



11444 - WFC3 UVIS Plate Scale

Cycle: 17, Proposal Category: SM4/WFC3

(Availability Mode: RESTRICTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) NGC104	WFC3/UVIS	4	20-Jun-2008 23:14:59.0	yes
02	(2) LMC-FIELD-1	WFC3/UVIS	1	20-Jun-2008 23:15:12.0	yes

5 Total Orbits Used

ABSTRACT

The geometric scale factors and distortion of the UVIS detector will be measured using multiple pointing observations of the globular cluster 47 Tucanae (NGC 104) to image moderately dense stellar fields. 24 pointings will be used to sample a range of spatial scales. A complementary observation of a well studied field in the LMC will be made in one orbit.

Centroid position of stars will be used to tie down the geometric distortion to about 0.2 pixels across the field of each detector. Well measured distortion-corrected positions of stars previously determined for these fields will be used in the derivation of the distortion equation coefficients.

This proposal is activity ID WFC3-031.

OBSERVING DESCRIPTION

The field in NGC104 will be sampled at scales of 40, 150, 550, 1100, and 1660 pixels (1 to 40 percent of the detector width) in each coordinate. The LMC field will be sampled on a coarser grid.

ADDITIONAL COMMENTS

A single set of guidestars should be used for each visit. Two guidestars are required. This proposal must follow successful implementation of proposal 11434 (WFC3 UVIS Fine Alignment).

