+/-0.1 B-V=0.5	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(11) SDSS1021	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F775W	CR-SPLIT=NO	GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-2 (1)	300 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
2		(11) SDSS1021	WFC3/UVIS, ACCUM, UVIS1-C512B-SUB	F850LP	CR-SPLIT=NO		Pattern 1, Exps 1-2 (1)	280 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	

