



11799 - NICMOS non-linearity calibration for faint objects

Cycle: 17, Proposal Category: GO/DD

(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	(3) XMM2235-1	NIC2	1	09-Oct-2009 21:04:53.0	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>
02	(4) XMM2235-2	NIC2	1	09-Oct-2009 21:04:58.0	yes
03	(5) RCS0221-1	NIC2	1	09-Oct-2009 21:05:02.0	yes
04	(6) RCS0221-2	NIC2	1	09-Oct-2009 21:05:08.0	yes
05	(7) RDCS1252-1	NIC2	1	09-Oct-2009 21:05:12.0	yes
55	(7) RDCS1252-1	NIC2	1	09-Oct-2009 21:05:15.0	yes
06	(8) RDCS1252-2	NIC2	1	09-Oct-2009 21:05:21.0	yes
10	(9) XMM1229	NIC2 WFC3/IR	3	09-Oct-2009 21:05:33.0	yes
11	(10) SCPSNH5	WFC3/IR	2	09-Oct-2009 21:05:48.0	yes
12	(11) XMM2235-WFC3	WFC3/IR	2	09-Oct-2009 21:06:01.0	yes
13	(12) RDCS1252-WFC3	WFC3/IR	2	09-Oct-2009 21:06:10.0	yes

16 Total Orbits Used

ABSTRACT

NICMOS has played a key role in probing the deep near infrared regime for a decade. It has been the only instrument available to observe objects in the near infrared that are not visible from the ground. In particular, it has played a major role in the SN Ia observations at redshifts $z > 1$. However, the calibration of NICMOS has turned out to be difficult due to the apparent non-linearity of the detectors. The NICMOS calibration team has described the non-linearity as a power law based on data in the range of ~ 50 -5000 ADU/s. The correction relies on an extrapolation of two orders of magnitude in flux at count rates close to the sky level (0.1 ADU/s) where space observations are particularly prized - and where SN Ia observations are made. Precise measurements of faint objects require us to reduce the uncertainties from this extrapolation. Here we propose to derive the absolute calibration in the sky limited regime and to characterize the non-linearity over the entire dynamic range for the camera/filter combination: NIC2/F110W.