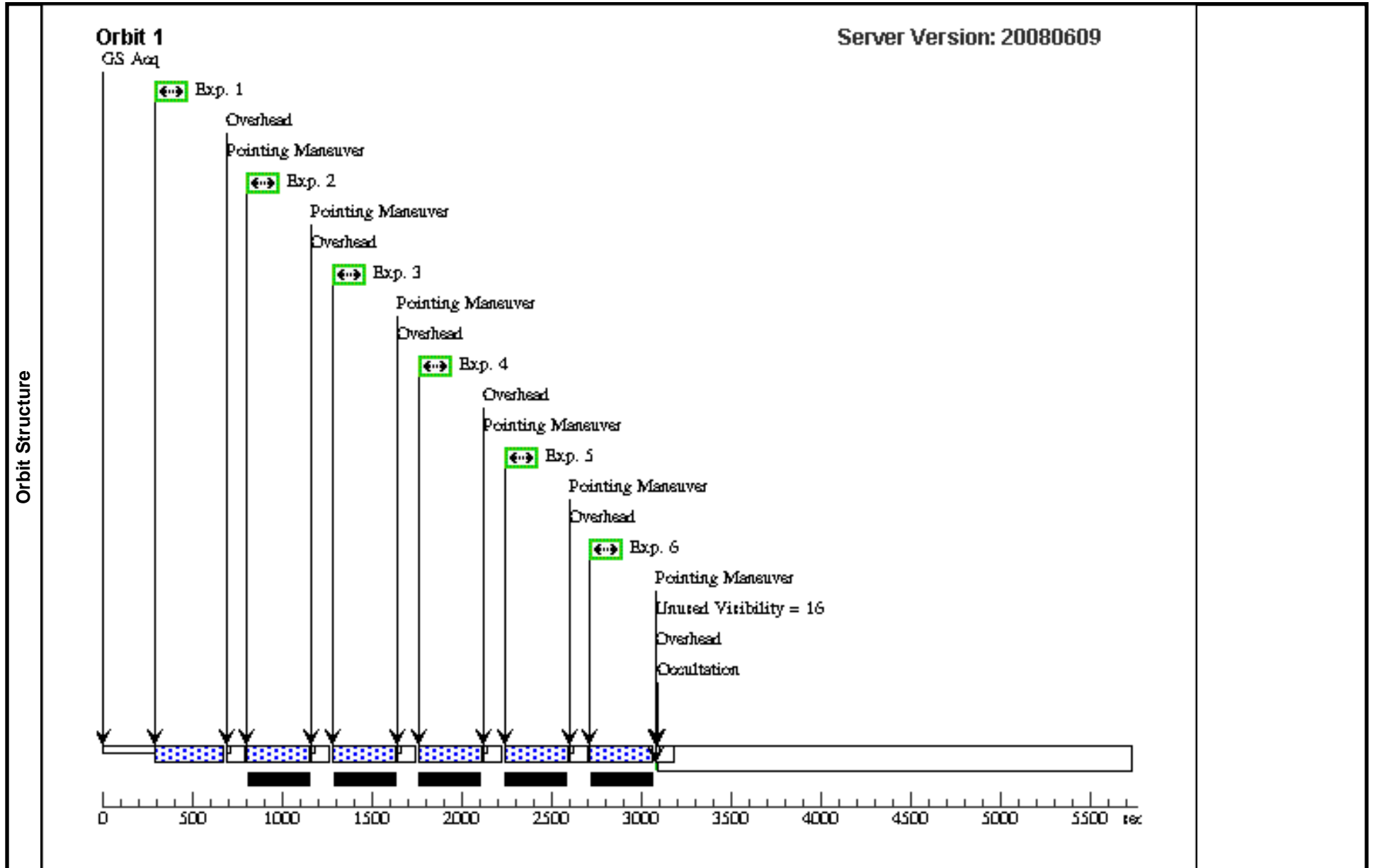
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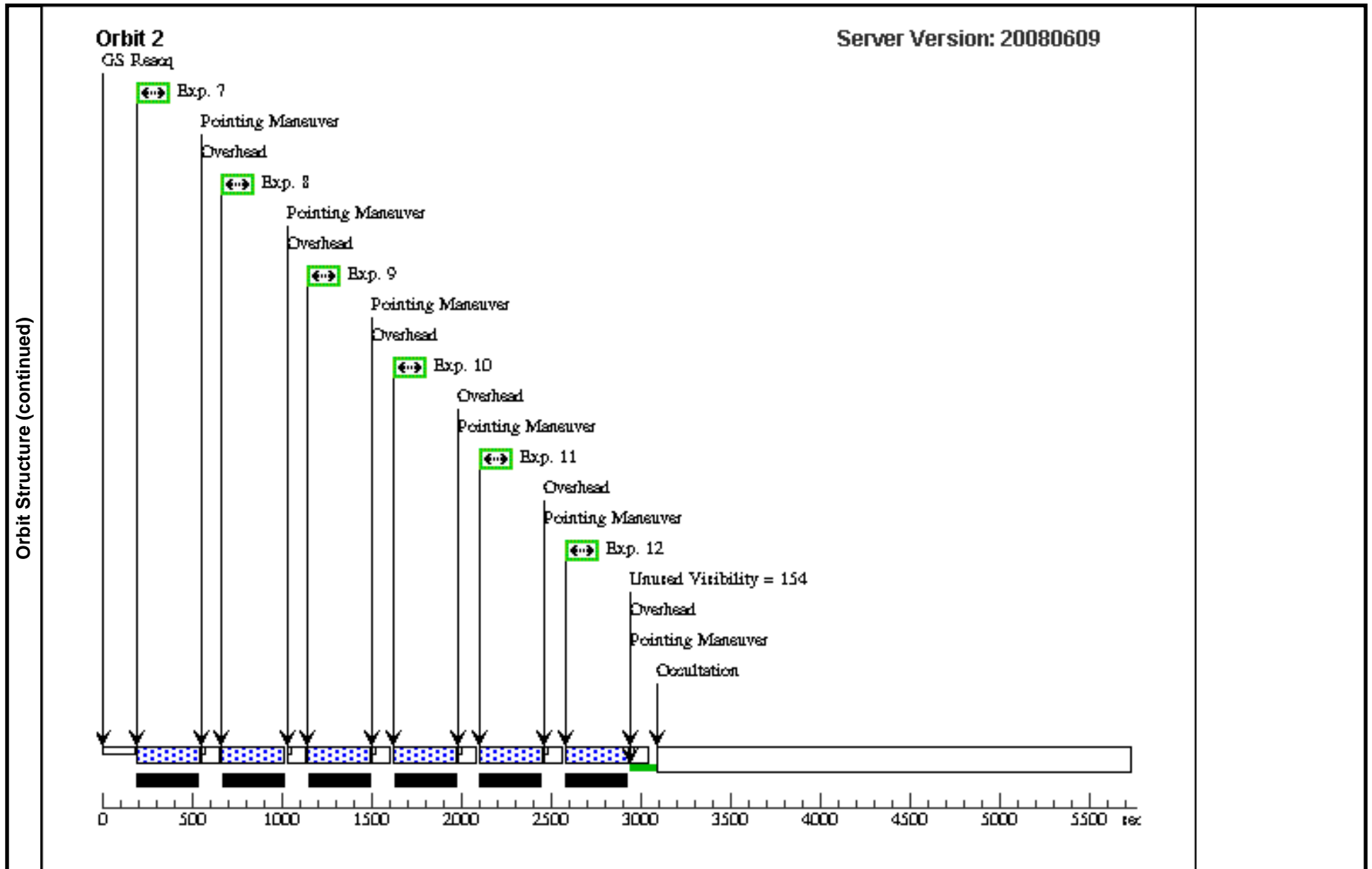
Sat Jun 21 03:15:15 GMT 2008

