



11570 - Narrowing in on the Hubble Constant and Dark Energy

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	(2) MESSIER-106-1	WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:02:57.0	yes
02	(10) MESSIER-106-2	WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:03:03.0	yes
03	(11) MESSIER-106-3	WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:03:08.0	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>
05	(13) MESSIER-106-5	WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:03:13.0	yes
06	(14) MESSIER-106-6	WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:03:17.0	yes
07	(15) MESSIER-106-7	WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:03:22.0	yes
08	(16) MESSIER-106-8	WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:03:28.0	yes
09	(17) MESSIER-106-9	WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:03:32.0	yes
10	(18) MESSIER-106-10	WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:03:36.0	yes
11	(19) MESSIER-106-11	WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:03:40.0	yes
12	(20) MESSIER-106-12	WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:03:44.0	yes
13	(21) MESSIER-106-13	WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:03:48.0	yes
14	(22) MESSIER-106-14	WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:03:52.0	yes
15	(23) MESSIER-106-15	WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:03:56.0	yes
16	(24) MESSIER-106-16	WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:04:00.0	yes

Proposal 11570 (STScI Edit Number: 29, Created: Monday, April 26, 2010 8:08:45 PM EST) - Overview

<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>
17	(25) MESSIER-106-17	WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:04:05.0	yes
44	(28) MESSIER-106-1-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:04:09.0	yes
45	(29) MESSIER-106-2-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:04:13.0	yes
46	(30) MESSIER-106-3-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:04:16.0	yes
47	(31) MESSIER-106-4-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:04:19.0	yes
48	(32) MESSIER-106-5-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:04:22.0	yes
49	(33) MESSIER-106-6-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:04:27.0	yes
50	(34) MESSIER-106-7-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:04:30.0	yes

Proposal 11570 (STScI Edit Number: 29, Created: Monday, April 26, 2010 8:08:45 PM EST) - Overview

<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>
51	(35) MESSIER-106-8-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:04:33.0	yes
52	(36) MESSIER-106-9-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:04:37.0	yes
53	(37) MESSIER-106-10-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:04:40.0	yes
54	(38) MESSIER-106-11-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:04:43.0	yes
55	(39) MESSIER-106-12-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:04:46.0	yes
56	(40) MESSIER-106-13-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:04:49.0	yes
57	(41) MESSIER-106-14-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:04:52.0	yes
58	(42) MESSIER-106-15-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:04:55.0	yes

Proposal 11570 (STScI Edit Number: 29, Created: Monday, April 26, 2010 8:08:45 PM EST) - Overview

<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>
59	(43) MESSIER-106-16-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:04:58.0	yes
19	(6) NGC-3370	WFC3/IR WFC3/UVIS	2	26-Apr-2010 21:05:05.0	yes
43	(5) NGC-3021	WFC3/IR WFC3/UVIS	2	26-Apr-2010 21:05:12.0	yes
20	(4) NGC-1309	WFC3/IR WFC3/UVIS	3	26-Apr-2010 21:05:22.0	yes
22	(7) NGC-3982	WFC3/IR WFC3/UVIS	2	26-Apr-2010 21:05:30.0	yes
23	(9) NGC-4639	WFC3/IR WFC3/UVIS	3	26-Apr-2010 21:05:38.0	yes
24	(8) NGC-4536	WFC3/IR WFC3/UVIS	2	26-Apr-2010 21:05:44.0	yes
25	(3) NGC-5584-VIS	WFC3/UVIS	2	26-Apr-2010 21:05:50.0	yes
30	(3) NGC-5584-VIS	WFC3/UVIS	2	26-Apr-2010 21:05:54.0	yes
31	(3) NGC-5584-VIS	WFC3/UVIS	3	26-Apr-2010 21:06:00.0	yes
32	(3) NGC-5584-VIS	WFC3/UVIS	3	26-Apr-2010 21:06:06.0	yes
33	(3) NGC-5584-VIS	WFC3/UVIS	3	26-Apr-2010 21:06:14.0	yes
34	(3) NGC-5584-VIS	WFC3/UVIS	3	26-Apr-2010 21:06:20.0	yes
35	(3) NGC-5584-VIS	WFC3/UVIS	2	26-Apr-2010 21:06:25.0	yes
26	(3) NGC-5584-VIS	WFC3/UVIS	2	26-Apr-2010 21:06:29.0	yes

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<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>
40	(3) NGC-5584-VIS	WFC3/UVIS	3	26-Apr-2010 21:06:36.0	yes
36	(3) NGC-5584-VIS	WFC3/UVIS	3	26-Apr-2010 21:06:43.0	yes
38	(3) NGC-5584-VIS	WFC3/UVIS	2	26-Apr-2010 21:06:47.0	yes
0A	(3) NGC-5584-VIS	WFC3/UVIS	1	26-Apr-2010 21:06:50.0	yes
39	(3) NGC-5584-VIS	WFC3/UVIS	2	26-Apr-2010 21:06:54.0	yes
0C	(3) NGC-5584-VIS	WFC3/UVIS	2	26-Apr-2010 21:06:59.0	yes
0D	(3) NGC-5584-VIS	WFC3/UVIS	2	26-Apr-2010 21:07:03.0	yes
41	(27) NGC-5584-IR	WFC3/IR	1	26-Apr-2010 21:07:06.0	yes
42	(27) NGC-5584-IR	WFC3/IR	1	26-Apr-2010 21:07:09.0	yes
84	(28) MESSIER-106-1-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:07:13.0	yes
85	(29) MESSIER-106-2-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:07:18.0	yes
86	(30) MESSIER-106-3-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:07:23.0	yes
87	(31) MESSIER-106-4-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:07:28.0	yes
88	(32) MESSIER-106-5-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:07:35.0	yes

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<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>
89	(33) MESSIER-106-6-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:07:40.0	yes
90	(34) MESSIER-106-7-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:07:45.0	yes
91	(35) MESSIER-106-8-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:07:50.0	yes
92	(33) MESSIER-106-6-COPY (36) MESSIER-106-9-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:07:55.0	yes
93	(37) MESSIER-106-10-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:08:00.0	yes
94	(38) MESSIER-106-11-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:08:07.0	yes
95	(39) MESSIER-106-12-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:08:12.0	yes
96	(40) MESSIER-106-13-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:08:17.0	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>
97	(41) MESSIER-106-14-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:08:22.0	yes
98	(42) MESSIER-106-15-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:08:27.0	yes
99	(43) MESSIER-106-16-COPY	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:08:31.0	yes
0B	(43) MESSIER-106-16-COPY (44) MESSIER-106-13-COPY-REDO	ACS/WFC WFC3/IR WFC3/UVIS	1	26-Apr-2010 21:08:39.0	yes

100 Total Orbits Used

ABSTRACT

A measurement of the Hubble constant to a precision of a few percent would be a powerful aid to the investigation of the nature of dark energy and a potent "end-to-end" test of the present cosmological model. In Cycle 15 we constructed a new, streamlined distance ladder utilizing high-quality type Ia supernova data and observations of Cepheids with HST in the near-IR to minimize the dominant sources of systematic uncertainty in past measurements of the Hubble constant and reduce its total uncertainty to a little under 5%. Here we propose to exploit this new route to reduce the remaining uncertainty by more than 30%, translating into an equal reduction in the uncertainty of the equation of state of dark energy. We propose three sets of observations to reach this goal: a mosaic of NGC 4258 with WFC3 in F160W to triple its sample of long period Cepheids, WFC3/F160W observations of the 6 ideal SN Ia hosts to triple their samples of Cepheids, and observations of NGC 5584 the host of a new SN Ia, SN 2007af, to discover and measure its Cepheids and begin expanding the small set of SN Ia luminosity calibrations. These observations would provide the bulk of a coordinated program aimed at making the measurement of the Hubble constant one of the leading constraints on dark energy.

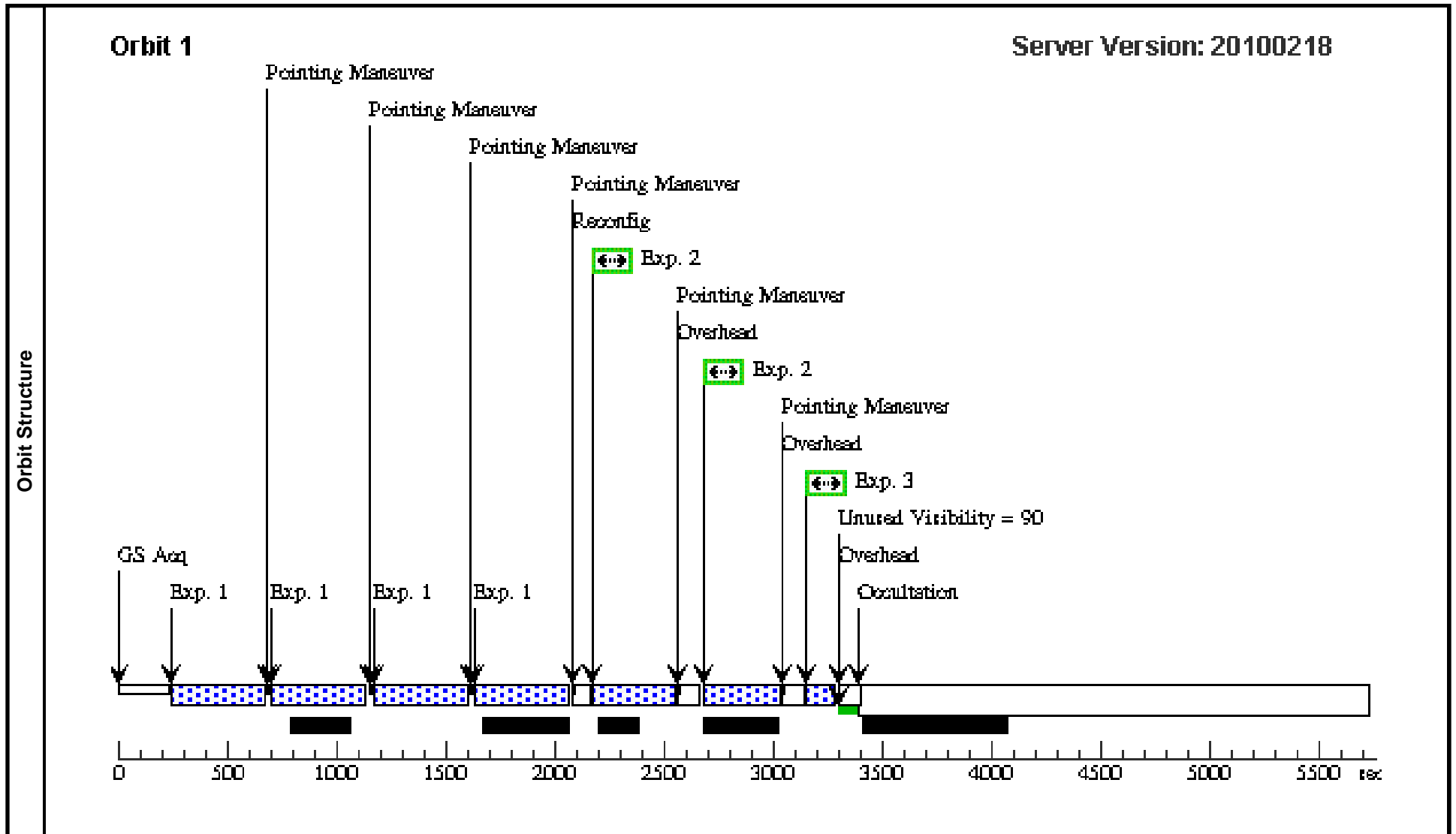
OBSERVING DESCRIPTION

Cepheids in the near-IR and Visible at 20-35 Mpc

Proposal 11570 - Visit 01 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:46 GMT 2010

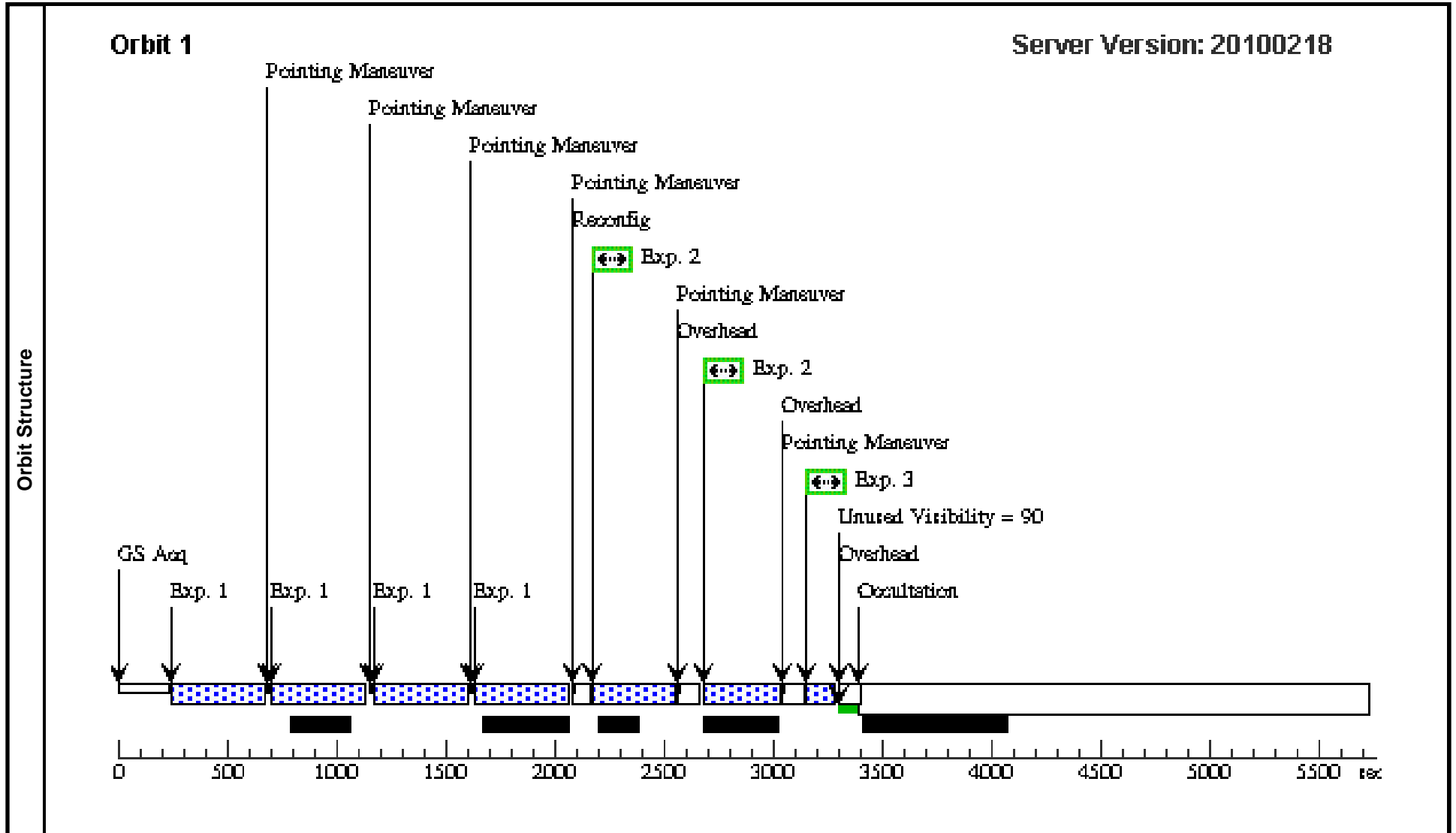
Visit		Proposal 11570, Visit 01, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 113D TO 113 D									
Patterns		#	Primary Pattern	Secondary Pattern	Exposures						
		(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	(1)						
		(3)	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	(2)						
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(2)	MESSIER-106-1	RA: 12 18 54.4181 (184.7267421d) Dec: +47 14 0.57 (47.23349d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
		<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		1		(2) MESSIER-106-1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
		2		(2) MESSIER-106-1	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Pattern 3, Exps 2-2 (3)	350 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
		3		(2) MESSIER-106-1	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO			120 Secs [==>]	[1]



Proposal 11570 - Visit 02 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:47 GMT 2010

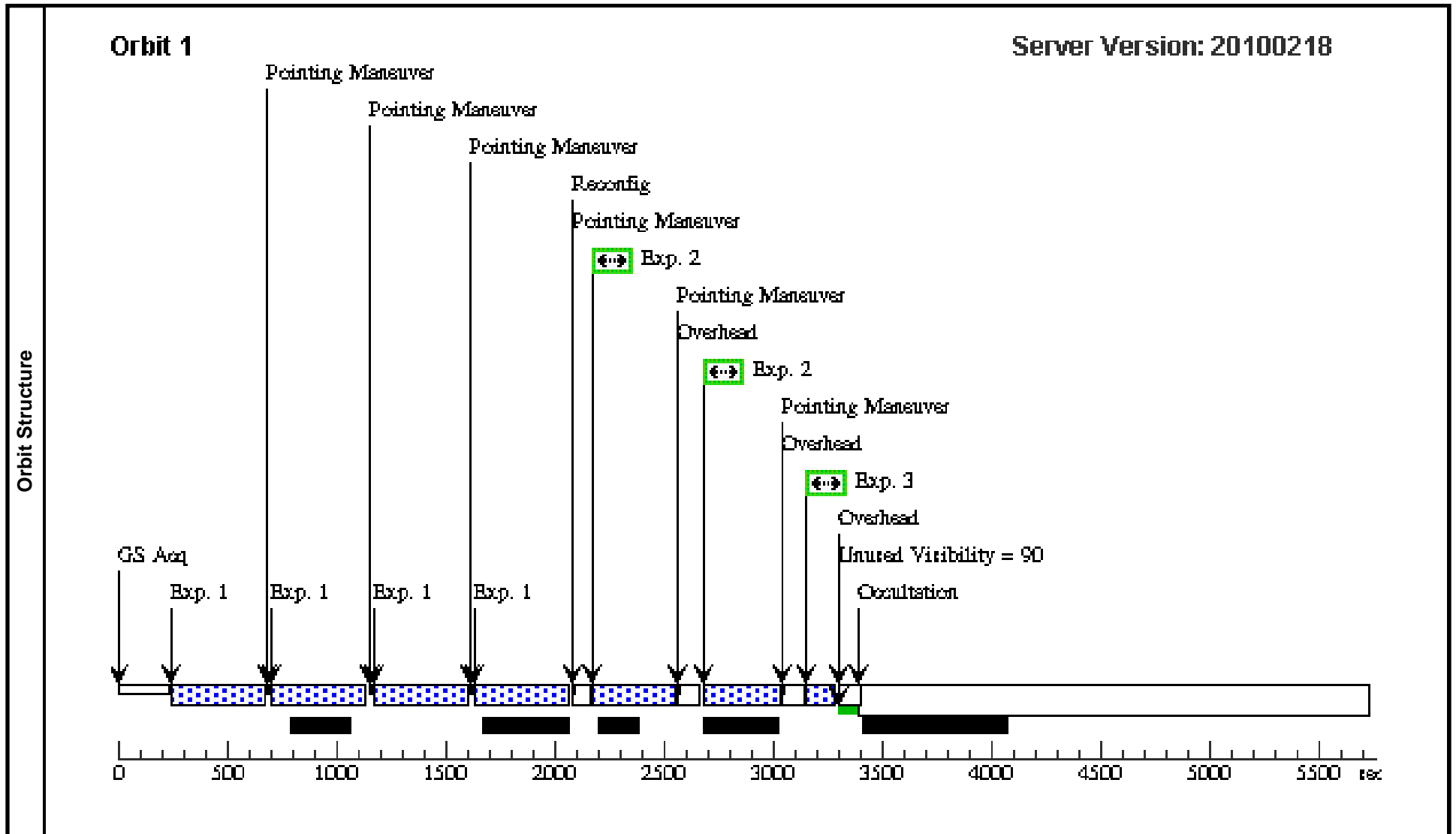
Visit		Proposal 11570, Visit 02, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 203D TO 203 D								
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)					
(3)	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		(2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	MESSIER-106-2	RA: 12 18 49.7736 (184.7073900d) Dec: +47 15 51.94 (47.26443d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(10) MESSIER-106-2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2		(10) MESSIER-106-2	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Pattern 3, Exps 2-2 (3)	350 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3		(10) MESSIER-106-2	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO			120 Secs [==>]	[1]



Proposal 11570 - Visit 03 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:48 GMT 2010

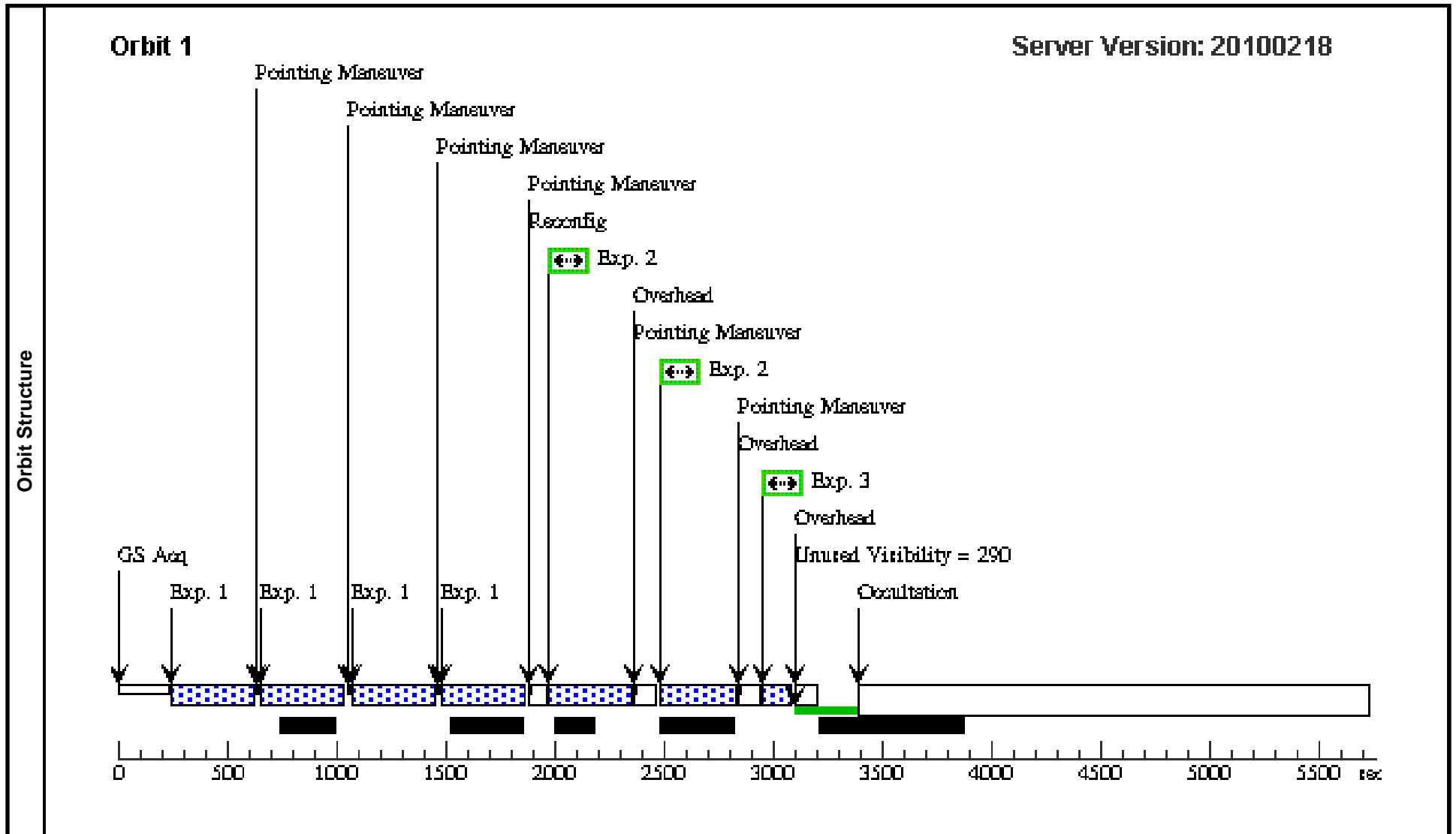
Visit		Proposal 11570, Visit 03, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 113D TO 113 D									
Patterns		#	Primary Pattern	Secondary Pattern	Exposures						
		(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	(1)						
		(3)	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	(2)						
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(11)	MESSIER-106-3	RA: 12 19 6.6991 (184.7779129d) Dec: +47 14 49.48 (47.24708d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
		<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		1		(11) MESSIER-106-3	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
		2		(11) MESSIER-106-3	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Pattern 3, Exps 2-2 (3)	350 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
		3		(11) MESSIER-106-3	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO			120 Secs [==>]	[1]



Proposal 11570 - Visit 05 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:48 GMT 2010

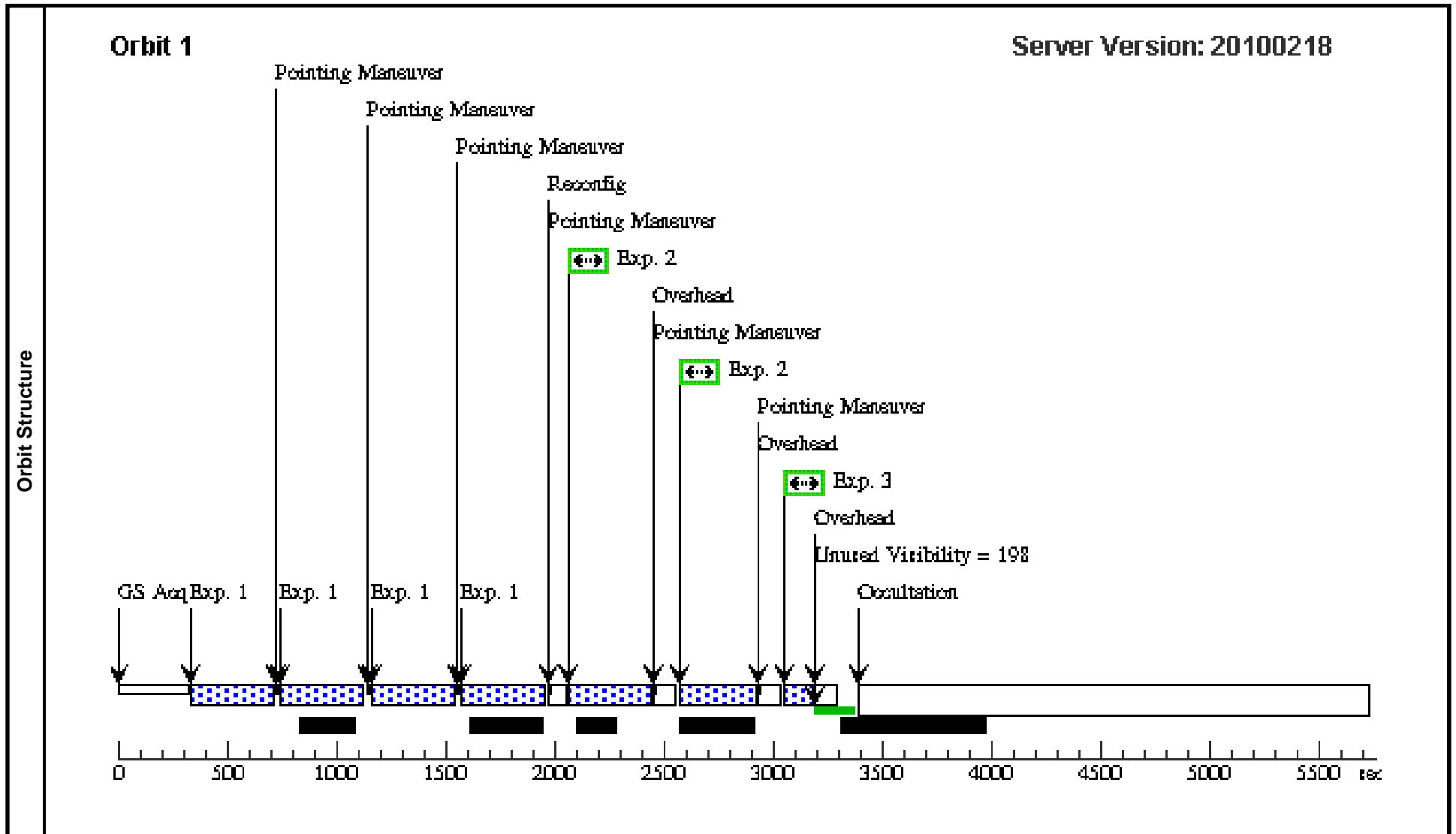
Visit		Proposal 11570, Visit 05, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 140D TO 140 D									
Patterns		#	Primary Pattern	Secondary Pattern	Exposures						
		(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	(1)						
		(3)	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	(2)						
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(13)	MESSIER-106-5	RA: 12 19 20.1835 (184.8340979d) Dec: +47 13 30.74 (47.22521d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
		<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		1		(13) MESSIER-106-5	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=8; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
		2		(13) MESSIER-106-5	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Pattern 3, Exps 2-2 (3)	350 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
		3		(13) MESSIER-106-5	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO			120 Secs [==>]	[1]



Proposal 11570 - Visit 06 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:48 GMT 2010

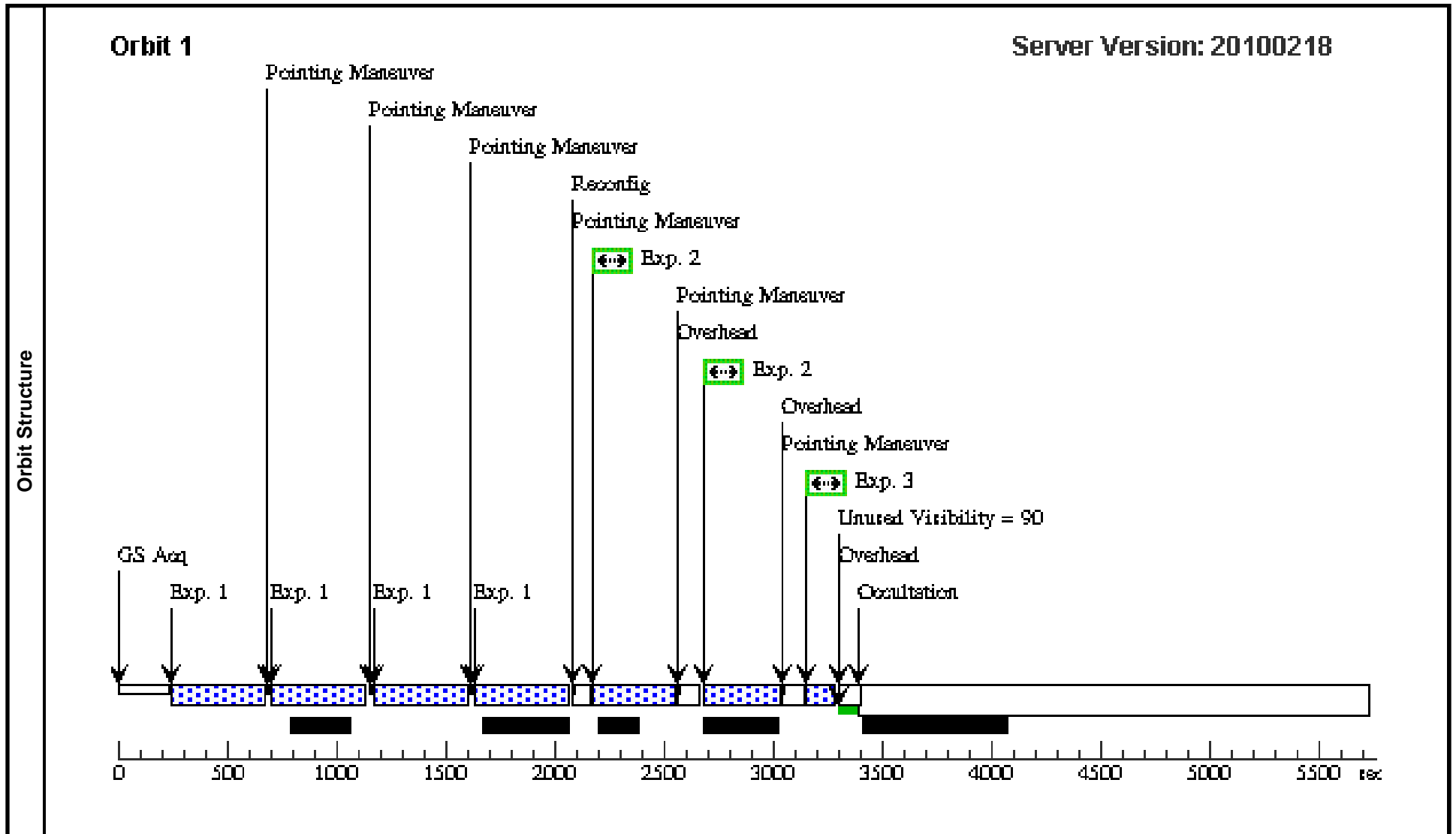
Visit		Proposal 11570, Visit 06, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 255D TO 255 D								
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)					
(3)	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		(2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(14)	MESSIER-106-6	RA: 12 18 39.2533 (184.6635554d) Dec: +47 21 37.59 (47.36044d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> Original RA and dec was 12 19 23.7635 +47 13 13.85										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(14) MESSIER-106-6	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=8; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2		(14) MESSIER-106-6	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Pattern 3, Exps 2-2 (3)	350 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3		(14) MESSIER-106-6	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO			120 Secs [==>]	[1]



Proposal 11570 - Visit 07 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:49 GMT 2010

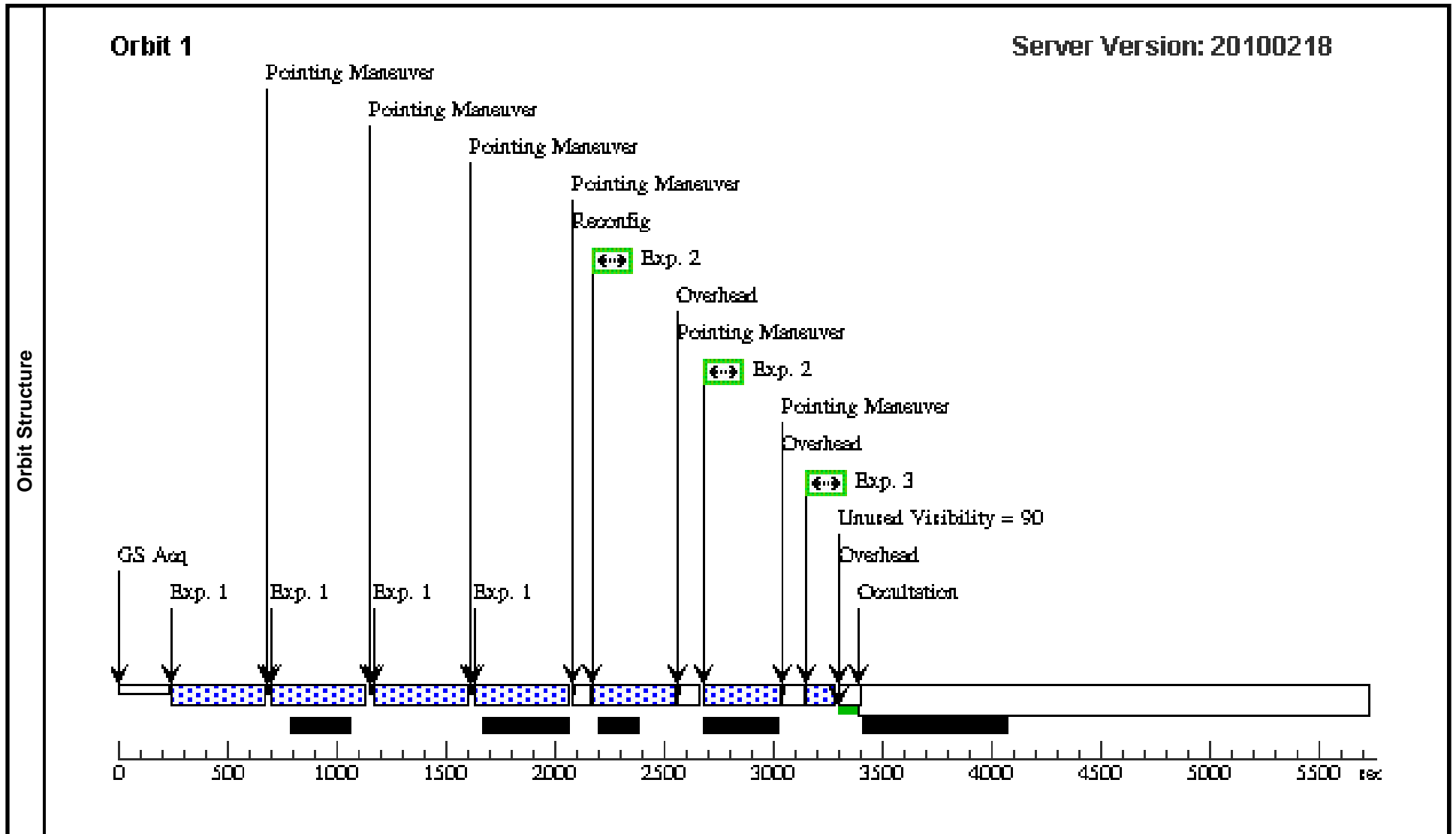
Visit	Proposal 11570, Visit 07, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 203D TO 203 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)				
	(3)	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		(2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(15)	MESSIER-106-7	RA: 12 19 1.6341 (184.7568088d) Dec: +47 16 37.79 (47.27716d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(15) MESSIER-106-7	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2		(15) MESSIER-106-7	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Pattern 3, Exps 2-2 (3)	350 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3		(15) MESSIER-106-7	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO			120 Secs [==>]	[1]



Proposal 11570 - Visit 08 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:49 GMT 2010

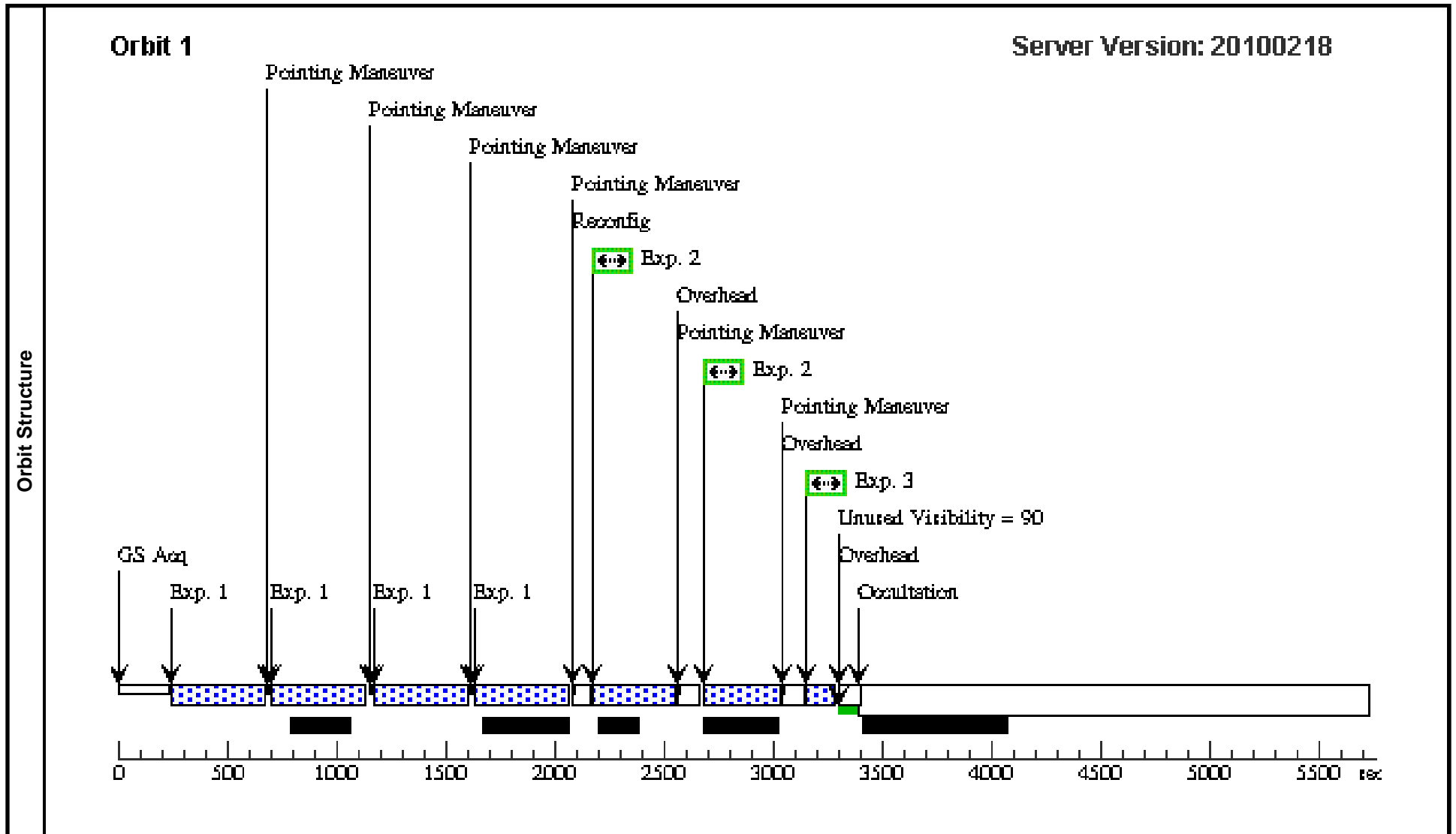
Visit		Proposal 11570, Visit 08, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 120D TO 203 D									
Patterns		#	Primary Pattern	Secondary Pattern	Exposures						
		(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	(1)						
		(3)	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	(2)						
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(16)	MESSIER-106-8	RA: 12 19 13.8879 (184.8078662d) Dec: +47 17 26.65 (47.29074d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
		<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		1		(16) MESSIER-106-8	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
		2		(16) MESSIER-106-8	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Pattern 3, Exps 2-2 (3)	350 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
		3		(16) MESSIER-106-8	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO			120 Secs [==>]	[1]



Proposal 11570 - Visit 09 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:50 GMT 2010

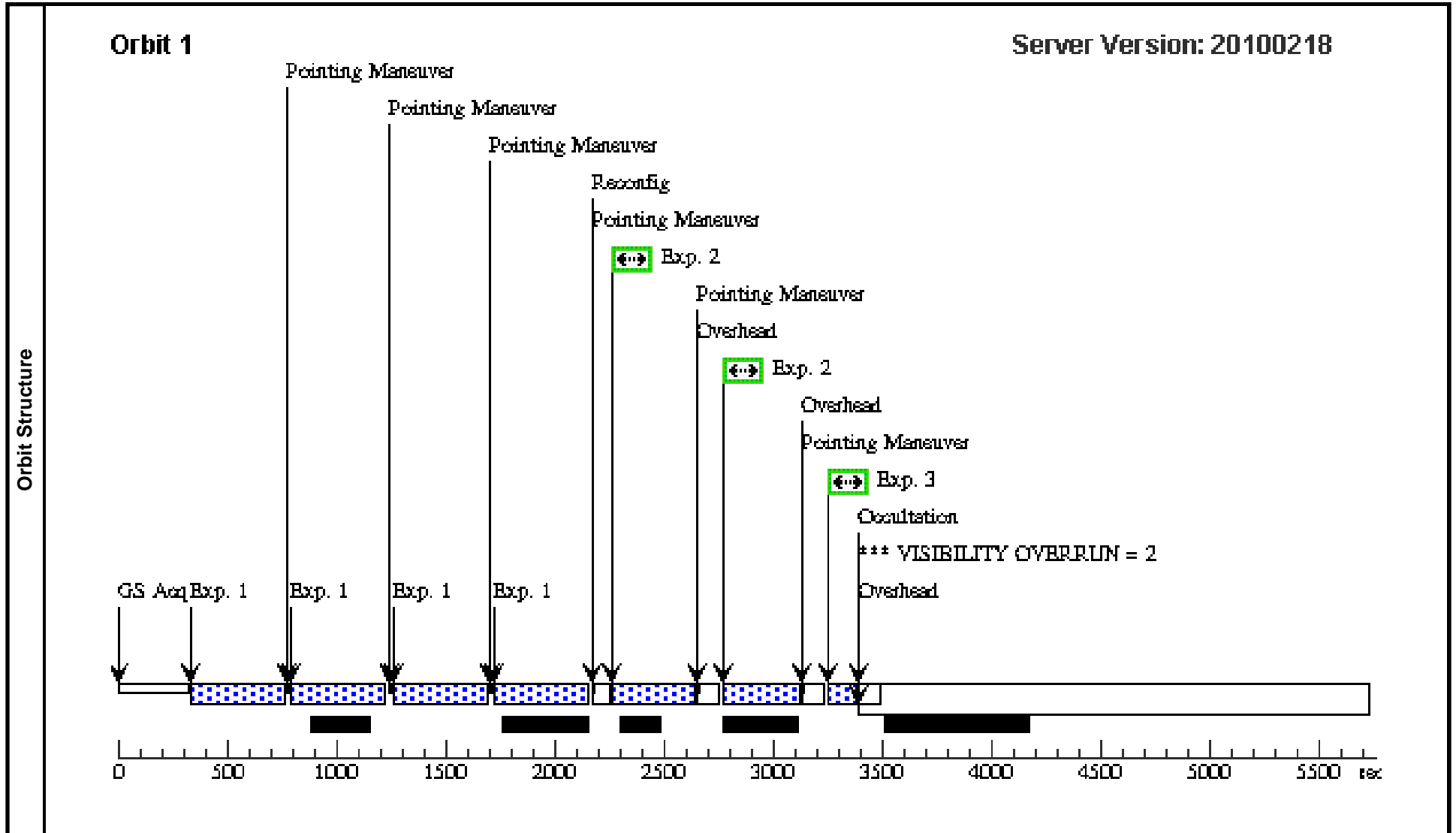
Visit		Proposal 11570, Visit 09, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 113D TO 113 D									
Patterns		#	Primary Pattern	Secondary Pattern	Exposures						
		(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false	(1)						
		(3)	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	(2)						
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
		(17)	MESSIER-106-9	RA: 12 18 45.0009 (184.6875038d) Dec: +47 17 40.45 (47.29457d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
		<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		1		(17) MESSIER-106-9	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
		2		(17) MESSIER-106-9	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Pattern 3, Exps 2-2 (3)	350 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
		3		(17) MESSIER-106-9	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO			120 Secs [==>]	[1]



Proposal 11570 - Visit 10 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:50 GMT 2010

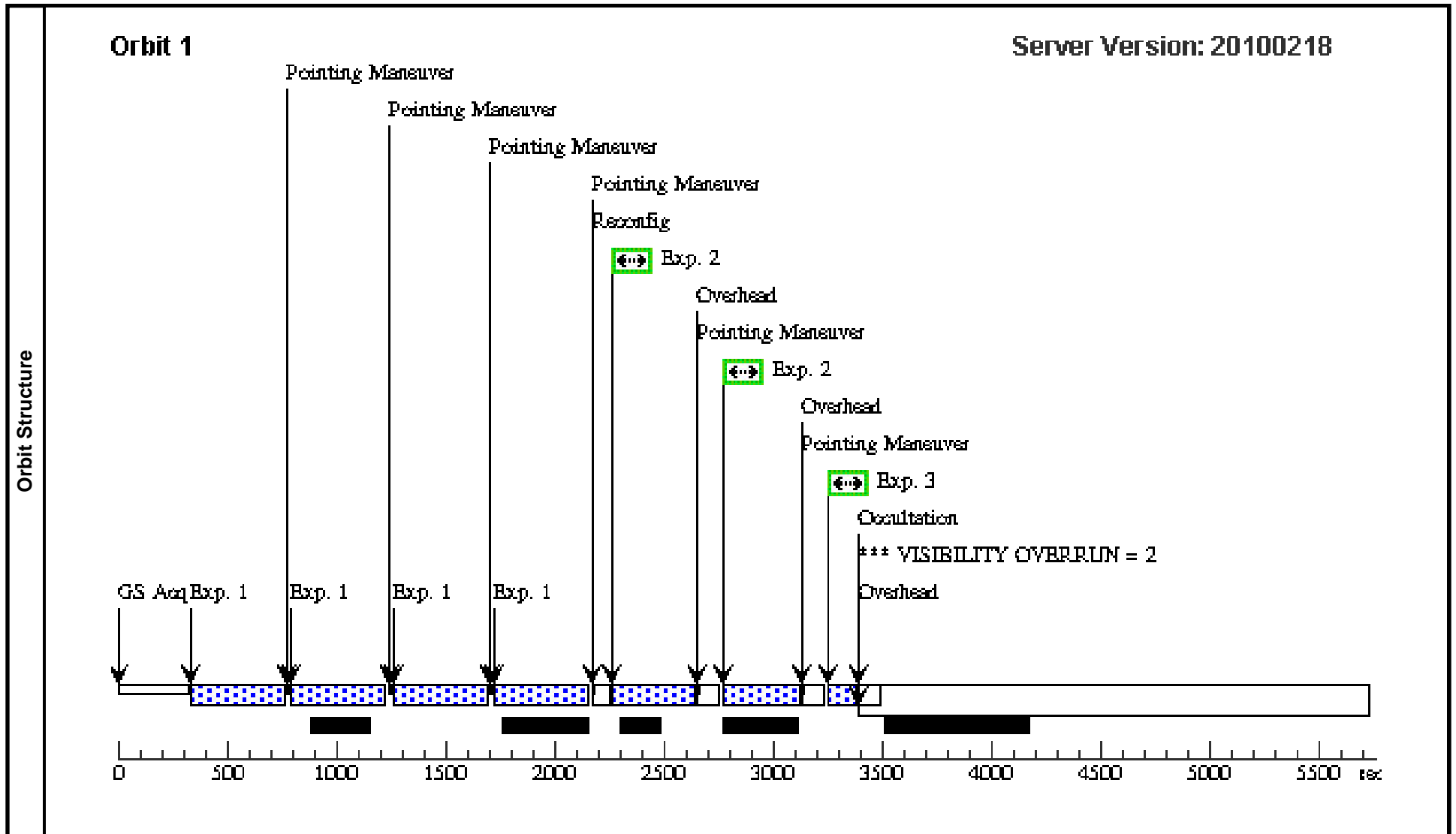
Visit	Proposal 11570, Visit 10, withdrawn Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 113D TO 113 D									
	Diagnosics (Visit 10) Warning (Orbit Planner): VISIBILITY OVERRUN									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)					
(3)	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		(2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(18)	MESSIER-106-10	RA: 12 18 57.3435 (184.7389312d) Dec: +47 18 30.99 (47.30861d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(18) MESSIER-106-10	(18) MESSIER-106-10	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	(18) MESSIER-106-10	(18) MESSIER-106-10	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Pattern 3, Exps 2-2 (3)	350 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(18) MESSIER-106-10	(18) MESSIER-106-10	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO			120 Secs [==>]	[1]



Proposal 11570 - Visit 11 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:50 GMT 2010

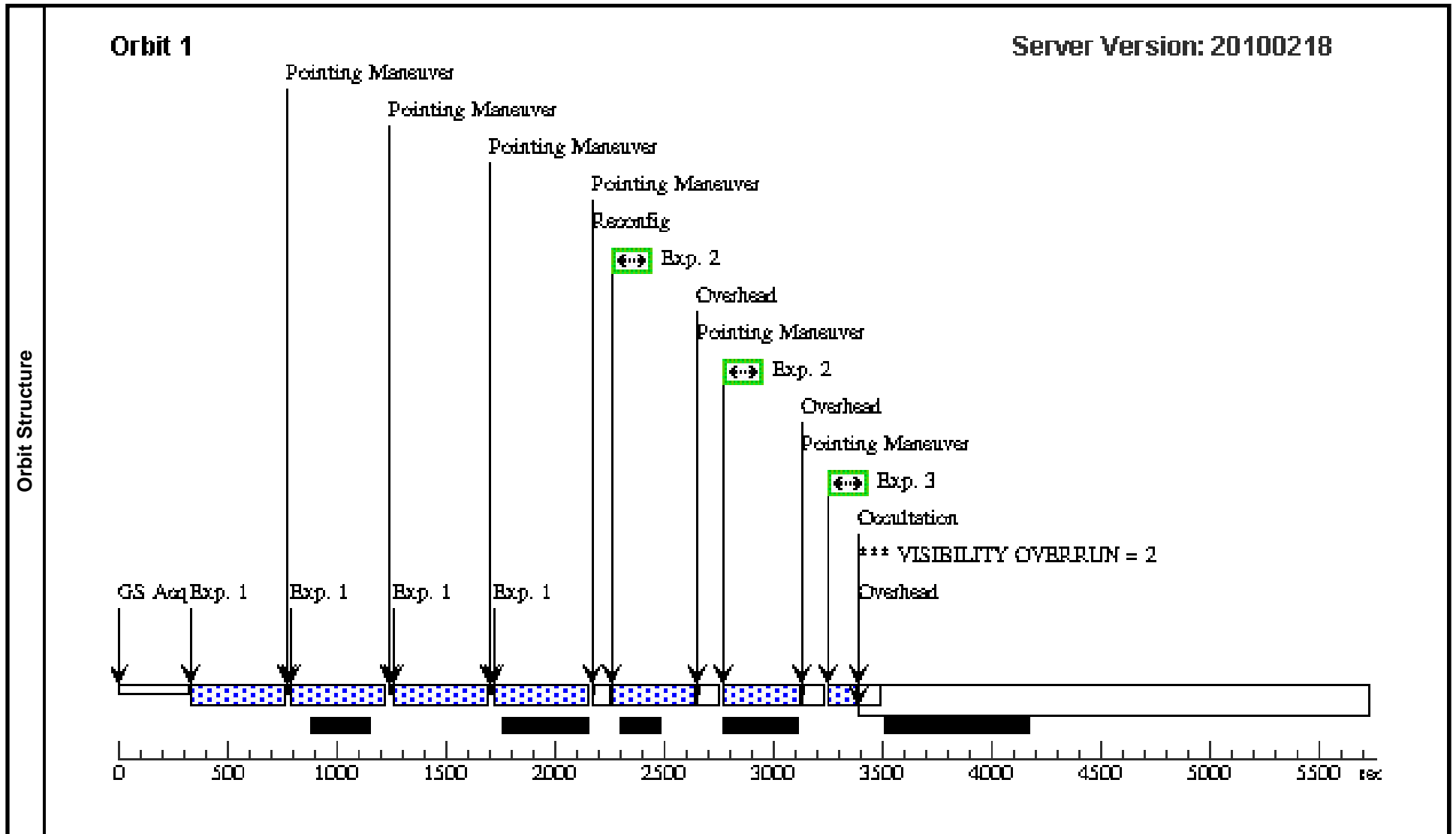
Visit	Proposal 11570, Visit 11, withdrawn Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 113D TO 113 D									
	Diagnosics (Visit 11) Warning (Orbit Planner): VISIBILITY OVERRUN									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)					
(3)	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		(2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(19)	MESSIER-106-11	RA: 12 19 9.9455 (184.7914396d) Dec: +47 19 22.10 (47.32281d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(19) MESSIER-106-11	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	2	(19) MESSIER-106-11	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Pattern 3, Exps 2-2 (3)	350 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]	
	3	(19) MESSIER-106-11	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO			120 Secs [==>]	[1]	