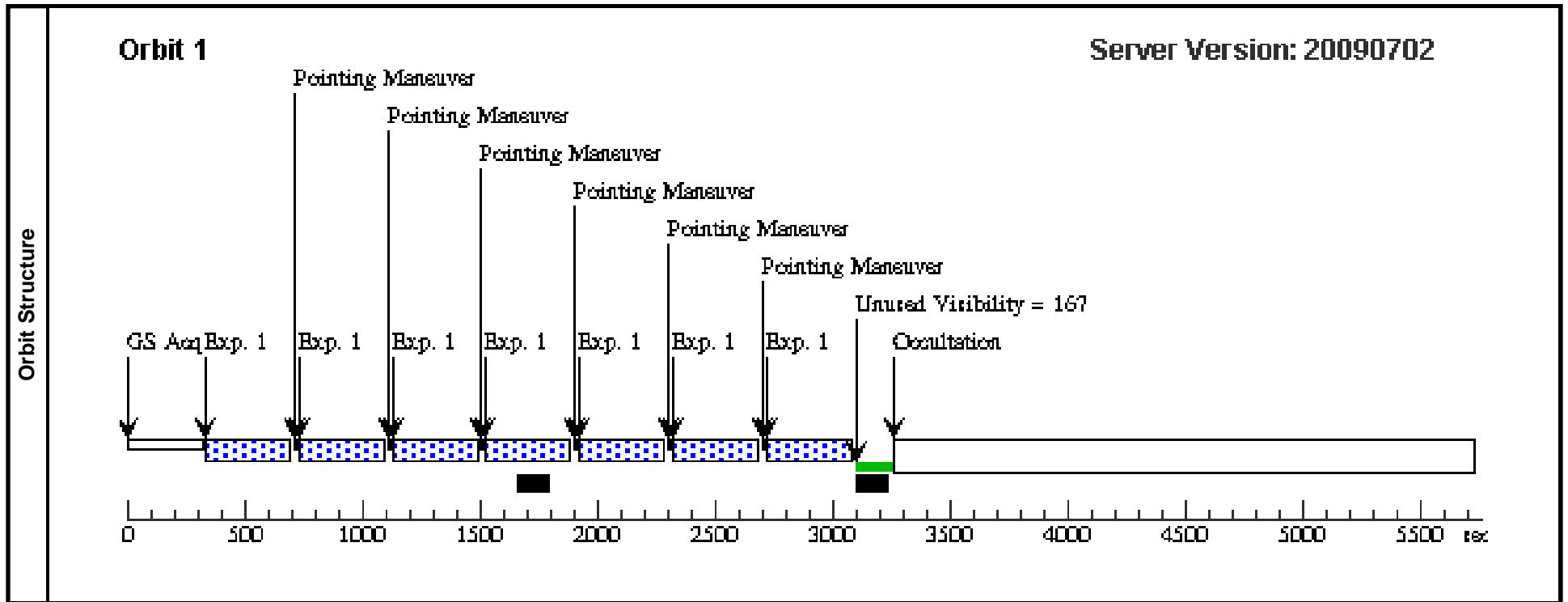
OBSERVING DESCRIPTION

TBD

Proposal 11799 - Visit 01 - NICMOS non-linearity calibration for faint objects

Sat Oct 10 01:06:15 GMT 2009

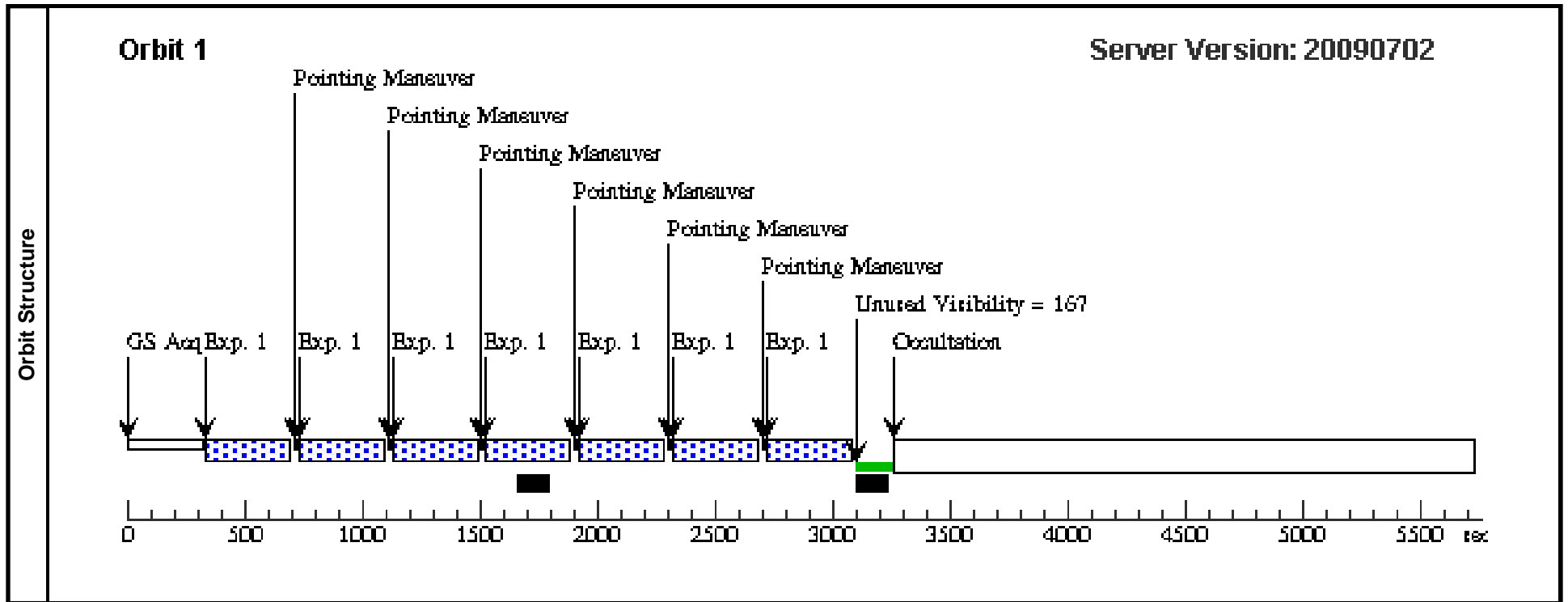
Visit	Proposal 11799, Visit 01, completed Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: (none)									
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures
(1)		Pattern Type=NIC-SPIRAL-DITH Purpose=DITHER Number Of Points=7 Point Spacing=1.5375 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false				(1)			
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(3)	XMM2235-1	RA: 22 35 20.6830 (338.8361792d) Dec: -25 57 41.02 (-25.96139d) Equinox: J2000			V=25	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) XMM2235-1	NIC2, MULTIACCUM, NIC2	F110W	SAMP-SEQ=SPARS 16; NSAMP=24		Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)]	[1]
<i>Comments: Please adjust NSAMP to fill time allocated to orbit</i>										