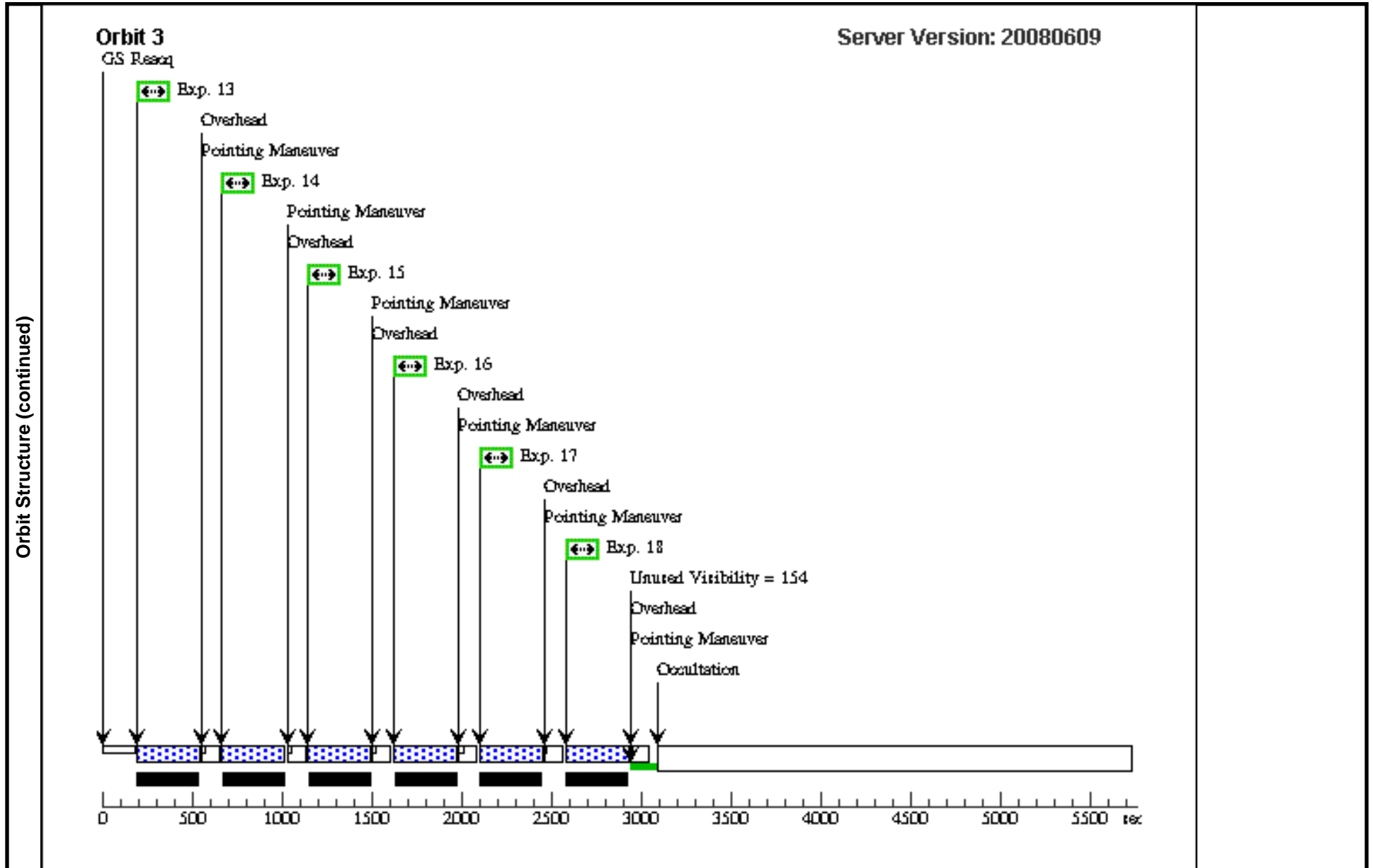
Visit	Proposal 11444, Visit 01, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	NGC104	RA: 00 22 38.5000 (5.6604167d) Dec: -72 04 4.00 (-72.06778d) Equinox: J2000			V=17.5+/-0.1	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG -10.96,1 0.96			350 Secs [==>]	[1]
	2	(1) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG 10.96,10 .96			350 Secs [==>]	[1]
	3	(1) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG 10.96,-1 0.96			350 Secs [==>]	[1]
	4	(1) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG -10.96,- 10.96			350 Secs [==>]	[1]
	5	(1) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG -32.88,- 10.96			350 Secs [==>]	[1]
	6	(1) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG -32.88,1 0.96			350 Secs [==>]	[1]
	7	(1) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG -32.88,3 2.88			350 Secs [==>]	[2]
	8	(1) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG -10.96,3 2.88			350 Secs [==>]	[2]
	9	(1) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG 10.96,32 .88			350 Secs [==>]	[2]
	10	(1) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG 32.88,32 .88			350 Secs [==>]	[2]
	11	(1) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG 32.88,10 .96			350 Secs [==>]	[2]
	12	(1) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG 32.88,-1 0.96			350 Secs [==>]	[2]
	13	(1) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG 32.88,-3 2.88			350 Secs [==>]	[3]
14	(1) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG 10.96,-3 2.88			350 Secs [==>]	[3]	