Proposal 11570 - Visit 12 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:51 GMT 2010

Visit	Proposal 11570, Visit 12, withdrawn Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 203D TO 203 D									
	Diagnosics (Visit 12) Warning (Orbit Planner): VISIBILITY OVERRUN									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)					
(3)	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		(2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(20)	MESSIER-106-12	RA: 12 19 5.0836 (184.7711817d) Dec: +47 21 12.01 (47.35334d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(20) MESSIER-106-12	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	2	(20) MESSIER-106-12	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Pattern 3, Exps 2-2 (3)	350 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]	
	3	(20) MESSIER-106-12	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO			120 Secs [==>]	[1]	



Proposal 11570 - Visit 13 - Narrowing in on the Hubble Constant and Dark Energy

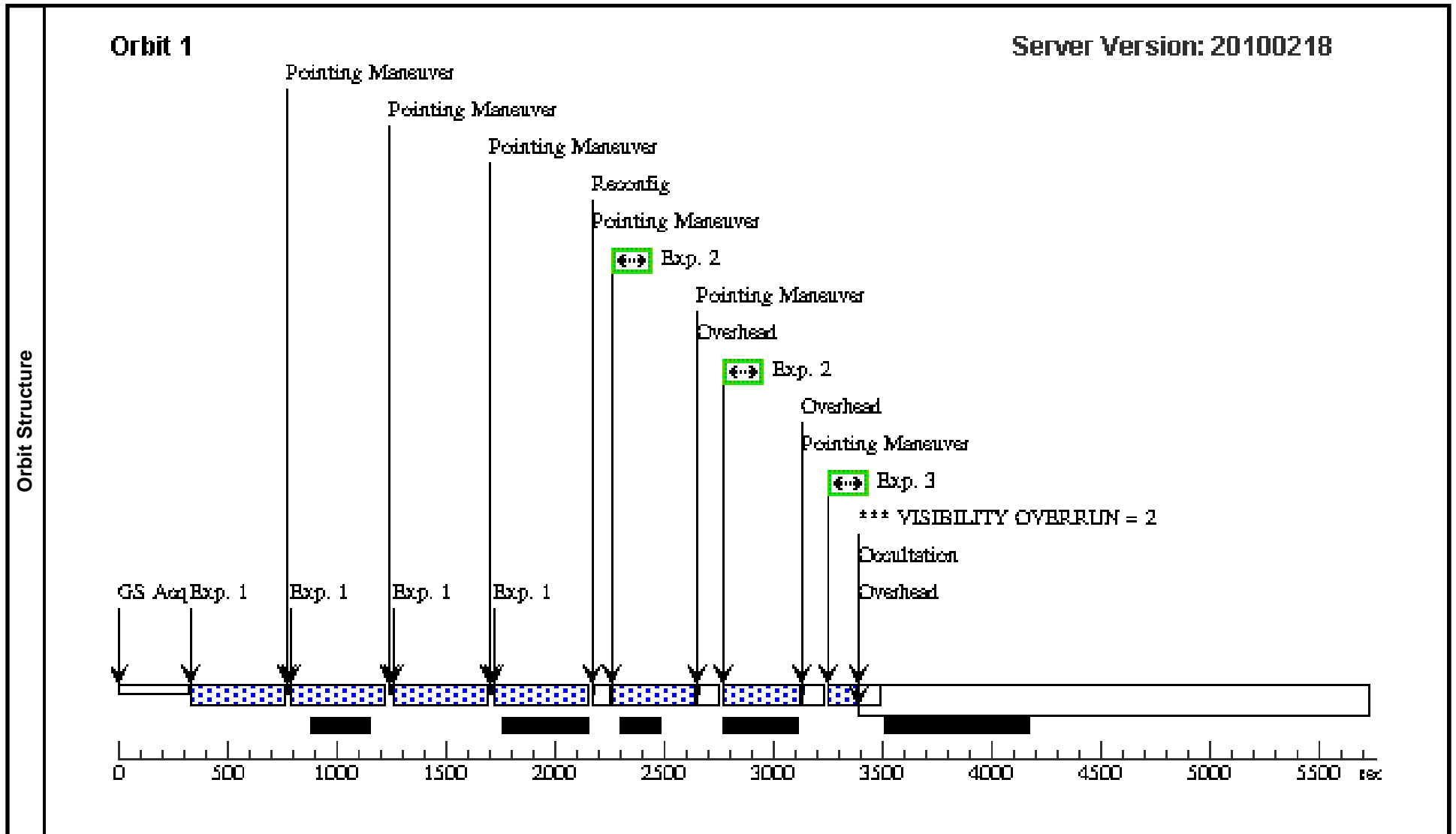
Tue Apr 27 01:08:52 GMT 2010

Visit	Proposal 11570, Visit 13, withdrawn Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 203D TO 203 D									
	Diagnosics (Visit 13) Warning (Orbit Planner): VISIBILITY OVERRUN									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)					
(3)	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		(2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(21)	MESSIER-106-13	RA: 12 18 52.8099 (184.7200412d) Dec: +47 20 20.52 (47.33903d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(21) MESSIER-106-13	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2		(21) MESSIER-106-13	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Pattern 3, Exps 2-2 (3)	350 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3		(21) MESSIER-106-13	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO			120 Secs [==>]	[1]

Proposal 11570 - Visit 14 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:53 GMT 2010

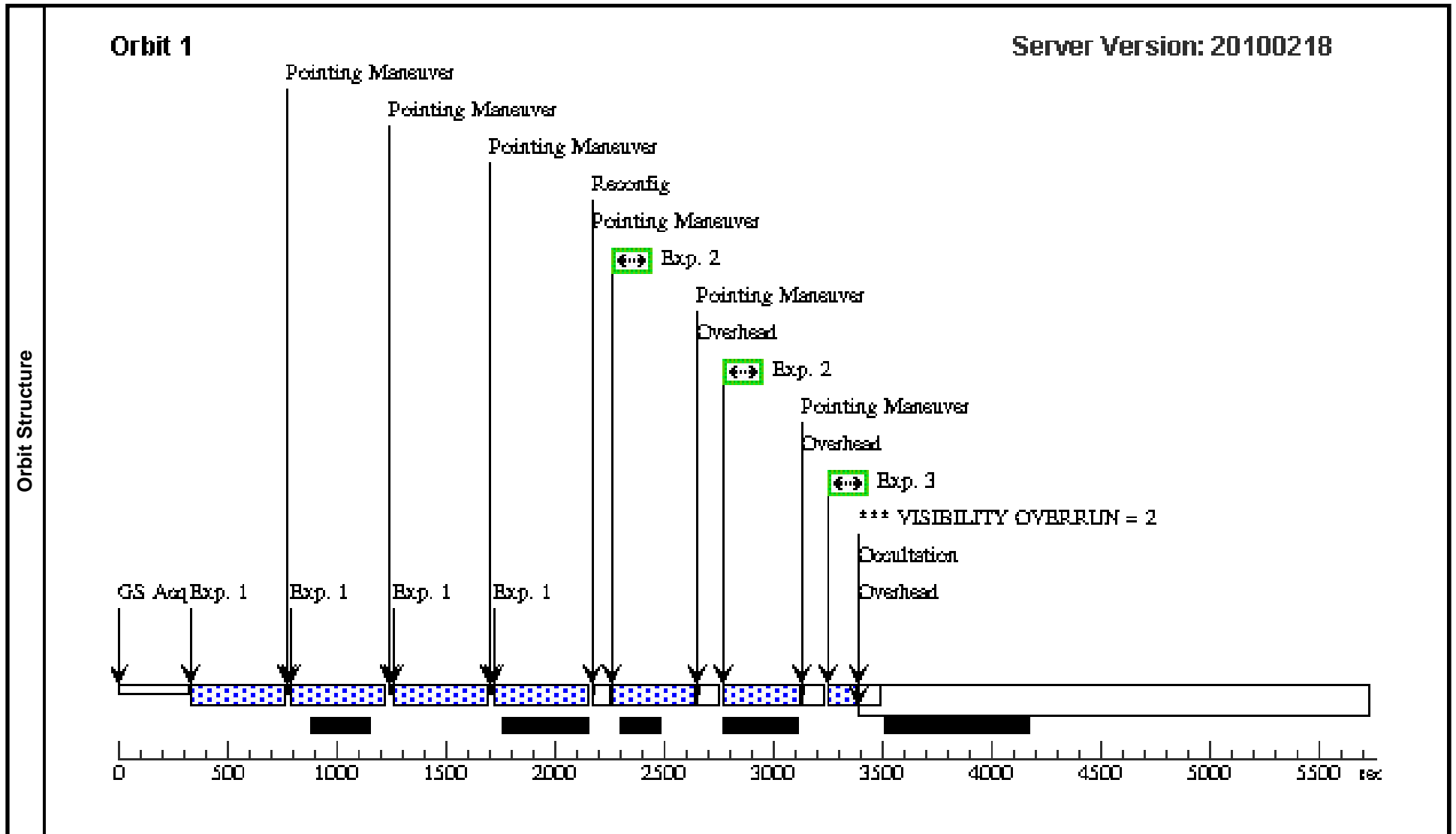
Visit	Proposal 11570, Visit 14, withdrawn Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 203D TO 203 D									
	Diagnosics (Visit 14) Warning (Orbit Planner): VISIBILITY OVERRUN									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)					
(3)	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		(2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(22)	MESSIER-106-14	RA: 12 18 40.3384 (184.6680767d) Dec: +47 19 30.88 (47.32524d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(22) MESSIER-106-14	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50			Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	(22) MESSIER-106-14	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO			Pattern 3, Exps 2-2 (3)	350 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(22) MESSIER-106-14	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO				120 Secs [==>]	[1]



Proposal 11570 - Visit 15 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:53 GMT 2010

Visit	Proposal 11570, Visit 15, withdrawn Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 230D TO 230 D									
	(Visit 15) Warning (Orbit Planner): VISIBILITY OVERRUN									
Diagnostics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)					
Patterns	(3)	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		(2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(23)	MESSIER-106-15	RA: 12 18 51.6048 (184.7150200d) Dec: +47 22 23.29 (47.37314d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(23) MESSIER-106-15	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2		(23) MESSIER-106-15	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Pattern 3, Exps 2-2 (3)	350 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3		(23) MESSIER-106-15	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO			120 Secs [==>]	[1]



Proposal 11570 - Visit 16 - Narrowing in on the Hubble Constant and Dark Energy

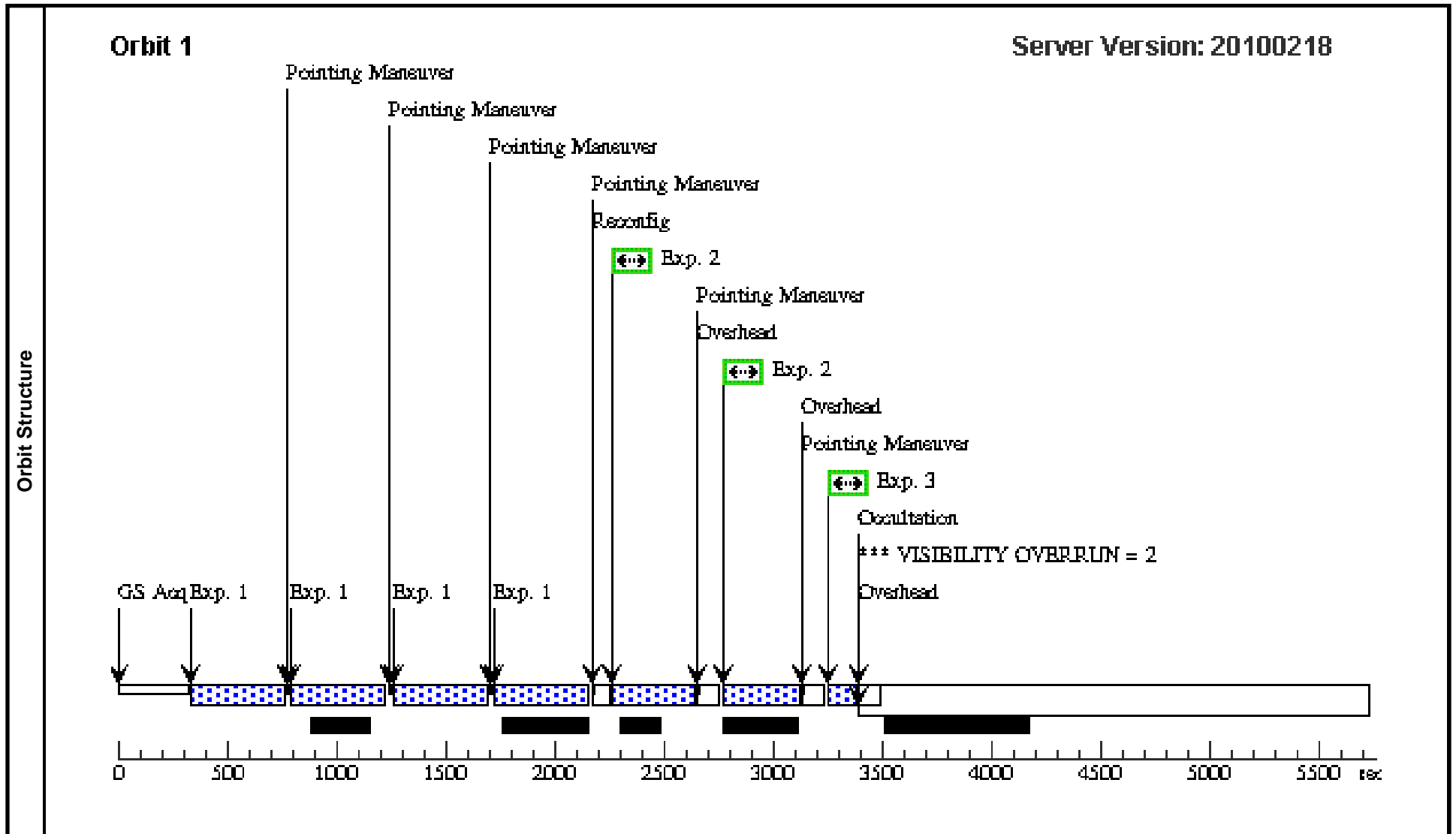
Tue Apr 27 01:08:54 GMT 2010

Visit	Proposal 11570, Visit 16, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 113D TO 113 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
(1)		Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)					
(3)	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		(2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(24)	MESSIER-106-16	RA: 12 19 18.5078 (184.8271158d) Dec: +47 15 36.37 (47.26010d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(24) MESSIER-106-16	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	2	(24) MESSIER-106-16	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Pattern 3, Exps 2-2 (3)	350 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]	
	3	(24) MESSIER-106-16	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO			120 Secs [==>]	[1]	

Proposal 11570 - Visit 17 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:54 GMT 2010

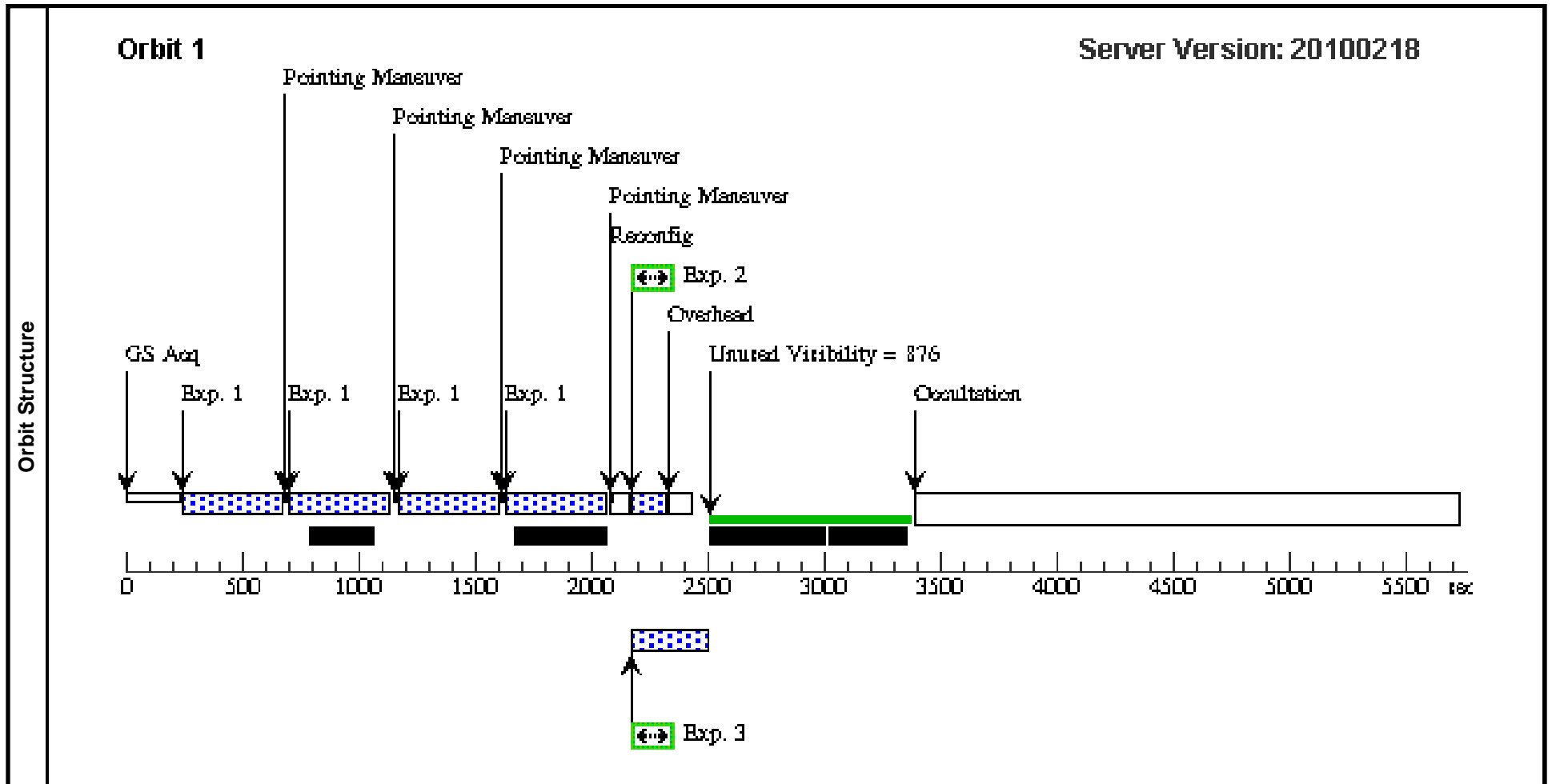
Visit	Proposal 11570, Visit 17, withdrawn Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 168D TO 168 D									
	Diagnosics (Visit 17) Warning (Orbit Planner): VISIBILITY OVERRUN									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)					
(3)	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		(2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(25)	MESSIER-106-17	RA: 12 18 27.1613 (184.6131721d) Dec: +47 22 5.28 (47.36813d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(25) MESSIER-106-17	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50			Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	(25) MESSIER-106-17	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO			Pattern 3, Exps 2-2 (3)	350 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(25) MESSIER-106-17	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO				120 Secs [==>]	[1]



Proposal 11570 - Visit 44 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:55 GMT 2010

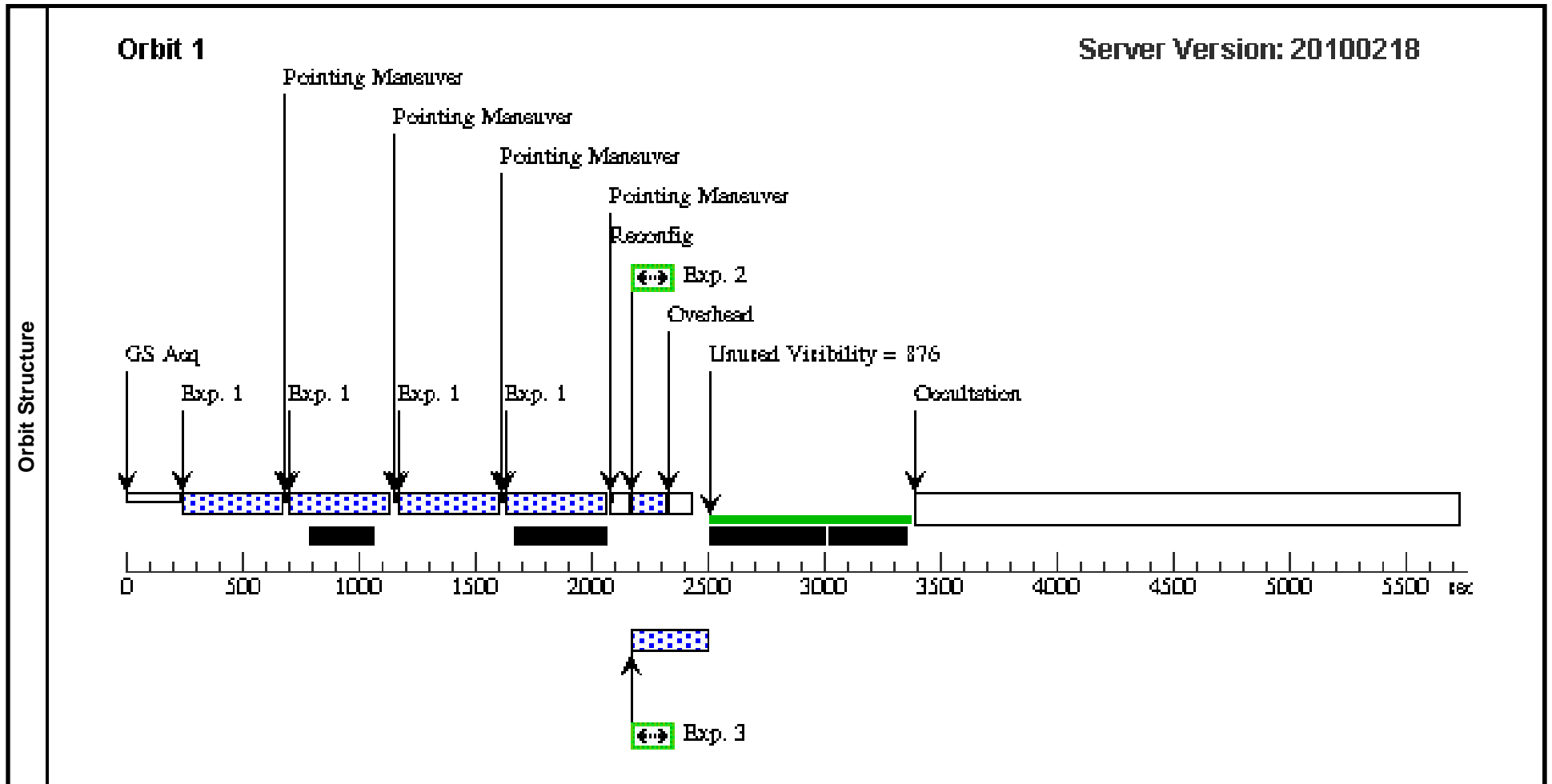
Visit	Proposal 11570, Visit 44, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 113D TO 113 D									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(28)	MESSIER-106-1-COPY	RA: 12 18 54.4181 (184.7267421d) Dec: +47 14 0.57 (47.23349d) Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>		V=11.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(28) MESSIER-106-1-COPY	(28) MESSIER-106-1-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	(28) MESSIER-106-1-COPY	(28) MESSIER-106-1-COPY	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs [==>]	[1]
	3	(28) MESSIER-106-1-COPY	(28) MESSIER-106-1-COPY	ACS/WFC, ACCUM, WFC-FIX	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs [==>]	[1]



Proposal 11570 - Visit 45 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:55 GMT 2010

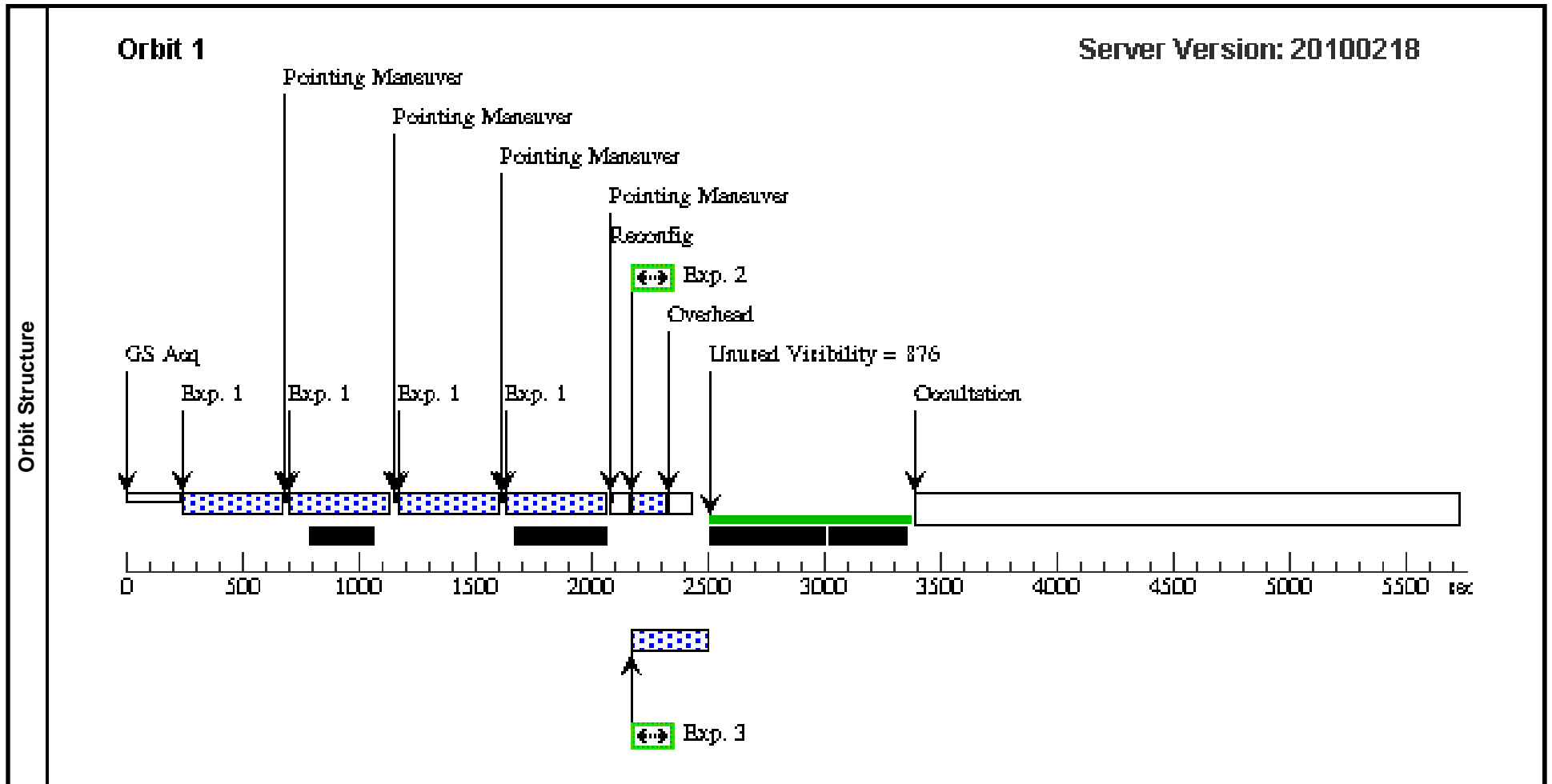
Visit	Proposal 11570, Visit 45, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 113D TO 113 D									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false					(1)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(29)	MESSIER-106-2-COPY	RA: 12 18 49.7736 (184.7073900d) Dec: +47 15 51.94 (47.26443d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(29) MESSIER-106-2-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2		(29) MESSIER-106-2-COPY	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs [==>]	[1]
	3		(29) MESSIER-106-2-COPY	ACS/WFC, ACCUM, WFC-FIX	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs [==>]	[1]



Proposal 11570 - Visit 46 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:55 GMT 2010

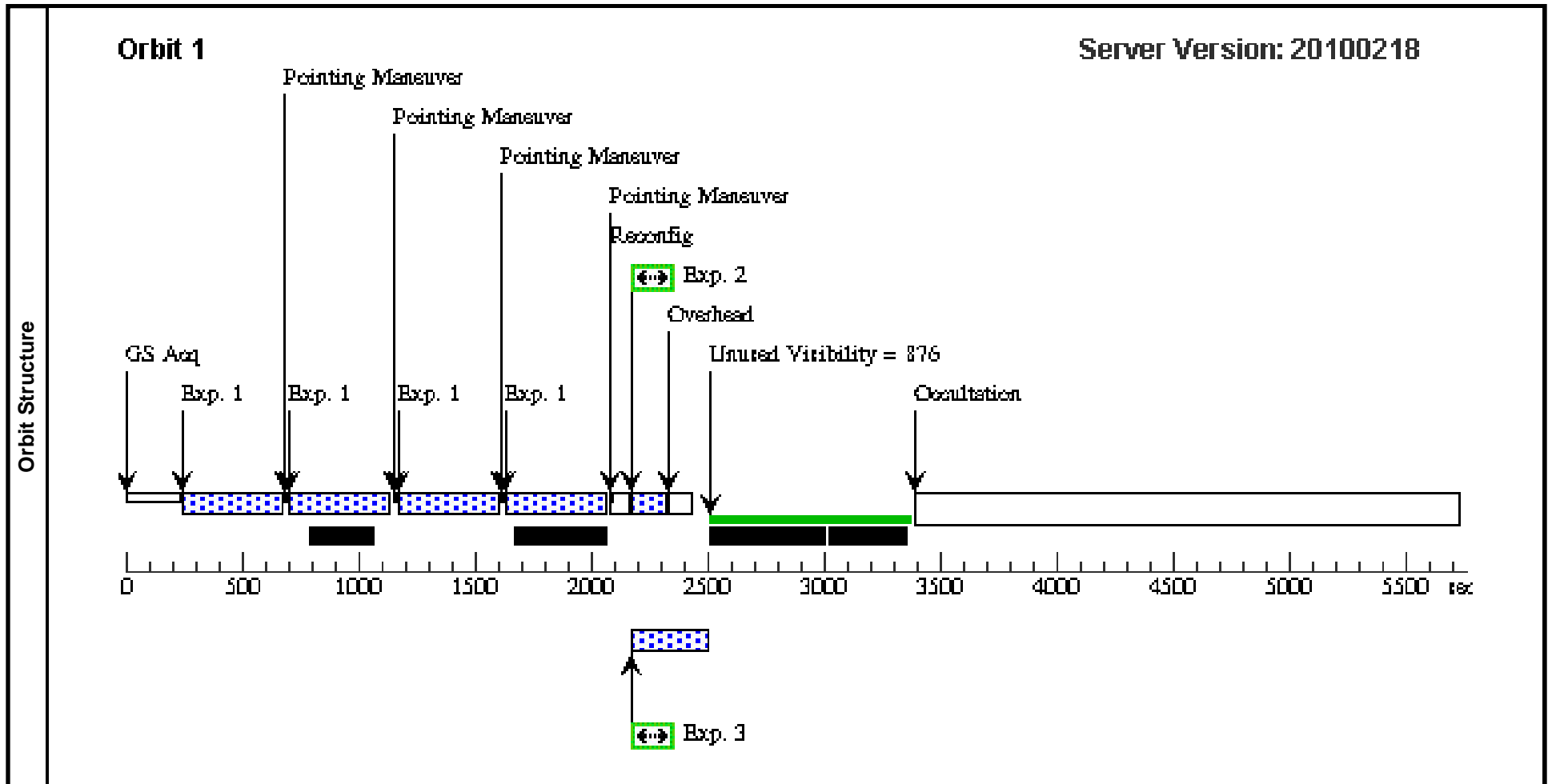
Visit	Proposal 11570, Visit 46, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 113D TO 113 D									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(30)	MESSIER-106-3-COPY	RA: 12 19 6.6991 (184.7779129d) Dec: +47 14 49.48 (47.24708d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(30) MESSIER-106-3-COPY	(30) MESSIER-106-3-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	(30) MESSIER-106-3-COPY	(30) MESSIER-106-3-COPY	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs	[1]
	3	(30) MESSIER-106-3-COPY	(30) MESSIER-106-3-COPY	ACS/WFC, ACCUM, WFC-FIX	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs	[1]



Proposal 11570 - Visit 47 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:55 GMT 2010

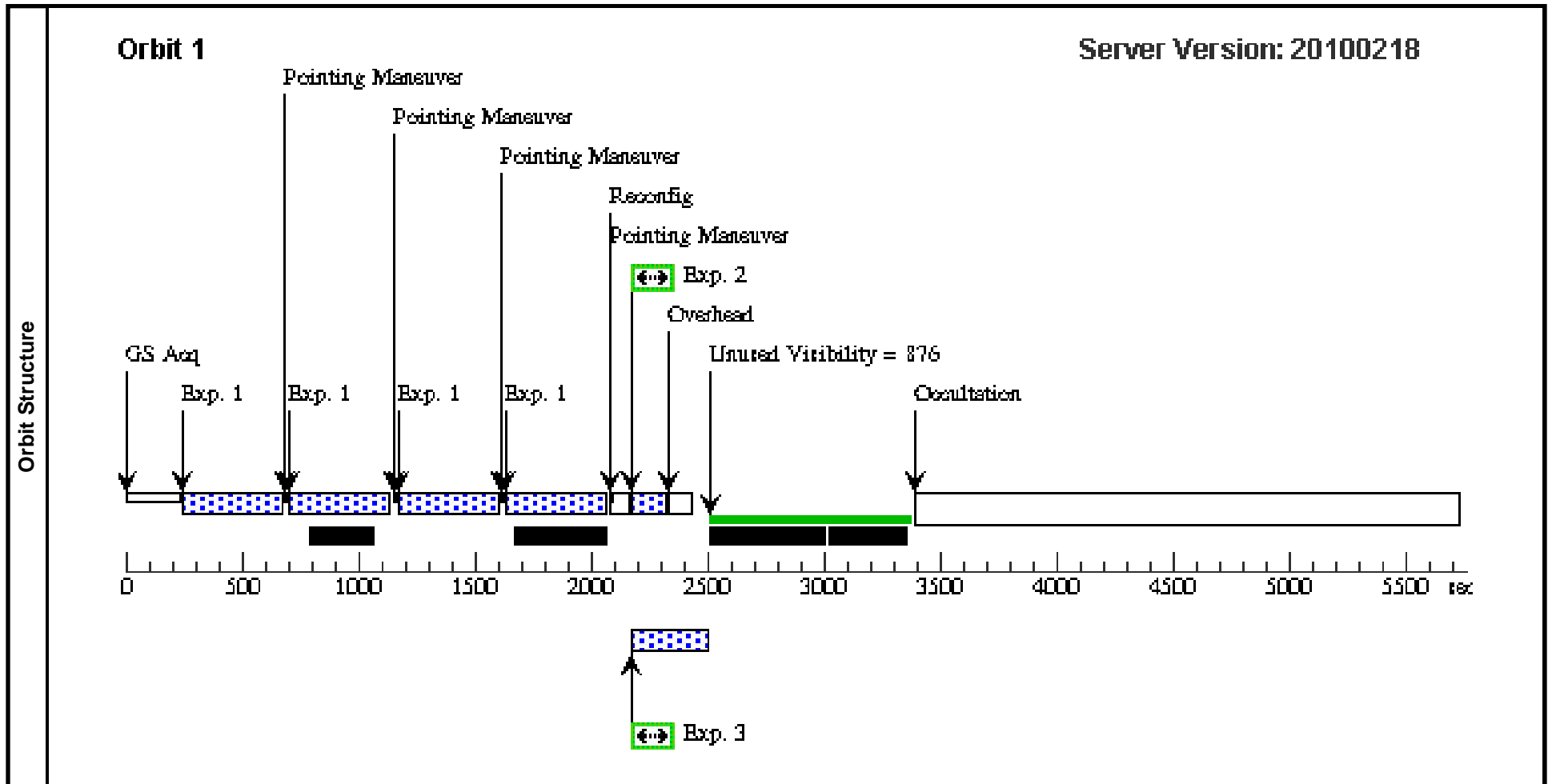
Visit	Proposal 11570, Visit 47, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 113D TO 113 D									
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures
(1)		Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365		Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false					(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous		
	(31)	MESSIER-106-4-COPY	RA: 12 19 7.3720 (184.7807167d) Dec: +47 12 42.92 (47.21192d) Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>				V=11.0	Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(31) MESSIER-106-4-COPY	(31) MESSIER-106-4-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	(31) MESSIER-106-4-COPY	(31) MESSIER-106-4-COPY	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs [==>]	[1]
	3	(31) MESSIER-106-4-COPY	(31) MESSIER-106-4-COPY	ACS/WFC, ACCUM, WFC-FIX	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs [==>]	[1]



Proposal 11570 - Visit 48 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:56 GMT 2010

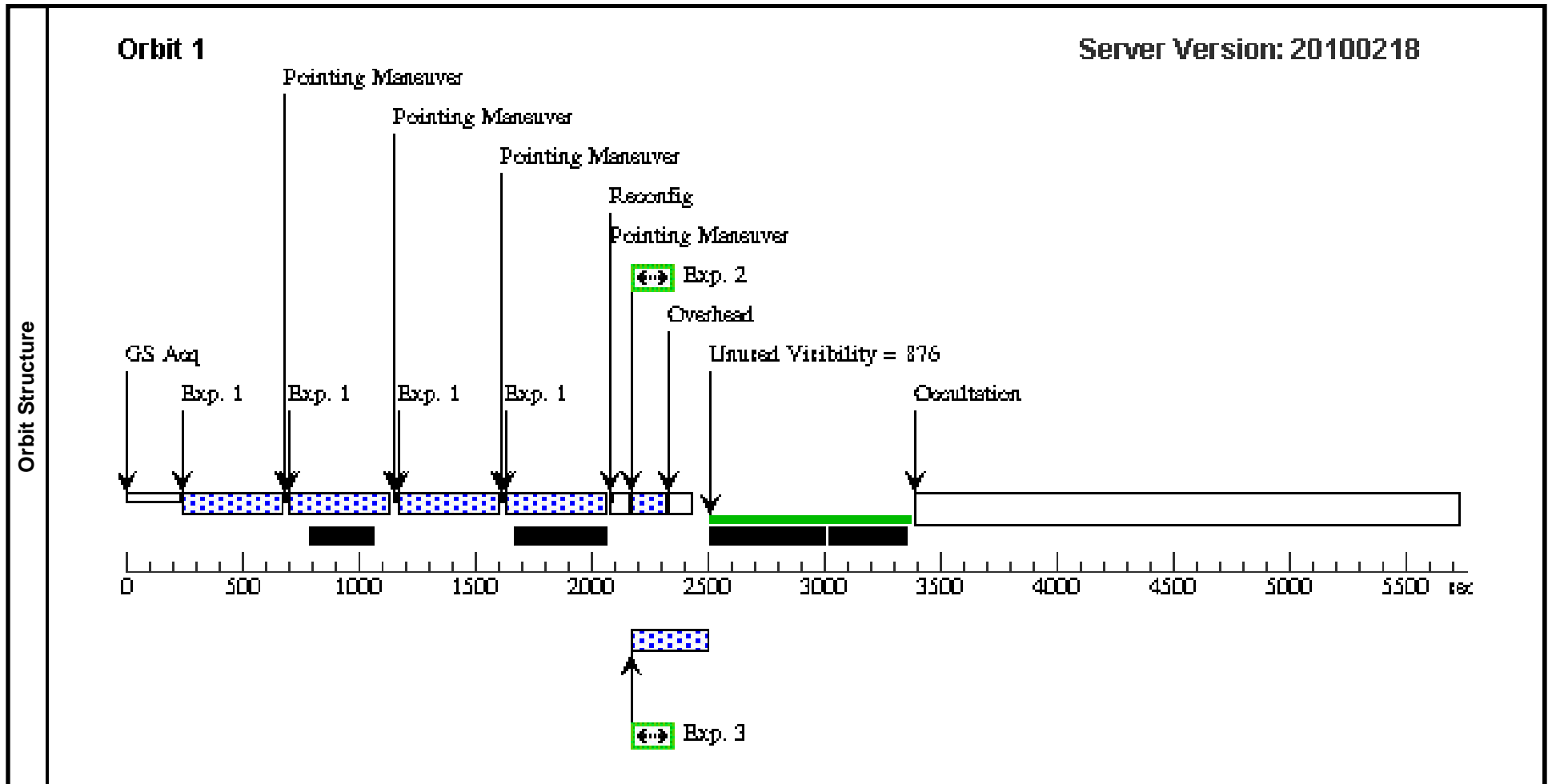
Visit	Proposal 11570, Visit 48, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 113D TO 113 D									
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures
(1)		Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365		Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false					(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous		
	(32)	MESSIER-106-5-COPY	RA: 12 19 20.1835 (184.8340979d) Dec: +47 13 30.74 (47.22521d) Equinox: J2000				V=11.0	Reference Frame: ICRS		
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(32) MESSIER-106-5-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	2	(32) MESSIER-106-5-COPY	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs [==>]	[1]	
	3	(32) MESSIER-106-5-COPY	ACS/WFC, ACCUM, WFC-FIX	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs [==>]	[1]	



Proposal 11570 - Visit 49 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:56 GMT 2010

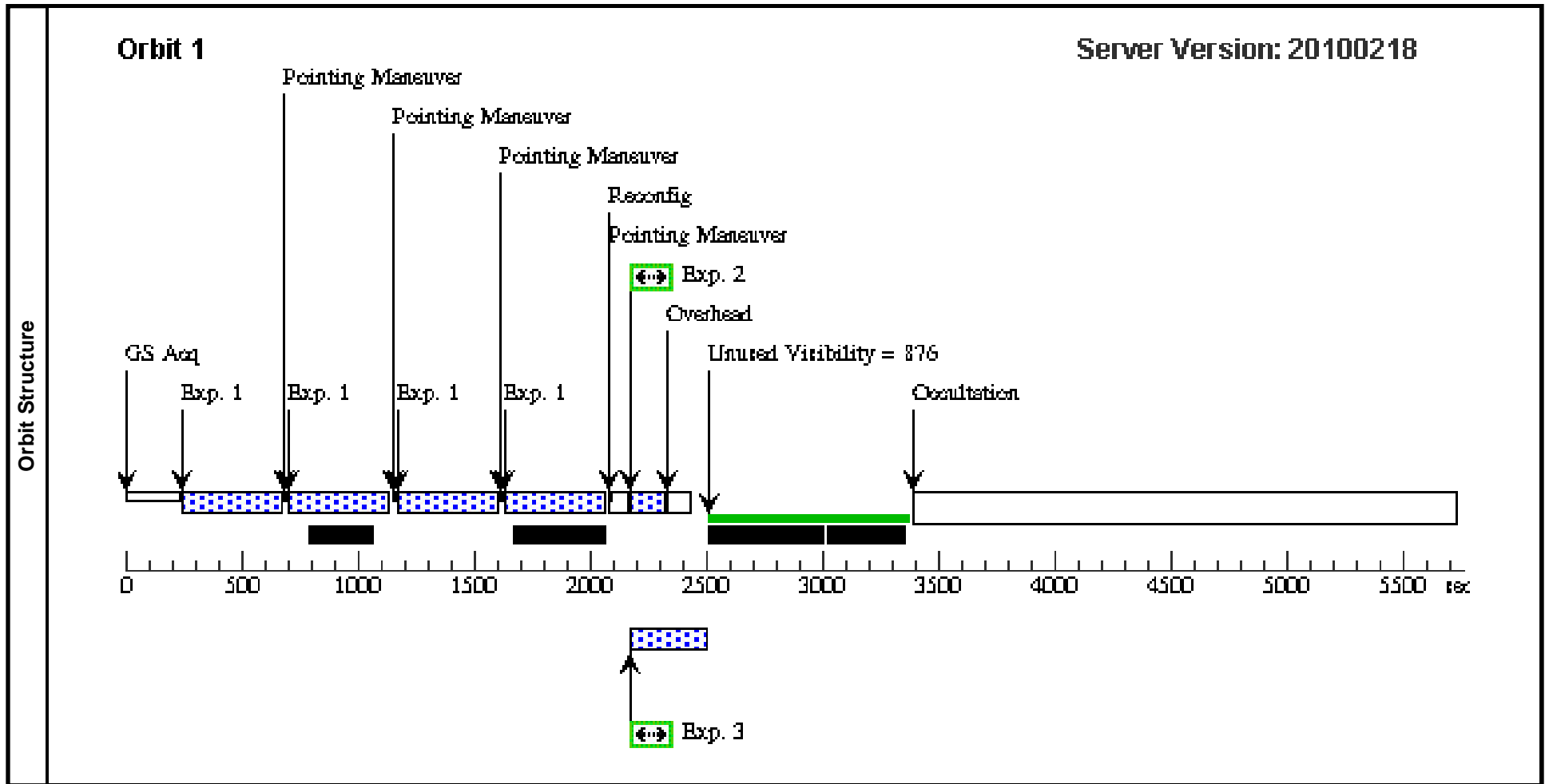
Visit	Proposal 11570, Visit 49, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 293D TO 293 D									
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures
(1)		Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false				(1)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(33)	MESSIER-106-6-COPY	RA: 12 18 39.2533 (184.6635554d) Dec: +47 21 37.59 (47.36044d) Equinox: J2000			V=11.0	Reference Frame: ICRS			
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> <i>Original RA and dec was 12 19 23.7635 +47 13 13.85</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(33) MESSIER-106-6-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	2	(33) MESSIER-106-6-COPY	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs [==>]	[1]	
	3	(33) MESSIER-106-6-COPY	ACS/WFC, ACCUM, WFC-FIX	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs [==>]	[1]	



Proposal 11570 - Visit 50 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:56 GMT 2010

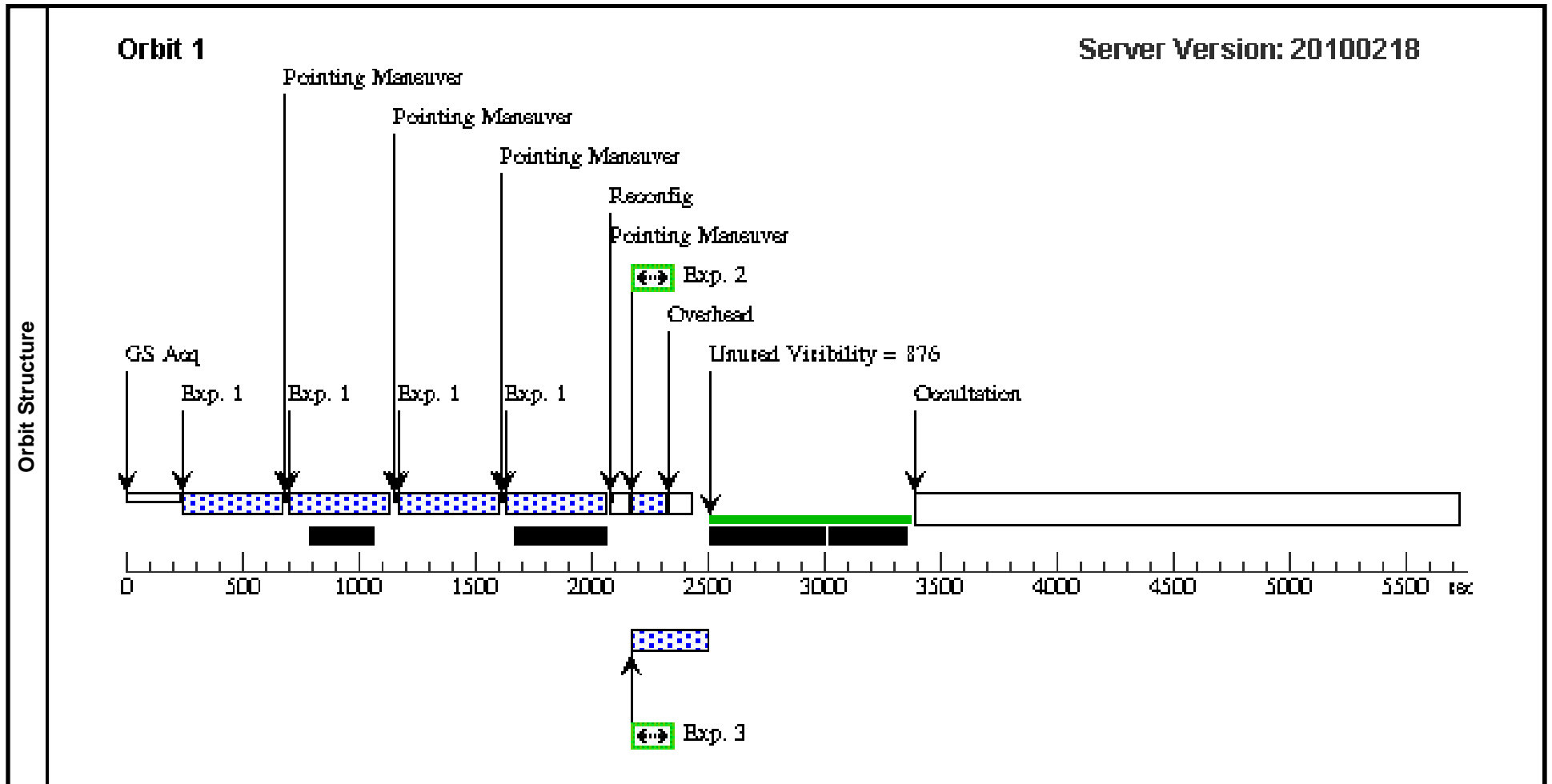
Visit	Proposal 11570, Visit 50, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 119D TO 119 D									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(34)	MESSIER-106-7-COPY	RA: 12 19 1.6341 (184.7568088d) Dec: +47 16 37.79 (47.27716d) Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>		V=11.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(34) MESSIER-106-7-COPY	(34) MESSIER-106-7-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	(34) MESSIER-106-7-COPY	(34) MESSIER-106-7-COPY	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs [==>]	[1]
	3	(34) MESSIER-106-7-COPY	(34) MESSIER-106-7-COPY	ACS/WFC, ACCUM, WFC-FIX	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs [==>]	[1]



Proposal 11570 - Visit 51 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:56 GMT 2010