Proposal 11799 - Visit 02 - NICMOS non-linearity calibration for faint objects

Sat Oct 10 01:06:16 GMT 2009

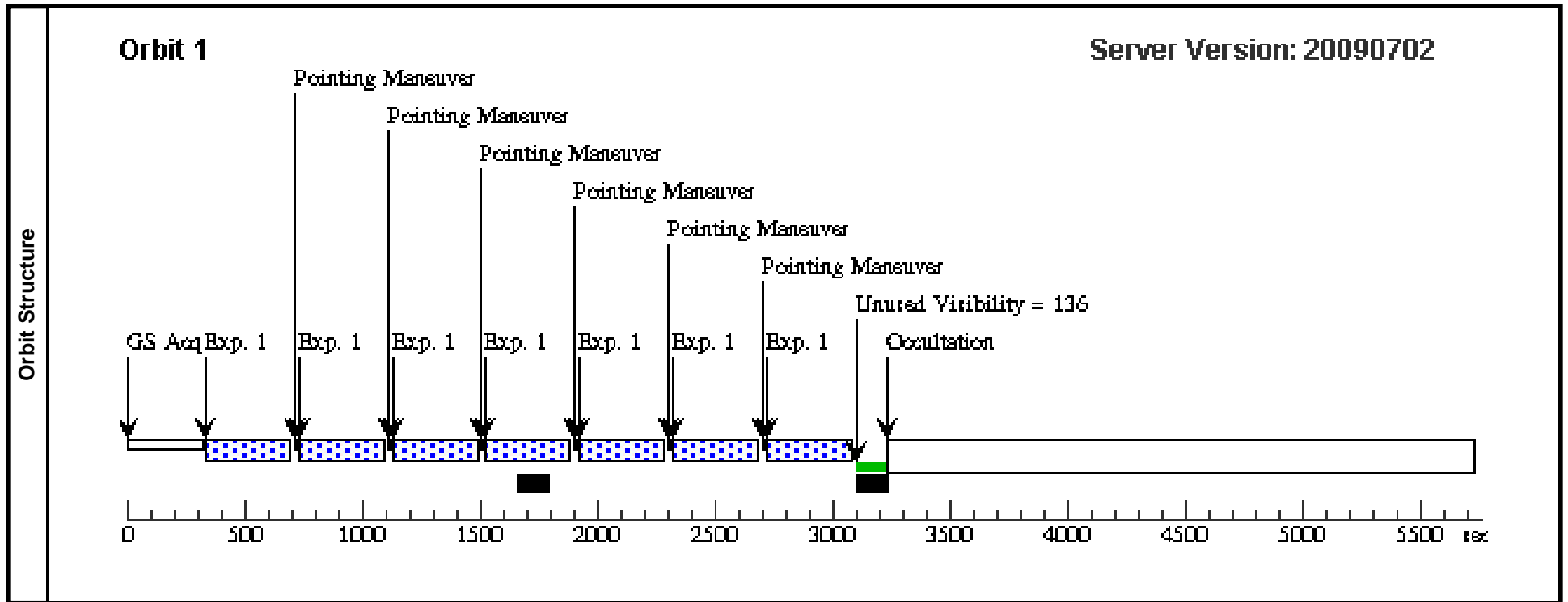
Visit	Proposal 11799, Visit 02, completed Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: (none)									
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures
		(1)	Pattern Type=NIC-SPIRAL-DITH Purpose=DITHER Number Of Points=7 Point Spacing=1.5375 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false						(1)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	XMM2235-2	RA: 22 35 22.3700 (338.8432083d) Dec: -25 57 8.77 (-25.95244d) Equinox: J2000		V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(4) XMM2235-2	NIC2, MULTIACCUM, NIC2	F110W	SAMP-SEQ=SPARS 16; NSAMP=24		Pattern 1, Exps 1-1 (1)	[=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)] [=>(Pattern 7)]	[1]
<i>Comments: Please adjust NSAMP to fill time allocated to orbit</i>										