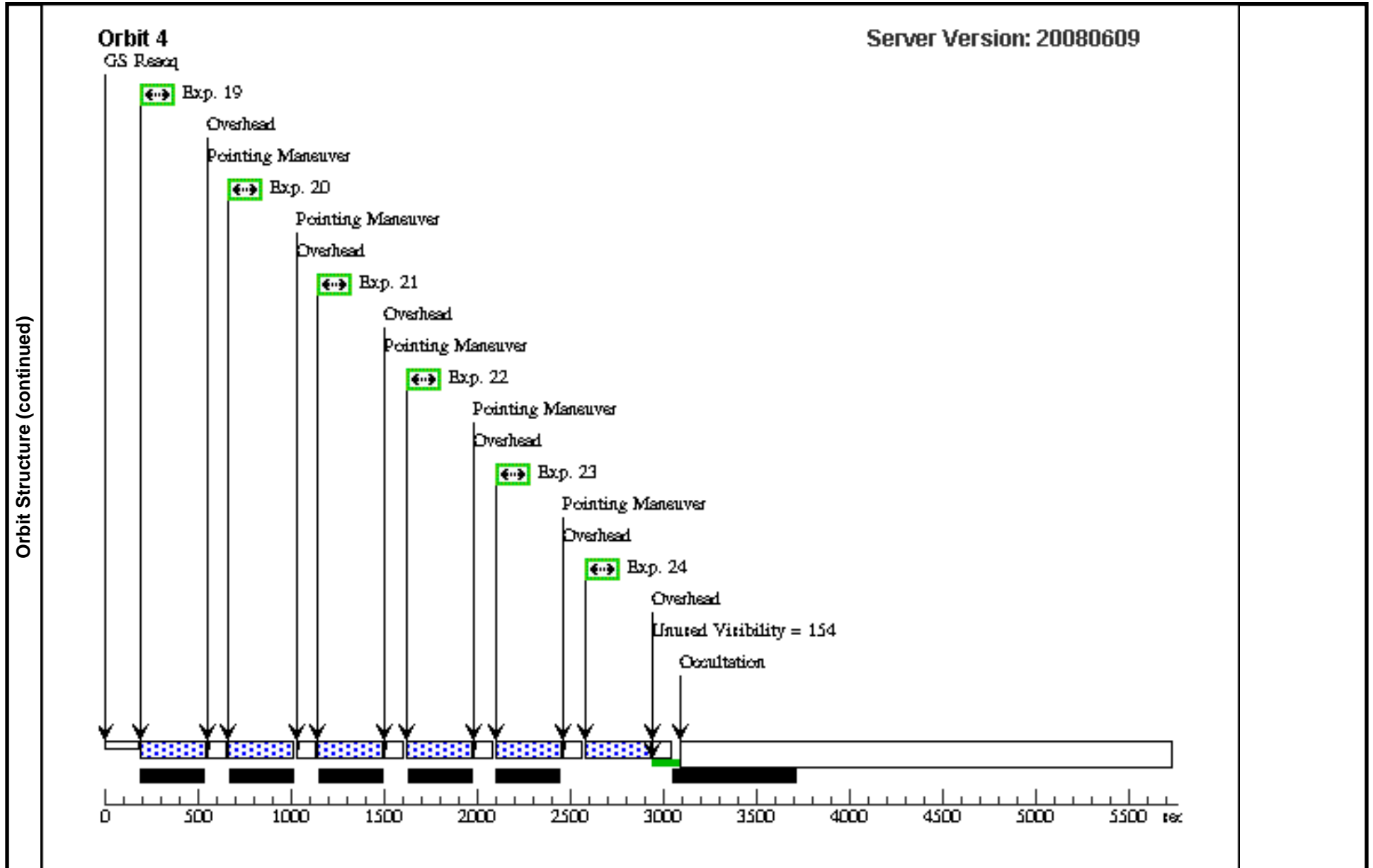
Proposal 11444 - Visit 01 - WFC3 UVIS Plate Scale