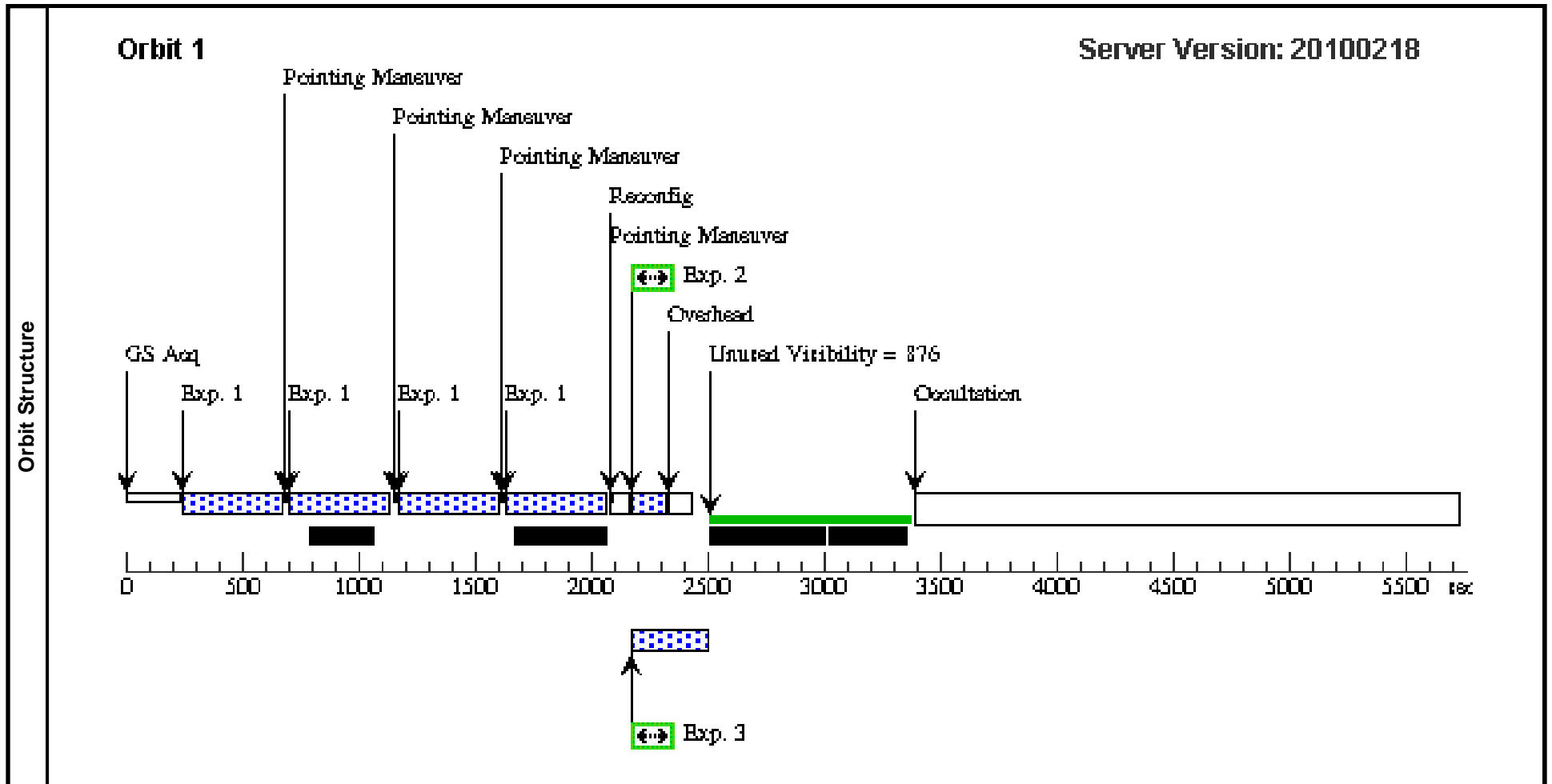
Visit	Proposal 11570, Visit 51, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 113D TO 113 D									
	Patterns	#	Primary Pattern				Secondary Pattern			
(1)		Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365		Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false						(1)
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(35)	MESSIER-106-8-COPY	RA: 12 19 13.8879 (184.8078662d) Dec: +47 17 29.65 (47.29157d) Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>				V=11.0		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(35) MESSIER-106-8-COPY	(35) MESSIER-106-8-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	(35) MESSIER-106-8-COPY	(35) MESSIER-106-8-COPY	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs [==>]	[1]
	3	(35) MESSIER-106-8-COPY	(35) MESSIER-106-8-COPY	ACS/WFC, ACCUM, WFC-FIX	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs [==>]	[1]



Proposal 11570 - Visit 52 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:57 GMT 2010

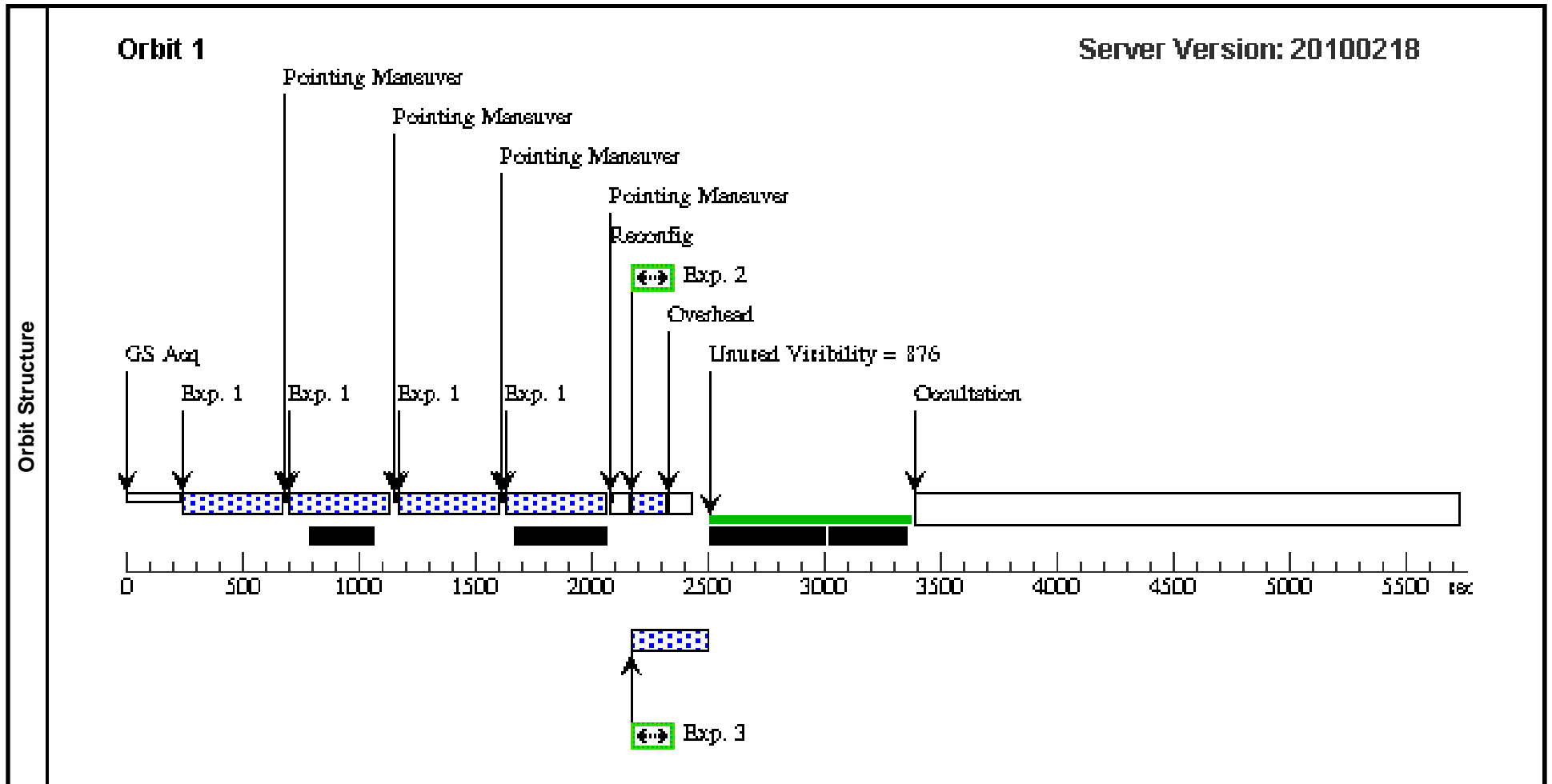
Visit	Proposal 11570, Visit 52, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 294D TO 294 D									
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures
(1)		Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false				(1)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(36)	MESSIER-106-9-COPY	RA: 12 18 45.0009 (184.6875038d) Dec: +47 17 40.45 (47.29457d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(36) MESSIER-106-9-COPY	(36) MESSIER-106-9-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	(36) MESSIER-106-9-COPY	(36) MESSIER-106-9-COPY	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs [==>]	[1]
	3	(36) MESSIER-106-9-COPY	(36) MESSIER-106-9-COPY	ACS/WFC, ACCUM, WFC-FIX	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs [==>]	[1]



Proposal 11570 - Visit 53 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:57 GMT 2010

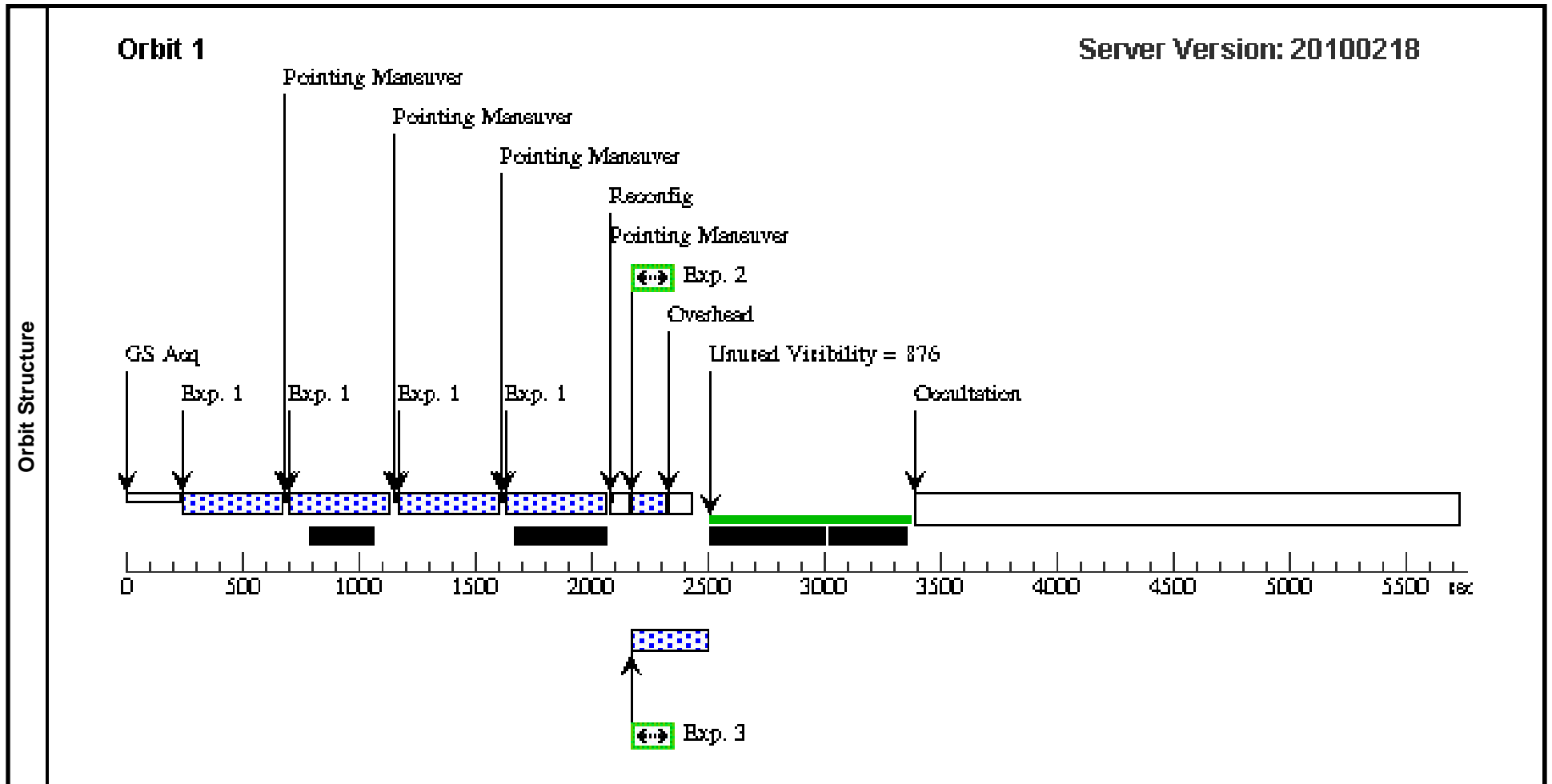
Visit	Proposal 11570, Visit 53, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 293D TO 293 D									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(37)	MESSIER-106-10-COPY	RA: 12 18 57.3435 (184.7389312d) Dec: +47 18 30.99 (47.30861d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(37) MESSIER-106-10-COPY	(37) MESSIER-106-10-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	(37) MESSIER-106-10-COPY	(37) MESSIER-106-10-COPY	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs	[1]
	3	(37) MESSIER-106-10-COPY	(37) MESSIER-106-10-COPY	ACS/WFC, ACCUM, WFC-FIX	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs	[1]



Proposal 11570 - Visit 54 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:57 GMT 2010

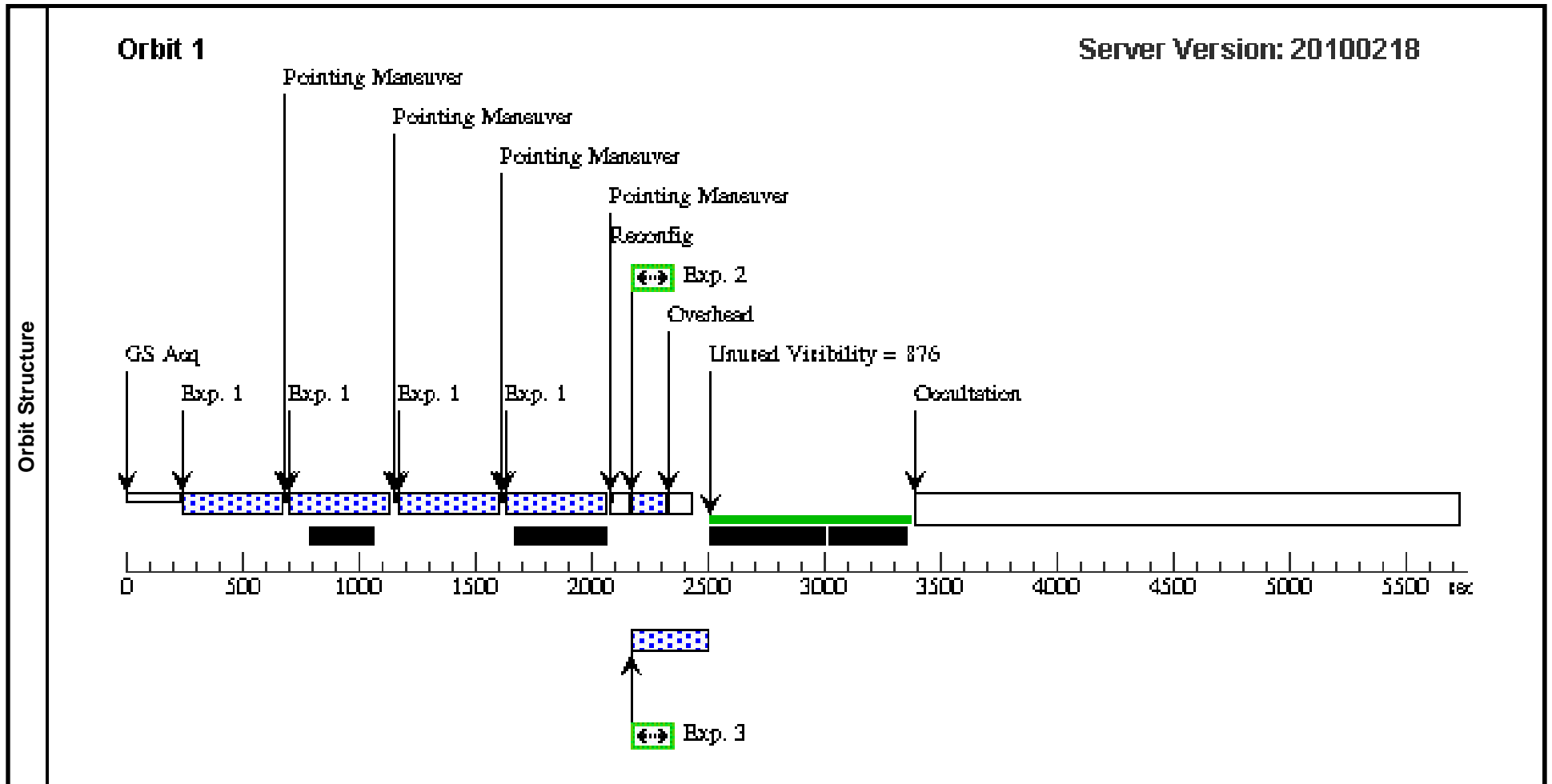
Visit	Proposal 11570, Visit 54, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 293D TO 293 D									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(38)	MESSIER-106-11-COPY	RA: 12 19 9.9455 (184.7914396d) Dec: +47 19 22.10 (47.32281d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(38) MESSIER-106-11-COPY	(38) MESSIER-106-11-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	(38) MESSIER-106-11-COPY	(38) MESSIER-106-11-COPY	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs [==>]	[1]
	3	(38) MESSIER-106-11-COPY	(38) MESSIER-106-11-COPY	ACS/WFC, ACCUM, WFC-FIX	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs [==>]	[1]



Proposal 11570 - Visit 55 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:57 GMT 2010

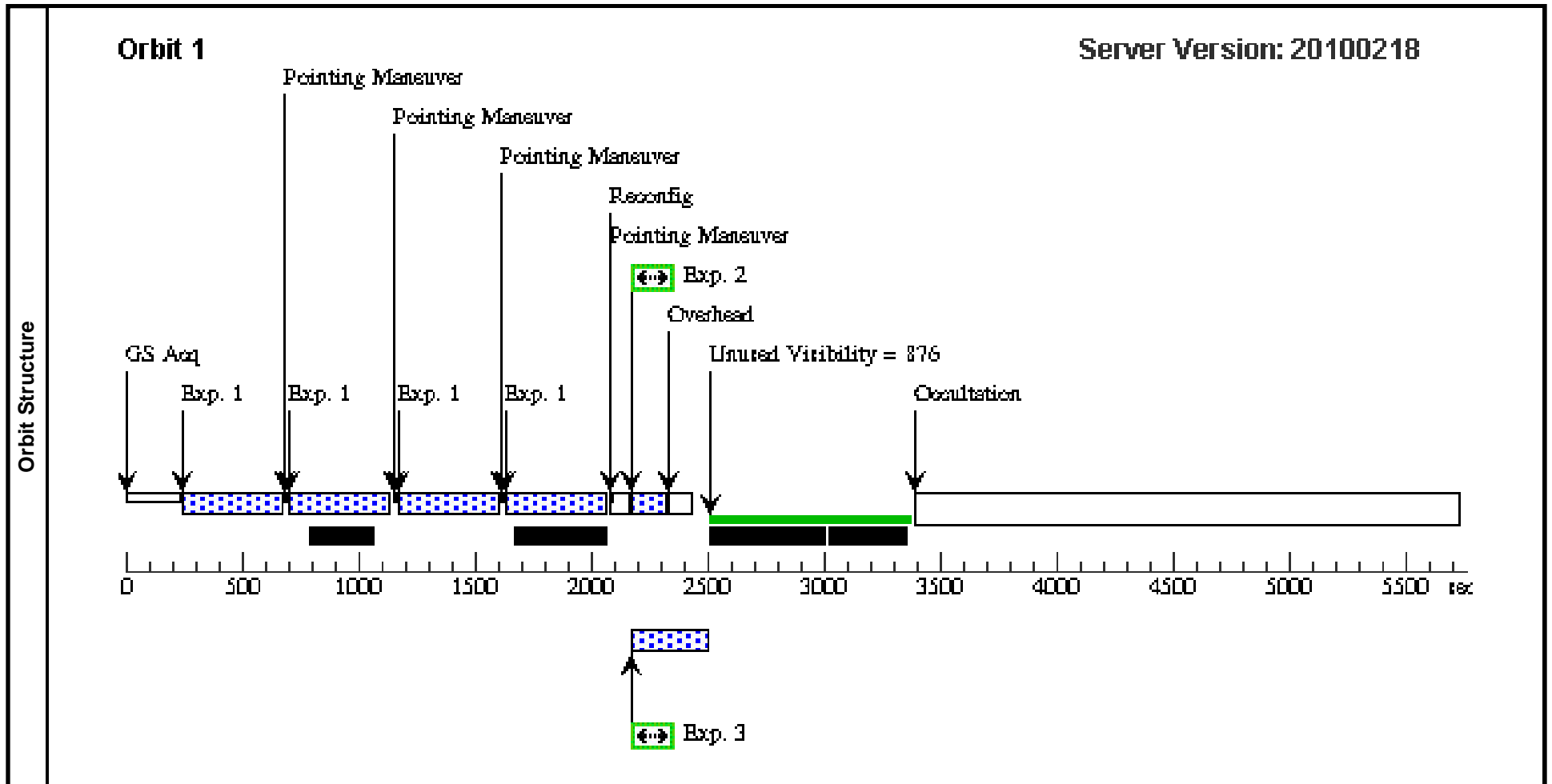
Visit	Proposal 11570, Visit 55, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 293D TO 293 D									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(39)	MESSIER-106-12-COPY	RA: 12 19 5.0836 (184.7711817d) Dec: +47 21 12.01 (47.35334d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(39) MESSIER-106-12-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	2	(39) MESSIER-106-12-COPY	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs [==>]	[1]	
	3	(39) MESSIER-106-12-COPY	ACS/WFC, ACCUM, WFC-FIX	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs [==>]	[1]	



Proposal 11570 - Visit 56 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:58 GMT 2010

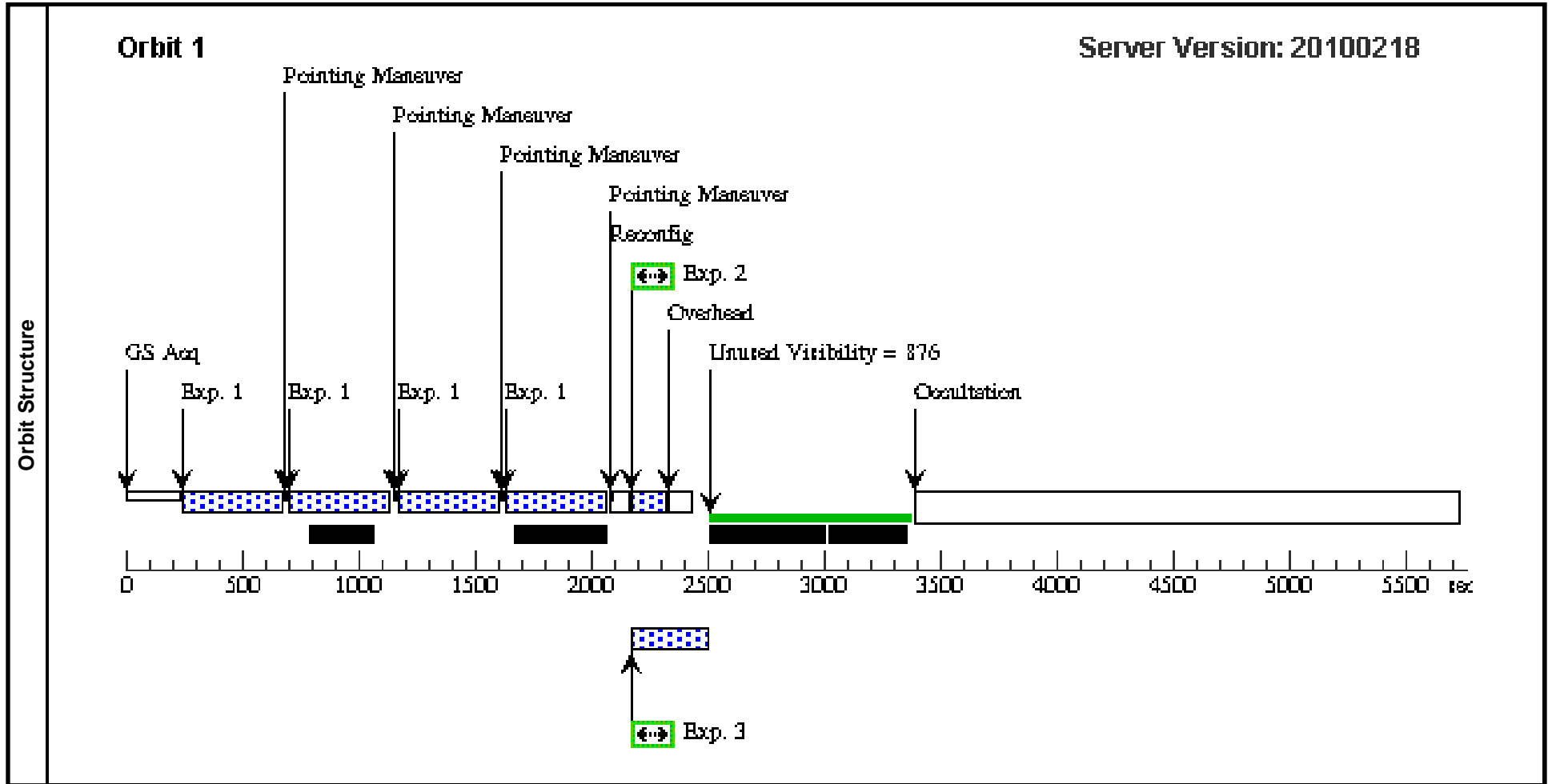
Visit	Proposal 11570, Visit 56, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 293D TO 293 D									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(40)	MESSIER-106-13-COPY	RA: 12 18 52.8099 (184.7200412d) Dec: +47 20 20.52 (47.33903d) Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>		V=11.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(40) MESSIER-106-13-COPY	(40) MESSIER-106-13-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	(40) MESSIER-106-13-COPY	(40) MESSIER-106-13-COPY	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs [==>]	[1]
	3	(40) MESSIER-106-13-COPY	(40) MESSIER-106-13-COPY	ACS/WFC, ACCUM, WFC-FIX	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs [==>]	[1]



Proposal 11570 - Visit 57 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:58 GMT 2010

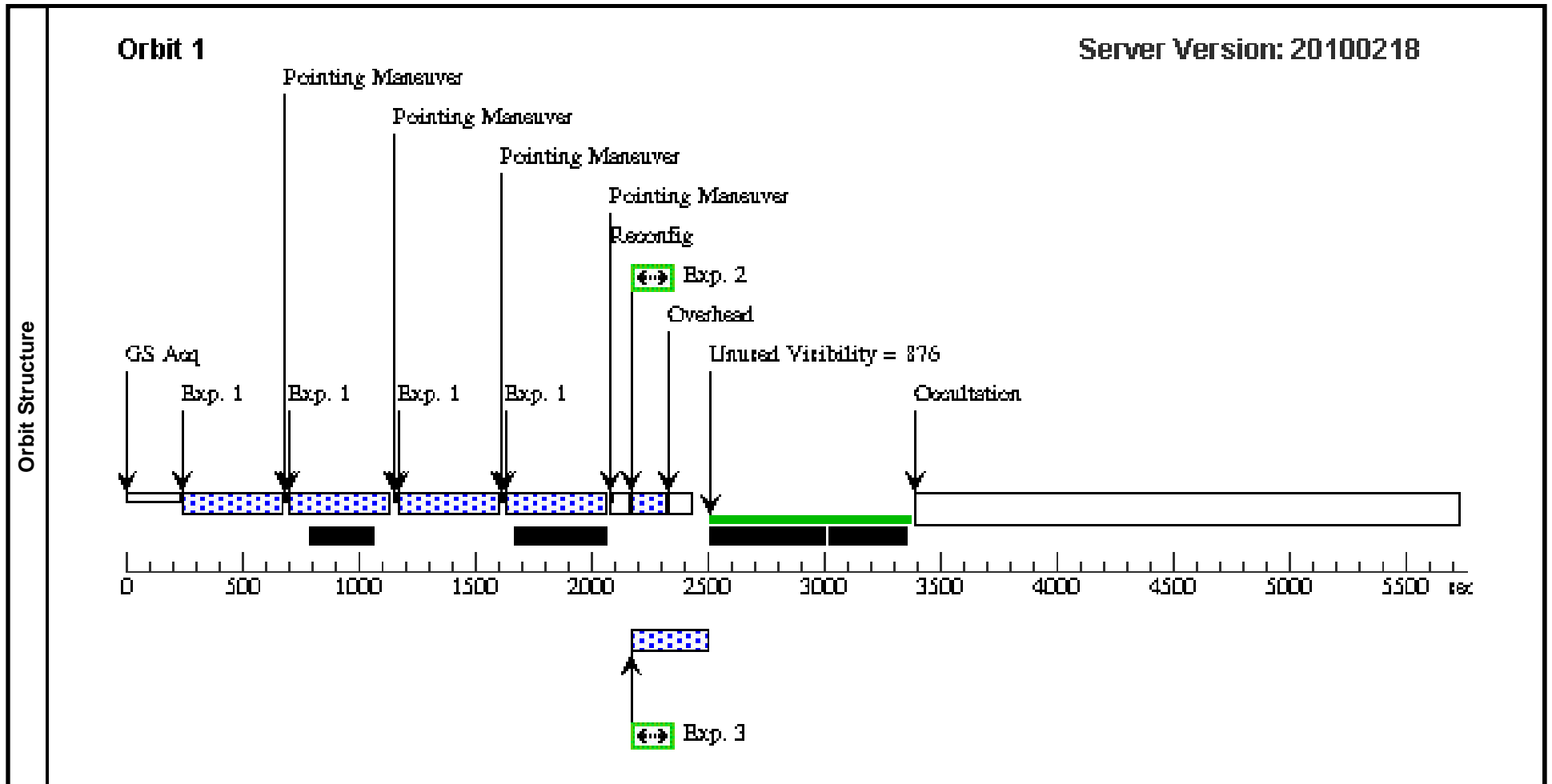
Visit	Proposal 11570, Visit 57, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 293D TO 293 D									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(41)	MESSIER-106-14-COPY	RA: 12 18 40.3384 (184.6680767d) Dec: +47 19 30.88 (47.32524d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(41) MESSIER-106-14-COPY	(41) MESSIER-106-14-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	(41) MESSIER-106-14-COPY	(41) MESSIER-106-14-COPY	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs [==>]	[1]
	3	(41) MESSIER-106-14-COPY	(41) MESSIER-106-14-COPY	ACS/WFC, ACCUM, WFC-FIX	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs [==>]	[1]



Proposal 11570 - Visit 58 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:58 GMT 2010

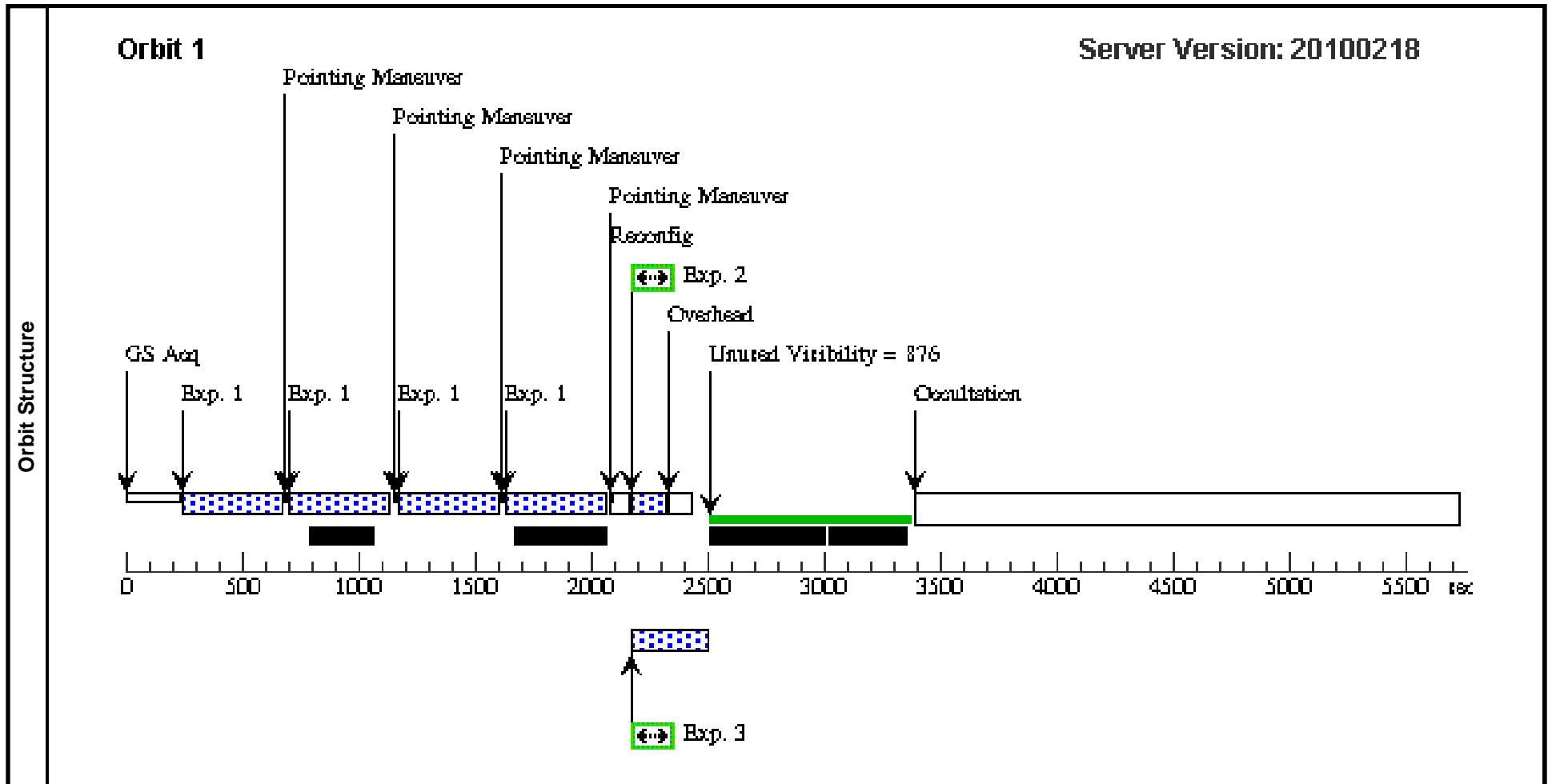
Visit	Proposal 11570, Visit 58, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 293D TO 293 D									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(42)	MESSIER-106-15-COPY	RA: 12 18 51.6048 (184.7150200d) Dec: +47 22 23.29 (47.37314d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(42) MESSIER-106-15-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	2	(42) MESSIER-106-15-COPY	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs [==>]	[1]	
	3	(42) MESSIER-106-15-COPY	ACS/WFC, ACCUM, WFC-FIX	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs [==>]	[1]	



Proposal 11570 - Visit 59 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:58 GMT 2010

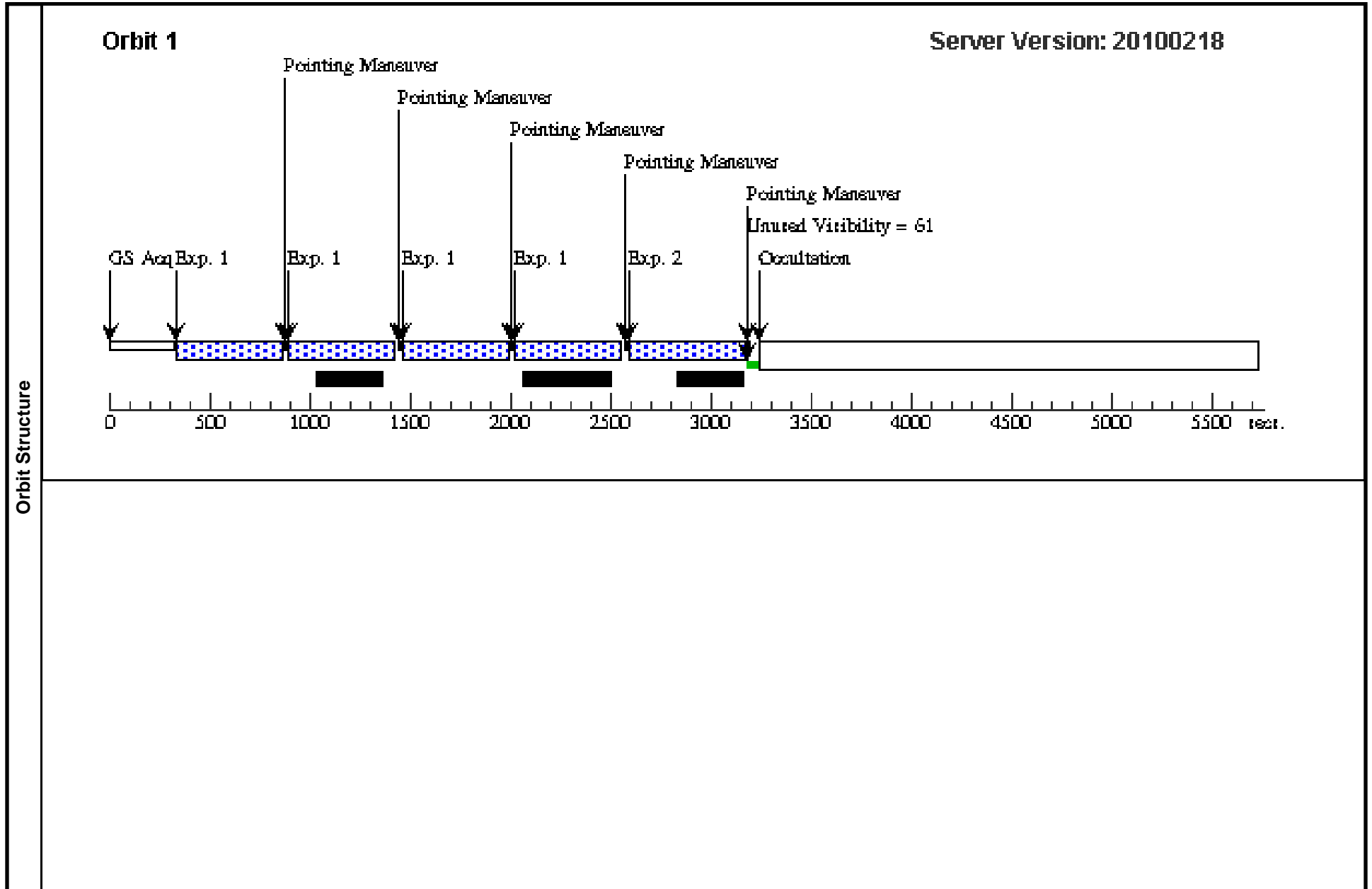
Visit	Proposal 11570, Visit 59, withdrawn Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS Special Requirements: SCHED 30%; ORIENT 113D TO 113 D									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(43)	MESSIER-106-16-COPY	RA: 12 19 18.5078 (184.8271158d) Dec: +47 15 36.37 (47.26010d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(43) MESSIER-106-16-COPY	(43) MESSIER-106-16-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=9; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	(43) MESSIER-106-16-COPY	(43) MESSIER-106-16-COPY	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs	[1]
	3	(43) MESSIER-106-16-COPY	(43) MESSIER-106-16-COPY	ACS/WFC, ACCUM, WFC-FIX	F555W	CR-SPLIT=NO		Prime + Parallel Group 2-3	120 Secs	[1]

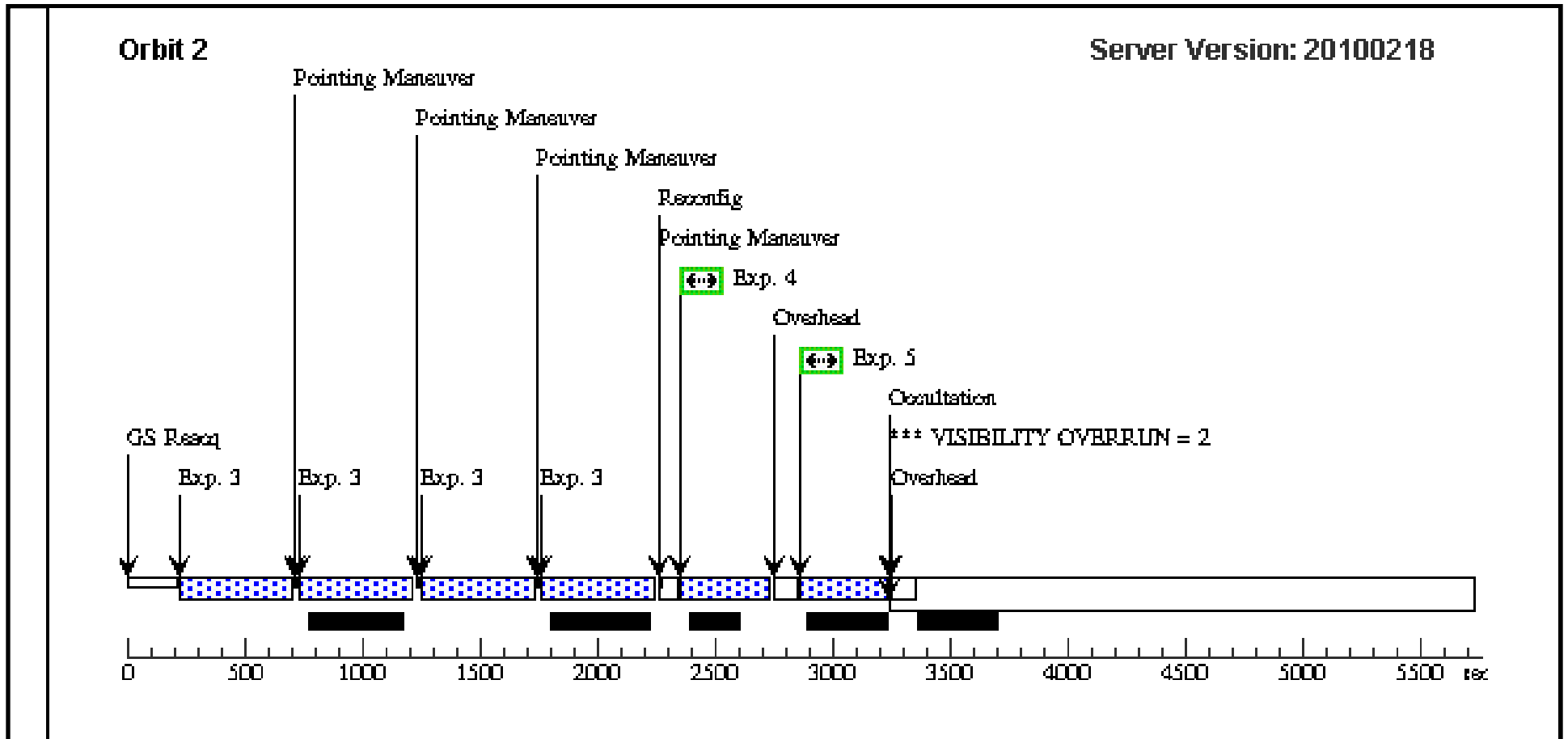


Proposal 11570 - Visit 19 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:58 GMT 2010

Visit	Proposal 11570, Visit 19, completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: ORIENT 141D TO 141 D											
	(Visit 19) Warning (Orbit Planner): VISIBILITY OVERRUN											
Diagnostics												
Patterns	#	Primary Pattern				Secondary Pattern				Exposures		
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365				Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false				(1), (3)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous				
	(6)	NGC-3370	RA: 10 47 4.6617 (161.7694238d) Dec: +17 16 23.45 (17.27318d) Equinox: J2000				V=12.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>												
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit	
	1		(6) NGC-3370	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=11; SAMP-SEQ=SPAR S50		Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]	
	2		(6) NGC-3370	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=12; SAMP-SEQ=SPAR S50	POS TARG 0.676,0.676		[==>]		[1]	
	3		(6) NGC-3370	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG 0.94,0.94		Pattern 1, Exps 3-3 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[2]
	4		(6) NGC-3370	WFC3/UVIS, ACCUM, UVIS-FIX	F555W	CR-SPLIT=NO			355 Secs			
	5		(6) NGC-3370	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO			355 Secs			
										[2]		

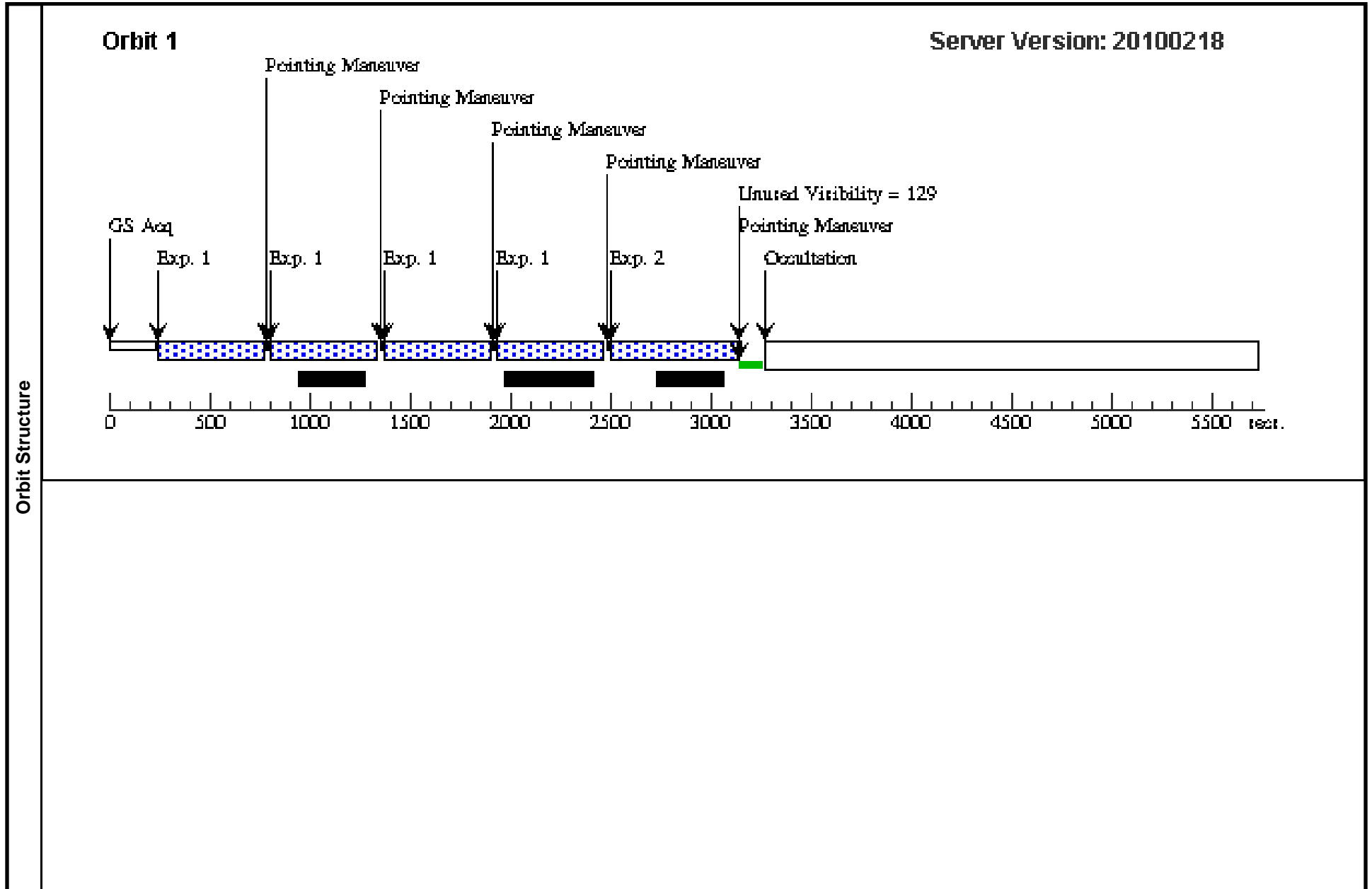


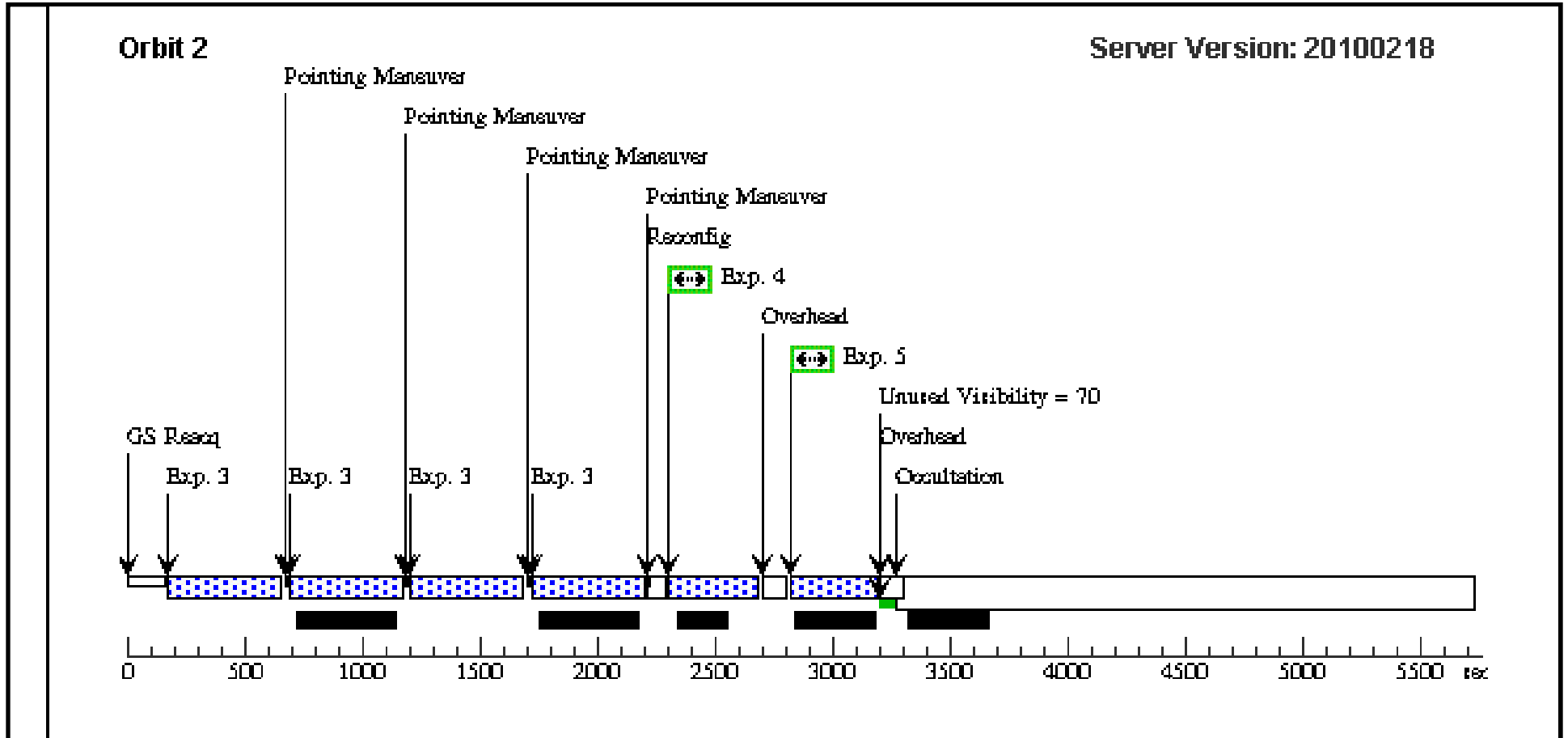


Proposal 11570 - Visit 43 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:08:59 GMT 2010

Visit		Proposal 11570, Visit 43, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: ORIENT 100D TO 100 D								
Patterns	#	Primary Pattern		Secondary Pattern			Exposures			
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false				(1), (3)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	NGC-3021	RA: 09 50 56.9640 (147.7373500d) Dec: +33 33 18.85 (33.55524d) Equinox: J2000		V=12.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(5) NGC-3021	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=11; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2		(5) NGC-3021	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=13; SAMP-SEQ=SPAR S50	POS TARG 0.676,0.676		[==>]	[1]
	3		(5) NGC-3021	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG 0.94,0.94	Pattern 1, Exps 3-3 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
	4		(5) NGC-3021	WFC3/UVIS, ACCUM, UVIS-FIX	F555W	CR-SPLIT=NO			355 Secs [==>]	[2]
	5		(5) NGC-3021	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO			355 Secs [==>]	[2]





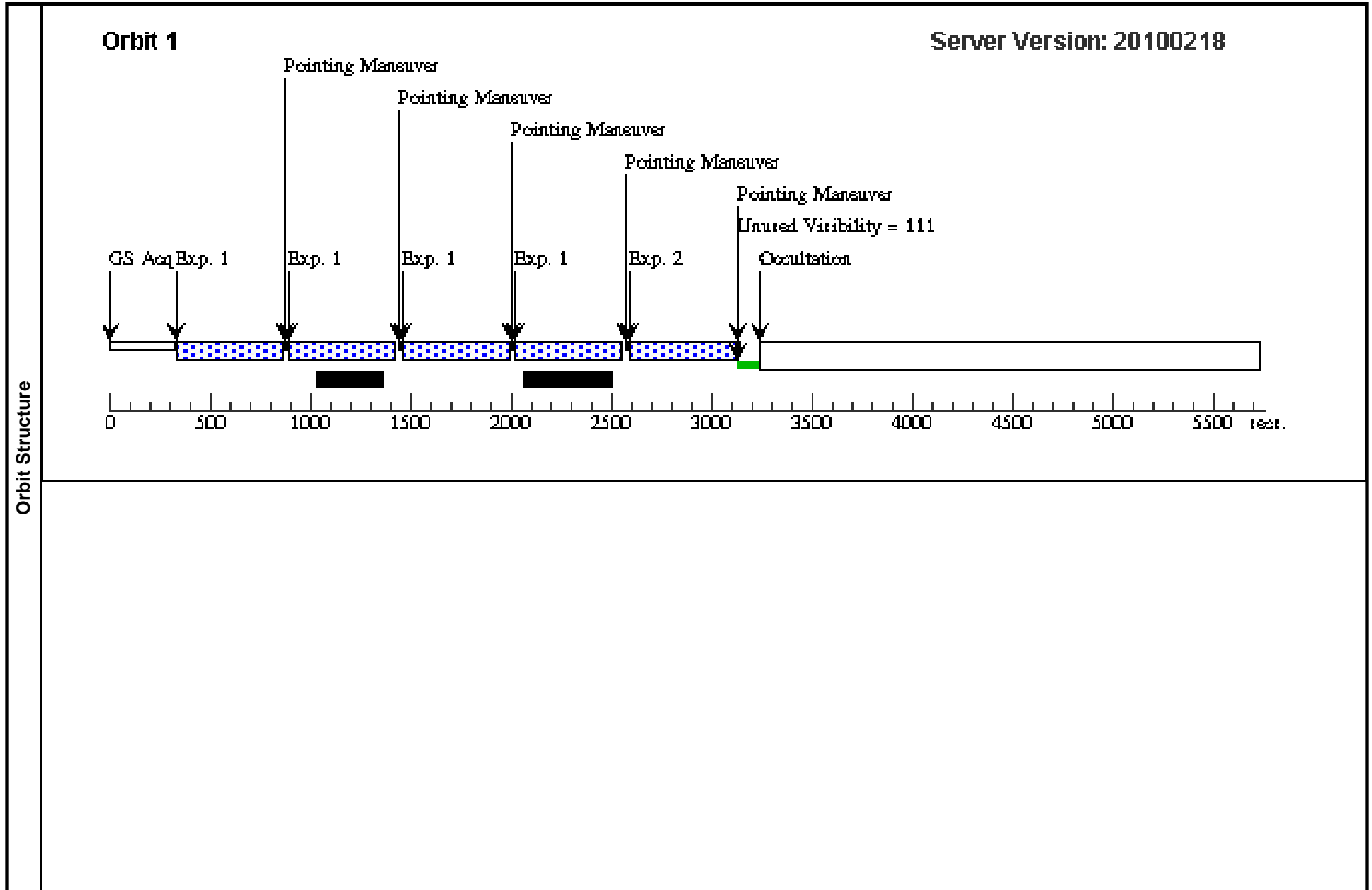
Proposal 11570 - Visit 20 - Narrowing in on the Hubble Constant and Dark Energy

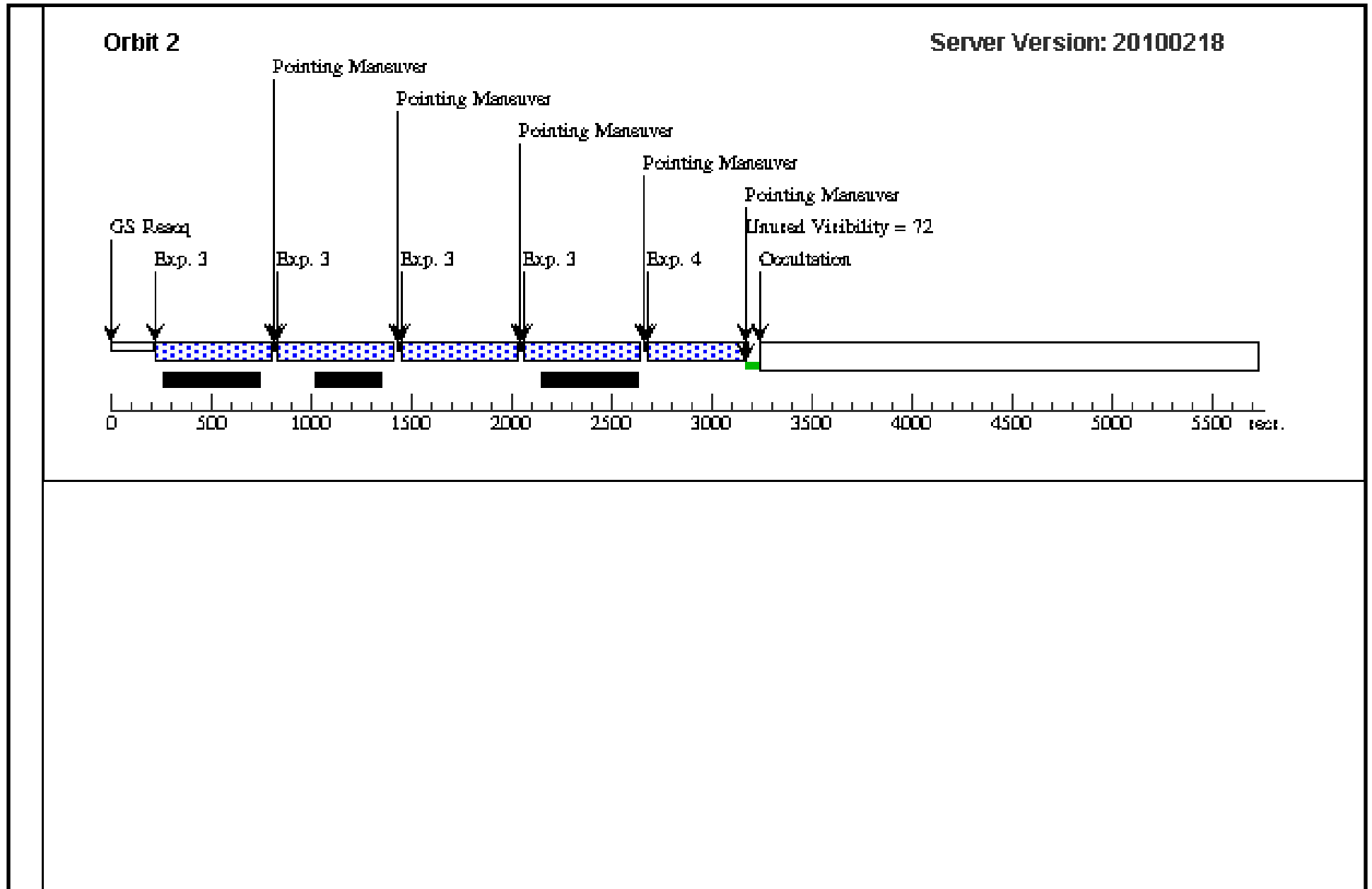
Tue Apr 27 01:08:59 GMT 2010

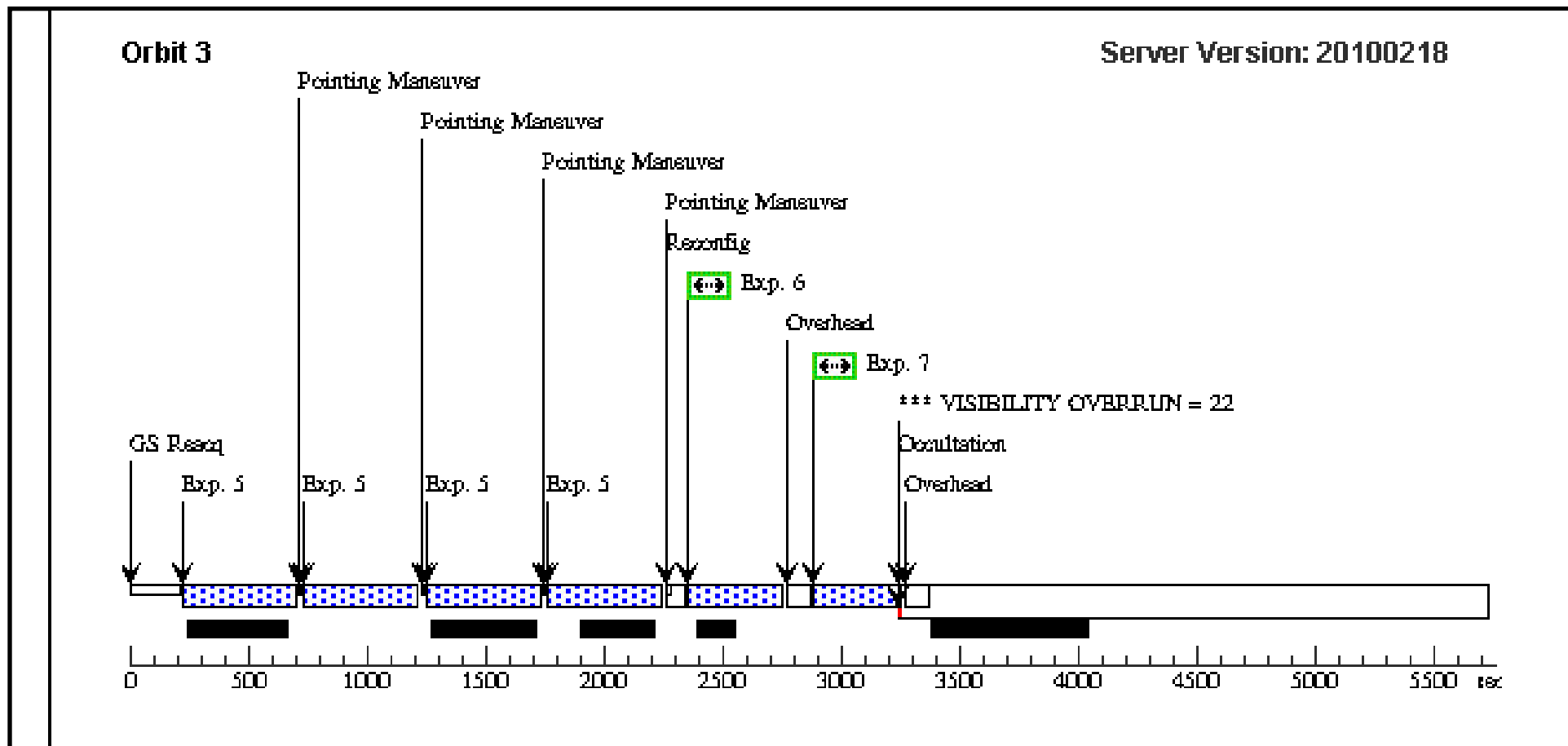
Visit	Proposal 11570, Visit 20, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: ORIENT 250D TO 255 D					
	Diagnosics (Visit 20) Warning (Orbit Planner): INVALID GS ACQ SCENARIO SPECIAL REQUIREMENT (Visit 20) Warning (Orbit Planner): VISIBILITY OVERRUN					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1), (3), (5)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	NGC-1309	RA: 03 22 6.3518 (50.5264658d) Dec: -15 23 53.50 (-15.39819d) Equinox: J2000		V=12.0	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>						

Proposal 11570 - Visit 20 - Narrowing in on the Hubble Constant and Dark Energy

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(4) NGC-1309	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=11; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2		(4) NGC-1309	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=11; SAMP-SEQ=SPAR S50	POS TARG 0.676,0.676		[==>]	[1]
	3		(4) NGC-1309	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=12; SAMP-SEQ=SPAR S50	POS TARG 0.94,0.94; GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 3-3 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
	4		(4) NGC-1309	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG 1.62,1.62		[==>]	[2]
	5		(4) NGC-1309	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG -0.94,-0.94; GS ACQ SCENARI O BASE1B3	Pattern 1, Exps 5-5 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
	6		(4) NGC-1309	WFC3/UVIS, ACCUM, UVIS-FIX	F555W	CR-SPLIT=NO			375 Secs [==>]	[3]
	7		(4) NGC-1309	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO			355 Secs [==>]	[3]







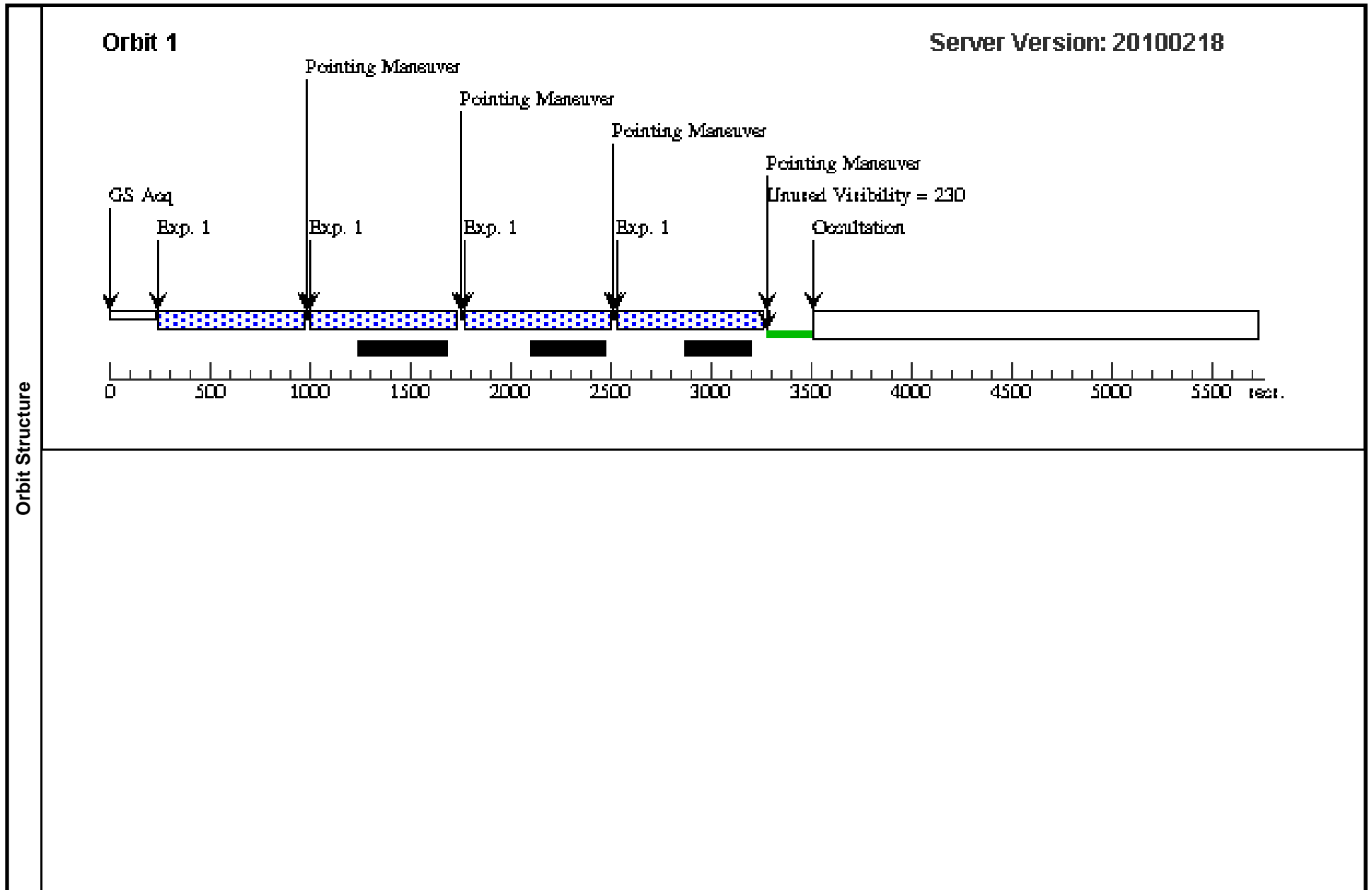
Proposal 11570 - Visit 22 - Narrowing in on the Hubble Constant and Dark Energy

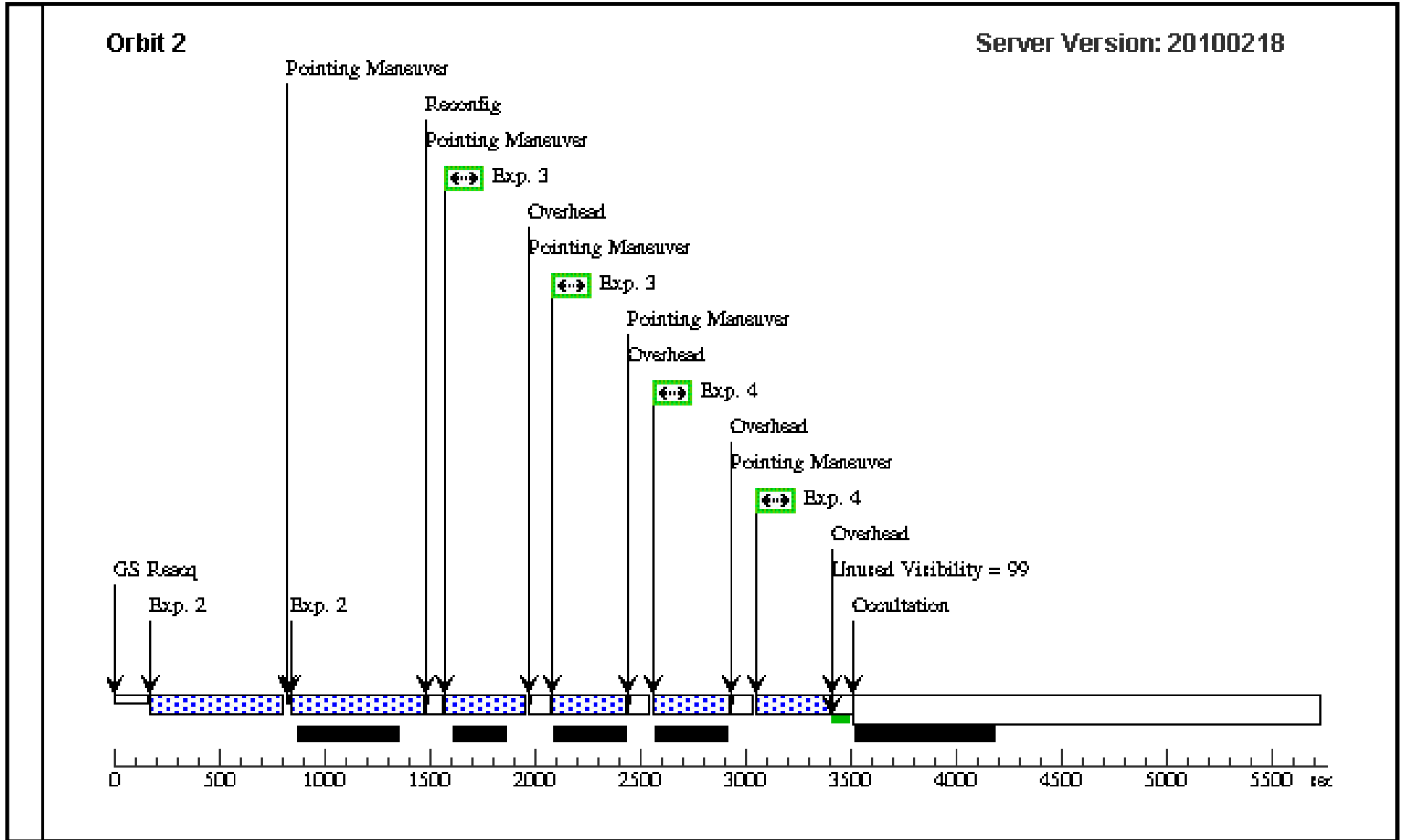
Tue Apr 27 01:09:00 GMT 2010

Visit	Proposal 11570, Visit 22, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: ORIENT 60D TO 70 D					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
		(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)
		(3)	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		(3), (4)
(7)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(2)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(7)	NGC-3982	RA: 11 56 27.1494 (179.1131225d) Dec: +55 07 23.55 (55.12321d) Equinox: J2000		V=12.0	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>						

Proposal 11570 - Visit 22 - Narrowing in on the Hubble Constant and Dark Energy

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(7) NGC-3982	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=15; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2		(7) NGC-3982	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=13; SAMP-SEQ=SPAR S50	POS TARG 0.676,0.676	Pattern 7, Exps 2-2 (7)	[==>(Pattern 1)] [==>(Pattern 2)]	[2]
	3		(7) NGC-3982	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO		Pattern 3, Exps 3-3 (3)	350 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[2]
	4		(7) NGC-3982	WFC3/UVIS, ACCUM, UVIS-FIX	F555W	CR-SPLIT=NO		Pattern 3, Exps 4-4 (3)	350 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[2]





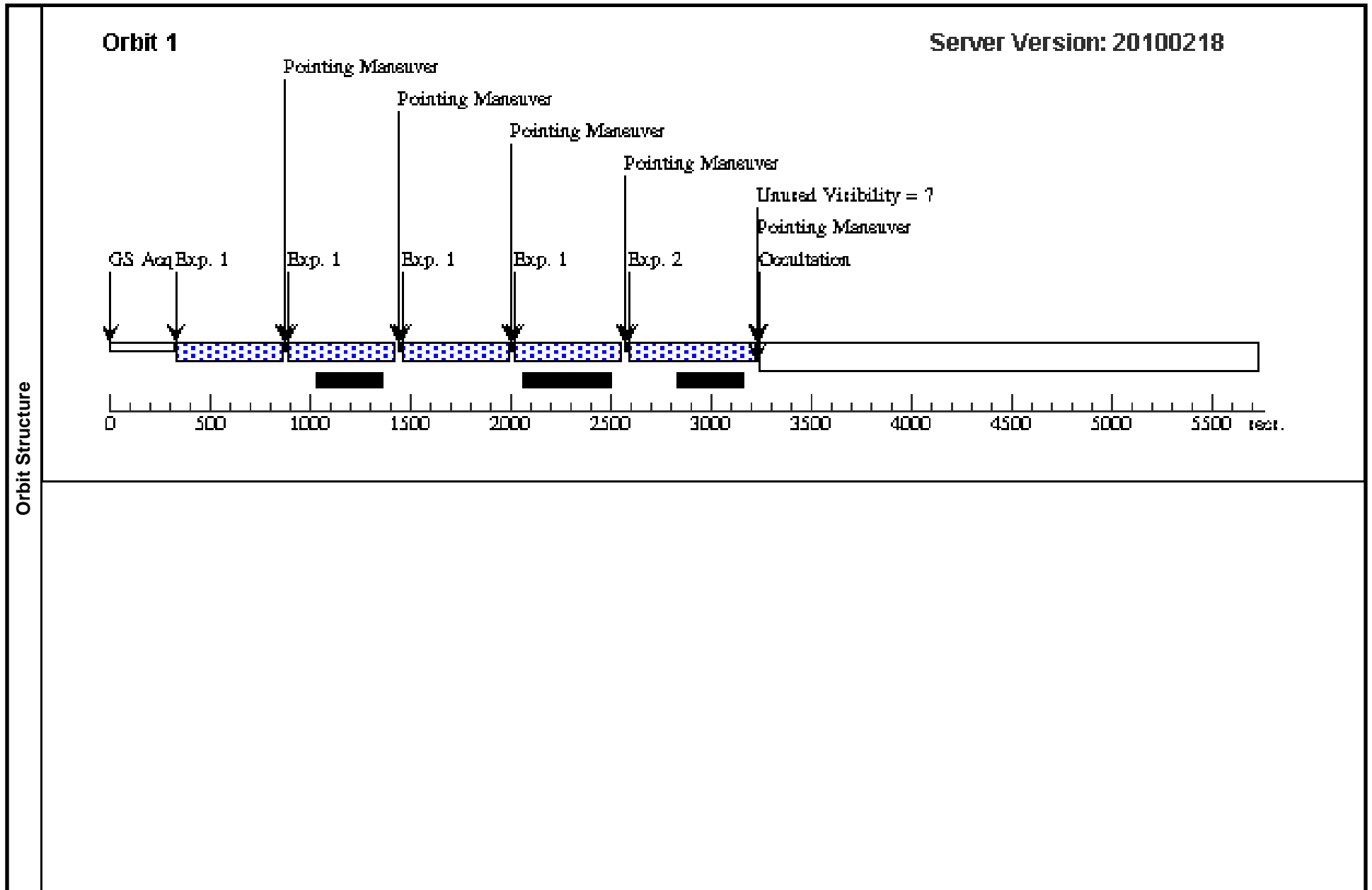
Proposal 11570 - Visit 23 - Narrowing in on the Hubble Constant and Dark Energy

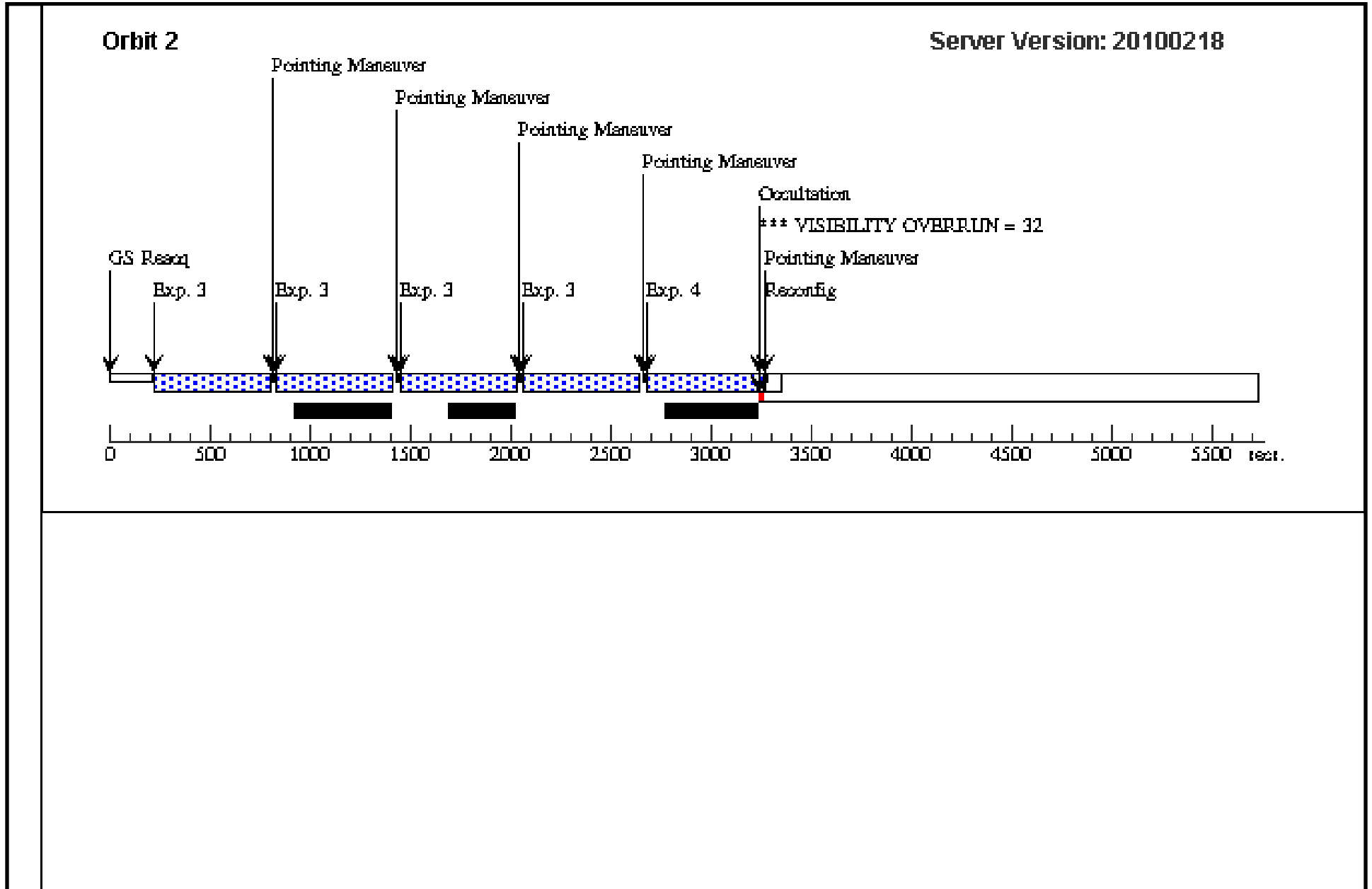
Tue Apr 27 01:09:01 GMT 2010

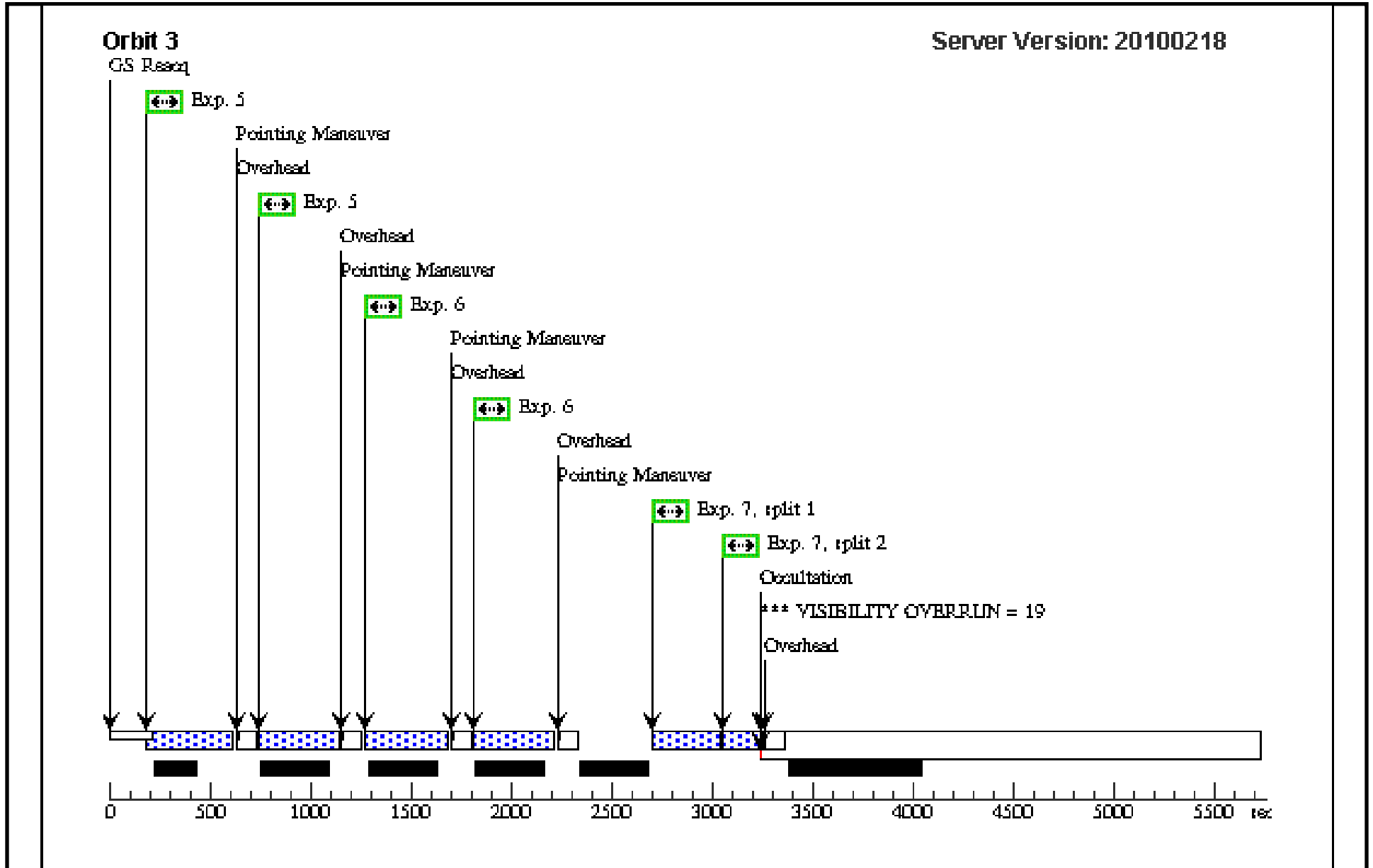
Visit	Proposal 11570, Visit 23, completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: ORIENT 100D TO 100 D					
	Diagnosics (Visit 23) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 23) Warning (Orbit Planner): VISIBILITY OVERRUN					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1), (3)	
	(3)	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		(5), (6)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(9)	NGC-4639	RA: 12 42 52.0797 (190.7169988d) Dec: +13 15 26.31 (13.25731d) Equinox: J2000		V=12.0	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>						

Proposal 11570 - Visit 23 - Narrowing in on the Hubble Constant and Dark Energy

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(9) NGC-4639	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=11; SAMP-SEQ=SPAR S50		Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2		(9) NGC-4639	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=13; SAMP-SEQ=SPAR S50	POS TARG 0.676,0.676		[==>]	[1]
	3		(9) NGC-4639	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=12; SAMP-SEQ=SPAR S50	POS TARG 0.94,0.94	Pattern 1, Exps 3-3 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
	4		(9) NGC-4639	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=12; SAMP-SEQ=SPAR S50	POS TARG 1.62,1.62		[==>]	[2]
	5		(9) NGC-4639	WFC3/UVIS, ACCUM, UVIS-FIX	F555W	CR-SPLIT=NO		Pattern 3, Exps 5-5 (3)	400 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[3]
	6		(9) NGC-4639	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO		Pattern 3, Exps 6-6 (3)	400 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[3]
	7		(9) NGC-4639	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=2			400 Secs [==>(Split 1)] [==>(Split 2)]	[3]



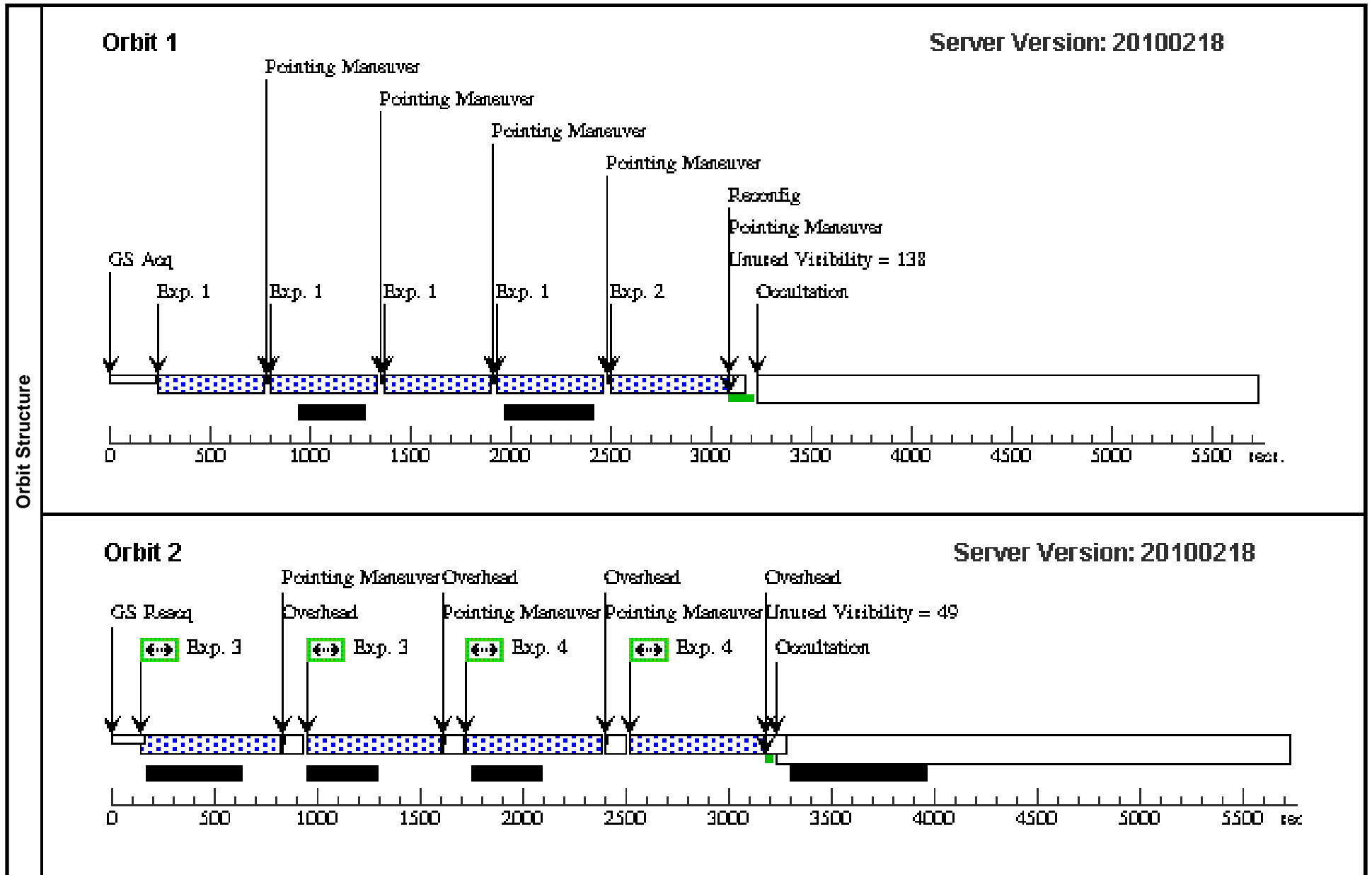




Proposal 11570 - Visit 23 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:09:01 GMT 2010

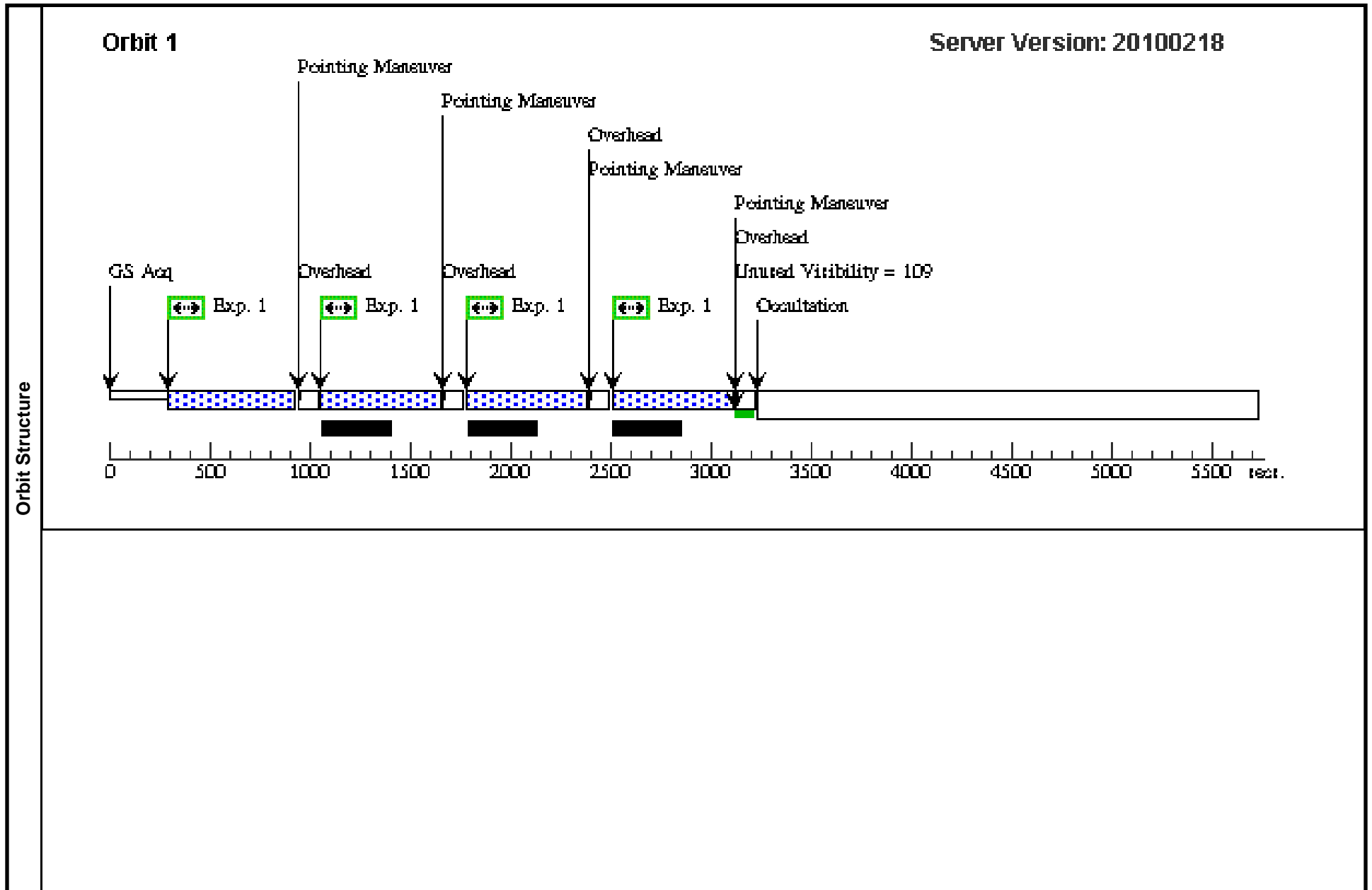
Visit	Proposal 11570, Visit 24, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: ORIENT 110.0D TO 110.0 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
(1)		Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)					
(3)	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		(3), (4)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	NGC-4536	RA: 12 34 19.8501 (188.5827088d) Dec: +02 12 20.87 (2.20580d) Equinox: J2000		V=12.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(8) NGC-4536	(8) NGC-4536	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=11; SAMP-SEQ=SPAR S50	GS ACQ SCENARI O SINGLE	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	(8) NGC-4536	(8) NGC-4536	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=12; SAMP-SEQ=SPAR S50			[==>]	[1]
	3	(8) NGC-4536	(8) NGC-4536	WFC3/UVIS, ACCUM, UVIS-FIX	F555W	CR-SPLIT=NO		Pattern 3, Exps 3-3 (3)	650 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[2]
4	(8) NGC-4536	(8) NGC-4536	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO		Pattern 3, Exps 4-4 (3)	650 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[2]	

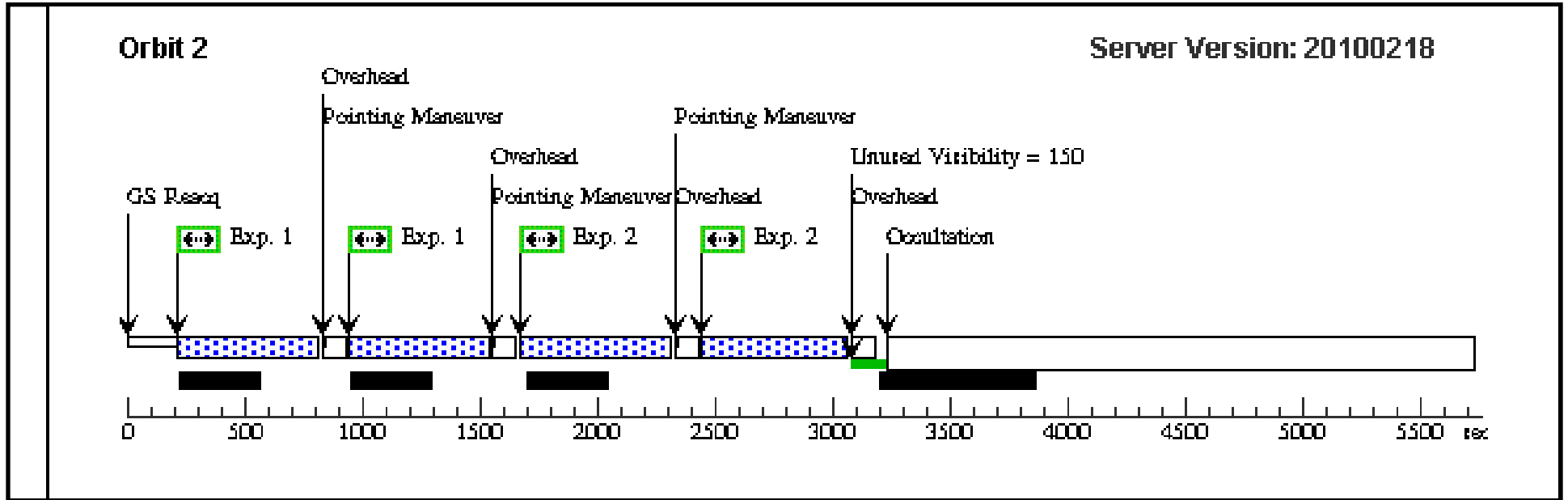


Proposal 11570 - Visit 24 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:09:02 GMT 2010

Visit	Proposal 11570, Visit 25, failed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 270D TO 300 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(3)	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		(2)				
	(4)	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=MOSAIC Number Of Points=3 Point Spacing=2.4 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.754 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.119 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=33.606 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	NGC-5584-VIS	RA: 14 22 23.9321 (215.5997171d) Dec: -00 23 22.13 (-.38948d) Equinox: J2000		V=12.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F555W	CR-SPLIT=NO			Pattern 4, Exps 1-1 (4)	600.00 Secs [==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 3,1)] [==>(Pattern 3,2)]
2		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO			Pattern 3, Exps 2-2 (3)	625 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[2]

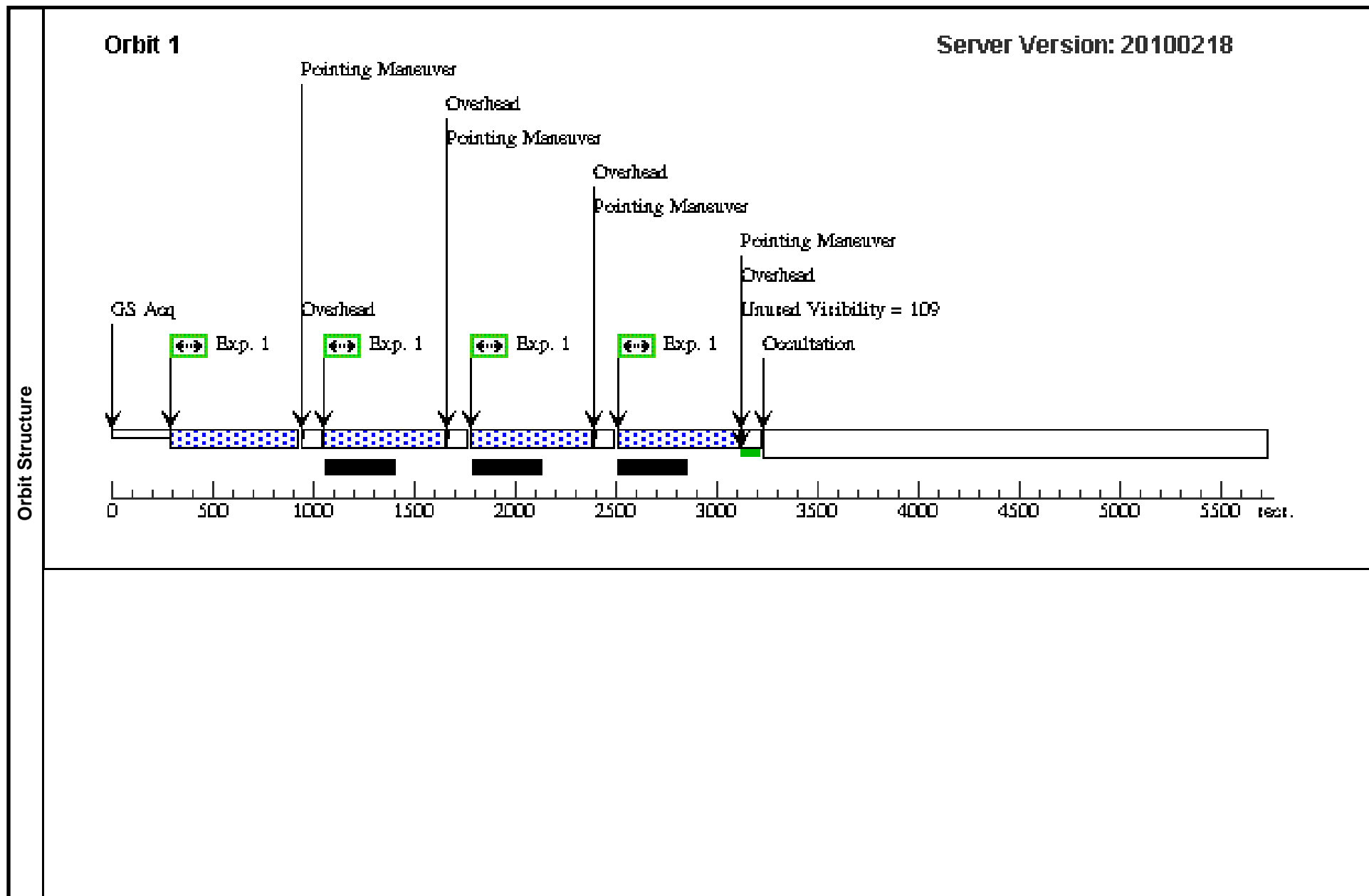


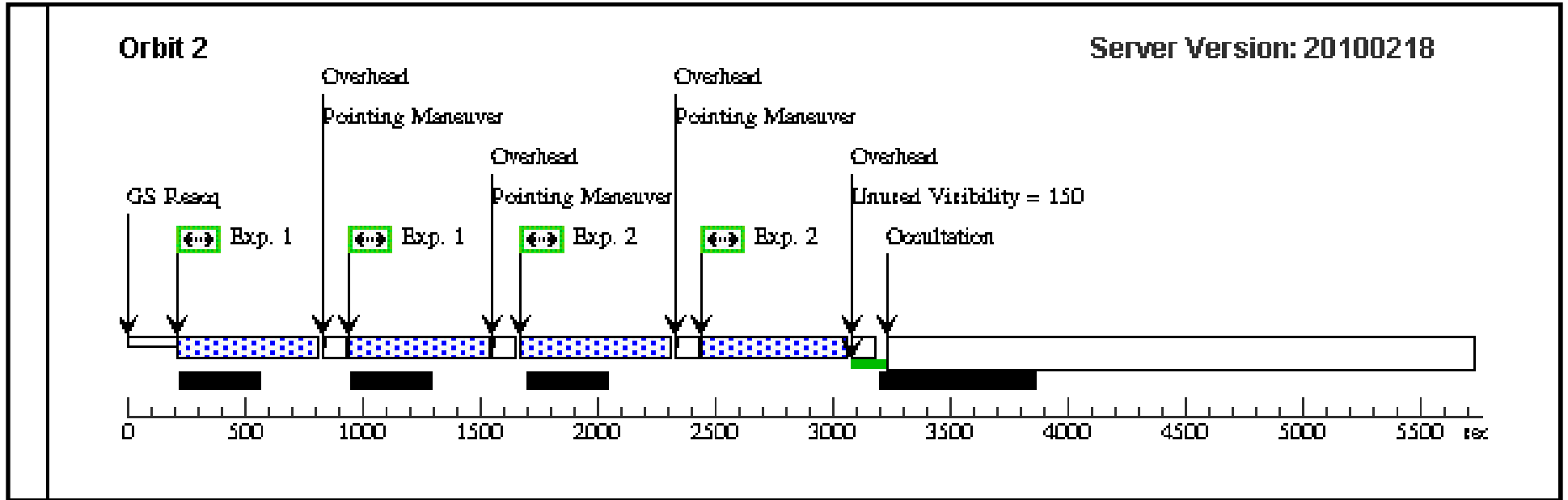


Proposal 11570 - Visit 30 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:09:02 GMT 2010

Visit		Proposal 11570, Visit 30, failed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 25; AFTER 25 BY 13.3 D TO 15.3 D								
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(3)	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		(2)						
(4)	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=MOSAIC Number Of Points=3 Point Spacing=2.4 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=85.754 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.119 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=33.606 Angle Between Sides= Center Pattern=false	(1)							
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	NGC-5584-VIS	RA: 14 22 23.9321 (215.5997171d) Dec: -00 23 22.13 (-.38948d) Equinox: J2000		V=12.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F555W	CR-SPLIT=NO		Pattern 4, Exps 1-1 (4)	600.00 Secs	
									[=>(Pattern 1,1)]	[1]
									[=>(Pattern 1,2)]	
									[=>(Pattern 2,1)]	
									[=>(Pattern 2,2)]	
									[=>(Pattern 3,1)]	[2]
									[=>(Pattern 3,2)]	
2		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO			Pattern 3, Exps 2-2 (3)	625.0 Secs	
									[=>(Pattern 1)]	[2]
									[=>(Pattern 2)]	





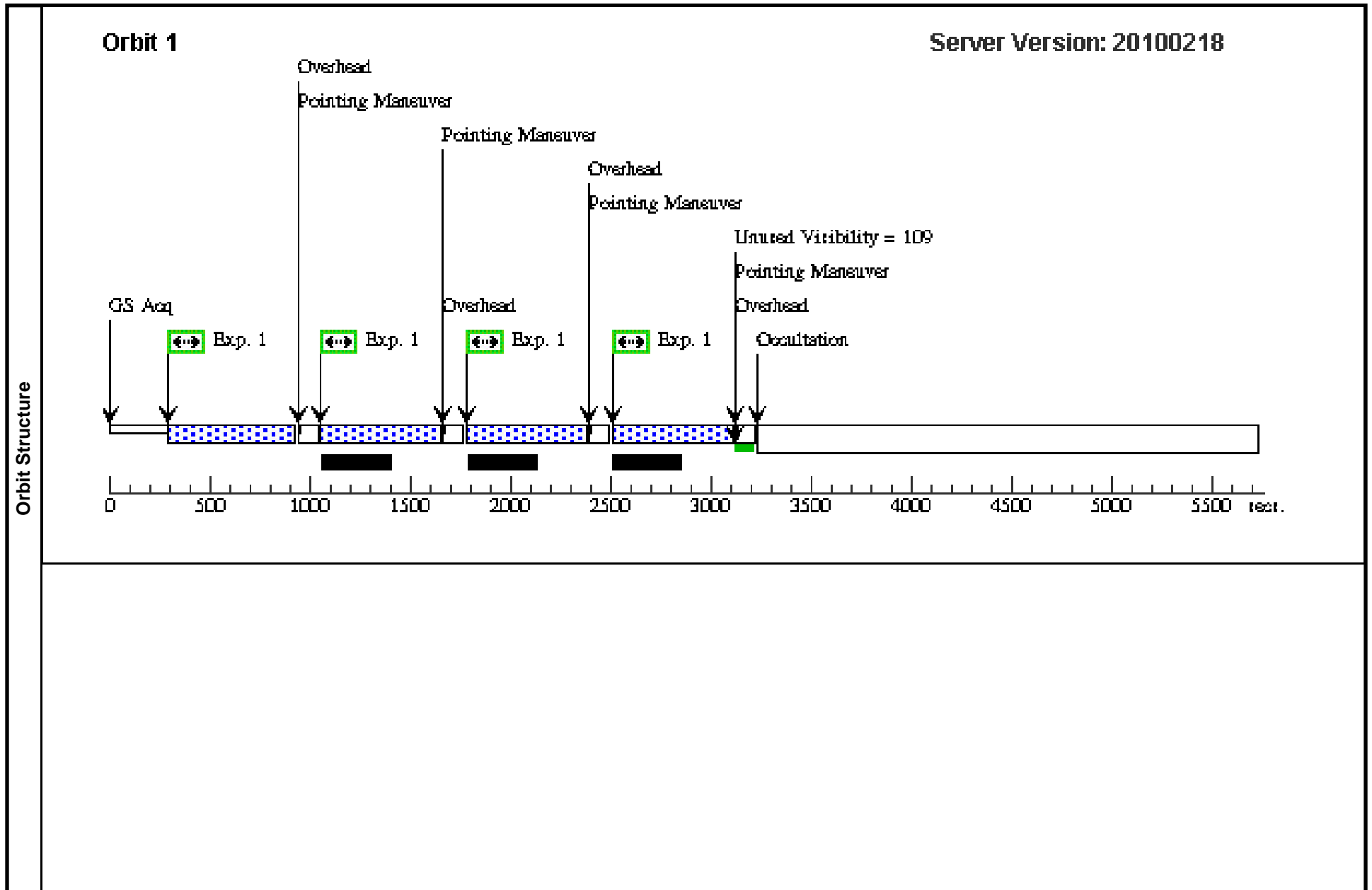
Proposal 11570 - Visit 31 - Narrowing in on the Hubble Constant and Dark Energy