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	15	(1) NGC104	(1) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG -10.96,-32.88		350 Secs [==>]	[3]
	16	(1) NGC104	(1) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG -32.88,-32.88		350 Secs [==>]	[3]
	17	(1) NGC104	(1) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG -2.96,-2.96		350 Secs [==>]	[3]
	18	(1) NGC104	(1) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG -2.96,2.96		350 Secs [==>]	[3]
	19	(1) NGC104	(1) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG 2.96,2.96		350 Secs [==>]	[4]
	20	(1) NGC104	(1) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG 2.96,-2.96		350 Secs [==>]	[4]
	21	(1) NGC104	(1) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG -0.80,-0.80		350 Secs [==>]	[4]
	22	(1) NGC104	(1) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG -0.80,0.80		350 Secs [==>]	[4]
	23	(1) NGC104	(1) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG 0.80,0.80		350 Secs [==>]	[4]
24	(1) NGC104	(1) NGC104	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG 0.80,-0.80		350 Secs [==>]	[4]	









Proposal 11444 - Visit 02 - WFC3 UVIS Plate Scale

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Visit	Proposal 11444, Visit 02, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(2)	LMC-FIELD-1	RA: 05 21 57.6500 (80.4902083d) Dec: -69 29 54.11 (-69.49836d) Equinox: J2000			V=23.0	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(2) LMC-FIELD-1	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG 0.0,10.96; GS ACQ SCENARI O BASE1B3			349.0 Secs [==>]	[1]
	2	(2) LMC-FIELD-1	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG 0.0,-10.96			349.0 Secs [==>]	[1]
	3	(2) LMC-FIELD-1	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG -21.92,-21.92			349.0 Secs [==>]	[1]
	4	(2) LMC-FIELD-1	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG -21.92,21.92			349.0 Secs [==>]	[1]
	5	(2) LMC-FIELD-1	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG 21.92,21.92			349.0 Secs [==>]	[1]
	6	(2) LMC-FIELD-1	WFC3/UVIS, ACCUM, UVIS-CENTER	F606W	CR-SPLIT=NO	POS TARG 21.92,-21.92			349.0 Secs [==>]	[1]