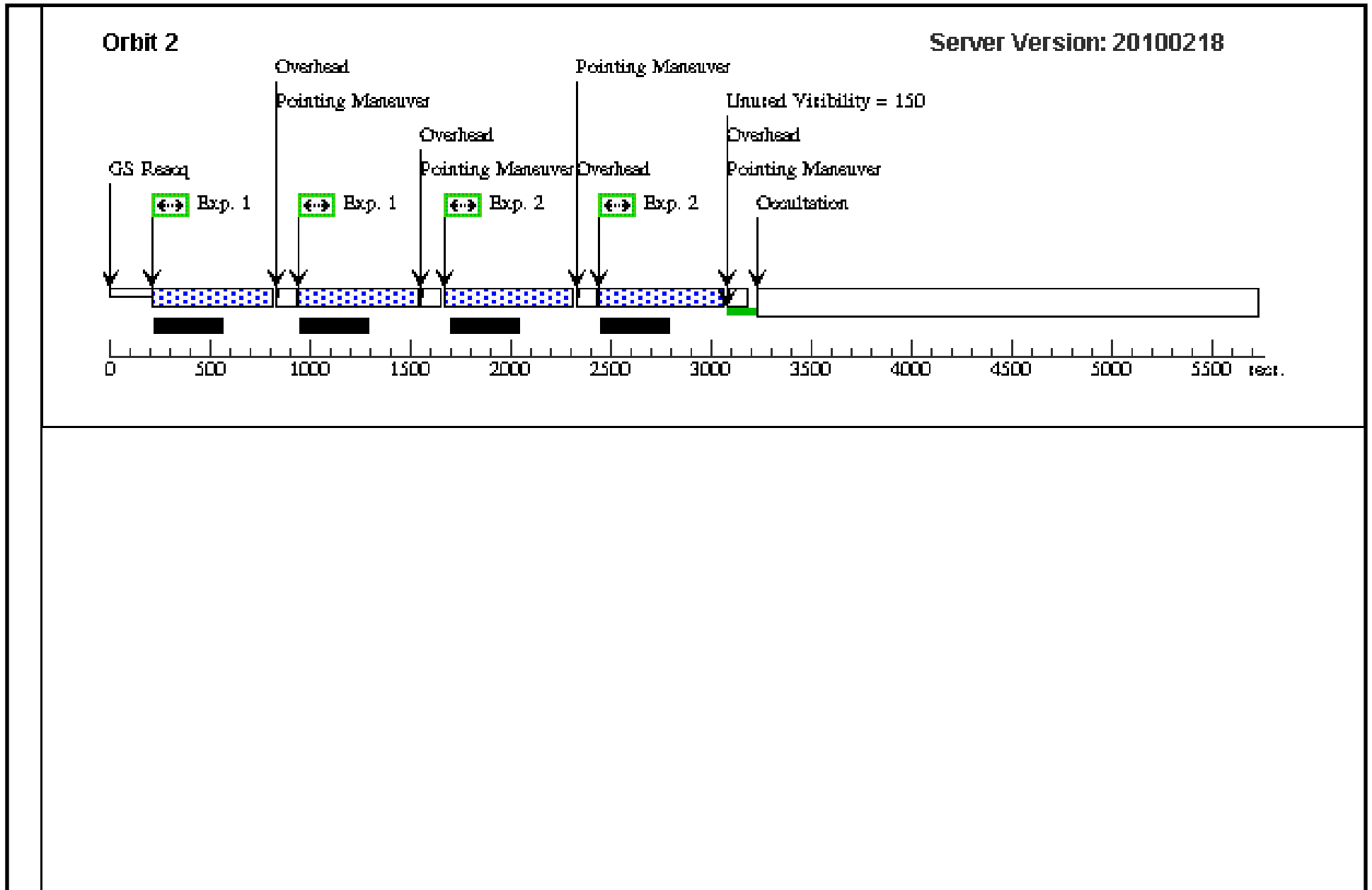
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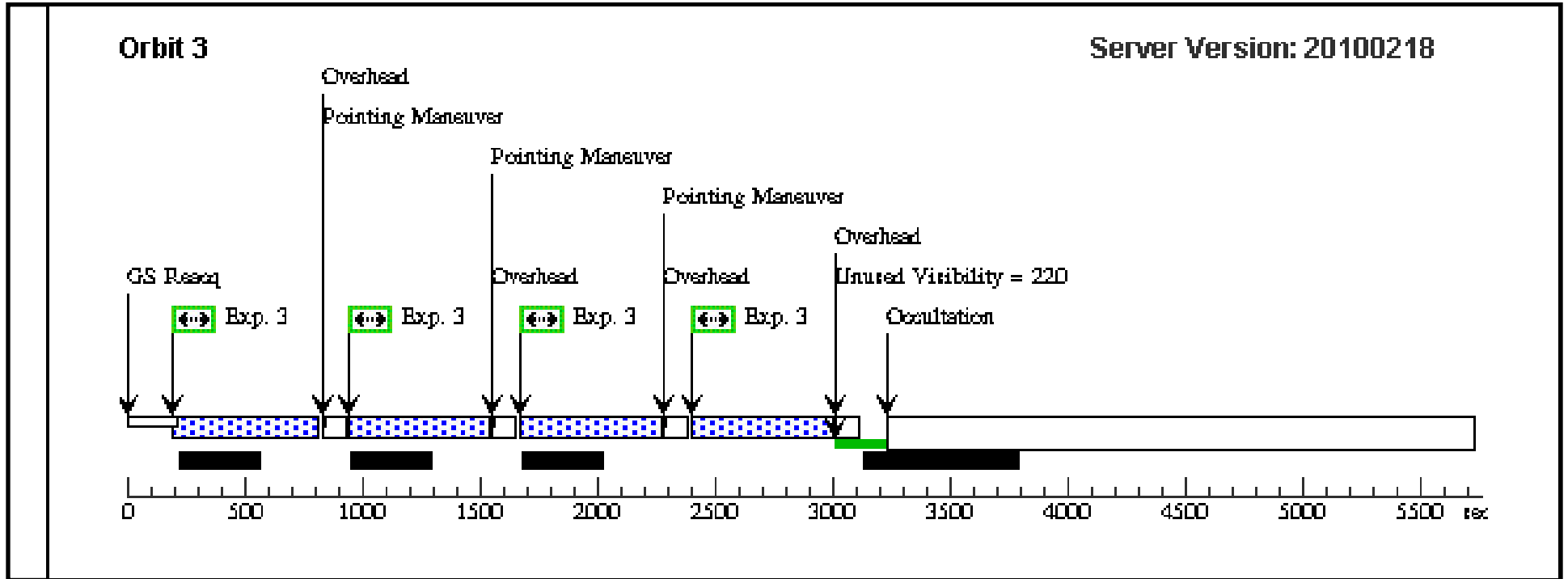
Visit	Proposal 11570, Visit 31, completed					
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: WFC3/UVIS					
	Special Requirements: ORIENT 288D TO 288 D; BETWEEN 05-FEB-2010:13:00:00 AND 07-FEB-2010:13:00:00					
Patterns	#	Primary Pattern		Secondary Pattern		Exposures
	(3)	Pattern 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			(2)
	(4)	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=MOSAIC Number Of Points=3 Point Spacing=2.4 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.754 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.119 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=33.606 Angle Between Sides= Center Pattern=false	(1)
(5)	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=MOSAIC Number Of Points=2 Point Spacing=2.4 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.754 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.119 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=33.606 Angle Between Sides= Center Pattern=false	(3)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	NGC-5584-VIS	RA: 14 22 23.9321 (215.5997171d) Dec: -00 23 22.13 (-.38948d) Equinox: J2000		V=12.0	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>						

Proposal 11570 - Visit 31 - Narrowing in on the Hubble Constant and Dark Energy

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F555W	CR-SPLIT=NO		Pattern 4, Exps 1-1 (4)	600.00 Secs	[1]
									[==>(Pattern 1,1)]	
									[==>(Pattern 1,2)]	
[==>(Pattern 2,1)]										
2		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Pattern 3, Exps 2-2 (3)	625.0 Secs	[2]	
								[==>(Pattern 1)]		
								[==>(Pattern 2)]		
								[==>(Pattern 2)]		
3		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO		Pattern 5, Exps 3-3 (5)	600 Secs	[3]	
								[==>(Pattern 1,1)]		
								[==>(Pattern 1,2)]		
								[==>(Pattern 2,1)]		
								[==>(Pattern 2,2)]		







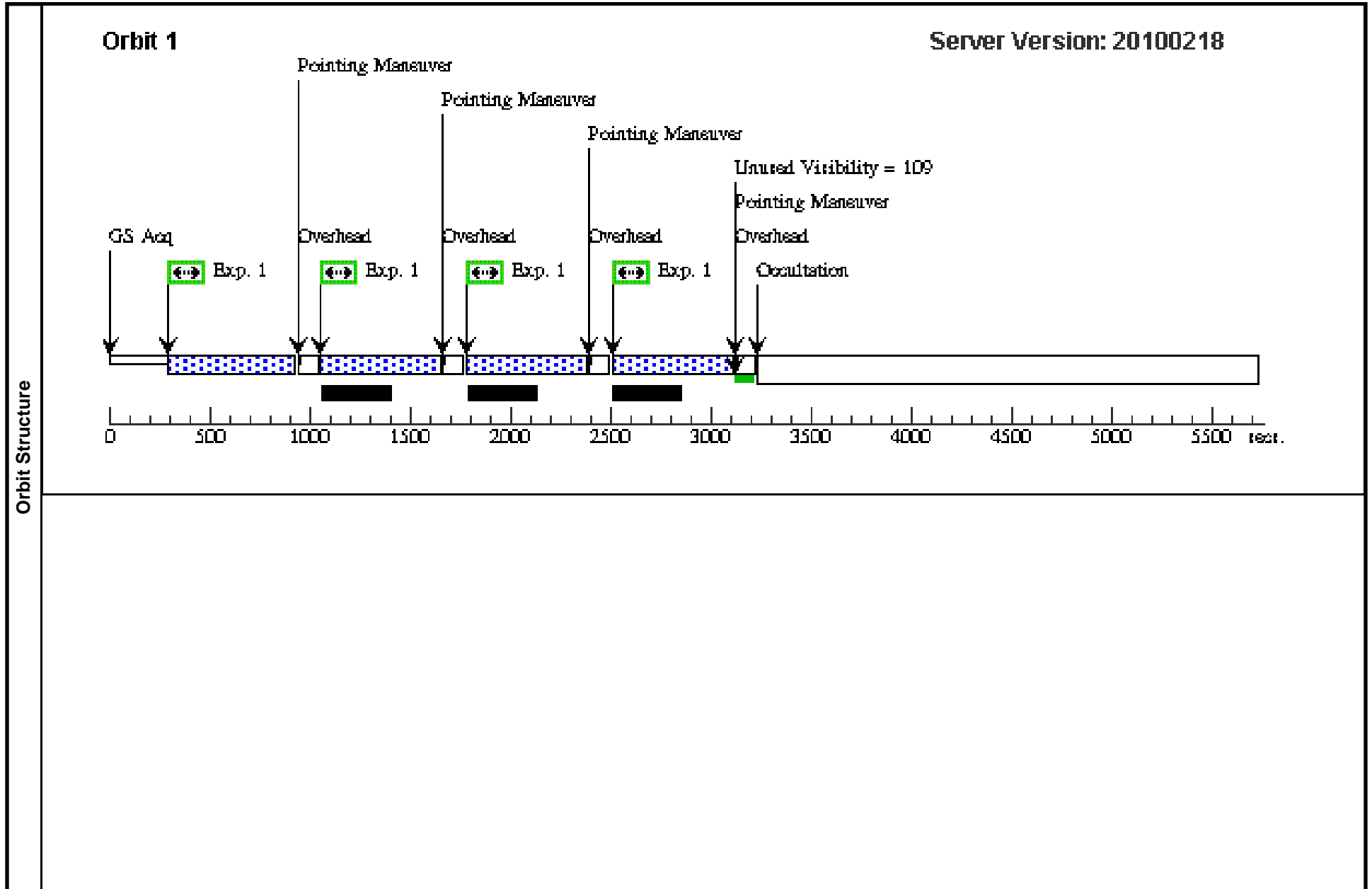
Proposal 11570 - Visit 32 - Narrowing in on the Hubble Constant and Dark Energy

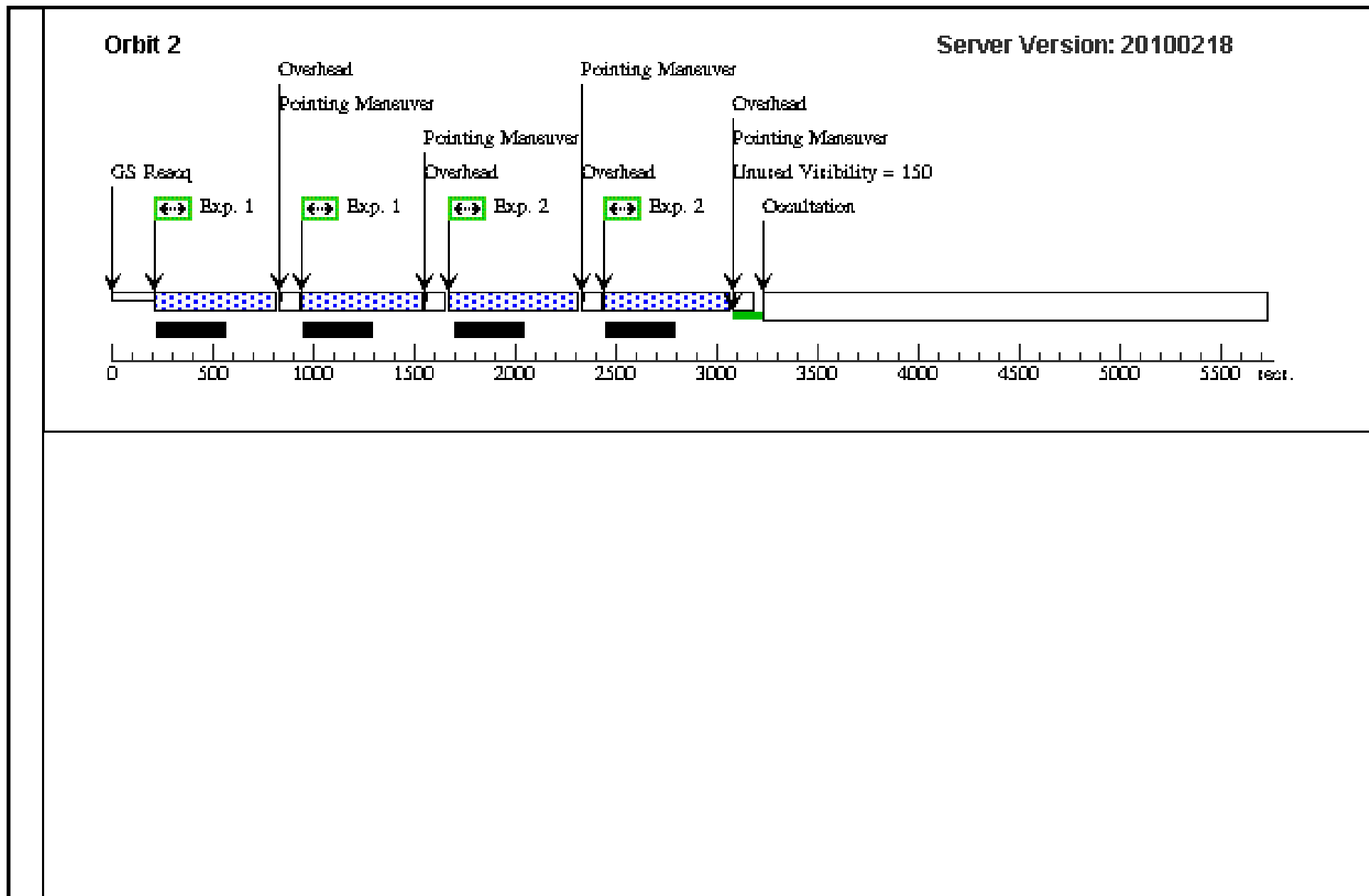
Tue Apr 27 01:09:03 GMT 2010

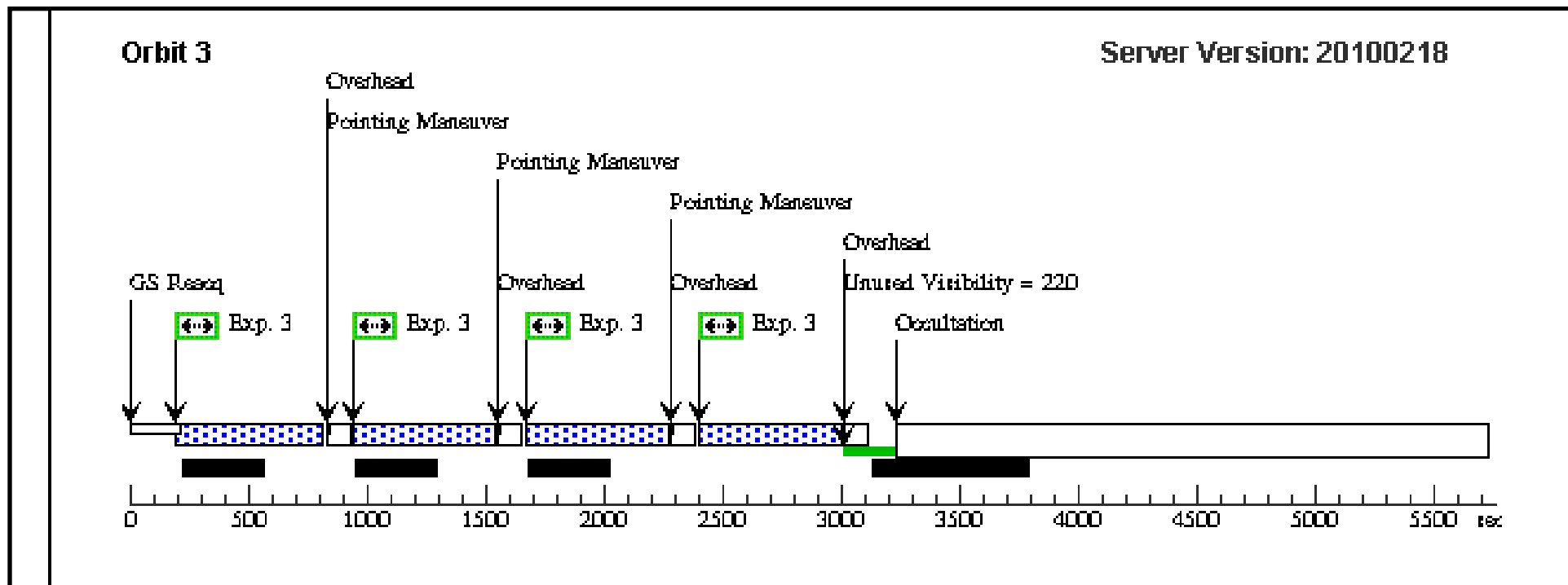
Visit	Proposal 11570, Visit 32, completed					
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: WFC3/UVIS					
	Special Requirements: ORIENT 288D TO 288 D; BETWEEN 11-FEB-2010:01:00:00 AND 13-FEB-2010:01:00:00					
Patterns	#	Primary Pattern		Secondary Pattern		Exposures
	(3)	Pattern 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			(2)
	(4)	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=MOSAIC Number Of Points=3 Point Spacing=2.4 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.754 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.119 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=33.606 Angle Between Sides= Center Pattern=false	(1)
(5)	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=MOSAIC Number Of Points=2 Point Spacing=2.4 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.754 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.119 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=33.606 Angle Between Sides= Center Pattern=false	(3)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	NGC-5584-VIS	RA: 14 22 23.9321 (215.5997171d) Dec: -00 23 22.13 (-.38948d) Equinox: J2000		V=12.0	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>						

Proposal 11570 - Visit 32 - Narrowing in on the Hubble Constant and Dark Energy

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F555W	CR-SPLIT=NO		Pattern 4, Exps 1-1 (4)	600.00 Secs	
									[==>(Pattern 1,1)]	
									[==>(Pattern 1,2)]	
									[==>(Pattern 2,1)]	[1]
									[==>(Pattern 2,2)]	
									[==>(Pattern 3,1)]	[2]
									[==>(Pattern 3,2)]	
	2		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Pattern 3, Exps 2-2 (3)	625.0 Secs	
									[==>(Pattern 1)]	
								[==>(Pattern 2)]	[2]	
3		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO		Pattern 5, Exps 3-3 (5)	600 Secs		
								[==>(Pattern 1,1)]		
								[==>(Pattern 1,2)]		
								[==>(Pattern 2,1)]		
								[==>(Pattern 2,2)]	[3]	







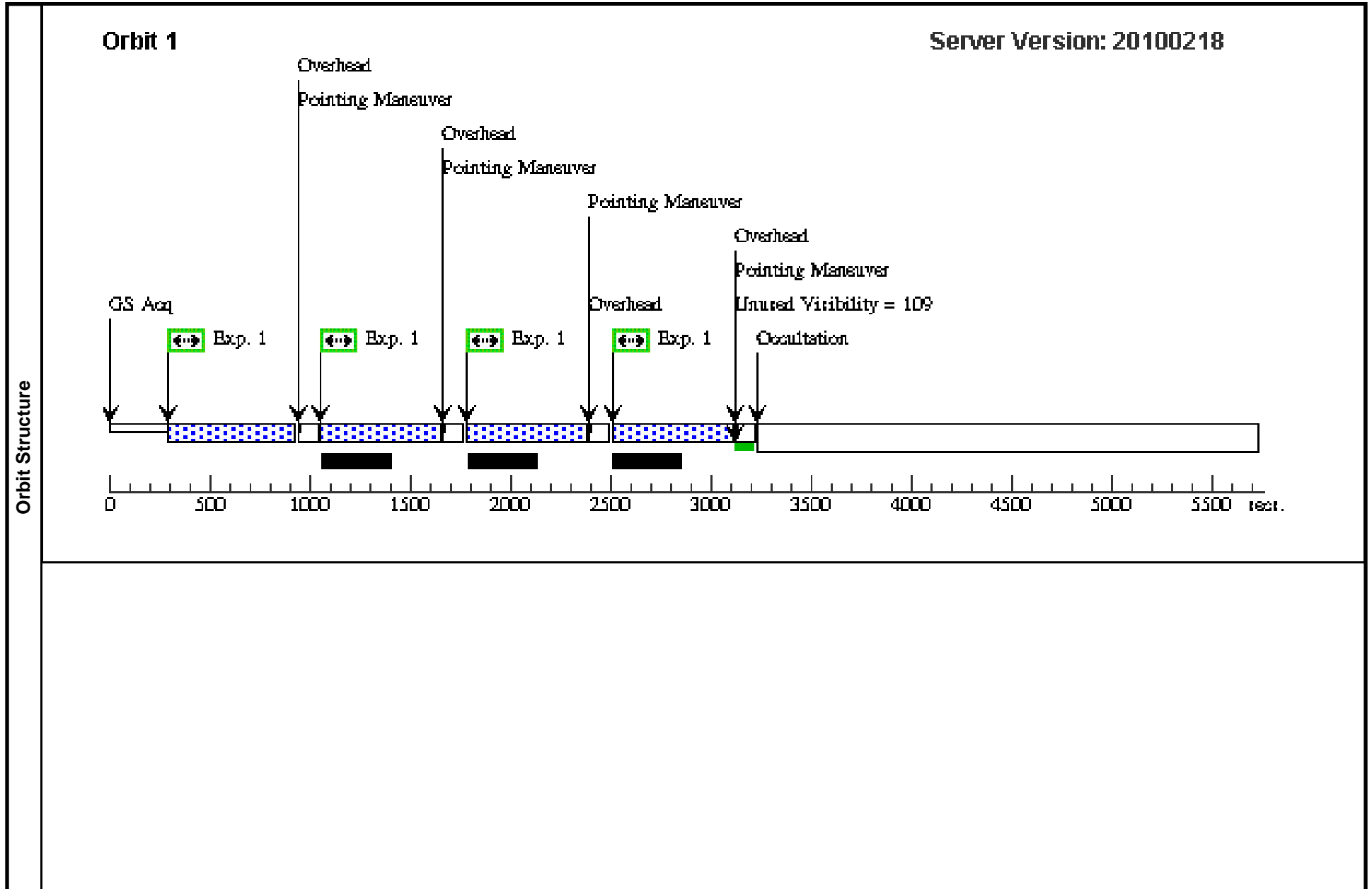
Proposal 11570 - Visit 33 - Narrowing in on the Hubble Constant and Dark Energy

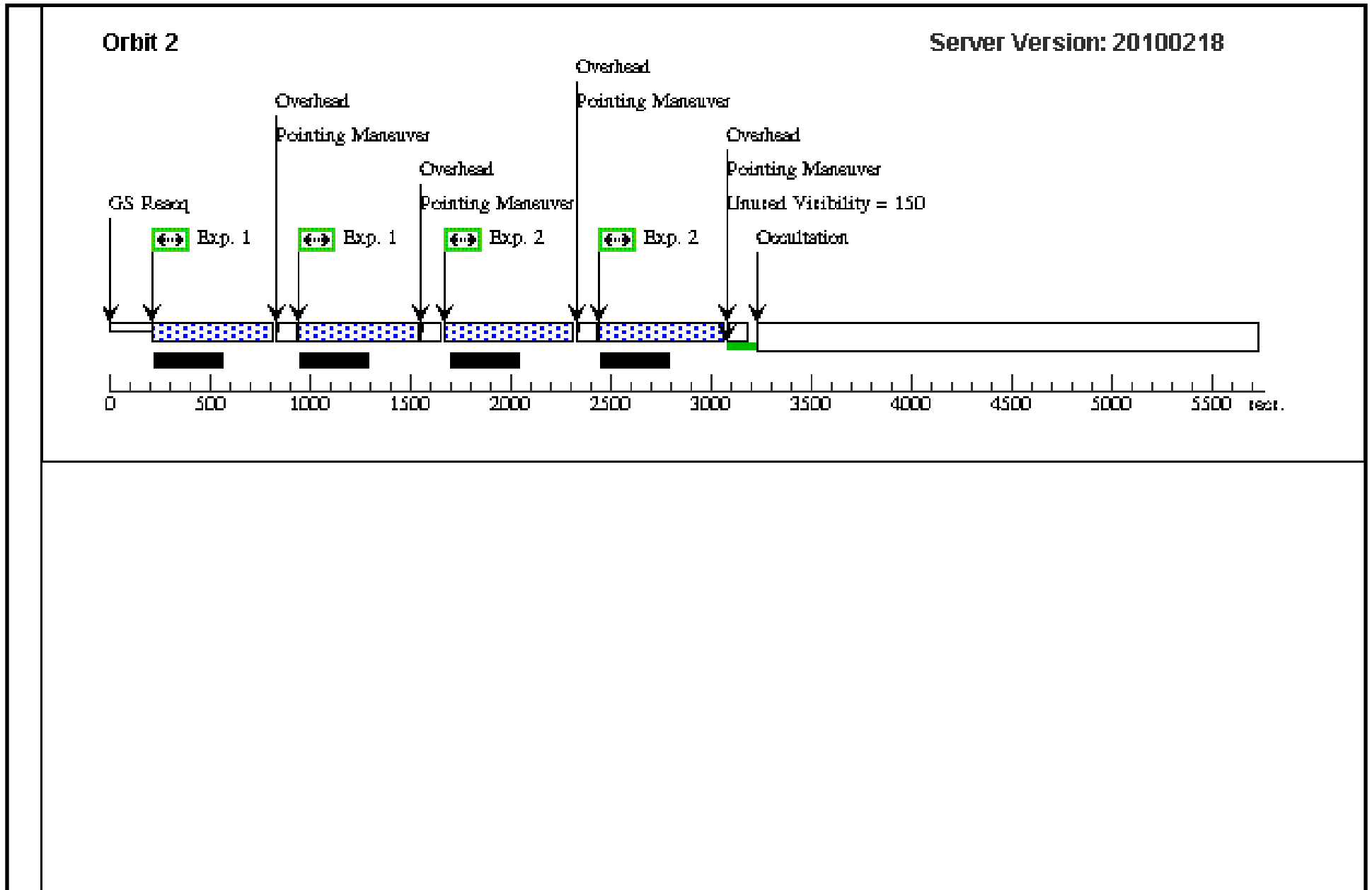
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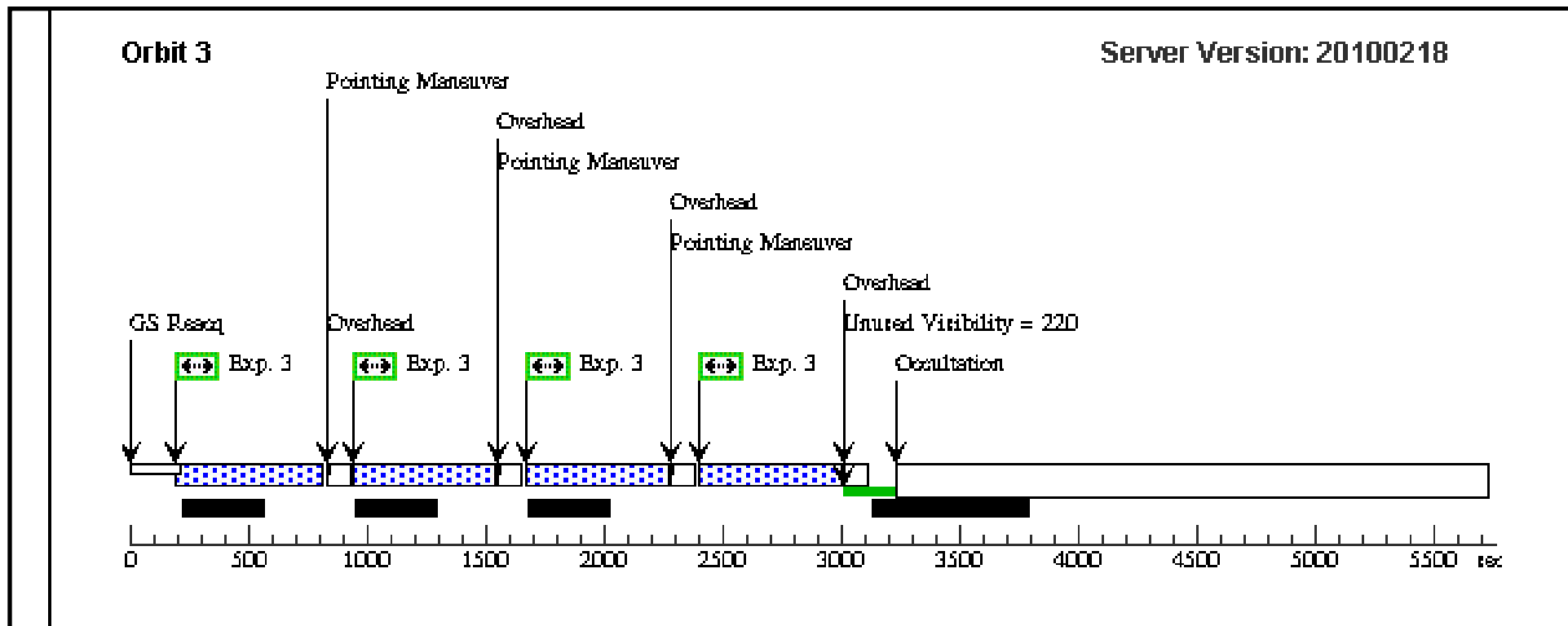
Visit	Proposal 11570, Visit 33, completed					
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: WFC3/UVIS					
	Special Requirements: ORIENT 288D TO 288 D; BETWEEN 16-FEB-2010:22:36:00 AND 18-FEB-2010:22:36:00					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(3)	Pattern 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		(2)		
	(4)	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=MOSAIC Number Of Points=3 Point Spacing=2.4 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=85.754 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.119 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=33.606 Angle Between Sides= Center Pattern=false	(1)		
(5)	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=MOSAIC Number Of Points=2 Point Spacing=2.4 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=85.754 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.119 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=33.606 Angle Between Sides= Center Pattern=false	(3)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	NGC-5584-VIS	RA: 14 22 23.9321 (215.5997171d) Dec: -00 23 22.13 (-.38948d) Equinox: J2000		V=12.0	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>						

Proposal 11570 - Visit 33 - Narrowing in on the Hubble Constant and Dark Energy

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F555W	CR-SPLIT=NO		Pattern 4, Exps 1-1 (4)	600.00 Secs	[1]
									[==>(Pattern 1,1)]	
	2		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Pattern 3, Exps 2-2 (3)	625.0 Secs	[2]
[==>(Pattern 1)]										
3		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO		Pattern 5, Exps 3-3 (5)	600 Secs	[3]	
								[==>(Pattern 1,1)]		
								[==>(Pattern 1,2)]		
								[==>(Pattern 2,1)]		
								[==>(Pattern 2,2)]		







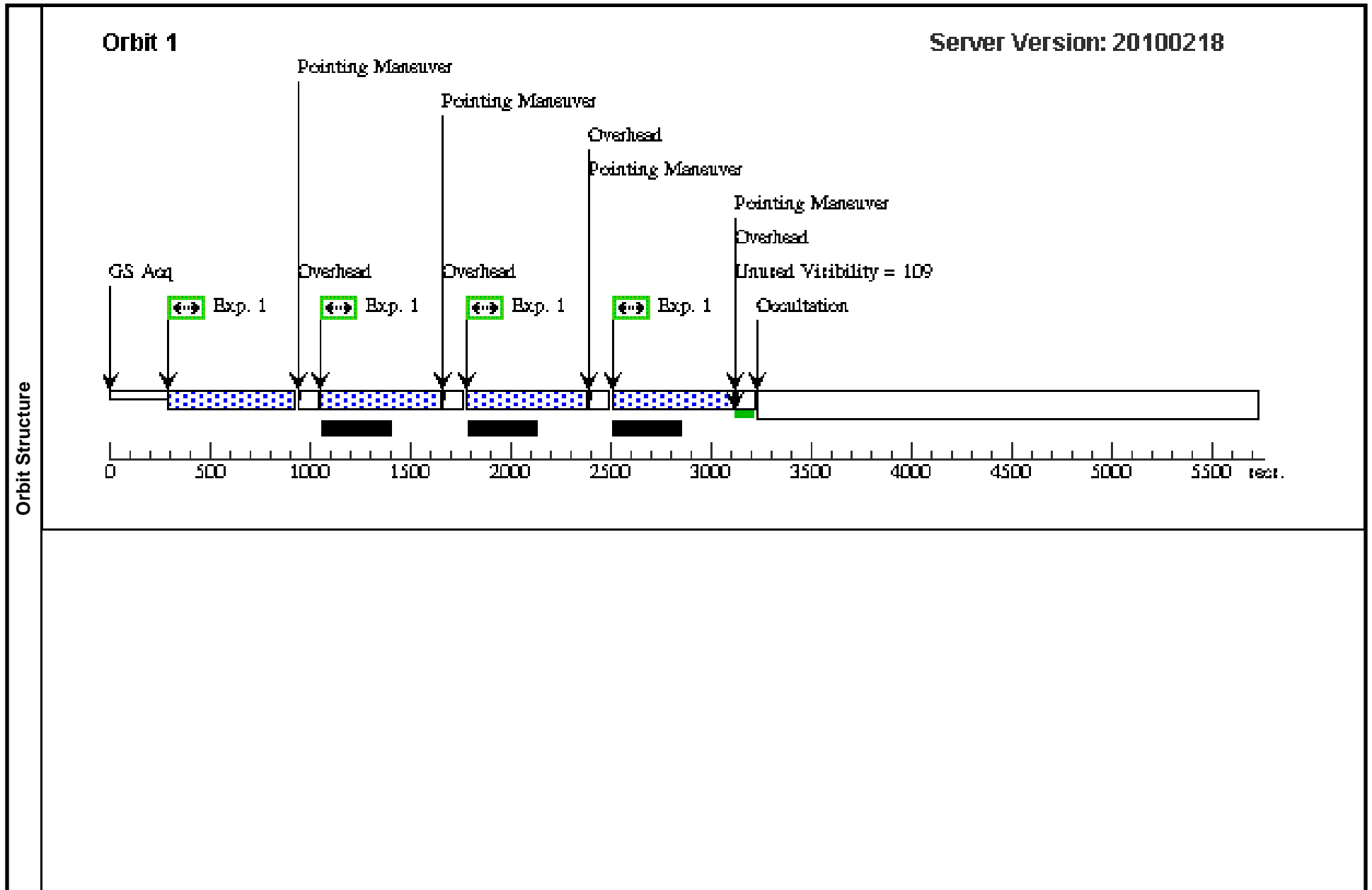
Proposal 11570 - Visit 34 - Narrowing in on the Hubble Constant and Dark Energy

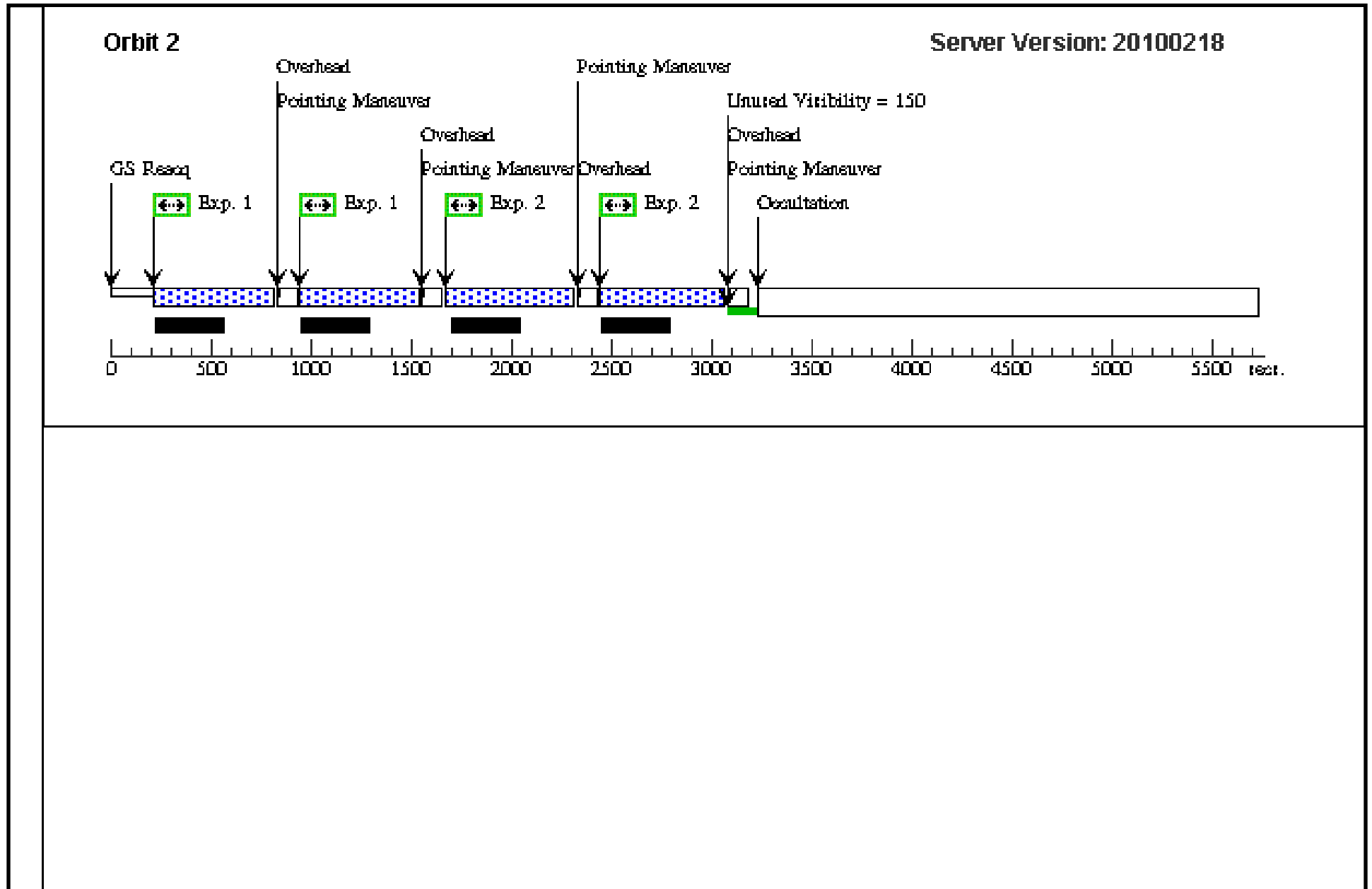
Tue Apr 27 01:09:04 GMT 2010

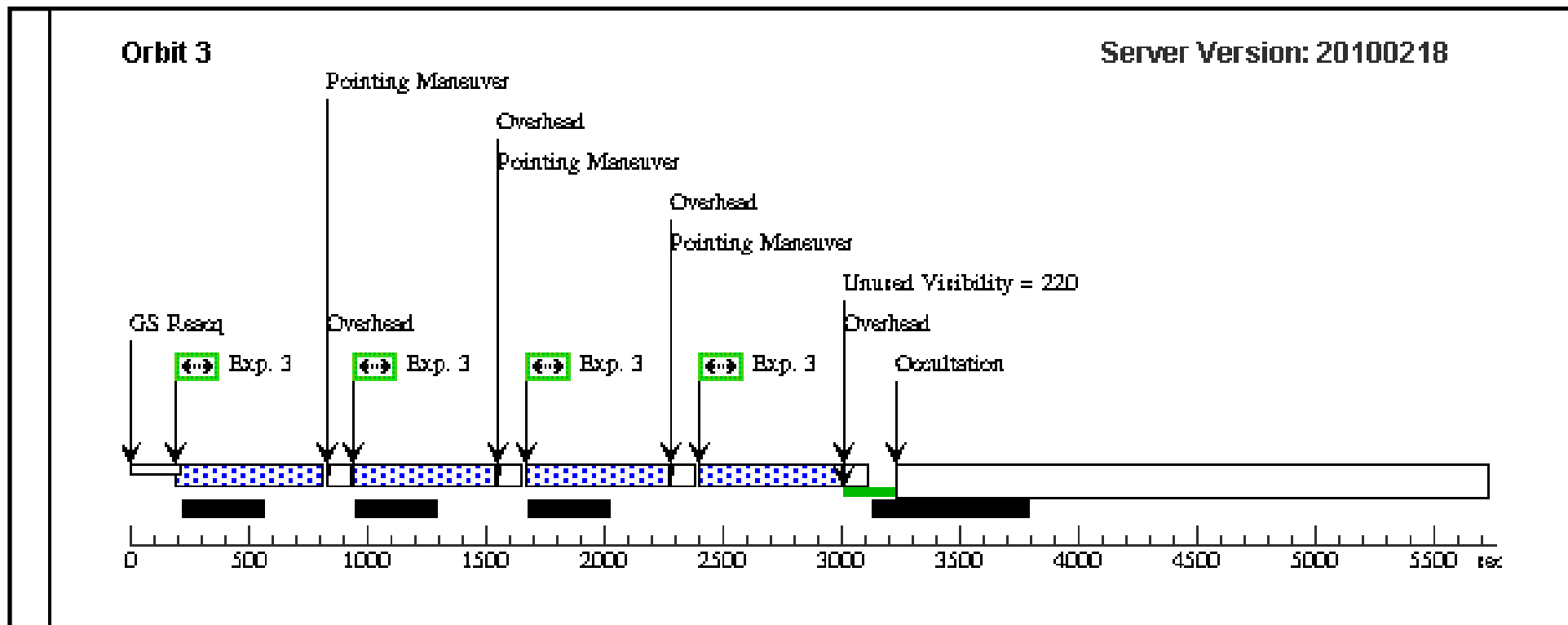
Visit	Proposal 11570, Visit 34, completed					
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: WFC3/UVIS					
	Special Requirements: ORIENT 288D TO 288 D; BETWEEN 22-FEB-2010:10:36:00 AND 24-FEB-2010:10:36:00					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(3)	Pattern 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		(2)		
	(4)	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=MOSAIC Number Of Points=3 Point Spacing=2.4 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=85.754 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.119 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=33.606 Angle Between Sides= Center Pattern=false	(1)		
(5)	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=MOSAIC Number Of Points=2 Point Spacing=2.4 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=85.754 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.119 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=33.606 Angle Between Sides= Center Pattern=false	(3)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	NGC-5584-VIS	RA: 14 22 23.9321 (215.5997171d) Dec: -00 23 22.13 (-.38948d) Equinox: J2000		V=12.0	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>						

Proposal 11570 - Visit 34 - Narrowing in on the Hubble Constant and Dark Energy

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F555W	CR-SPLIT=NO		Pattern 4, Exps 1-1 (4)	600.00 Secs	[1]
									[==>(Pattern 1,1)]	
	2		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Pattern 3, Exps 2-2 (3)	625.0 Secs	[2]
[==>(Pattern 1)]										
3		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO		Pattern 5, Exps 3-3 (5)	600 Secs	[3]	
								[==>(Pattern 1,1)]		
								[==>(Pattern 1,2)]		
								[==>(Pattern 2,1)]		
								[==>(Pattern 2,2)]		



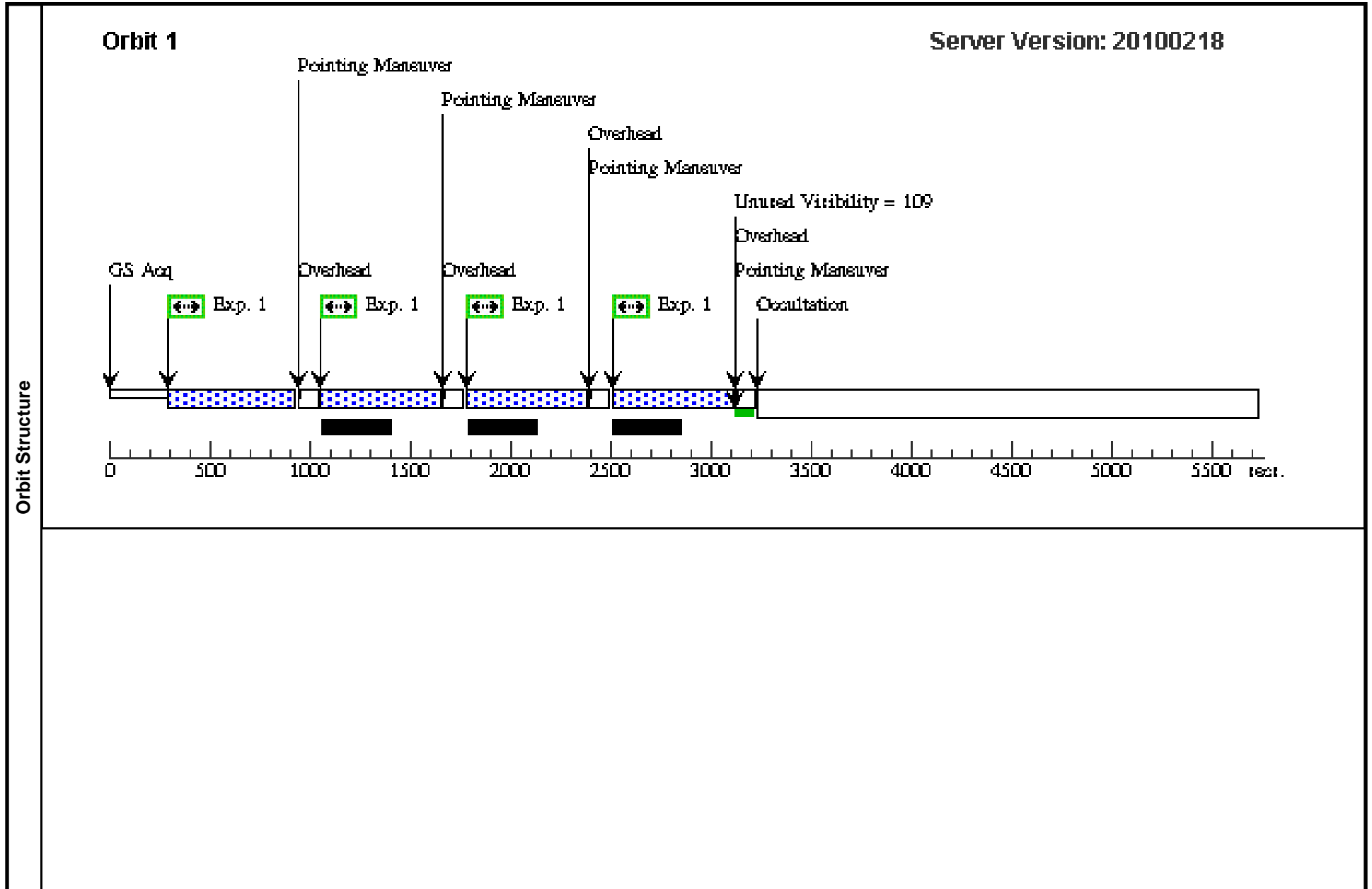


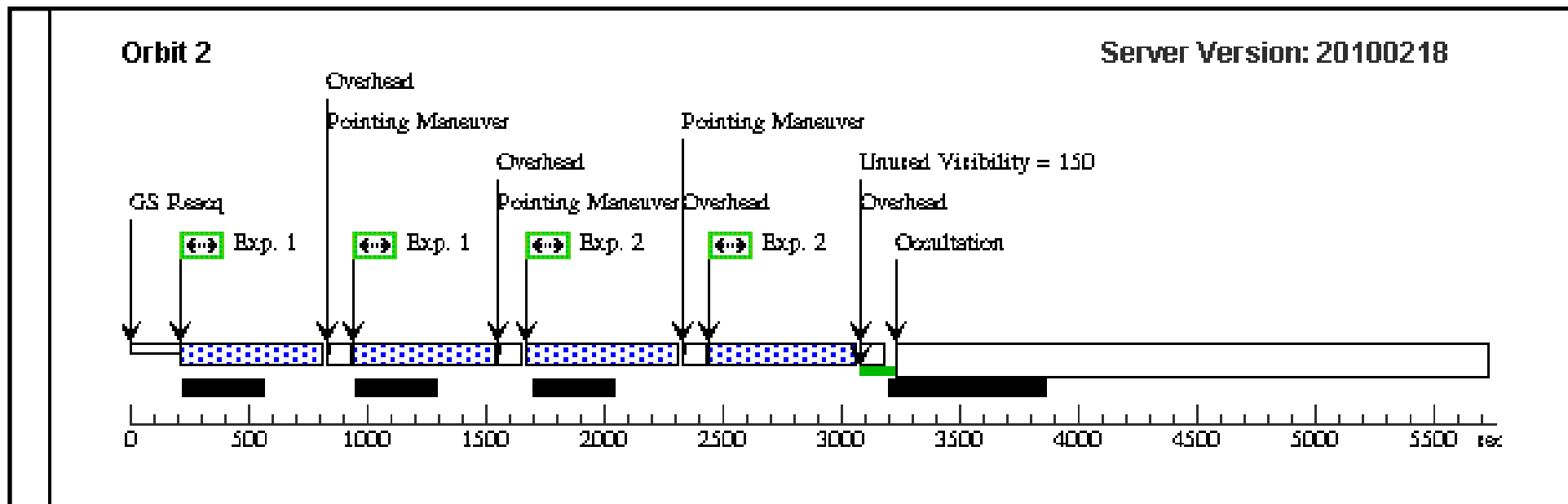


Proposal 11570 - Visit 35 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:09:04 GMT 2010

Visit	Proposal 11570, Visit 35, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 288D TO 288 D; BETWEEN 01-MAR-2010:20:12:00 AND 03-MAR-2010:20:12:00									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(3)	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		(2)				
	(4)	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=MOSAIC Number Of Points=3 Point Spacing=2.4 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.754 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.119 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=33.606 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	NGC-5584-VIS	RA: 14 22 23.9321 (215.5997171d) Dec: -00 23 22.13 (-.38948d) Equinox: J2000		V=12.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F555W	CR-SPLIT=NO			Pattern 4, Exps 1-1 (4)	600 Secs [==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 3,1)] [==>(Pattern 3,2)]
2		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO			Pattern 3, Exps 2-2 (3)	625.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[2]

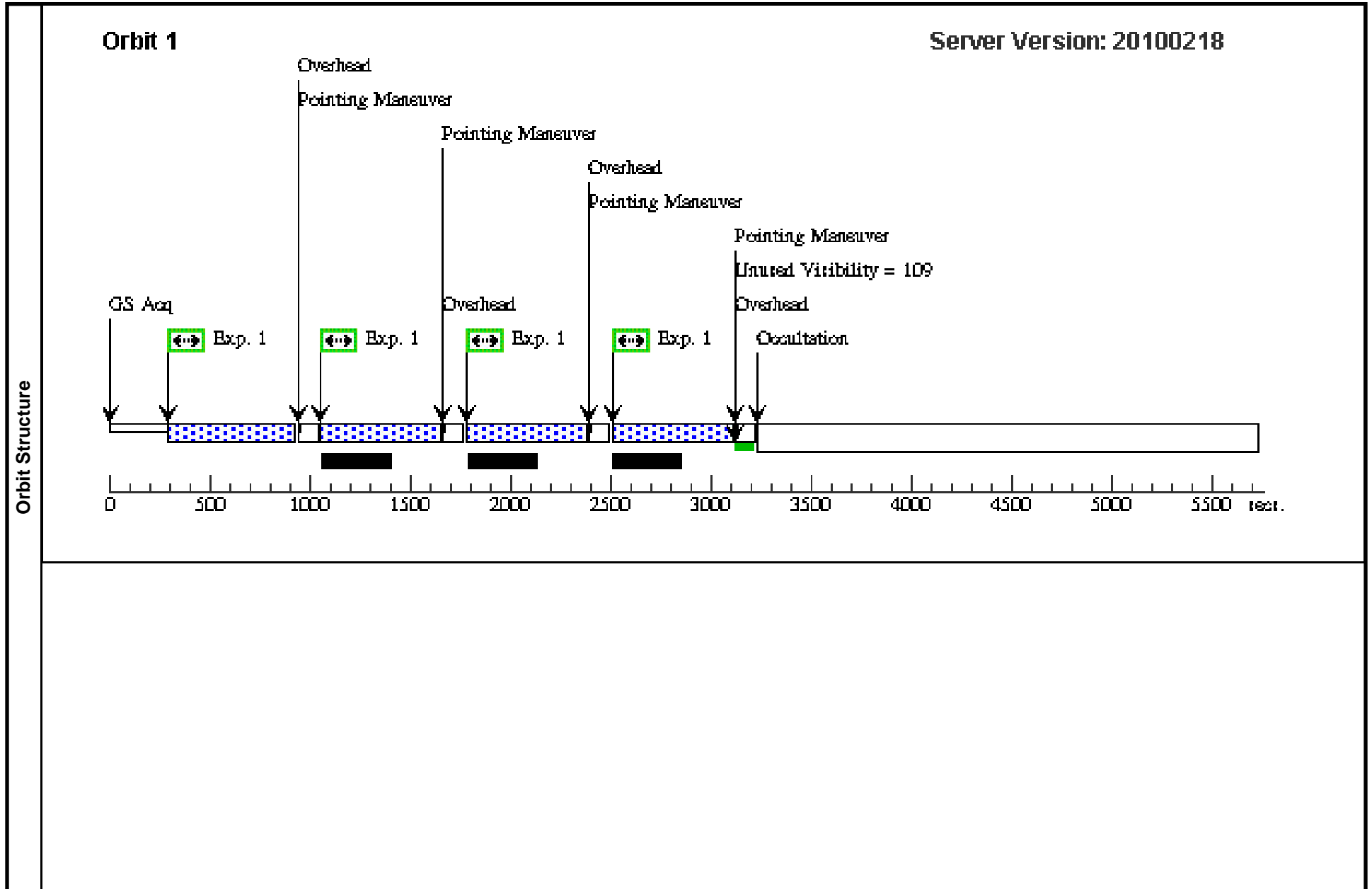


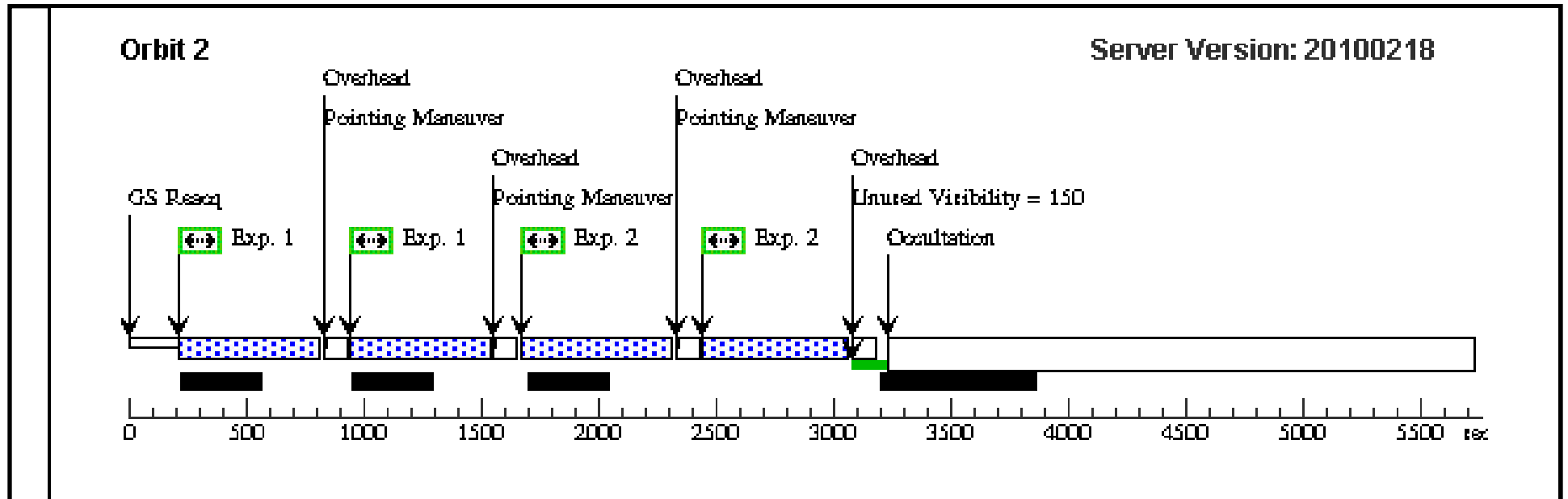


Proposal 11570 - Visit 26 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:09:05 GMT 2010

Visit		Proposal 11570, Visit 26, failed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 25; AFTER 25 BY 7.6 D TO 9.6 D								
Patterns	#	Primary Pattern	Secondary Pattern		Exposures					
	(3)	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			(2)					
(4)	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=MOSAIC Number Of Points=3 Point Spacing=2.4 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=85.754 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.119 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=33.606 Angle Between Sides= Center Pattern=false			(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	NGC-5584-VIS	RA: 14 22 23.9321 (215.5997171d) Dec: -00 23 22.13 (-.38948d) Equinox: J2000		V=12.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F555W	CR-SPLIT=NO		Pattern 4, Exps 1-1 (4)	600 Secs	
									[=>(Pattern 1,1)]	[1]
									[=>(Pattern 1,2)]	
								[=>(Pattern 2,1)]		
								[=>(Pattern 2,2)]		
								[=>(Pattern 3,1)]	[2]	
								[=>(Pattern 3,2)]		
2		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO			Pattern 3, Exps 2-2 (3)	625.0 Secs	
								[=>(Pattern 1)]	[2]	
								[=>(Pattern 2)]		





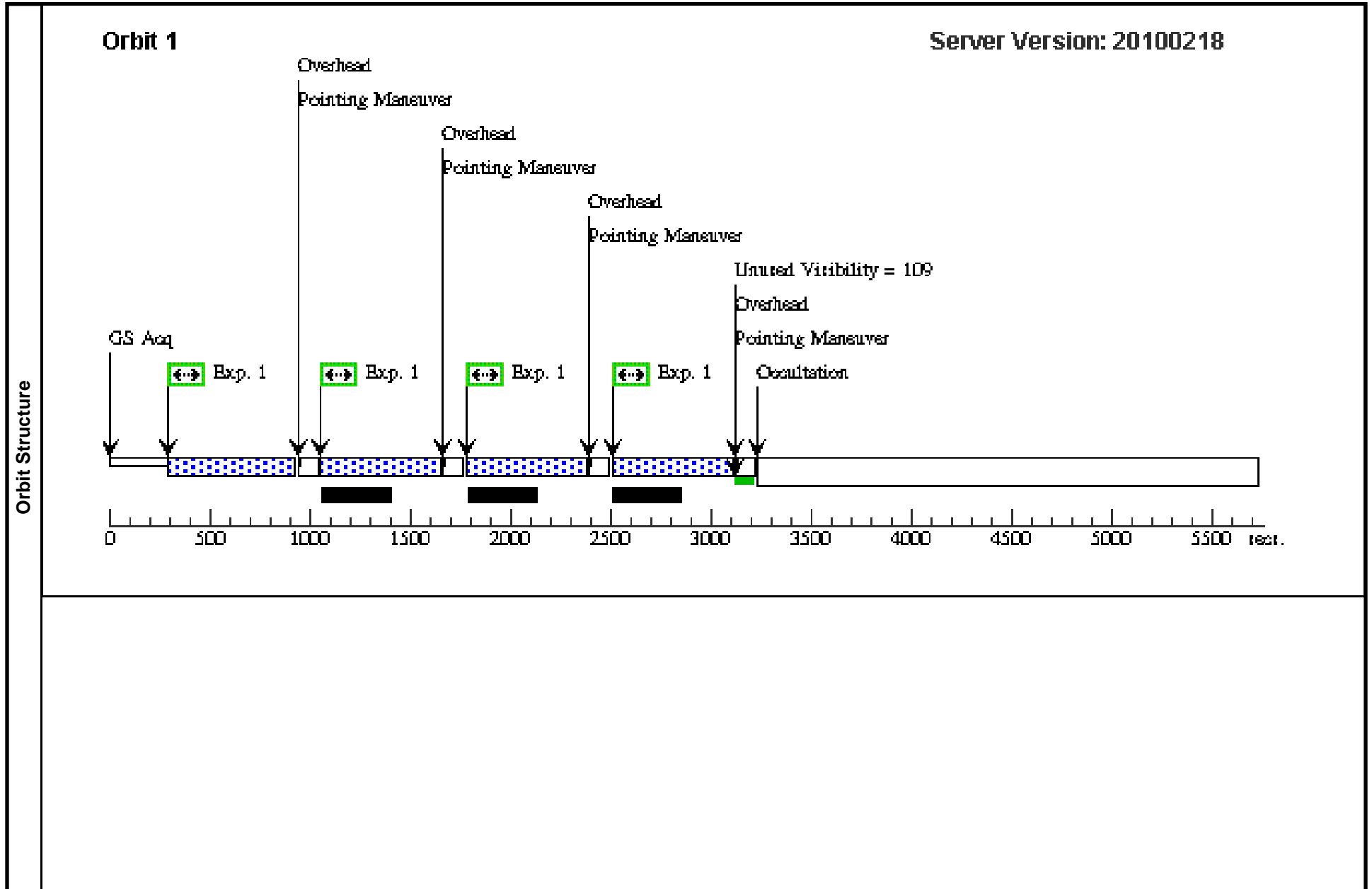
Proposal 11570 - Visit 40 - Narrowing in on the Hubble Constant and Dark Energy

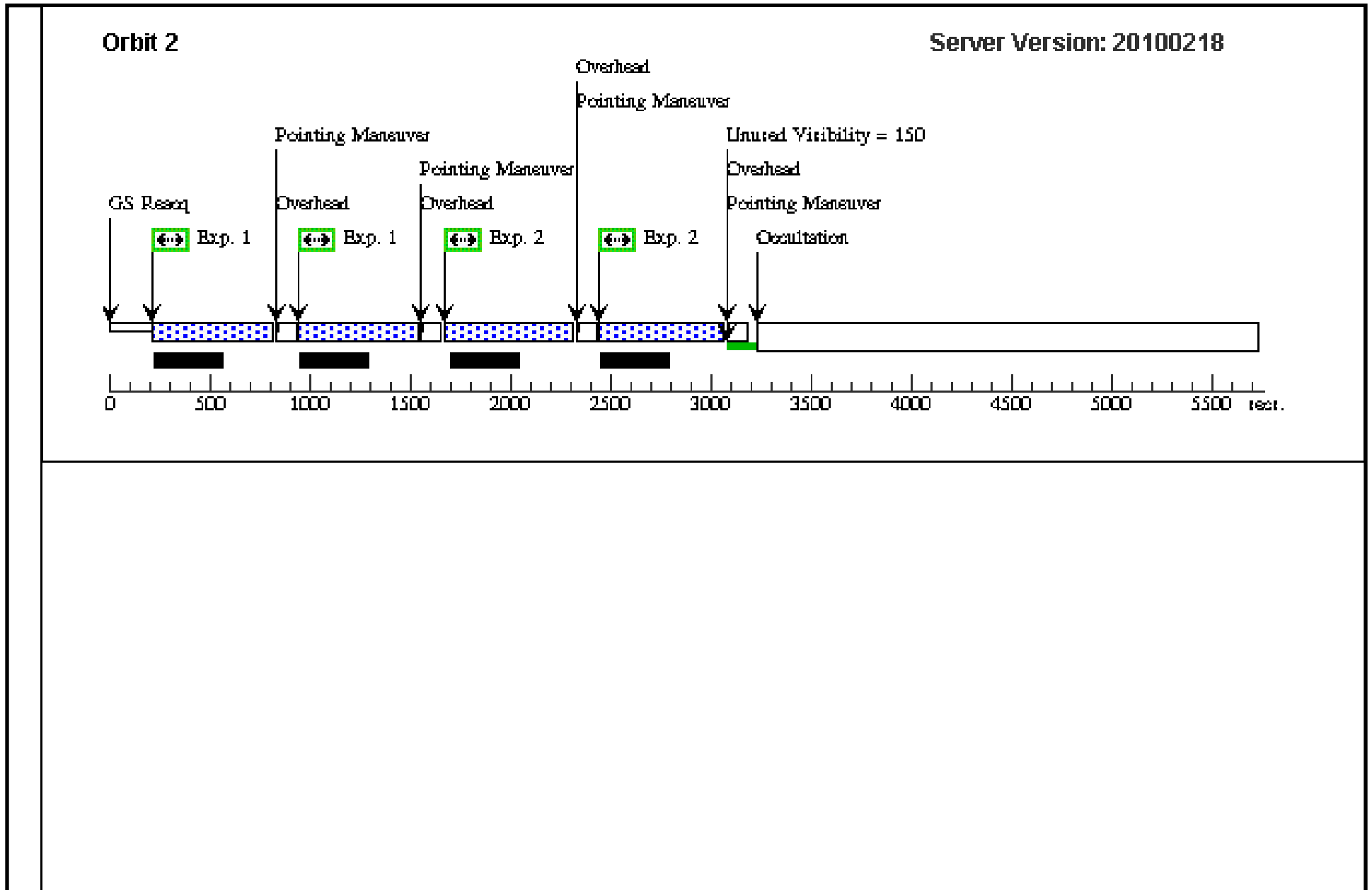
Tue Apr 27 01:09:05 GMT 2010

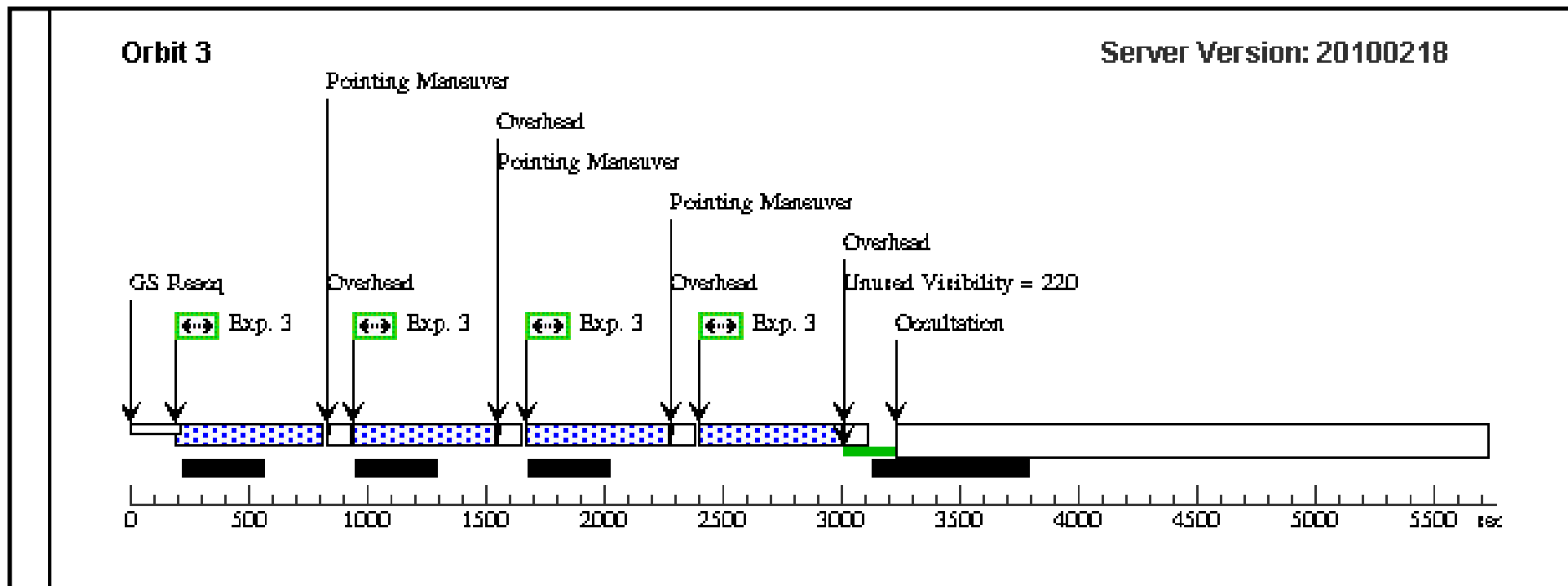
Visit	Proposal 11570, Visit 40, completed					
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: WFC3/UVIS					
	Special Requirements: ORIENT 288D TO 288 D; BETWEEN 18-MAR-2010:22:36:00 AND 20-MAR-2010:22:36:00					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(3)	Pattern 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		(2)		
	(4)	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=MOSAIC Number Of Points=3 Point Spacing=2.4 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=85.754 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.119 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=33.606 Angle Between Sides= Center Pattern=false	(1)		
(5)	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=MOSAIC Number Of Points=2 Point Spacing=2.4 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=85.754 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.119 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=33.606 Angle Between Sides= Center Pattern=false	(3)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	NGC-5584-VIS	RA: 14 22 23.9321 (215.5997171d) Dec: -00 23 22.13 (-.38948d) Equinox: J2000		V=12.0	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>						

Proposal 11570 - Visit 40 - Narrowing in on the Hubble Constant and Dark Energy

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F555W	CR-SPLIT=NO		Pattern 4, Exps 1-1 (4)	600 Secs	[1]
									[==>(Pattern 1,1)]	
	2		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Pattern 3, Exps 2-2 (3)	625.0 Secs	[2]
[==>(Pattern 1)]										
3		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO		Pattern 5, Exps 3-3 (5)	600 Secs	[3]	
								[==>(Pattern 1,1)]		
								[==>(Pattern 1,2)]		
								[==>(Pattern 2,1)]		
								[==>(Pattern 2,2)]		







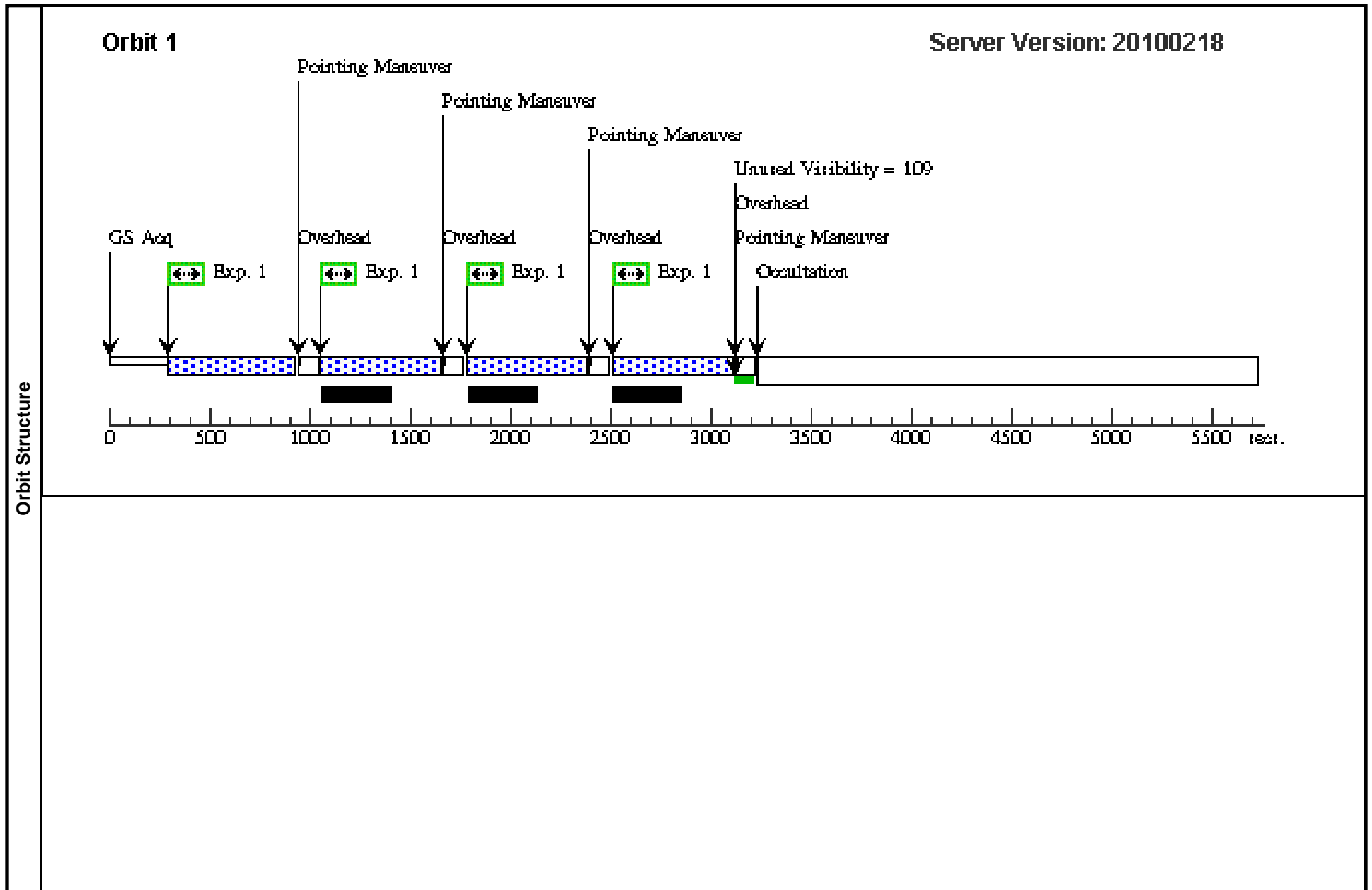
Proposal 11570 - Visit 36 - Narrowing in on the Hubble Constant and Dark Energy

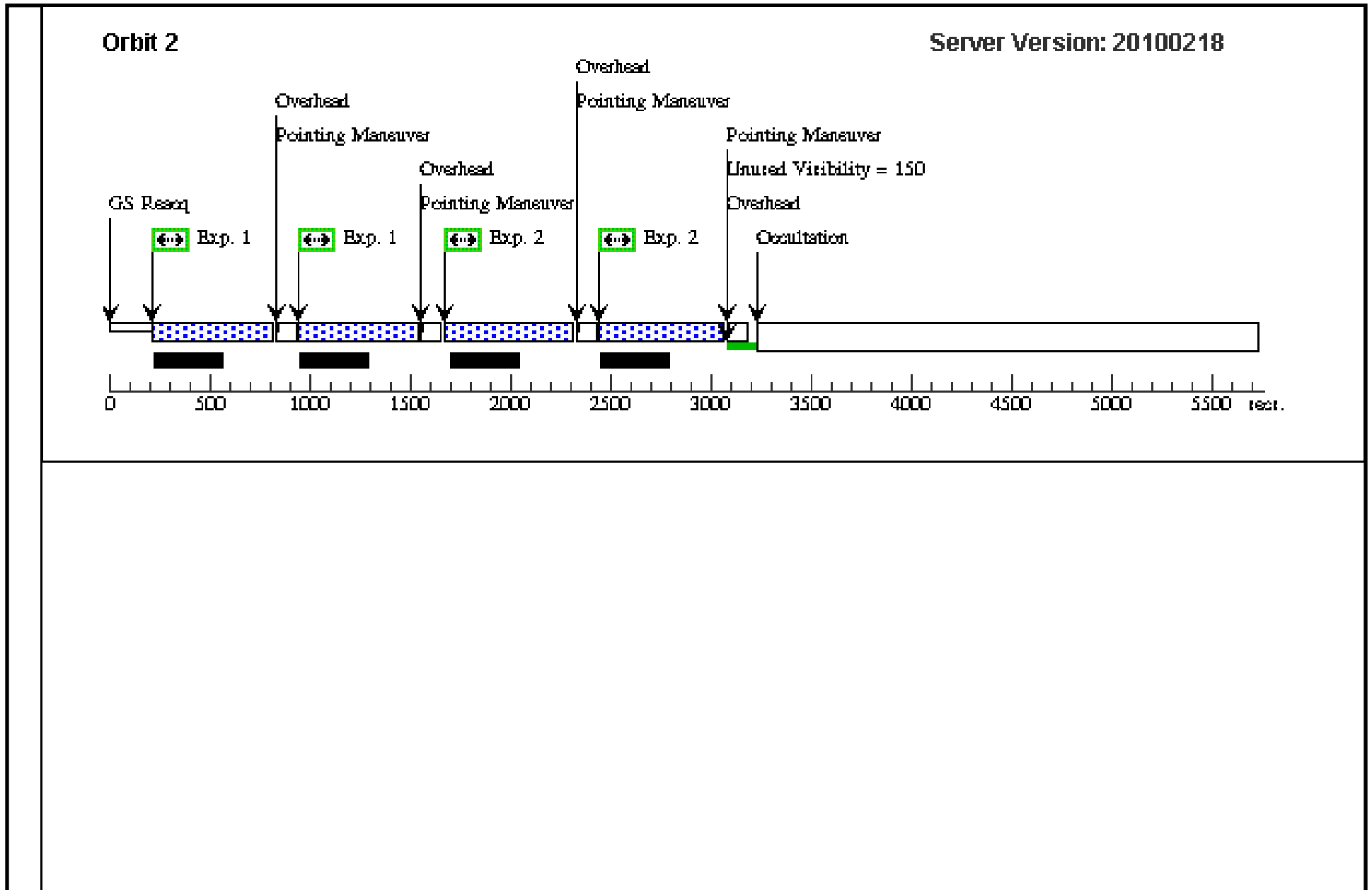
Tue Apr 27 01:09:05 GMT 2010

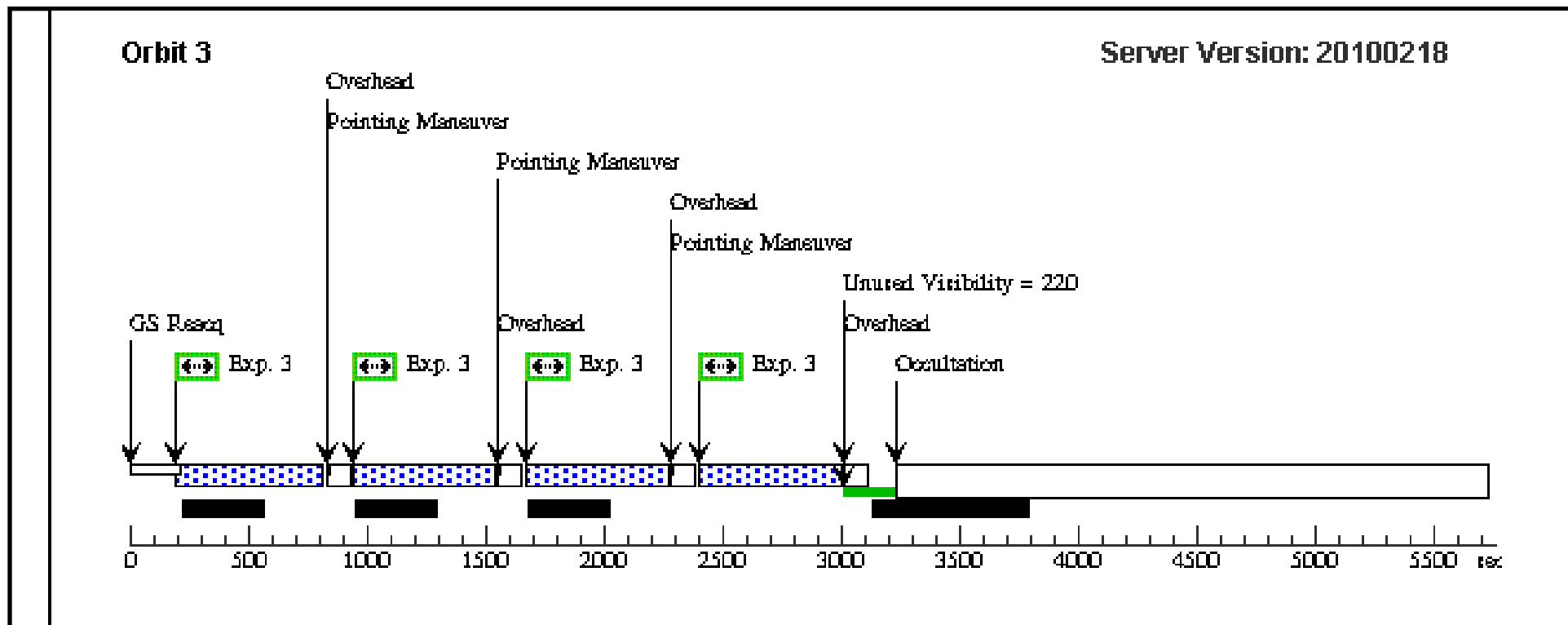
Visit	Proposal 11570, Visit 36, completed					
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: WFC3/UVIS					
	Special Requirements: ORIENT 288D TO 288 D; BETWEEN 07-MAR-2010:22:00:00 AND 09-MAR-2010:22:00:00					
Patterns	#	Primary Pattern		Secondary Pattern		Exposures
	(3)	Pattern 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			(2)
	(4)	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=MOSAIC Number Of Points=3 Point Spacing=2.4 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.754 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.119 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=33.606 Angle Between Sides= Center Pattern=false	(1)
(5)	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=MOSAIC Number Of Points=2 Point Spacing=2.4 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.754 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.119 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=33.606 Angle Between Sides= Center Pattern=false	(3)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	NGC-5584-VIS	RA: 14 22 23.9321 (215.5997171d) Dec: -00 23 22.13 (-.38948d) Equinox: J2000		V=12.0	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>						

Proposal 11570 - Visit 36 - Narrowing in on the Hubble Constant and Dark Energy

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F555W	CR-SPLIT=NO		Pattern 4, Exps 1-1 (4)	600 Secs	[1]
									[==>(Pattern 1,1)]	
	2		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Pattern 3, Exps 2-2 (3)	625.0 Secs	[2]
[==>(Pattern 1)]										
3		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F814W	CR-SPLIT=NO		Pattern 5, Exps 3-3 (5)	600 Secs	[3]	
								[==>(Pattern 1,1)]		
								[==>(Pattern 1,2)]		
								[==>(Pattern 2,1)]		
								[==>(Pattern 2,2)]		



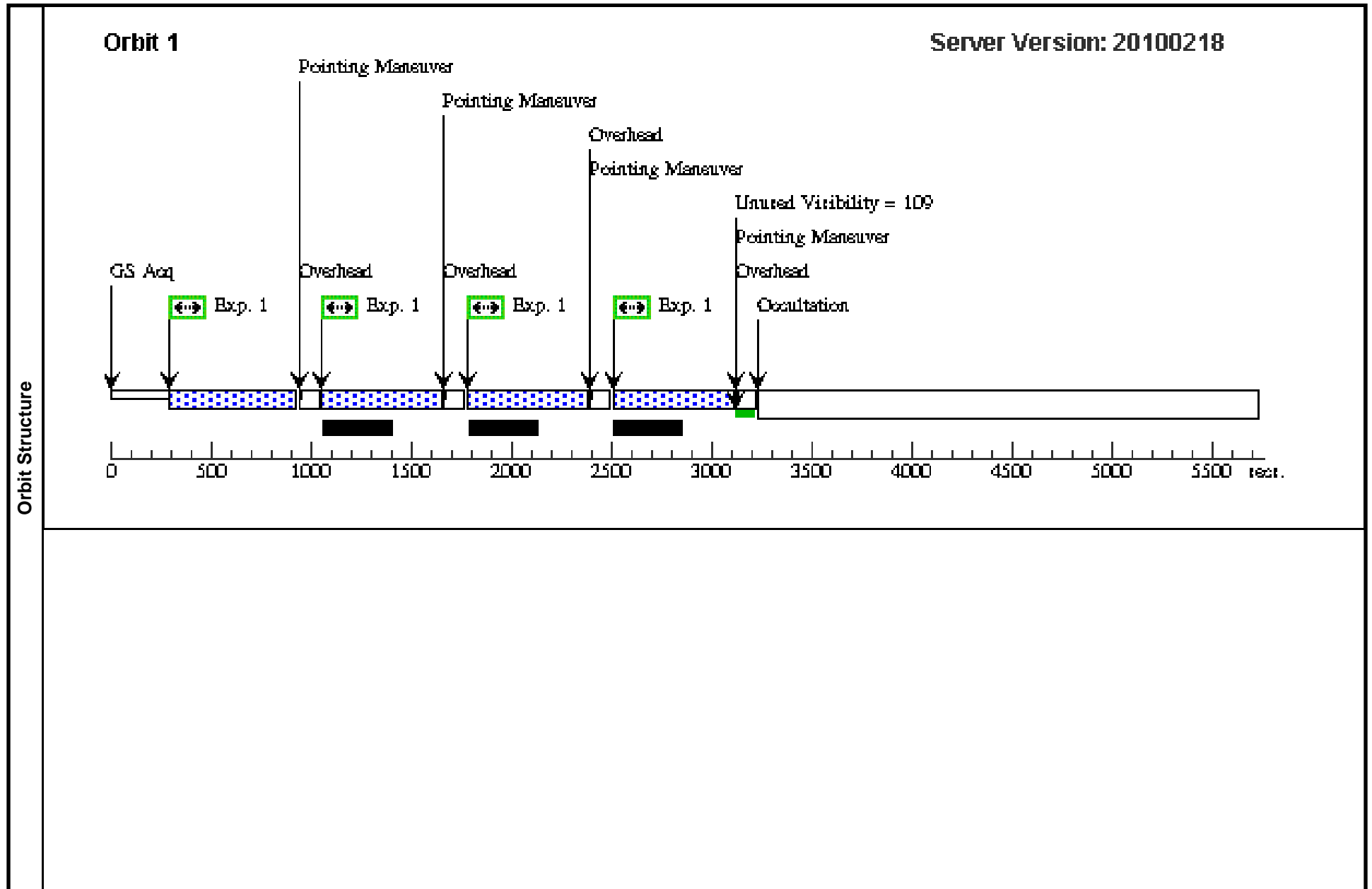


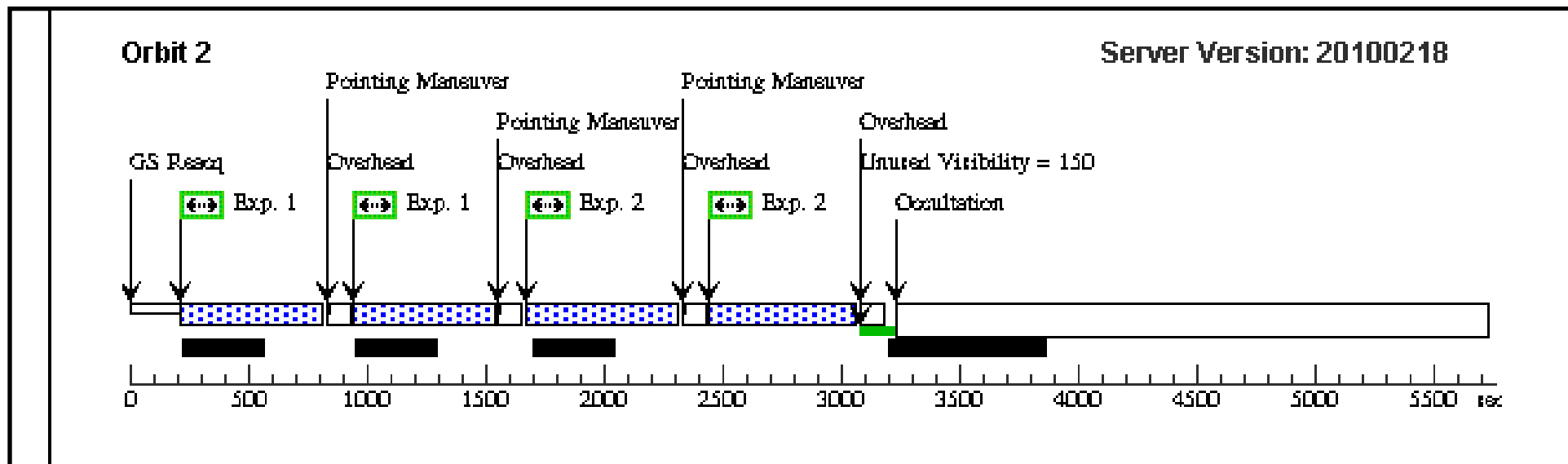


Proposal 11570 - Visit 38 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:09:06 GMT 2010

Visit		Proposal 11570, Visit 38, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 25; AFTER 25 BY 21.4 D TO 23.4 D								
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(3)	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		(2)						
(4)	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=MOSAIC Number Of Points=3 Point Spacing=2.4 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=85.754 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.119 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=33.606 Angle Between Sides= Center Pattern=false	(1)							
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	NGC-5584-VIS	RA: 14 22 23.9321 (215.5997171d) Dec: -00 23 22.13 (-.38948d) Equinox: J2000		V=12.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F555W	CR-SPLIT=NO		Pattern 4, Exps 1-1 (4)	600 Secs	
									[=>(Pattern 1,1)]	[1]
									[=>(Pattern 1,2)]	
									[=>(Pattern 2,1)]	
									[=>(Pattern 2,2)]	
									[=>(Pattern 3,1)]	[2]
									[=>(Pattern 3,2)]	
2		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO			Pattern 3, Exps 2-2 (3)	625.0 Secs	
									[=>(Pattern 1)]	[2]
									[=>(Pattern 2)]	

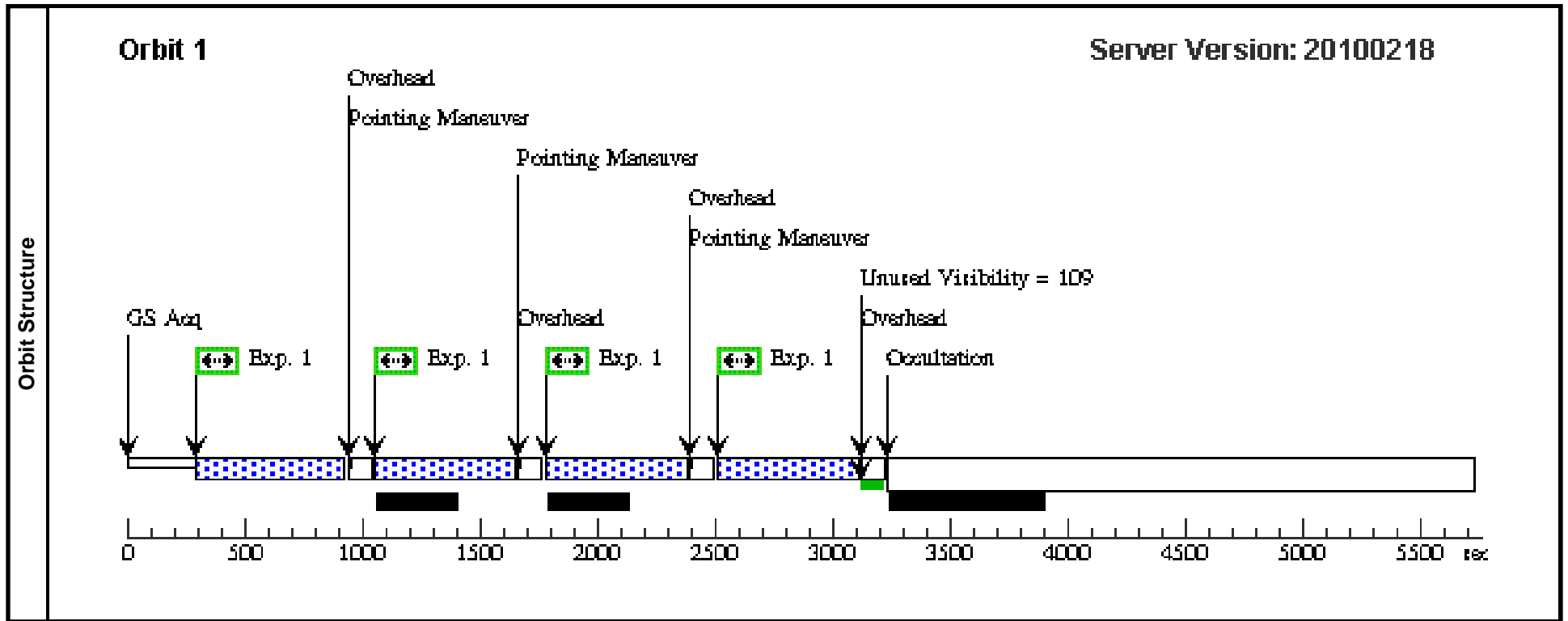




Proposal 11570 - Visit 0A - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:09:06 GMT 2010

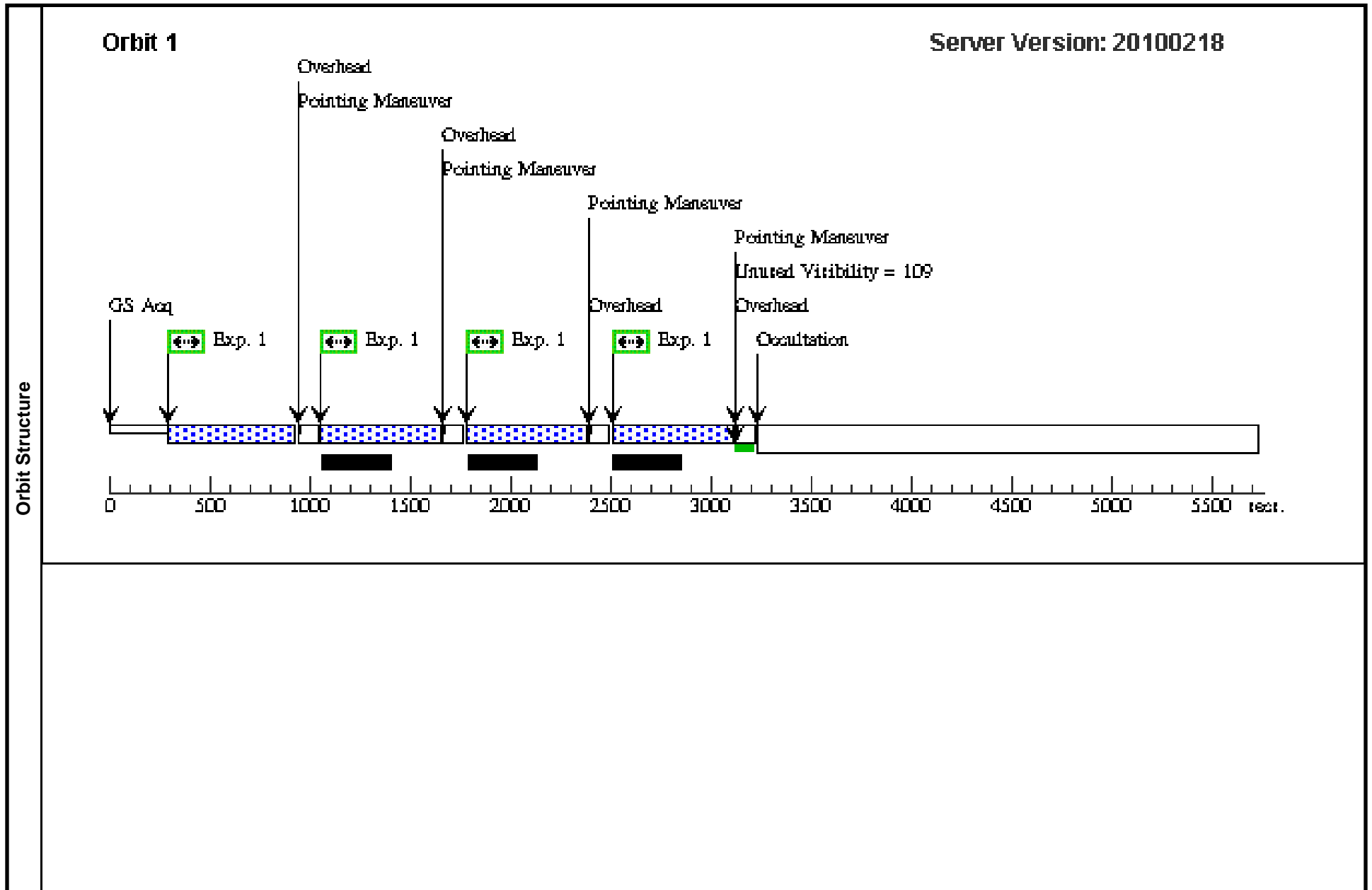
Visit	Proposal 11570, Visit 0A, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 245D TO 245 D; BETWEEN 29-MAR-2010:10:00:00 AND 31-MAR-2010:10:00:00									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(2)		Pattern Type=WFC3-UVIS-DITHER-BOX 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)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	NGC-5584-VIS	RA: 14 22 23.9321 (215.5997171d) Dec: -00 23 22.13 (-.38948d) Equinox: J2000		V=12.0	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F555W	CR-SPLIT=NO			Pattern 2, Exps 1-1 (2)	600 Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]

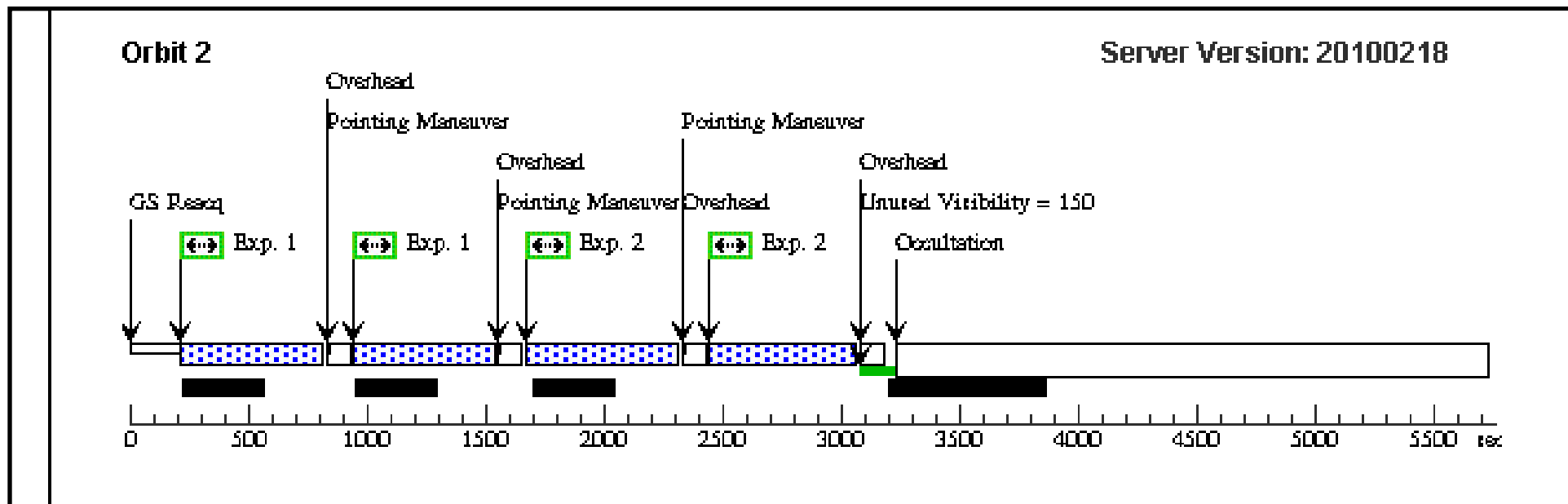


Proposal 11570 - Visit 39 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:09:06 GMT 2010

Visit		Proposal 11570, Visit 39, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 288D TO 288 D; BETWEEN 14-MAR-2010:10:12:00 AND 16-MAR-2010:10:12:00								
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(3)	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		(2)						
(4)	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=MOSAIC Number Of Points=3 Point Spacing=2.4 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=85.754 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.119 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=33.606 Angle Between Sides= Center Pattern=false	(1)							
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	NGC-5584-VIS	RA: 14 22 23.9321 (215.5997171d) Dec: -00 23 22.13 (-.38948d) Equinox: J2000		V=12.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F555W	CR-SPLIT=NO			Pattern 4, Exps 1-1 (4)	600 Secs [==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 3,1)] [==>(Pattern 3,2)]
2		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO			Pattern 3, Exps 2-2 (3)	625.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[2]

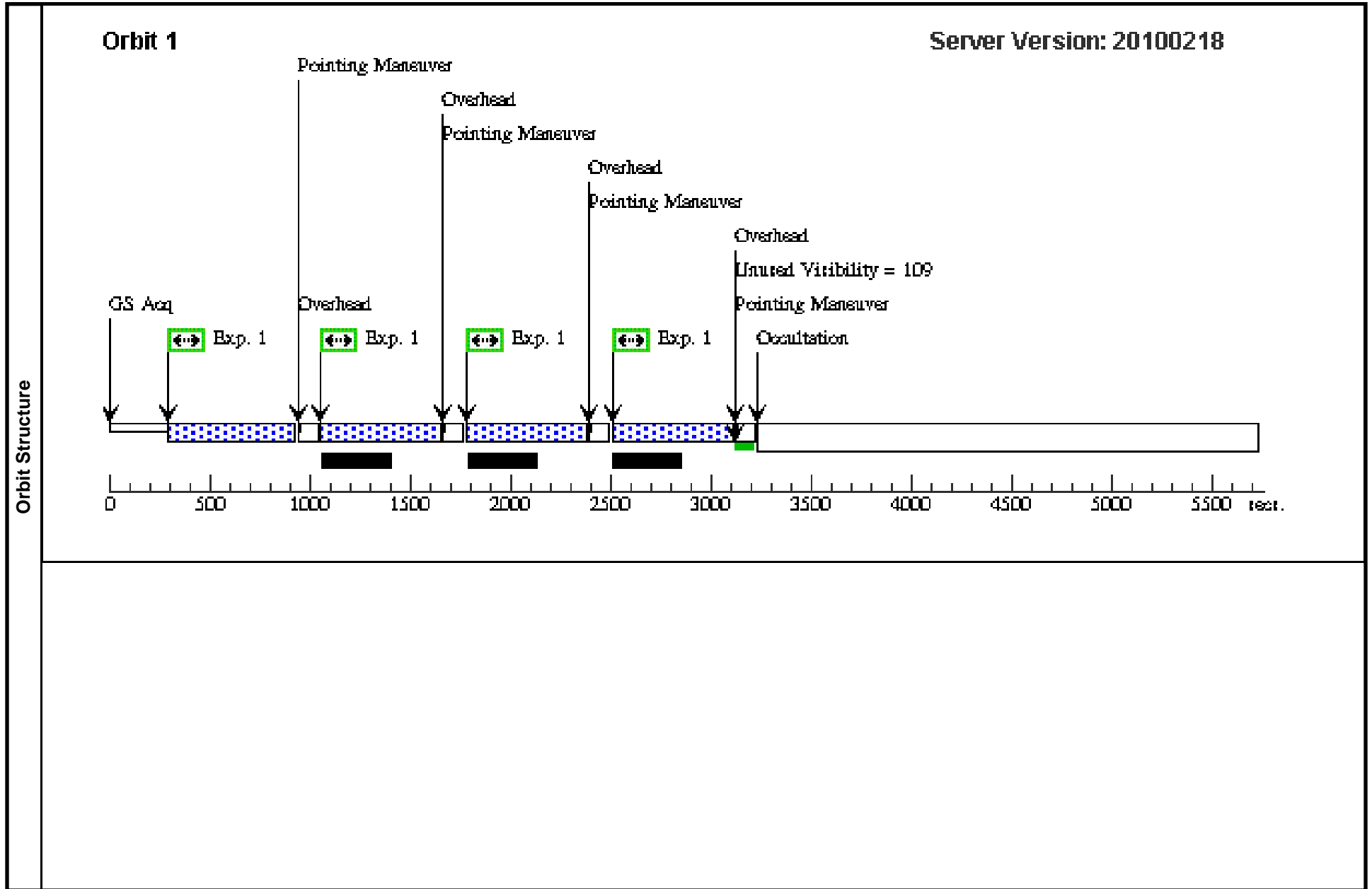


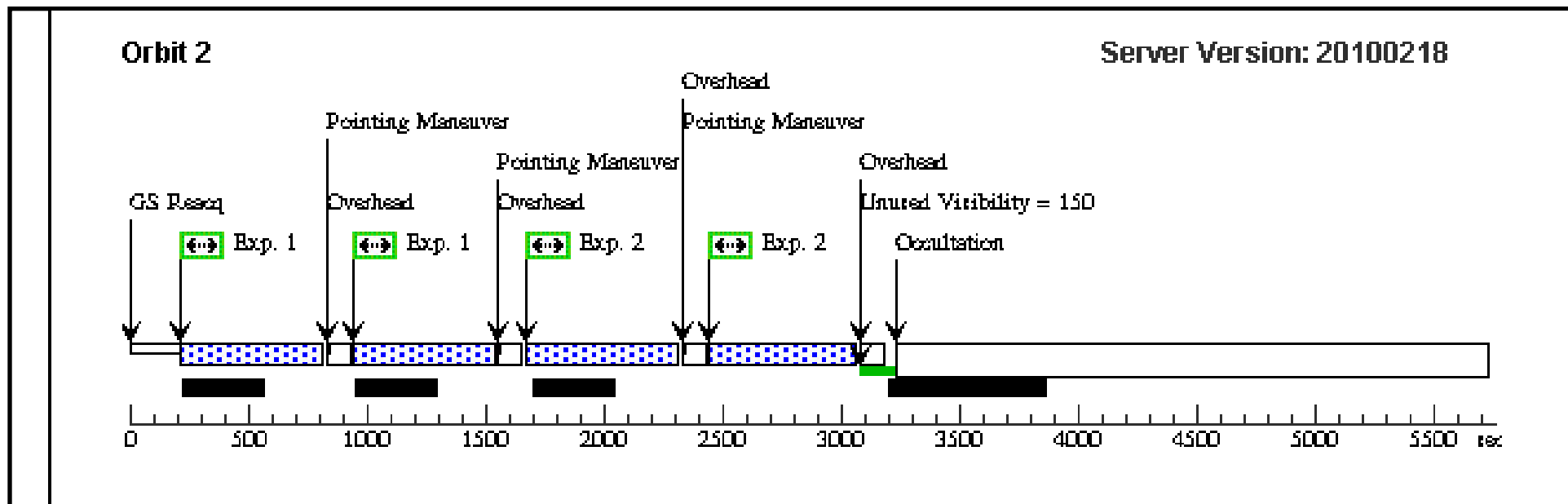


Proposal 11570 - Visit 0C - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:09:06 GMT 2010

Visit		Proposal 11570, Visit 0C, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 245D TO 245 D; BETWEEN 09-APR-2010:10:12:00 AND 11-APR-2010:10:12:00								
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(3)	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		(2)						
(4)	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=MOSAIC Number Of Points=3 Point Spacing=2.4 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=85.754 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.119 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=33.606 Angle Between Sides= Center Pattern=false	(1)							
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	NGC-5584-VIS	RA: 14 22 23.9321 (215.5997171d) Dec: -00 23 22.13 (-.38948d) Equinox: J2000		V=12.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F555W	CR-SPLIT=NO		Pattern 4, Exps 1-1 (4)	600 Secs	
									[=>(Pattern 1,1)]	[1]
									[=>(Pattern 2,1)]	
									[=>(Pattern 2,2)]	
									[=>(Pattern 3,1)]	[2]
									[=>(Pattern 3,2)]	
2		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO			Pattern 3, Exps 2-2 (3)	625.0 Secs	
									[=>(Pattern 1)]	[2]
									[=>(Pattern 2)]	

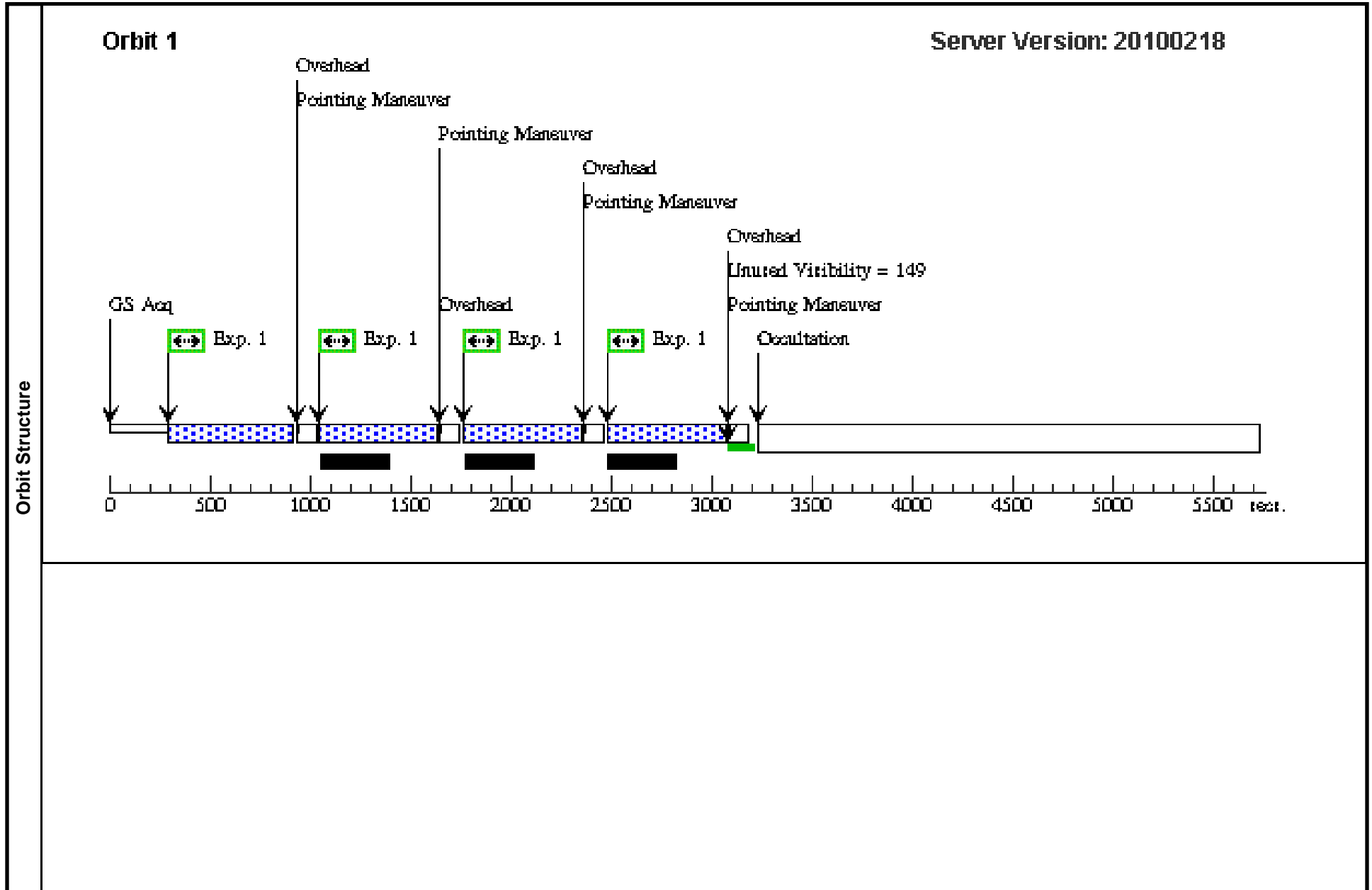


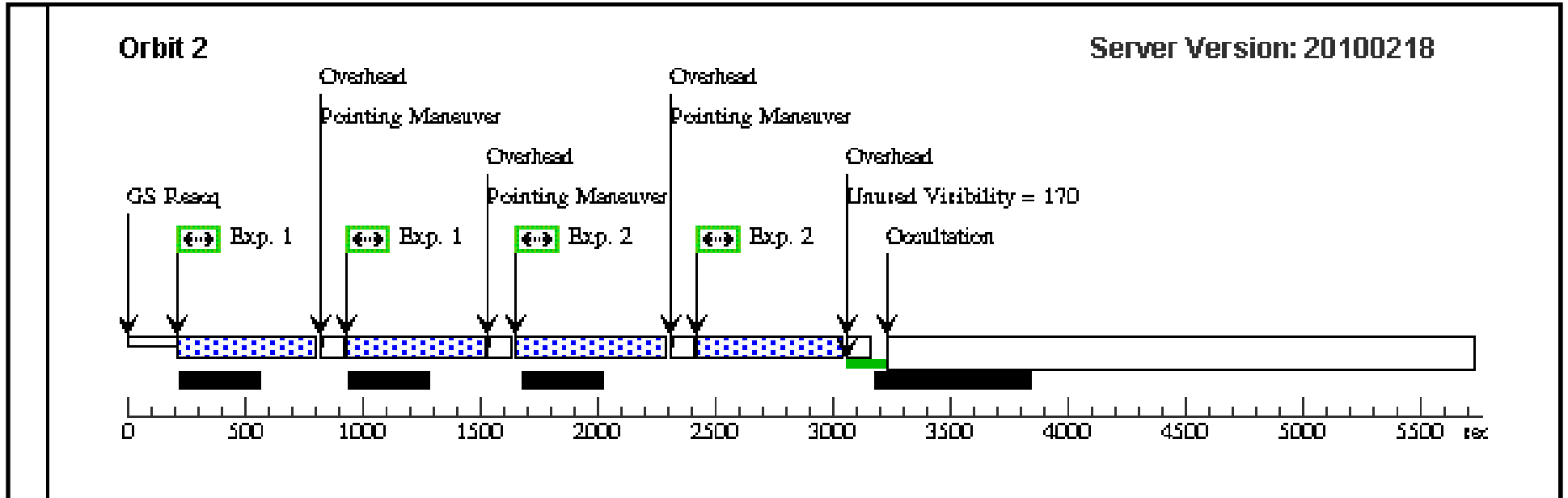


Proposal 11570 - Visit 0D - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:09:07 GMT 2010

Visit		Proposal 11570, Visit 0D, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: ORIENT 245D TO 245 D; BETWEEN 19-APR-2010:10:12:00 AND 21-APR-2010:10:12:00								
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(3)	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		(2)						
(4)	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=MOSAIC Number Of Points=3 Point Spacing=2.4 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=85.754 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-UVIS-MOS-DITH-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.119 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=33.606 Angle Between Sides= Center Pattern=false	(1)							
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	NGC-5584-VIS	RA: 14 22 23.9321 (215.5997171d) Dec: -00 23 22.13 (-.38948d) Equinox: J2000		V=12.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F555W	CR-SPLIT=NO		Pattern 4, Exps 1-1 (4)	590 Secs	
									[=>(Pattern 1,1)]	[1]
									[=>(Pattern 2,1)]	
									[=>(Pattern 2,2)]	
									[=>(Pattern 3,1)]	[2]
									[=>(Pattern 3,2)]	
2		(3) NGC-5584-VIS	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO			Pattern 3, Exps 2-2 (3)	625.0 Secs	
									[=>(Pattern 1)]	[2]
									[=>(Pattern 2)]	

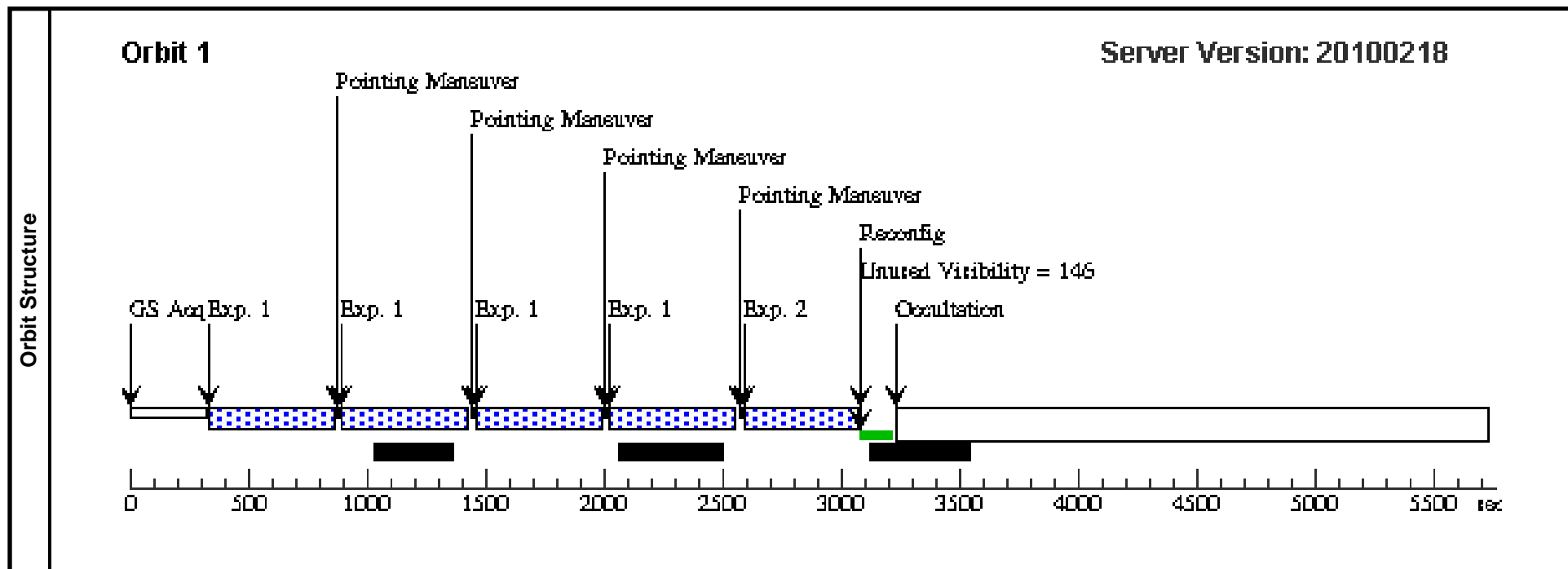




Proposal 11570 - Visit 41 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:09:07 GMT 2010

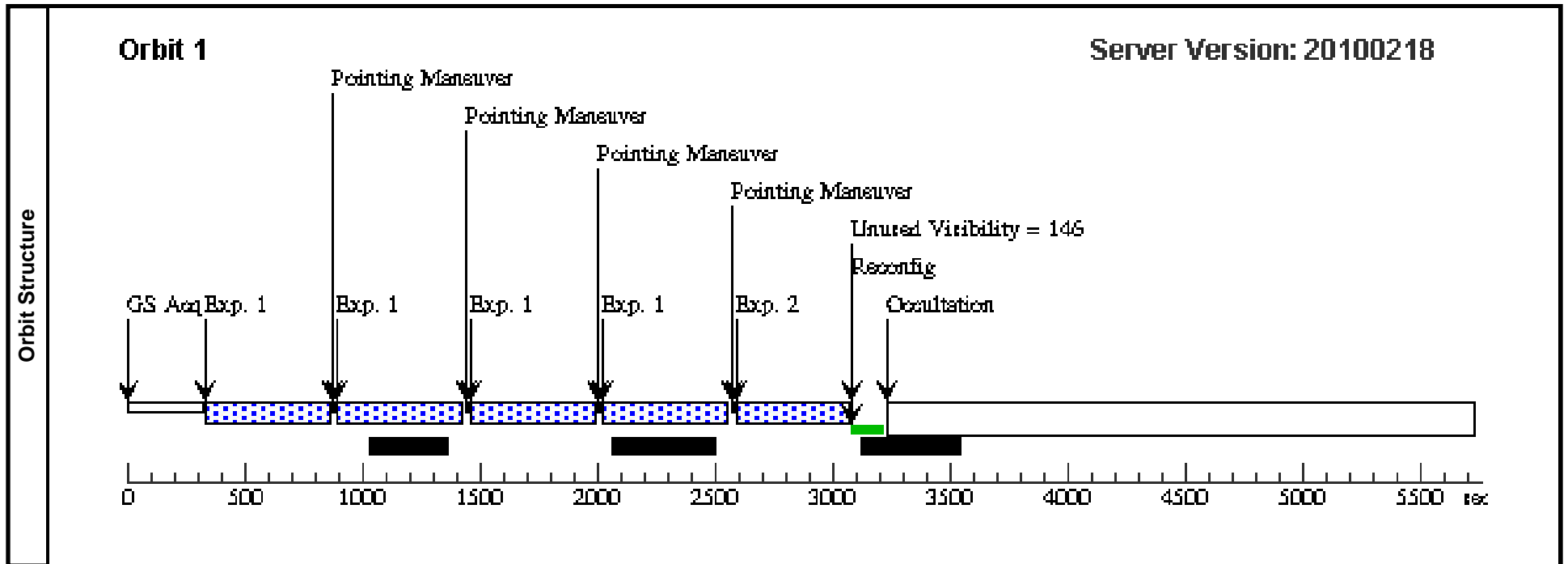
Visit	Proposal 11570, Visit 41, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 235.0D TO 235.0 D									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(27)	NGC-5584-IR	RA: 14 22 24.0110 (215.6000458d) Dec: -00 23 11.44 (-.38651d) Equinox: J2000 <i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>		V=12.0	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(27) NGC-5584-IR	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=11; SAMP-SEQ=SPAR S50			Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
2	(27) NGC-5584-IR	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=10; SAMP-SEQ=SPAR S50		POS TARG 0.676,0.676		[==>]	[1]	



Proposal 11570 - Visit 42 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:09:07 GMT 2010

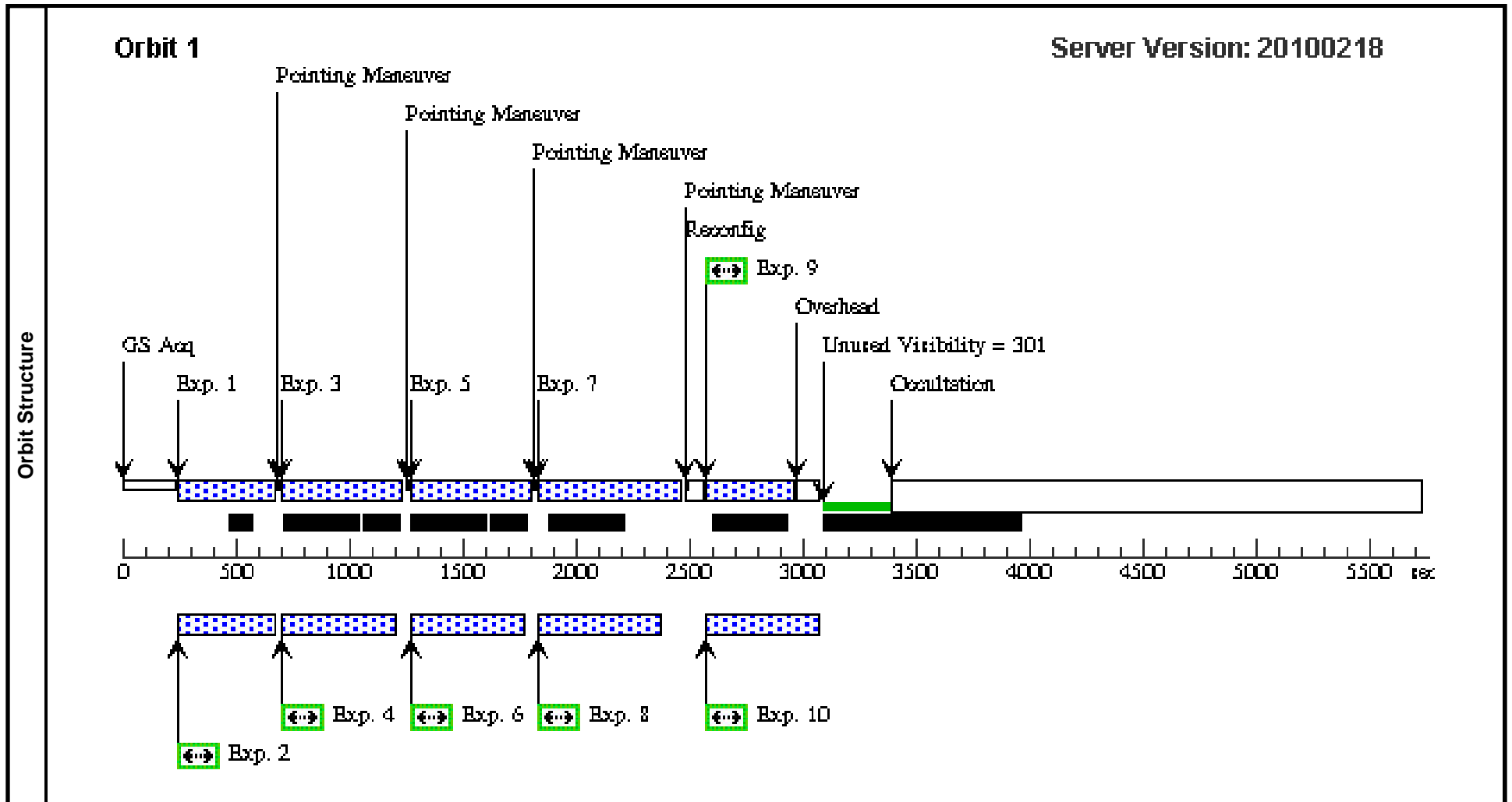
Visit	Proposal 11570, Visit 42, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: ORIENT 235.0D TO 235.0 D; AFTER 41 BY 10 D TO 30 D									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
(1)		Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false					(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(27)	NGC-5584-IR	RA: 14 22 24.0110 (215.6000458d) Dec: -00 23 11.44 (-.38651d) Equinox: J2000		V=12.0	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(27) NGC-5584-IR	WFC3/IR, MULTIACCUM, IR-FIX	F160W		NSAMP=11; SAMP-SEQ=SPAR S50		Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	(27) NGC-5584-IR	WFC3/IR, MULTIACCUM, IR-FIX	F160W		NSAMP=10; SAMP-SEQ=SPAR S50	POS TARG 0.676,0.676		[==>]	[1]



Proposal 11570 - Visit 84 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:09:07 GMT 2010

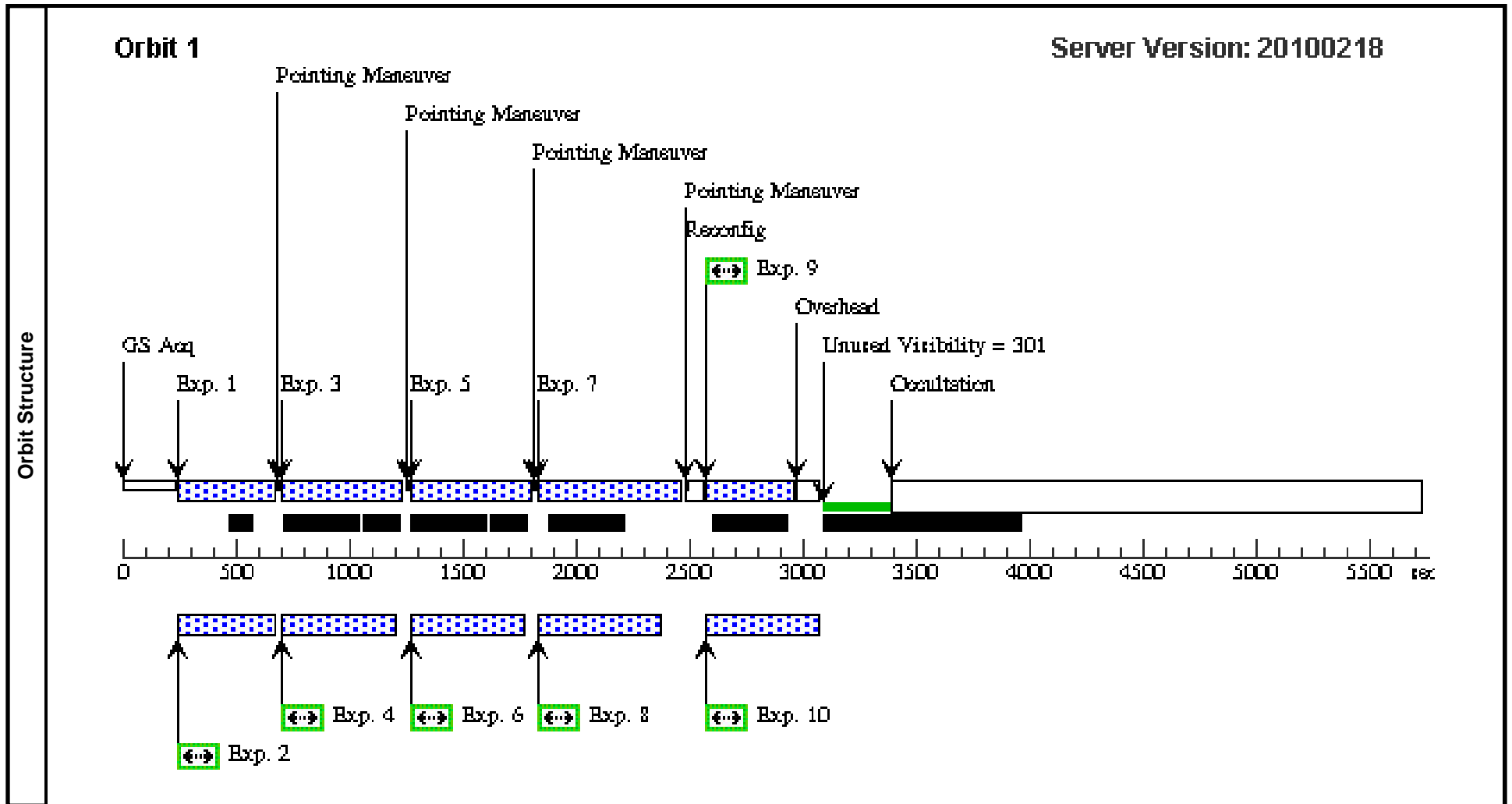
Visit	Proposal 11570, Visit 84, scheduling					Fluxes	Miscellaneous			
	Diagnostic Status: No Diagnostics									
Fixed Targets	Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS					V=11.0	Reference Frame: ICRS			
	Special Requirements: ORIENT 113D TO 113 D									
#	Name	Target Coordinates	Targ. Coord. Corrections							
(28)	MESSIER-106-1-COPY	RA: 12 18 54.4181 (184.7267421d) Dec: +47 14 0.57 (47.23349d) Equinox: J2000								
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(28) MESSIER-106-1-COPY	(28) MESSIER-106-1-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=5; SAMP-SEQ=SPAR S100	GS ACQ SCENARI O SINGLE	Prime + Parallel Group 1-2	[==>]	[1]
	2	(28) MESSIER-106-1-COPY	(28) MESSIER-106-1-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Group 1-2	225 Secs [==>]	[1]
	3	(28) MESSIER-106-1-COPY	(28) MESSIER-106-1-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.542,0 182	Prime + Parallel Group 3-4	[==>]	[1]
	4	(28) MESSIER-106-1-COPY	(28) MESSIER-106-1-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Group 3-4	375 Secs [==>]	[1]
	5	(28) MESSIER-106-1-COPY	(28) MESSIER-106-1-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.339,0 485	Prime + Parallel Group 5-6	[==>]	[1]
	6	(28) MESSIER-106-1-COPY	(28) MESSIER-106-1-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Group 5-6	375 Secs [==>]	[1]
	7	(28) MESSIER-106-1-COPY	(28) MESSIER-106-1-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG -0.203,0 .303	Prime + Parallel Group 7-8	[==>]	[1]
	8	(28) MESSIER-106-1-COPY	(28) MESSIER-106-1-COPY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 7-8	375 Secs [==>]	[1]
	9	(28) MESSIER-106-1-COPY	(28) MESSIER-106-1-COPY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Prime + Parallel Group 9-10	360 Secs [==>]	[1]
10	(28) MESSIER-106-1-COPY	(28) MESSIER-106-1-COPY	ACS/WFC, ACCUM, WFC	F435W			Prime + Parallel Group 9-10	360 Secs [==>]	[1]	



Proposal 11570 - Visit 85 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:09:07 GMT 2010

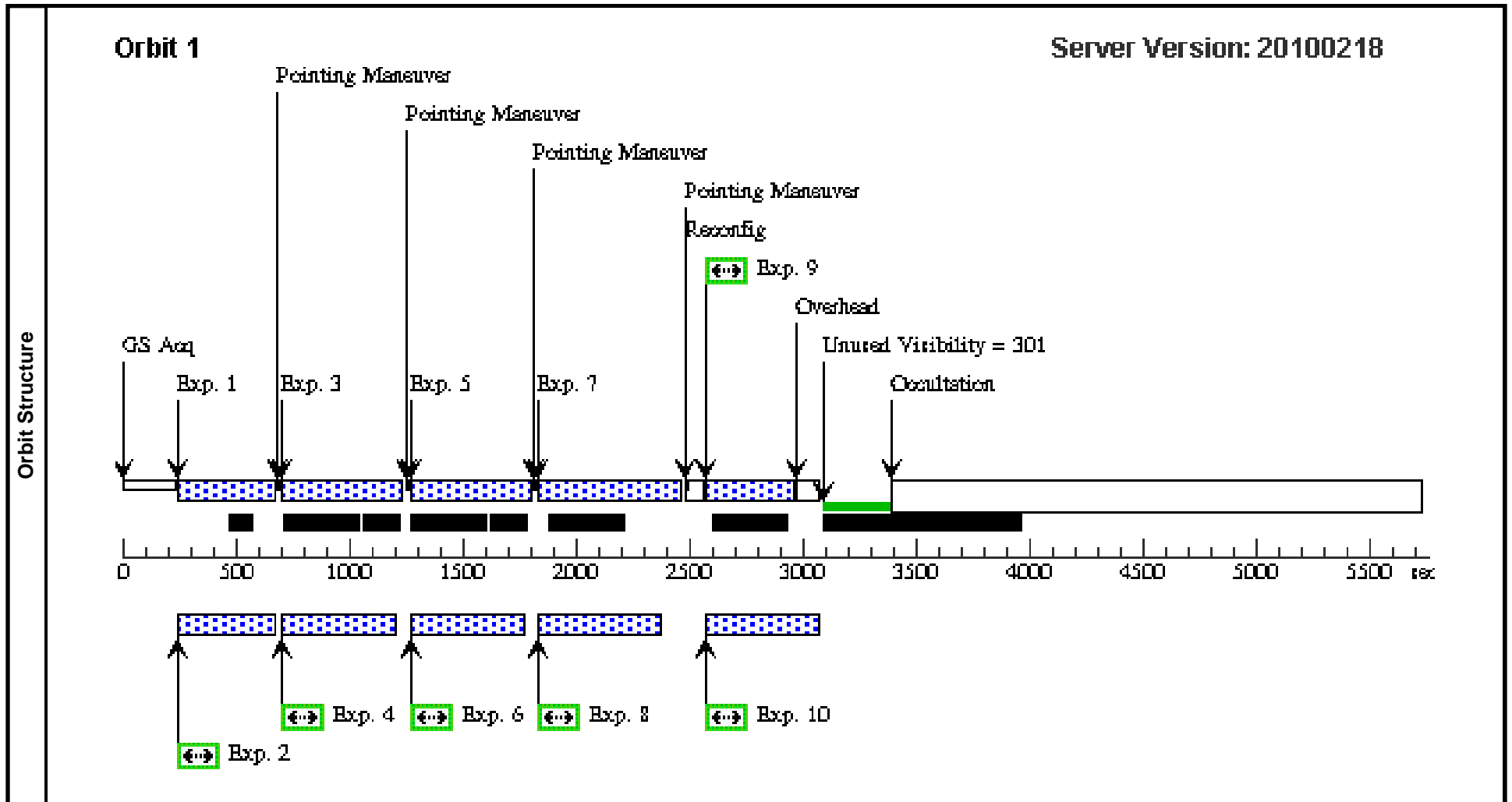
Visit		Proposal 11570, Visit 85, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 113D TO 113 D									
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		(29)	MESSIER-106-2-COPY	RA: 12 18 49.7736 (184.7073900d) Dec: +47 15 51.94 (47.26443d) Equinox: J2000			V=11.0	Reference Frame: ICRS			
		<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
		1	(29) MESSIER-106-2-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=5; SAMP-SEQ=SPAR S100	GS ACQ SCENARI O SINGLE	Prime + Parallel Gro up 1-2	[==>]	[1]	
		2	(29) MESSIER-106-2-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 1-2	225 Secs [==>]	[1]	
		3	(29) MESSIER-106-2-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.542,0 182	Prime + Parallel Gro up 3-4	[==>]	[1]	
		4	(29) MESSIER-106-2-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 3-4	375 Secs [==>]	[1]	
		5	(29) MESSIER-106-2-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.339,0 485	Prime + Parallel Gro up 5-6	[==>]	[1]	
		6	(29) MESSIER-106-2-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 5-6	375 Secs [==>]	[1]	
		7	(29) MESSIER-106-2-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG -0.203,0 .303	Prime + Parallel Gro up 7-8	[==>]	[1]	
		8	(29) MESSIER-106-2-COPY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 7-8	375 Secs [==>]	[1]	
		9	(29) MESSIER-106-2-COPY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Prime + Parallel Gro up 9-10	360 Secs [==>]	[1]	
		10	(29) MESSIER-106-2-COPY	ACS/WFC, ACCUM, WFC	F435W			Prime + Parallel Gro up 9-10	360 Secs [==>]	[1]	



Proposal 11570 - Visit 86 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:09:08 GMT 2010

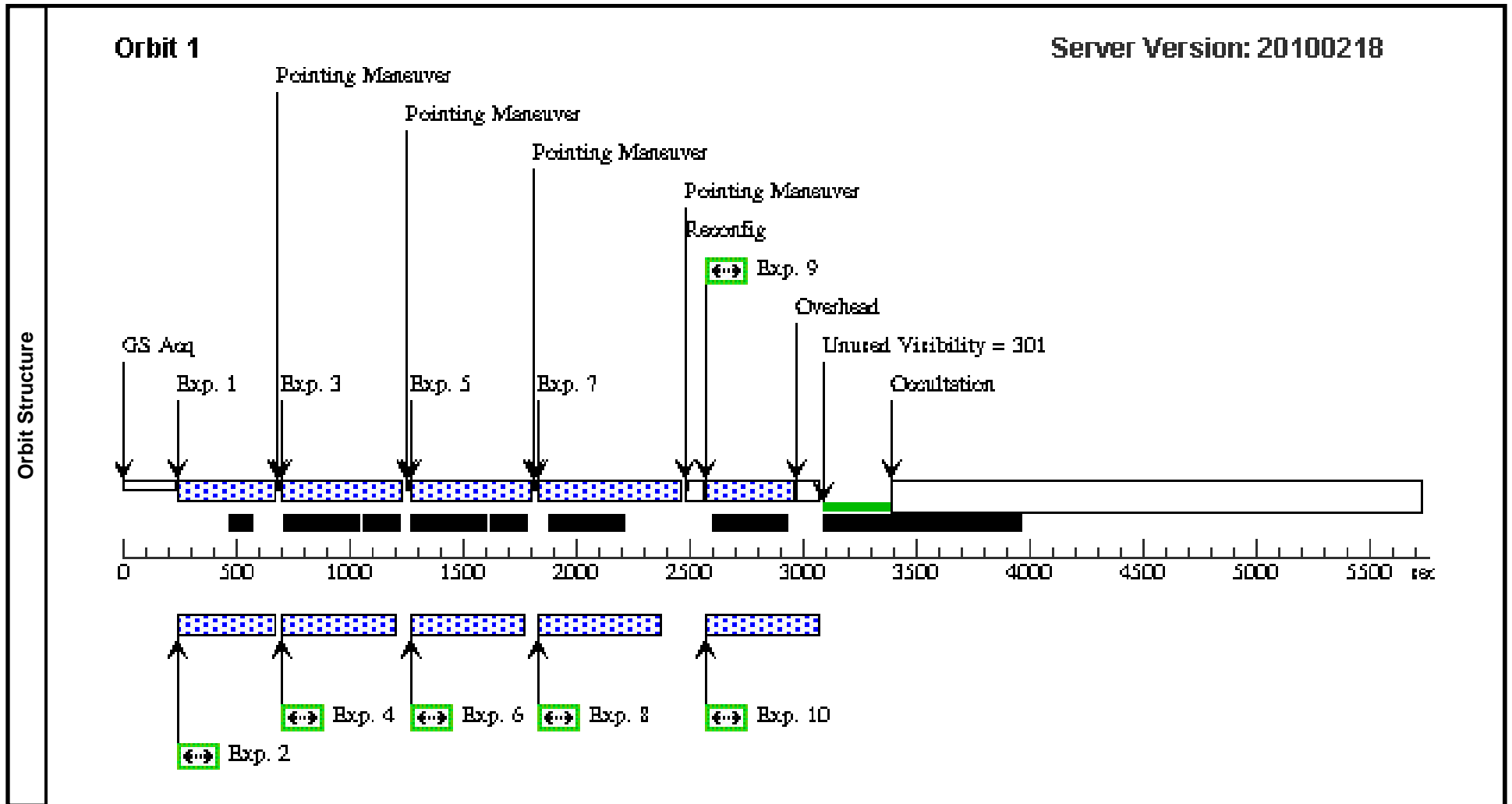
Visit		Proposal 11570, Visit 86, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 113D TO 113 D									
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		(30)	MESSIER-106-3-COPY	RA: 12 19 6.6991 (184.7779129d) Dec: +47 14 49.48 (47.24708d) Equinox: J2000			V=11.0	Reference Frame: ICRS			
		<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
		1	(30) MESSIER-106-3-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=5; SAMP-SEQ=SPAR S100	GS ACQ SCENARI O SINGLE	Prime + Parallel Gro up 1-2	[==>]	[1]	
		2	(30) MESSIER-106-3-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 1-2	225 Secs [==>]	[1]	
		3	(30) MESSIER-106-3-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.542,0 182	Prime + Parallel Gro up 3-4	[==>]	[1]	
		4	(30) MESSIER-106-3-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 3-4	375 Secs [==>]	[1]	
		5	(30) MESSIER-106-3-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.339,0 485	Prime + Parallel Gro up 5-6	[==>]	[1]	
		6	(30) MESSIER-106-3-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 5-6	375 Secs [==>]	[1]	
		7	(30) MESSIER-106-3-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG -0.203,0 .303	Prime + Parallel Gro up 7-8	[==>]	[1]	
		8	(30) MESSIER-106-3-COPY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 7-8	375 Secs [==>]	[1]	
		9	(30) MESSIER-106-3-COPY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Prime + Parallel Gro up 9-10	360 Secs [==>]	[1]	
		10	(30) MESSIER-106-3-COPY	ACS/WFC, ACCUM, WFC	F435W			Prime + Parallel Gro up 9-10	360 Secs [==>]	[1]	



Proposal 11570 - Visit 87 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:09:08 GMT 2010

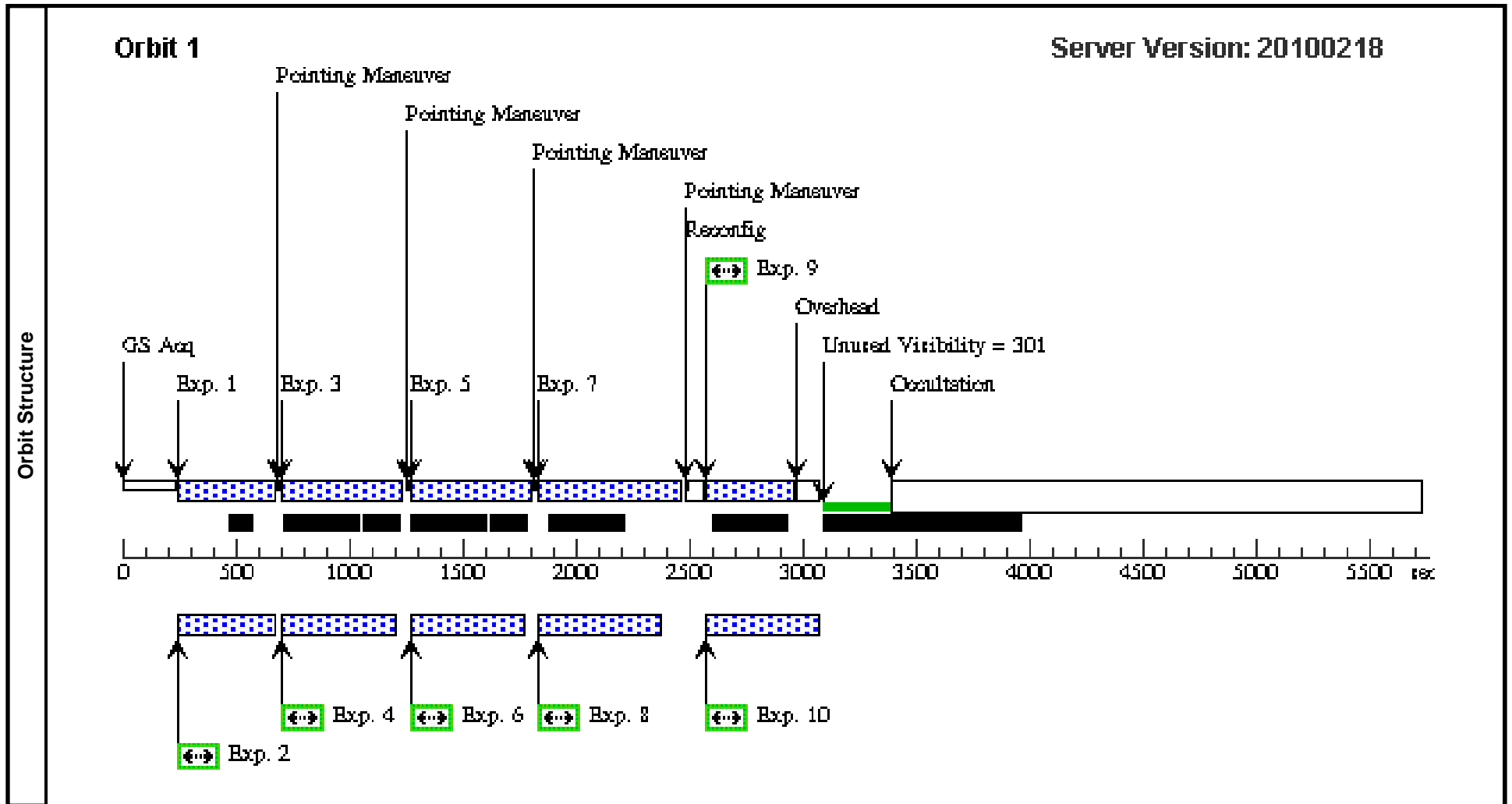
Visit	Proposal 11570, Visit 87, scheduling					Fluxes	Miscellaneous			
	Diagnostic Status: No Diagnostics									
Fixed Targets	Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS					V=11.0	Reference Frame: ICRS			
	Special Requirements: ORIENT 113D TO 113 D									
#	Name	Target Coordinates	Targ. Coord. Corrections							
(31)	MESSIER-106-4-COPY	RA: 12 19 7.3720 (184.7807167d) Dec: +47 12 42.92 (47.21192d) Equinox: J2000								
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(31) MESSIER-106-4-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=5; SAMP-SEQ=SPAR S100	GS ACQ SCENARI O SINGLE	Prime + Parallel Gro up 1-2	[==>]	[1]	
	2	(31) MESSIER-106-4-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 1-2	225 Secs [==>]	[1]	
	3	(31) MESSIER-106-4-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.542,0 182	Prime + Parallel Gro up 3-4	[==>]	[1]	
	4	(31) MESSIER-106-4-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 3-4	375 Secs [==>]	[1]	
	5	(31) MESSIER-106-4-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.339,0 485	Prime + Parallel Gro up 5-6	[==>]	[1]	
	6	(31) MESSIER-106-4-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 5-6	375 Secs [==>]	[1]	
	7	(31) MESSIER-106-4-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG -0.203,0 .303	Prime + Parallel Gro up 7-8	[==>]	[1]	
	8	(31) MESSIER-106-4-COPY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 7-8	375 Secs [==>]	[1]	
	9	(31) MESSIER-106-4-COPY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Prime + Parallel Gro up 9-10	360 Secs [==>]	[1]	
10	(31) MESSIER-106-4-COPY	ACS/WFC, ACCUM, WFC	F435W			Prime + Parallel Gro up 9-10	360 Secs [==>]	[1]		



Proposal 11570 - Visit 88 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:09:08 GMT 2010

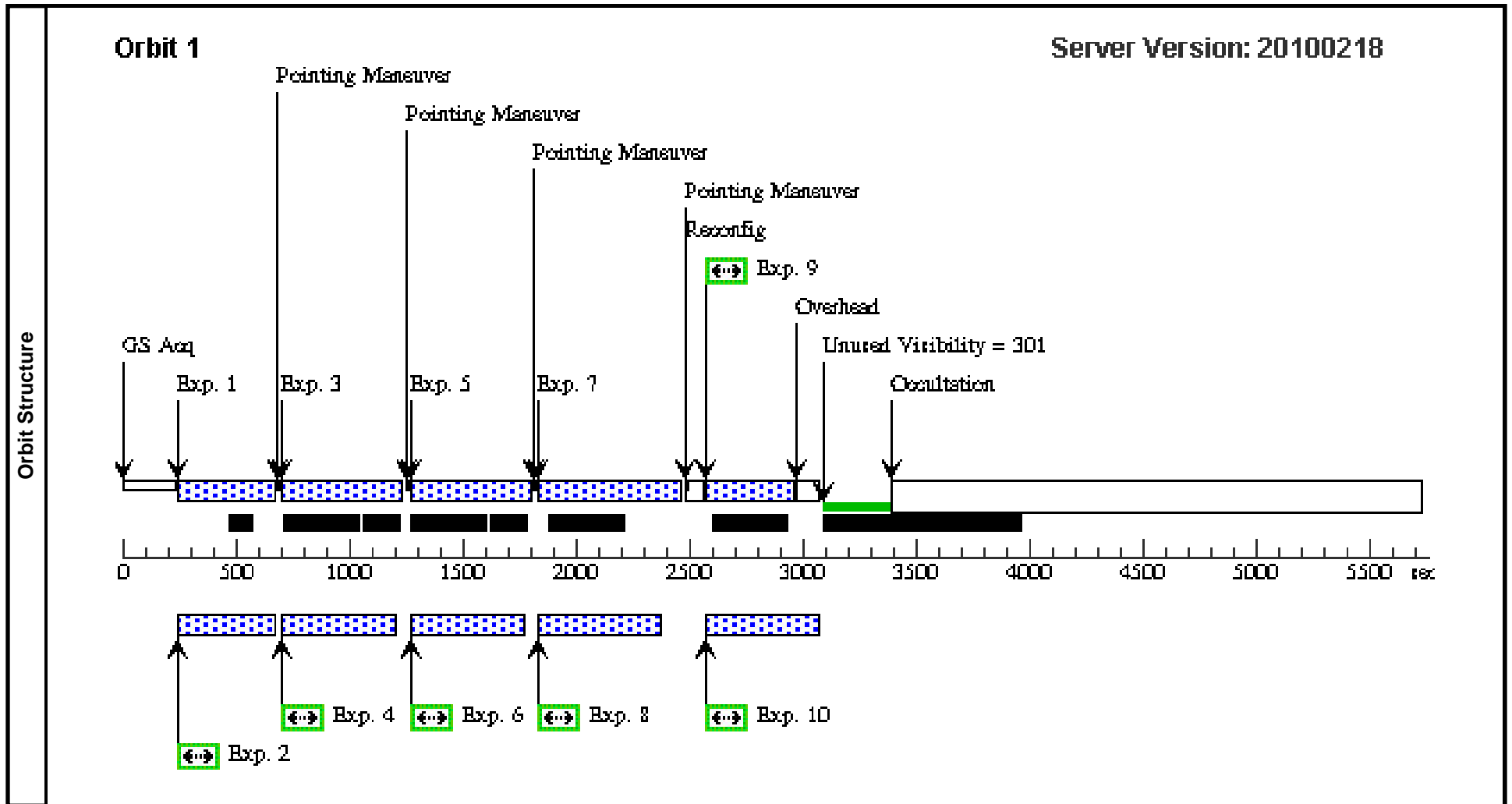
Visit	Proposal 11570, Visit 88, scheduling					Fluxes	Miscellaneous			
	Diagnostic Status: No Diagnostics									
Fixed Targets	Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS					V=11.0	Reference Frame: ICRS			
	Special Requirements: ORIENT 113D TO 113 D									
#	Name	Target Coordinates	Targ. Coord. Corrections							
(32)	MESSIER-106-5-COPY	RA: 12 19 20.1835 (184.8340979d) Dec: +47 13 30.74 (47.22521d) Equinox: J2000								
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(32) MESSIER-106-5-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=5; SAMP-SEQ=SPAR S100	GS ACQ SCENARI O SINGLE	Prime + Parallel Gro up 1-2	[==>]	[1]	
	2	(32) MESSIER-106-5-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 1-2	225 Secs [==>]	[1]	
	3	(32) MESSIER-106-5-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.542,0 182	Prime + Parallel Gro up 3-4	[==>]	[1]	
	4	(32) MESSIER-106-5-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 3-4	375 Secs [==>]	[1]	
	5	(32) MESSIER-106-5-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.339,0 485	Prime + Parallel Gro up 5-6	[==>]	[1]	
	6	(32) MESSIER-106-5-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 5-6	375 Secs [==>]	[1]	
	7	(32) MESSIER-106-5-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG -0.203,0 .303	Prime + Parallel Gro up 7-8	[==>]	[1]	
	8	(32) MESSIER-106-5-COPY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 7-8	375 Secs [==>]	[1]	
	9	(32) MESSIER-106-5-COPY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Prime + Parallel Gro up 9-10	360 Secs [==>]	[1]	
10	(32) MESSIER-106-5-COPY	ACS/WFC, ACCUM, WFC	F435W			Prime + Parallel Gro up 9-10	360 Secs [==>]	[1]		



Proposal 11570 - Visit 89 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:09:08 GMT 2010

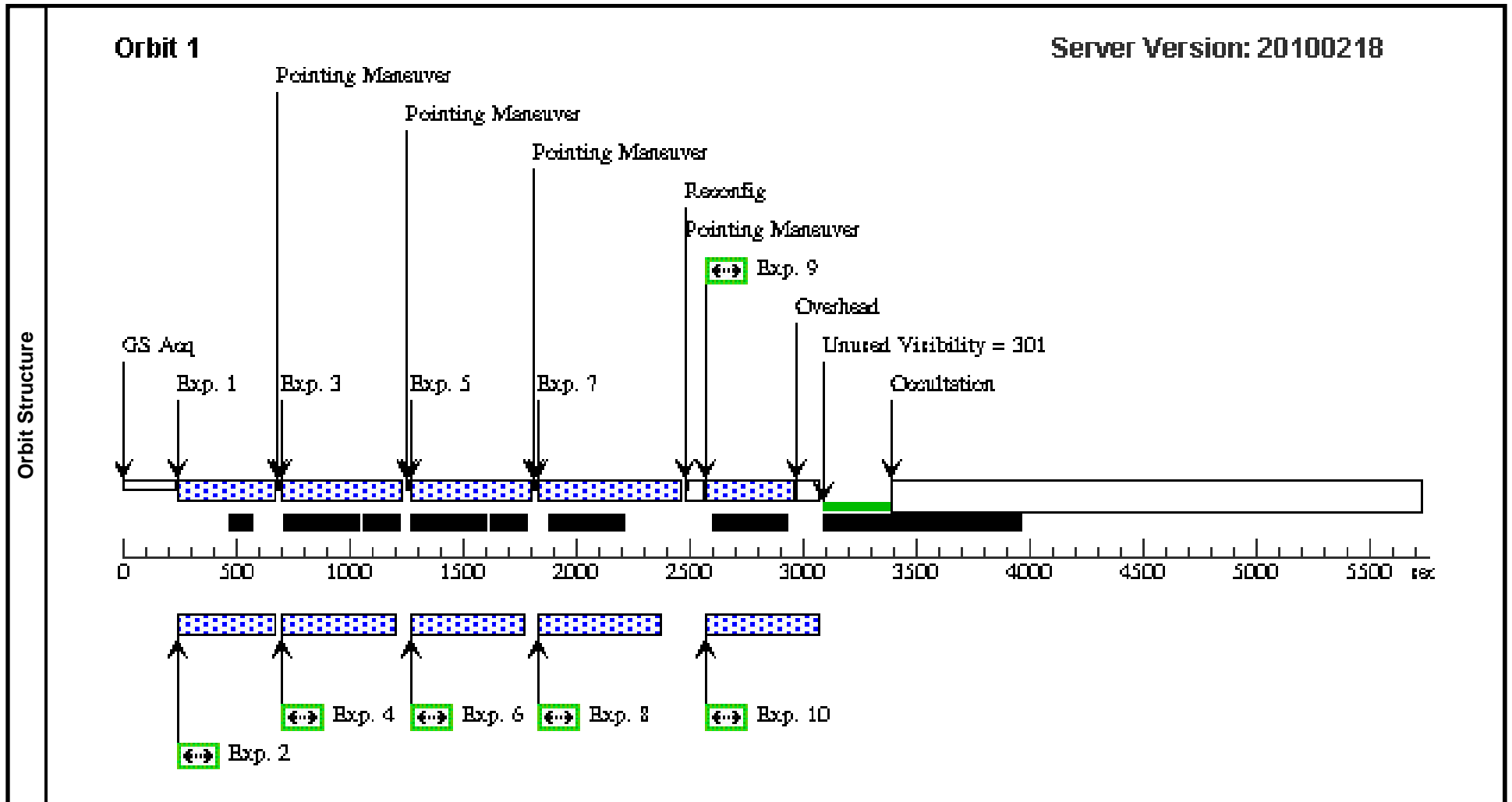
Visit	Proposal 11570, Visit 89, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 293D TO 293 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(33)	MESSIER-106-6-COPY	RA: 12 18 39.2533 (184.6635554d) Dec: +47 21 37.59 (47.36044d) Equinox: J2000			V=11.0	Reference Frame: ICRS			
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> <i>Original RA and dec was 12 19 23.7635 +47 13 13.85</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(33) MESSIER-106-6-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=5; SAMP-SEQ=SPAR S100	GS ACQ SCENARI O SINGLE	Prime + Parallel Group 1-2	[==>]	[1]	
	2	(33) MESSIER-106-6-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Group 1-2	225 Secs [==>]	[1]	
	3	(33) MESSIER-106-6-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.56,0.0	Prime + Parallel Group 3-4	[==>]	[1]	
	4	(33) MESSIER-106-6-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Group 3-4	375 Secs [==>]	[1]	
	5	(33) MESSIER-106-6-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.56,0.3 6	Prime + Parallel Group 5-6	[==>]	[1]	
	6	(33) MESSIER-106-6-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Group 5-6	375 Secs [==>]	[1]	
	7	(33) MESSIER-106-6-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0.0,0.36	Prime + Parallel Group 7-8	[==>]	[1]	
	8	(33) MESSIER-106-6-COPY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 7-8	375 Secs [==>]	[1]	
	9	(33) MESSIER-106-6-COPY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Prime + Parallel Group 9-10	360 Secs [==>]	[1]	
10	(33) MESSIER-106-6-COPY	ACS/WFC, ACCUM, WFC	F435W			Prime + Parallel Group 9-10	360 Secs [==>]	[1]		



Proposal 11570 - Visit 90 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:09:09 GMT 2010

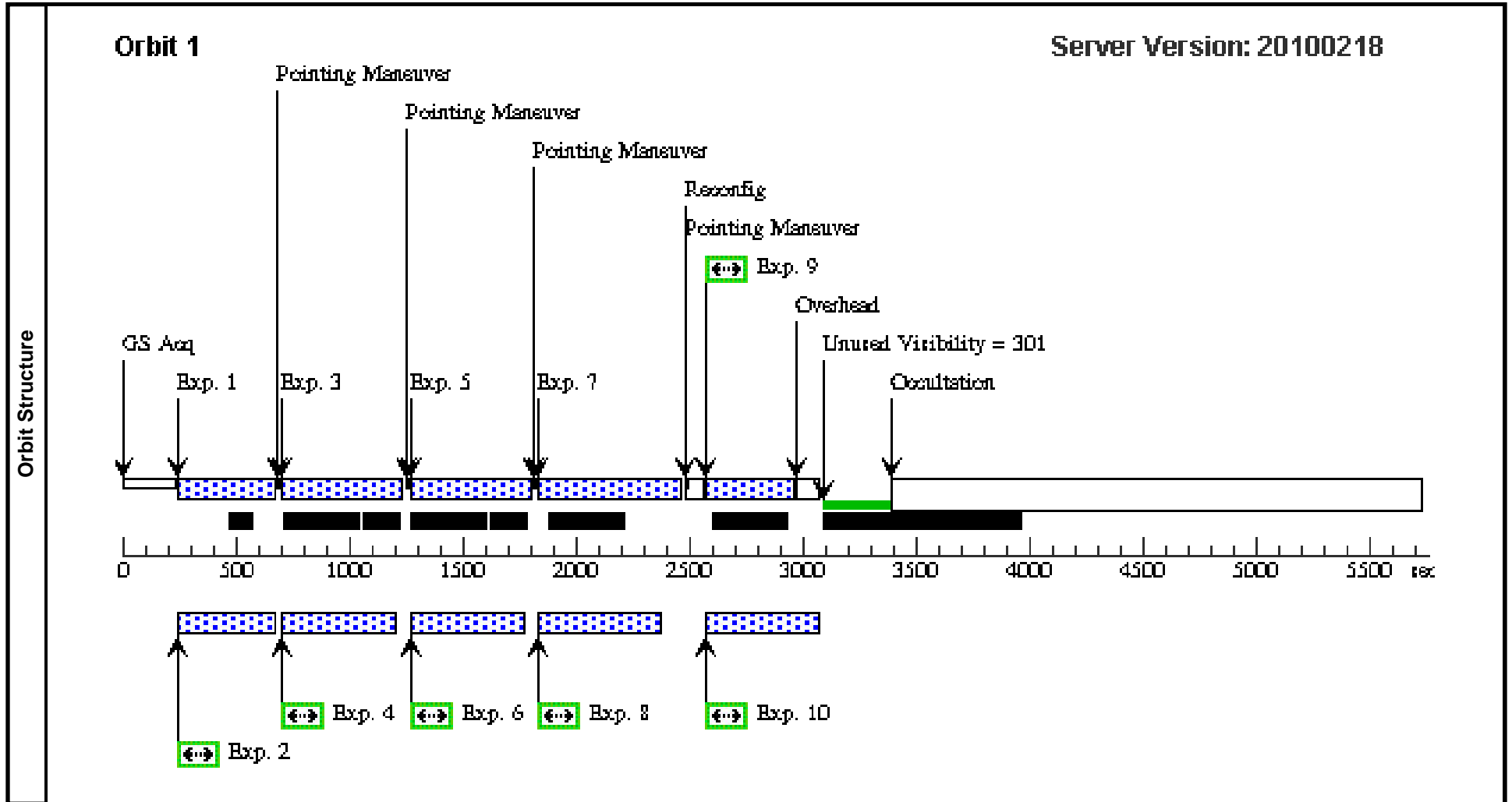
Visit		Proposal 11570, Visit 90, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 119D TO 119 D									
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		(34)	MESSIER-106-7-COPY	RA: 12 19 1.6341 (184.7568088d) Dec: +47 16 37.79 (47.27716d) Equinox: J2000			V=11.0	Reference Frame: ICRS			
		<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
		1	(34) MESSIER-106-7-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=5; SAMP-SEQ=SPAR S100	GS ACQ SCENARI O SINGLE	Prime + Parallel Gro up 1-2	[==>]	[1]	
		2	(34) MESSIER-106-7-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 1-2	225 Secs [==>]	[1]	
		3	(34) MESSIER-106-7-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.542,0 182	Prime + Parallel Gro up 3-4	[==>]	[1]	
		4	(34) MESSIER-106-7-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 3-4	375 Secs [==>]	[1]	
		5	(34) MESSIER-106-7-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.339,0 485	Prime + Parallel Gro up 5-6	[==>]	[1]	
		6	(34) MESSIER-106-7-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 5-6	375 Secs [==>]	[1]	
		7	(34) MESSIER-106-7-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG -0.203,0 .303	Prime + Parallel Gro up 7-8	[==>]	[1]	
		8	(34) MESSIER-106-7-COPY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 7-8	375 Secs [==>]	[1]	
		9	(34) MESSIER-106-7-COPY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Prime + Parallel Gro up 9-10	360 Secs [==>]	[1]	
		10	(34) MESSIER-106-7-COPY	ACS/WFC, ACCUM, WFC	F435W			Prime + Parallel Gro up 9-10	360 Secs [==>]	[1]	



Proposal 11570 - Visit 91 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:09:09 GMT 2010

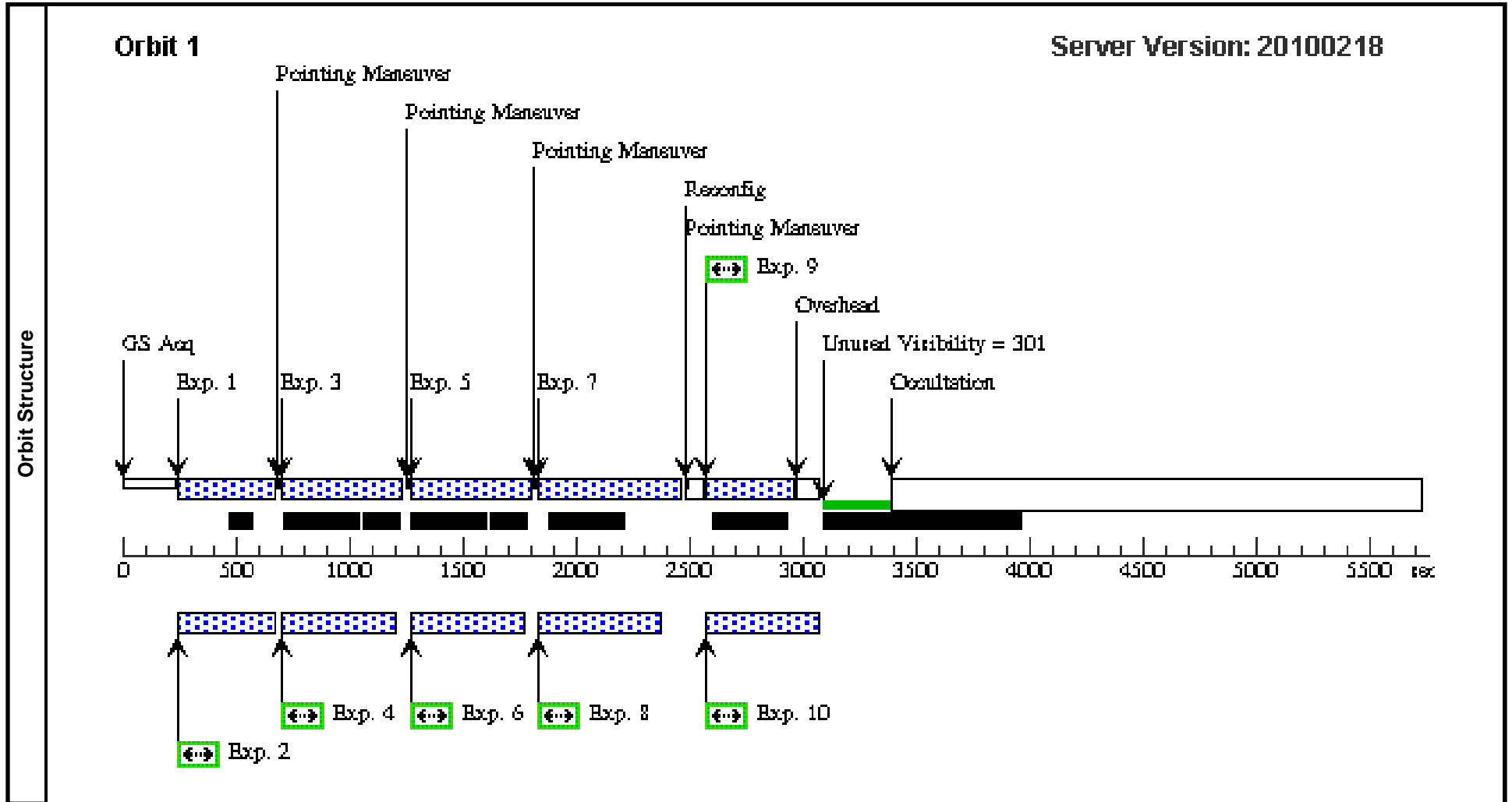
Visit	Proposal 11570, Visit 91, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 113D TO 113 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(35)	MESSIER-106-8-COPY	RA: 12 19 13.8879 (184.8078662d) Dec: +47 17 29.65 (47.29157d) Equinox: J2000			V=11.0	Reference Frame: ICRS	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(35) MESSIER-106-8-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=5; SAMP-SEQ=SPAR S100	GS ACQ SCENARI O SINGLE	Prime + Parallel Group 1-2	[==>]	[1]	
	2	(35) MESSIER-106-8-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Group 1-2	225 Secs [==>]	[1]	
	3	(35) MESSIER-106-8-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.542,0 182	Prime + Parallel Group 3-4	[==>]	[1]	
	4	(35) MESSIER-106-8-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Group 3-4	375 Secs [==>]	[1]	
	5	(35) MESSIER-106-8-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.339,0 485	Prime + Parallel Group 5-6	[==>]	[1]	
	6	(35) MESSIER-106-8-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Group 5-6	375 Secs [==>]	[1]	
	7	(35) MESSIER-106-8-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG -0.203,0 .303	Prime + Parallel Group 7-8	[==>]	[1]	
	8	(35) MESSIER-106-8-COPY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 7-8	375 Secs [==>]	[1]	
	9	(35) MESSIER-106-8-COPY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Prime + Parallel Group 9-10	360 Secs [==>]	[1]	
10	(35) MESSIER-106-8-COPY	ACS/WFC, ACCUM, WFC	F435W			Prime + Parallel Group 9-10	360 Secs [==>]	[1]		



Proposal 11570 - Visit 92 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:09:09 GMT 2010

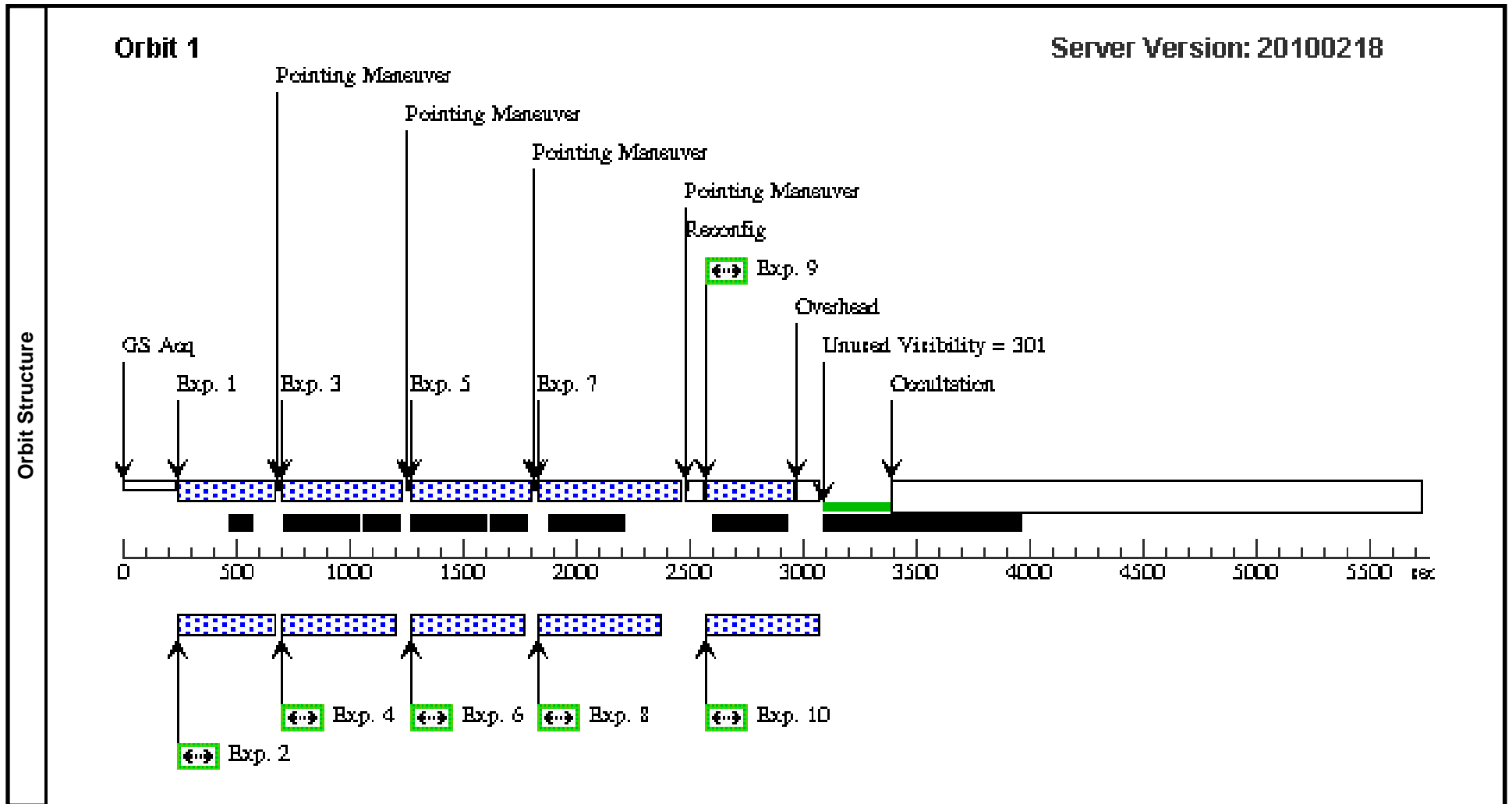
Visit		Proposal 11570, Visit 92, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 294D TO 294 D								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(33)	MESSIER-106-6-COPY	RA: 12 18 39.2533 (184.6635554d) Dec: +47 21 37.59 (47.36044d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i> Original RA and dec was 12 19 23.7635 +47 13 13.85										
(36)	MESSIER-106-9-COPY	RA: 12 18 45.0009 (184.6875038d) Dec: +47 17 40.45 (47.29457d) Equinox: J2000		V=11.0	Reference Frame: ICRS					
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(36) MESSIER-106-9-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=5; SAMP-SEQ=SPAR S100	GS ACQ SCENARI O SINGLE	Prime + Parallel Gro up 1-2	[==>]	[1]	
	2	(33) MESSIER-106-6-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 1-2	225 Secs [==>]	[1]	
	3	(36) MESSIER-106-9-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.56,0.0	Prime + Parallel Gro up 3-4	[==>]	[1]	
	4	(36) MESSIER-106-9-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 3-4	375 Secs [==>]	[1]	
	5	(36) MESSIER-106-9-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.56,0.3 6	Prime + Parallel Gro up 5-6	[==>]	[1]	
	6	(36) MESSIER-106-9-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 5-6	375 Secs [==>]	[1]	
	7	(36) MESSIER-106-9-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0.0,0.36	Prime + Parallel Gro up 7-8	[==>]	[1]	
	8	(36) MESSIER-106-9-COPY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 7-8	375 Secs [==>]	[1]	
	9	(36) MESSIER-106-9-COPY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Prime + Parallel Gro up 9-10	360 Secs [==>]	[1]	
10	(36) MESSIER-106-9-COPY	ACS/WFC, ACCUM, WFC	F435W			Prime + Parallel Gro up 9-10	360 Secs [==>]	[1]		



Proposal 11570 - Visit 93 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:09:09 GMT 2010

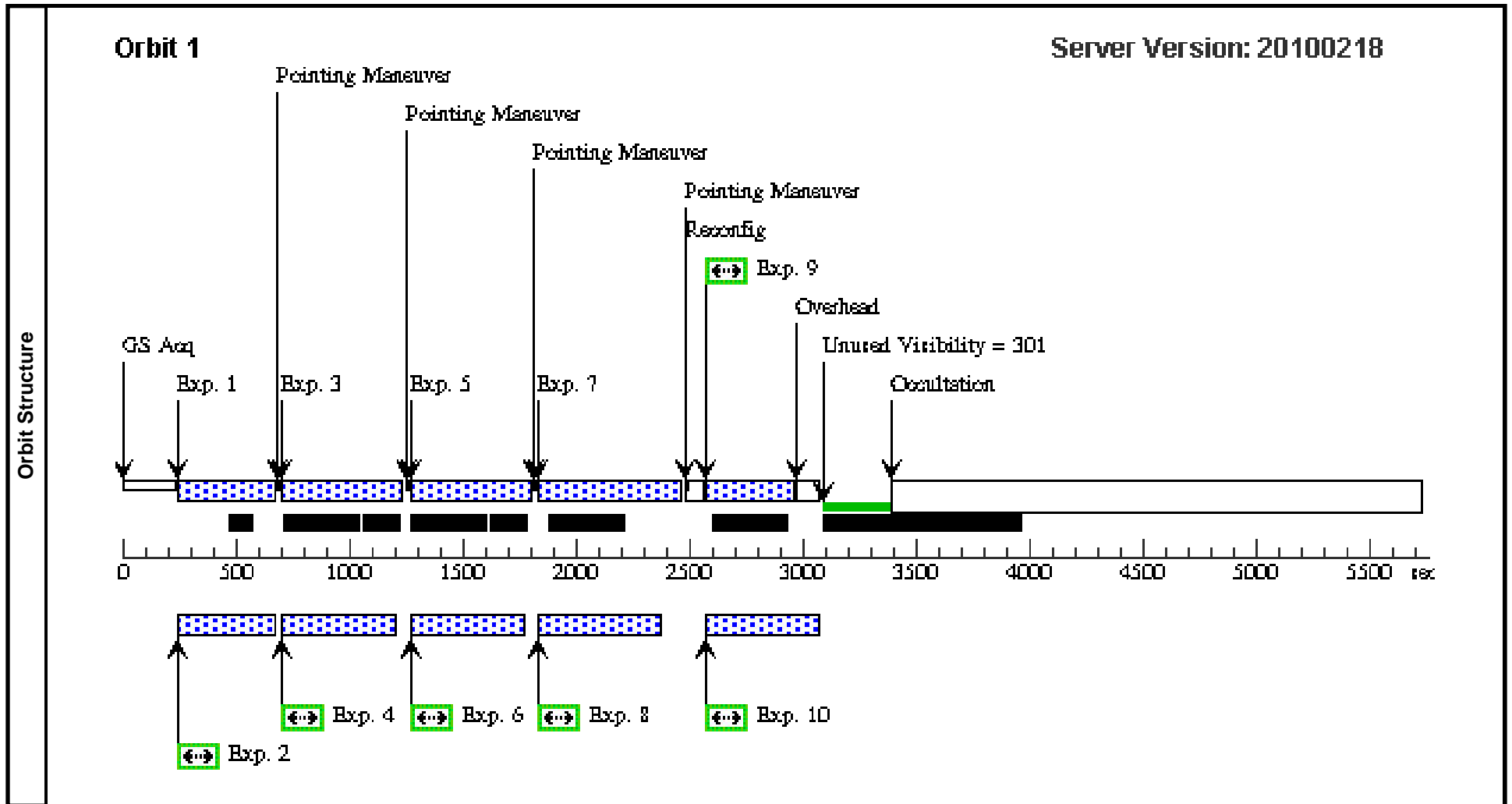
Visit	Proposal 11570, Visit 93, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 293D TO 293 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(37)	MESSIER-106-10-COPY	RA: 12 18 57.3435 (184.7389312d) Dec: +47 18 30.99 (47.30861d) Equinox: J2000			V=11.0	Reference Frame: ICRS	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(37) MESSIER-106-10-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=5; SAMP-SEQ=SPAR S100	GS ACQ SCENARI O SINGLE	Prime + Parallel Group 1-2	[==>]	[1]	
	2	(37) MESSIER-106-10-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Group 1-2	225 Secs [==>]	[1]	
	3	(37) MESSIER-106-10-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.56,0.0	Prime + Parallel Group 3-4	[==>]	[1]	
	4	(37) MESSIER-106-10-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Group 3-4	375 Secs [==>]	[1]	
	5	(37) MESSIER-106-10-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.56,0.36	Prime + Parallel Group 5-6	[==>]	[1]	
	6	(37) MESSIER-106-10-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Group 5-6	375 Secs [==>]	[1]	
	7	(37) MESSIER-106-10-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0.0,0.36	Prime + Parallel Group 7-8	[==>]	[1]	
	8	(37) MESSIER-106-10-COPY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 7-8	375 Secs [==>]	[1]	
	9	(37) MESSIER-106-10-COPY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Prime + Parallel Group 9-10	360 Secs [==>]	[1]	
10	(37) MESSIER-106-10-COPY	ACS/WFC, ACCUM, WFC	F435W			Prime + Parallel Group 9-10	360 Secs [==>]	[1]		



Proposal 11570 - Visit 94 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:09:10 GMT 2010

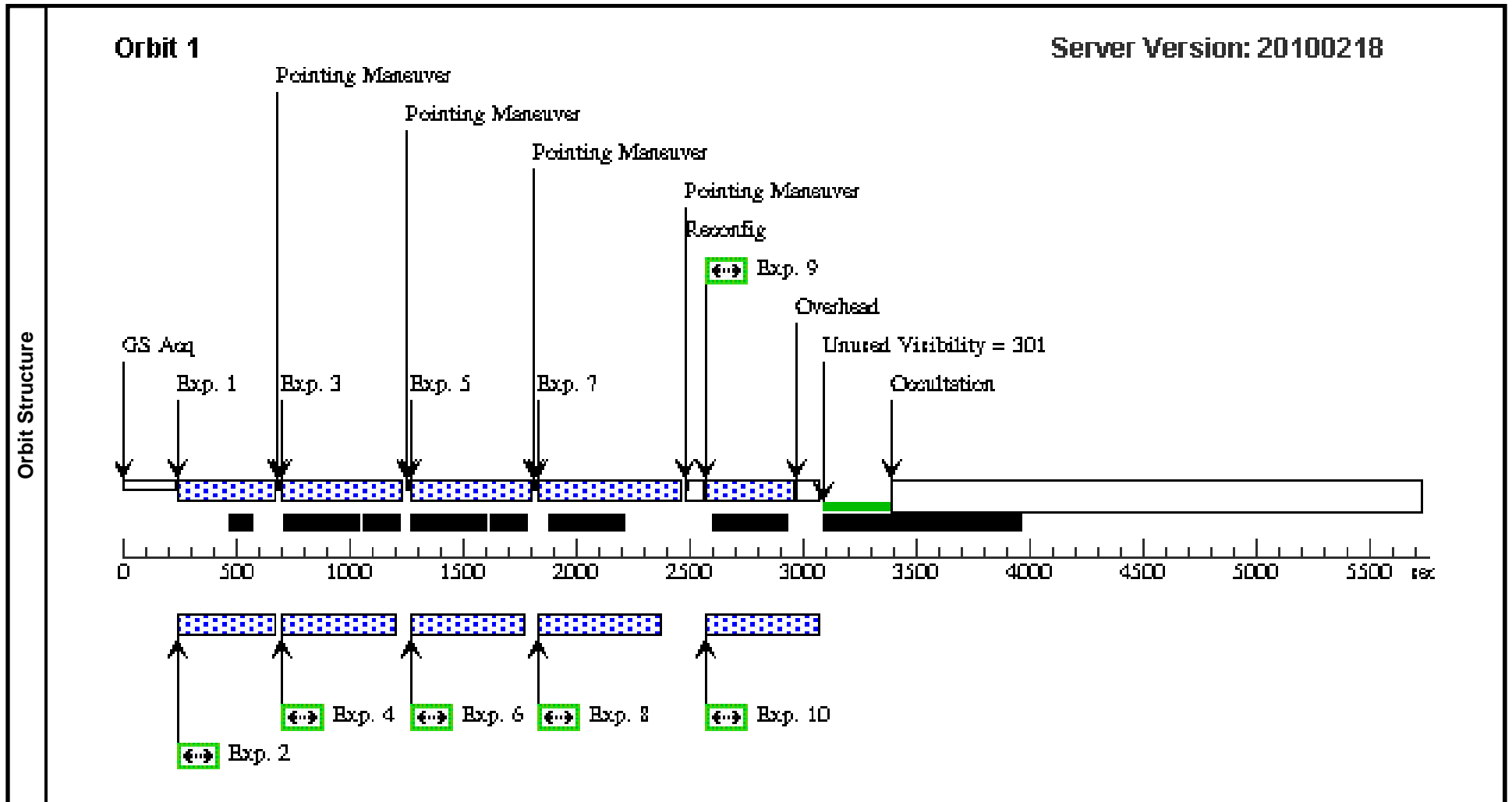
Visit		Proposal 11570, Visit 94, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 293D TO 293 D									
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
Exposures		#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
		(38)	MESSIER-106-11-COPY	RA: 12 19 9.9455 (184.7914396d) Dec: +47 19 22.10 (47.32281d) Equinox: J2000			V=11.0	Reference Frame: ICRS			
		<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
		1	(38) MESSIER-106-11-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=5; SAMP-SEQ=SPAR S100	GS ACQ SCENARI O SINGLE	Prime + Parallel Gro up 1-2	[==>]	[1]	
		2	(38) MESSIER-106-11-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 1-2	225 Secs [==>]	[1]	
		3	(38) MESSIER-106-11-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.56,0.0	Prime + Parallel Gro up 3-4	[==>]	[1]	
		4	(38) MESSIER-106-11-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 3-4	375 Secs [==>]	[1]	
		5	(38) MESSIER-106-11-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.56,0.3 6	Prime + Parallel Gro up 5-6	[==>]	[1]	
		6	(38) MESSIER-106-11-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 5-6	375 Secs [==>]	[1]	
		7	(38) MESSIER-106-11-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0.0,0.36	Prime + Parallel Gro up 7-8	[==>]	[1]	
		8	(38) MESSIER-106-11-COPY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 7-8	375 Secs [==>]	[1]	
		9	(38) MESSIER-106-11-COPY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Prime + Parallel Gro up 9-10	360 Secs [==>]	[1]	
		10	(38) MESSIER-106-11-COPY	ACS/WFC, ACCUM, WFC	F435W			Prime + Parallel Gro up 9-10	360 Secs [==>]	[1]	



Proposal 11570 - Visit 95 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:09:10 GMT 2010

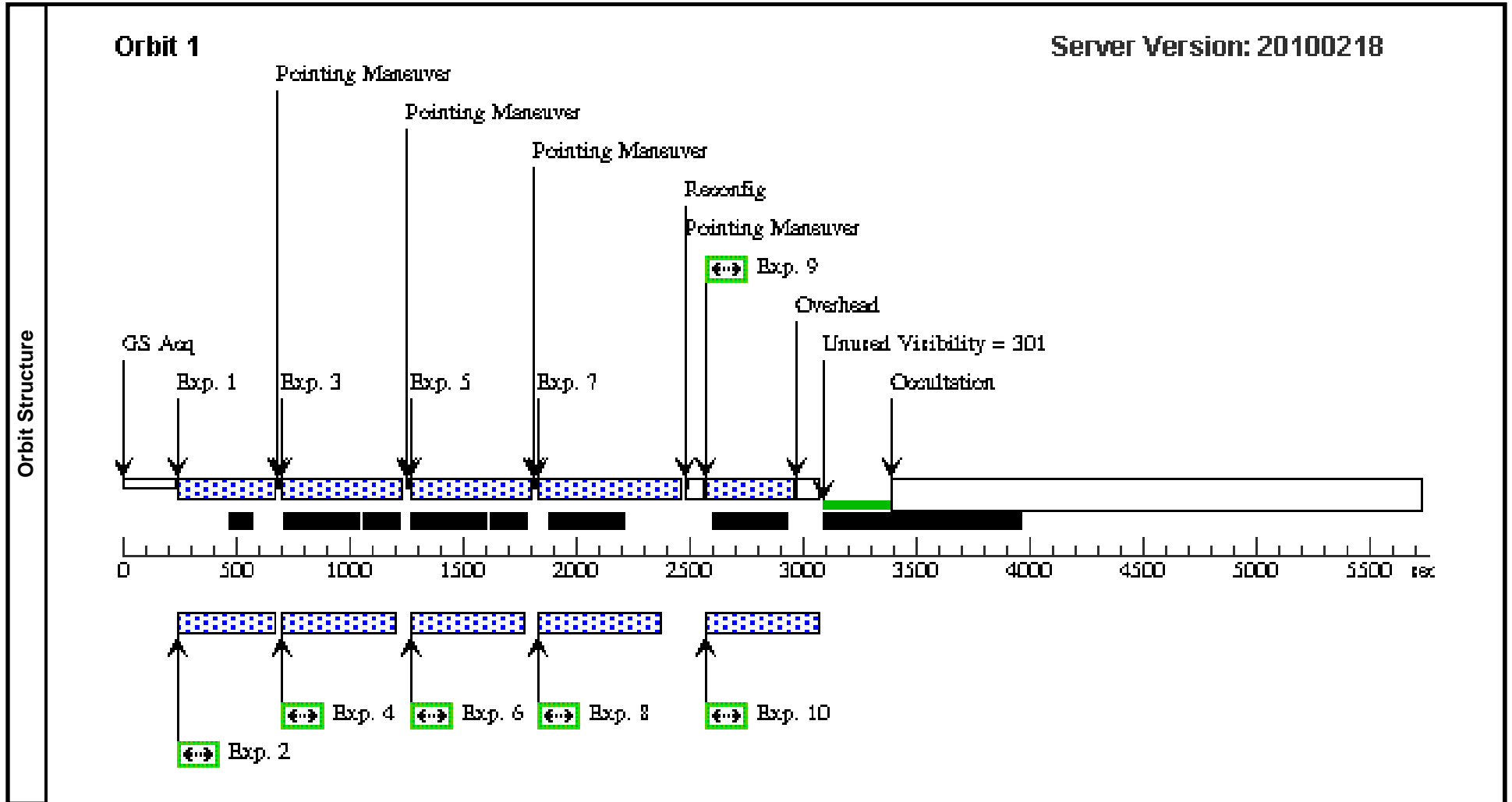
Visit	Proposal 11570, Visit 95, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 293D TO 293 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(39)	MESSIER-106-12-COPY	RA: 12 19 5.0836 (184.7711817d) Dec: +47 21 12.01 (47.35334d) Equinox: J2000			V=11.0	Reference Frame: ICRS	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(39) MESSIER-106-12-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=5; SAMP-SEQ=SPAR S100	GS ACQ SCENARI O SINGLE	Prime + Parallel Group 1-2	[==>]	[1]	
	2	(39) MESSIER-106-12-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Group 1-2	225 Secs [==>]	[1]	
	3	(39) MESSIER-106-12-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.56,0.0	Prime + Parallel Group 3-4	[==>]	[1]	
	4	(39) MESSIER-106-12-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Group 3-4	375 Secs [==>]	[1]	
	5	(39) MESSIER-106-12-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.56,0.36	Prime + Parallel Group 5-6	[==>]	[1]	
	6	(39) MESSIER-106-12-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Group 5-6	375 Secs [==>]	[1]	
	7	(39) MESSIER-106-12-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0.0,0.36	Prime + Parallel Group 7-8	[==>]	[1]	
	8	(39) MESSIER-106-12-COPY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 7-8	375 Secs [==>]	[1]	
	9	(39) MESSIER-106-12-COPY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Prime + Parallel Group 9-10	360 Secs [==>]	[1]	
10	(39) MESSIER-106-12-COPY	ACS/WFC, ACCUM, WFC	F435W			Prime + Parallel Group 9-10	360 Secs [==>]	[1]		



Proposal 11570 - Visit 96 - Narrowing in on the Hubble Constant and Dark Energy

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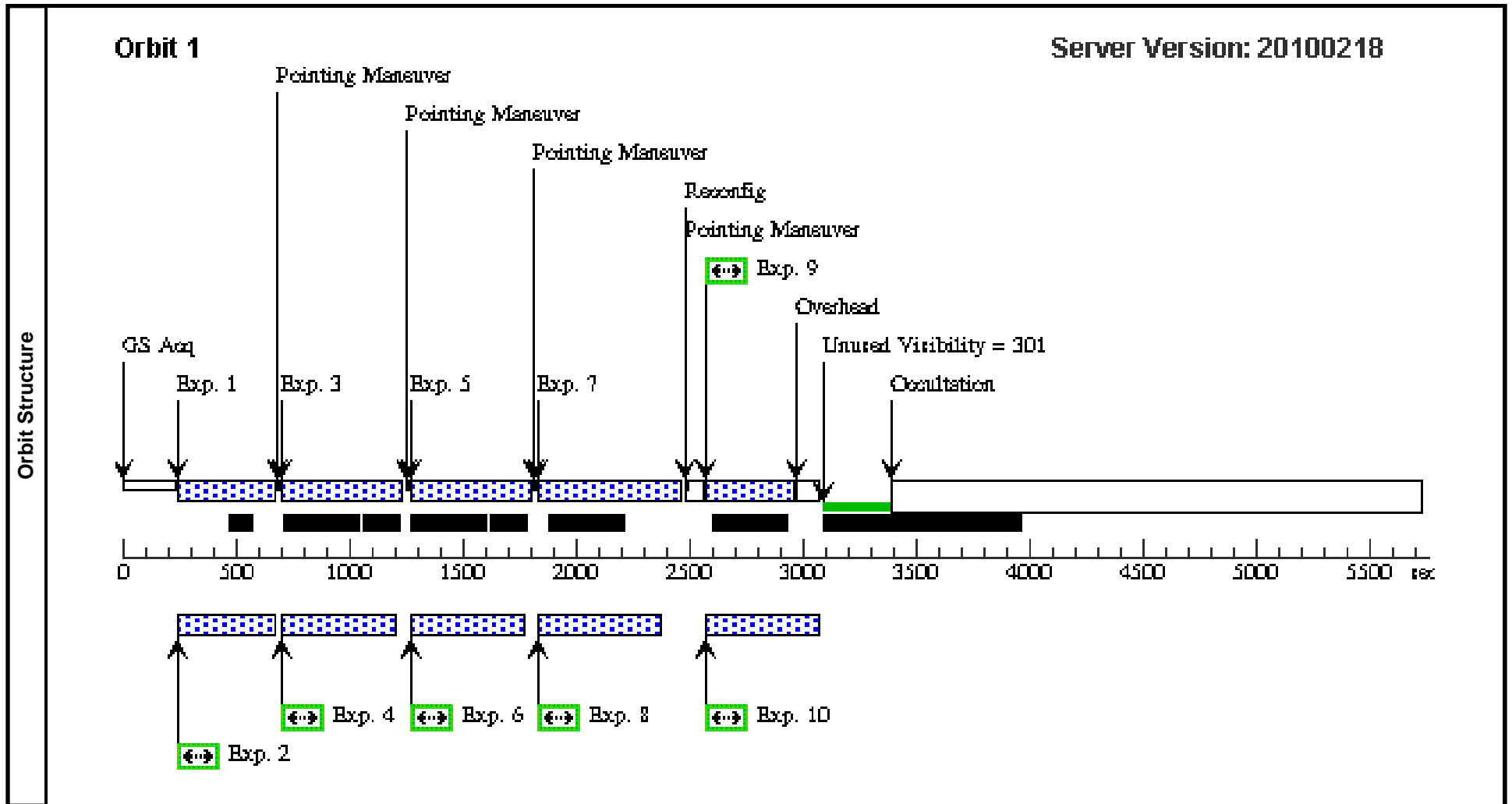
Visit	Proposal 11570, Visit 96, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 293D TO 293 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(40)	MESSIER-106-13-COPY	RA: 12 18 52.8099 (184.7200412d) Dec: +47 20 20.52 (47.33903d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(40) MESSIER-106-13-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=5; SAMP-SEQ=SPAR S100	GS ACQ SCENARI O SINGLE	Prime + Parallel Group 1-2	[==>]	[1]	
	2	(40) MESSIER-106-13-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Group 1-2	225 Secs [==>]	[1]	
	3	(40) MESSIER-106-13-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.56,0.0	Prime + Parallel Group 3-4	[==>]	[1]	
	4	(40) MESSIER-106-13-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Group 3-4	375 Secs [==>]	[1]	
	5	(40) MESSIER-106-13-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.56,0.3 6	Prime + Parallel Group 5-6	[==>]	[1]	
	6	(40) MESSIER-106-13-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Group 5-6	375 Secs [==>]	[1]	
	7	(40) MESSIER-106-13-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0.0,0.36	Prime + Parallel Group 7-8	[==>]	[1]	
	8	(40) MESSIER-106-13-COPY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 7-8	375 Secs [==>]	[1]	
	9	(40) MESSIER-106-13-COPY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Prime + Parallel Group 9-10	360 Secs [==>]	[1]	
10	(40) MESSIER-106-13-COPY	ACS/WFC, ACCUM, WFC	F435W			Prime + Parallel Group 9-10	360 Secs [==>]	[1]		



Proposal 11570 - Visit 97 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:09:10 GMT 2010

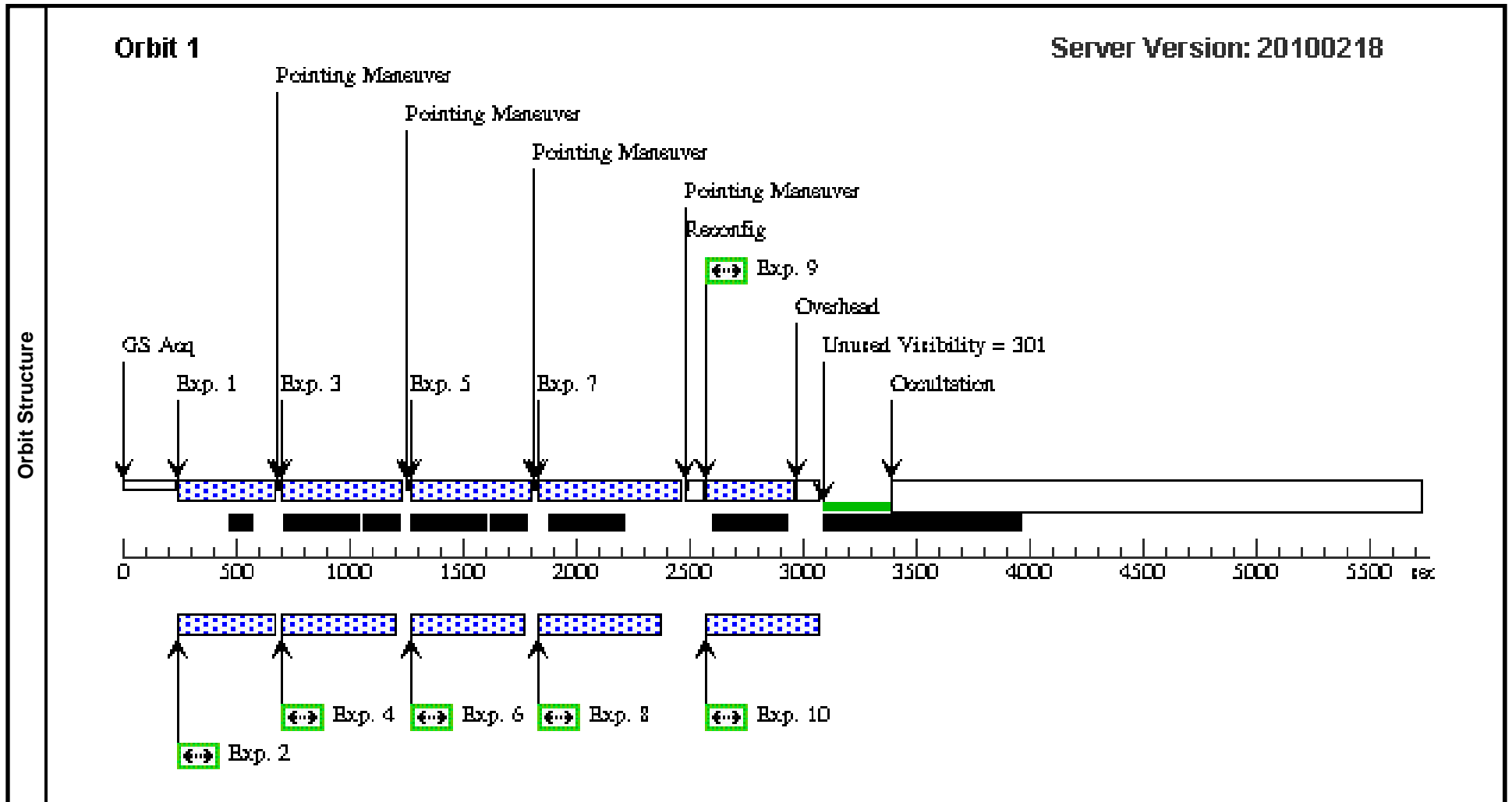
Visit	Proposal 11570, Visit 97, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 293D TO 293 D																											
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(41)</td> <td>MESSIER-106-14-COPY</td> <td>RA: 12 18 40.3384 (184.6680767d) Dec: +47 19 30.88 (47.32524d) Equinox: J2000</td> <td></td> <td>V=11.0</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"><i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i></td> </tr> </tbody> </table>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(41)	MESSIER-106-14-COPY	RA: 12 18 40.3384 (184.6680767d) Dec: +47 19 30.88 (47.32524d) Equinox: J2000		V=11.0	Reference Frame: ICRS	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>				
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																							
(41)	MESSIER-106-14-COPY	RA: 12 18 40.3384 (184.6680767d) Dec: +47 19 30.88 (47.32524d) Equinox: J2000		V=11.0	Reference Frame: ICRS																							
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>																												
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit																		
	1	(41) MESSIER-106-14-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=5; SAMP-SEQ=SPAR S100	GS ACQ SCENARI O SINGLE	Prime + Parallel Gro up 1-2	[==>]	[1]																			
	2	(41) MESSIER-106-14-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 1-2	225 Secs [==>]	[1]																			
	3	(41) MESSIER-106-14-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.56,0.0	Prime + Parallel Gro up 3-4	[==>]	[1]																			
	4	(41) MESSIER-106-14-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 3-4	375 Secs [==>]	[1]																			
	5	(41) MESSIER-106-14-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.56,0.3 6	Prime + Parallel Gro up 5-6	[==>]	[1]																			
	6	(41) MESSIER-106-14-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 5-6	375 Secs [==>]	[1]																			
	7	(41) MESSIER-106-14-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0.0,0.36	Prime + Parallel Gro up 7-8	[==>]	[1]																			
	8	(41) MESSIER-106-14-COPY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 7-8	375 Secs [==>]	[1]																			
	9	(41) MESSIER-106-14-COPY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Prime + Parallel Gro up 9-10	360 Secs [==>]	[1]																			
	10	(41) MESSIER-106-14-COPY	ACS/WFC, ACCUM, WFC	F435W			Prime + Parallel Gro up 9-10	360 Secs [==>]	[1]																			



Proposal 11570 - Visit 98 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:09:11 GMT 2010

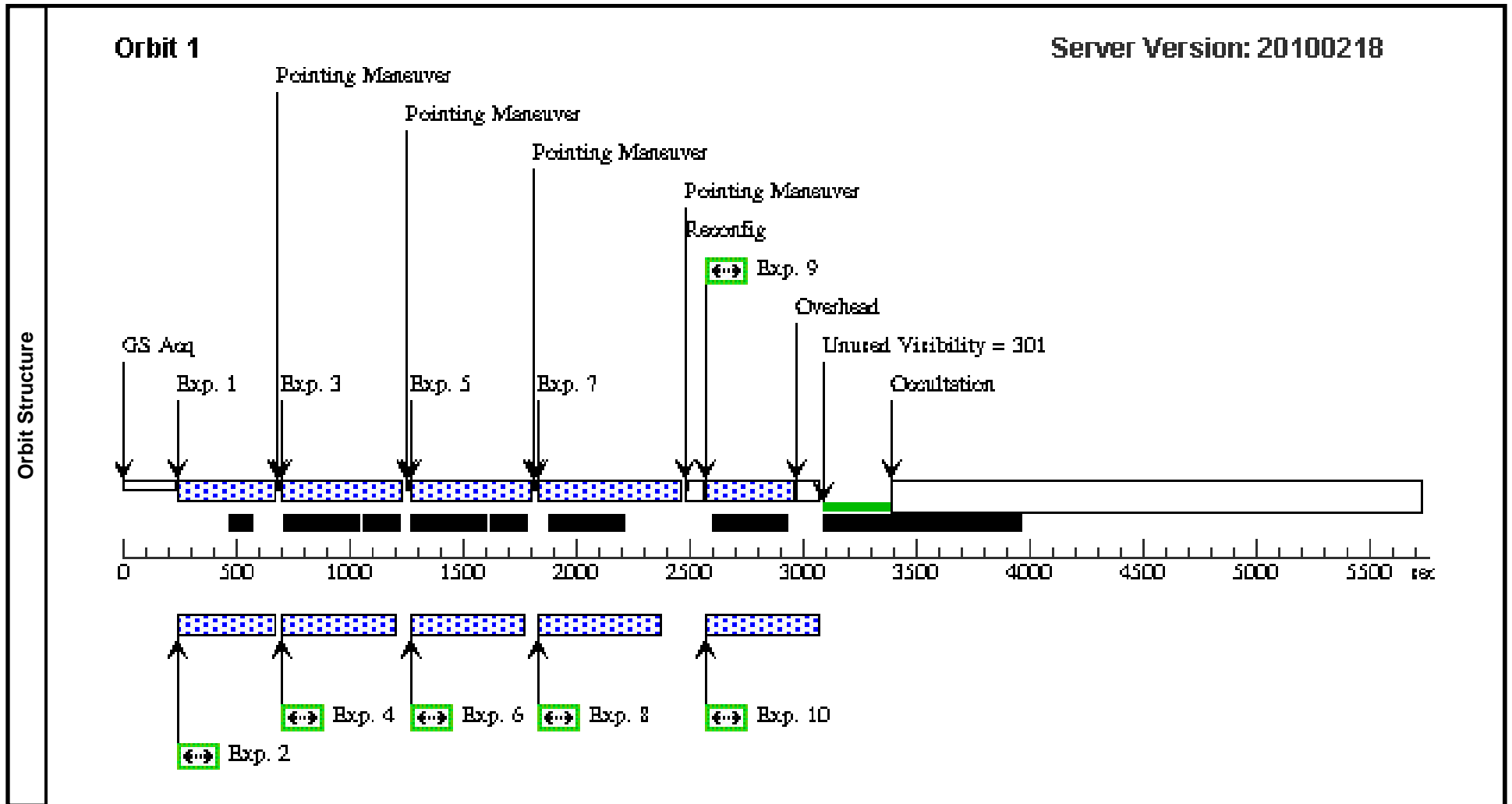
Visit	Proposal 11570, Visit 98, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS Special Requirements: ORIENT 293D TO 293 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(42)	MESSIER-106-15-COPY	RA: 12 18 51.6048 (184.7150200d) Dec: +47 22 23.29 (47.37314d) Equinox: J2000			V=11.0	Reference Frame: ICRS	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(42) MESSIER-106-15-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=5; SAMP-SEQ=SPAR S100	GS ACQ SCENARI O SINGLE	Prime + Parallel Gro up 1-2	[==>]	[1]	
	2	(42) MESSIER-106-15-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 1-2	225 Secs [==>]	[1]	
	3	(42) MESSIER-106-15-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.56,0.0	Prime + Parallel Gro up 3-4	[==>]	[1]	
	4	(42) MESSIER-106-15-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 3-4	375 Secs [==>]	[1]	
	5	(42) MESSIER-106-15-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.56,0.3 6	Prime + Parallel Gro up 5-6	[==>]	[1]	
	6	(42) MESSIER-106-15-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 5-6	375 Secs [==>]	[1]	
	7	(42) MESSIER-106-15-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG 0.0,0.36	Prime + Parallel Gro up 7-8	[==>]	[1]	
	8	(42) MESSIER-106-15-COPY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 7-8	375 Secs [==>]	[1]	
	9	(42) MESSIER-106-15-COPY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Prime + Parallel Gro up 9-10	360 Secs [==>]	[1]	
10	(42) MESSIER-106-15-COPY	ACS/WFC, ACCUM, WFC	F435W			Prime + Parallel Gro up 9-10	360 Secs [==>]	[1]		



Proposal 11570 - Visit 99 - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:09:11 GMT 2010

Visit	Proposal 11570, Visit 99, scheduling					Fluxes	Miscellaneous			
	Diagnostic Status: No Diagnostics									
Fixed Targets	Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS					V=11.0	Reference Frame: ICRS			
	Special Requirements: ORIENT 113D TO 113 D									
#	Name	Target Coordinates	Targ. Coord. Corrections							
(43)	MESSIER-106-16-COPY	RA: 12 19 18.5078 (184.8271158d) Dec: +47 15 36.37 (47.26010d) Equinox: J2000								
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(43) MESSIER-106-16-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=5; SAMP-SEQ=SPAR S100	GS ACQ SCENARI O SINGLE	Prime + Parallel Gro up 1-2	[==>]	[1]	
	2	(43) MESSIER-106-16-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 1-2	225 Secs [==>]	[1]	
	3	(43) MESSIER-106-16-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.542,0 182	Prime + Parallel Gro up 3-4	[==>]	[1]	
	4	(43) MESSIER-106-16-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 3-4	375 Secs [==>]	[1]	
	5	(43) MESSIER-106-16-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.339,0 485	Prime + Parallel Gro up 5-6	[==>]	[1]	
	6	(43) MESSIER-106-16-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Gro up 5-6	375 Secs [==>]	[1]	
	7	(43) MESSIER-106-16-COPY	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG -0.203,0 .303	Prime + Parallel Gro up 7-8	[==>]	[1]	
	8	(43) MESSIER-106-16-COPY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Gro up 7-8	375 Secs [==>]	[1]	
	9	(43) MESSIER-106-16-COPY	WFC3/UVIS, ACCUM, UVIS	F814W	CR-SPLIT=NO		Prime + Parallel Gro up 9-10	360 Secs [==>]	[1]	
10	(43) MESSIER-106-16-COPY	ACS/WFC, ACCUM, WFC	F435W			Prime + Parallel Gro up 9-10	360 Secs [==>]	[1]		



Proposal 11570 - Visit 0B - Narrowing in on the Hubble Constant and Dark Energy

Tue Apr 27 01:09:11 GMT 2010

Visit		Proposal 11570, Visit 0B, scheduling								
Visit		Diagnostic Status: No Diagnostics								
Visit		Scientific Instruments: WFC3/IR, ACS/WFC, WFC3/UVIS								
Visit		Special Requirements: ORIENT 113D TO 113 D								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(43)	MESSIER-106-16-COPY	RA: 12 19 18.5078 (184.8271158d) Dec: +47 15 36.37 (47.26010d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Fixed Targets	(44)	MESSIER-106-13-COPY-REDO	RA: 12 18 53.9975 (184.7249896d) Dec: +47 19 22.97 (47.32305d) Equinox: J2000		V=11.0	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(44) MESSIER-106-13-COPY-REDO	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=5; SAMP-SEQ=SPAR S100	GS ACQ SCENARI O SINGLE	Prime + Parallel Group 1-2	[==>]	[1]	
2		(43) MESSIER-106-16-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Group 1-2	225 Secs [==>]	[1]	
3		(44) MESSIER-106-13-COPY-REDO	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.542,0 182	Prime + Parallel Group 3-4	[==>]	[1]	
4		(43) MESSIER-106-16-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Group 3-4	375 Secs [==>]	[1]	
5		(44) MESSIER-106-13-COPY-REDO	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=6; SAMP-SEQ=SPAR S100	POS TARG 0.339,0 485	Prime + Parallel Group 5-6	[==>]	[1]	
6		(43) MESSIER-106-16-COPY	ACS/WFC, ACCUM, WFC	F555W			Prime + Parallel Group 5-6	375 Secs [==>]	[1]	
7		(44) MESSIER-106-13-COPY-REDO	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=7; SAMP-SEQ=SPAR S100	POS TARG -0.203,0 .303	Prime + Parallel Group 7-8	[==>]	[1]	
8		(43) MESSIER-106-16-COPY	ACS/WFC, ACCUM, WFC	F814W			Prime + Parallel Group 7-8	375 Secs [==>]	[1]	
9		(44) MESSIER-106-13-COPY-REDO	WFC3/UVIS, ACCUM, UVIS	F555W	CR-SPLIT=NO		Prime + Parallel Group 9-10	360 Secs [==>]	[1]	
10		(43) MESSIER-106-16-COPY	ACS/WFC, ACCUM, WFC	F435W			Prime + Parallel Group 9-10	360 Secs [==>]	[1]	