Proposal 11799 - Visit 03 - NICMOS non-linearity calibration for faint objects

Sat Oct 10 01:06:17 GMT 2009

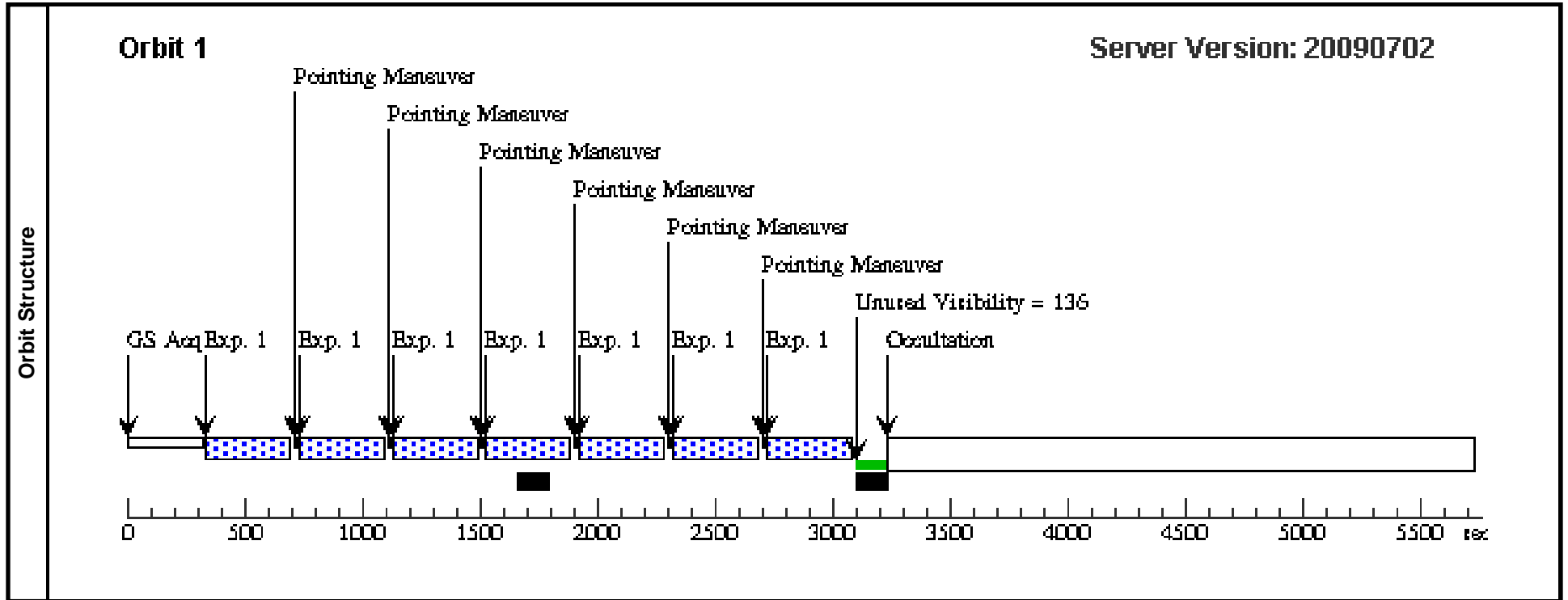
Visit	Proposal 11799, Visit 03, completed Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: (none)									
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures
(1)		Pattern Type=NIC-SPIRAL-DITH Purpose=DITHER Number Of Points=7 Point Spacing=1.5375 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false				(1)			
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(5)	RCS0221-1	RA: 02 21 39.3630 (35.4140125d) Dec: -03 22 29.84 (-3.37496d) Equinox: J2000			V=25	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(5) RCS0221-1	NIC2, MULTIACCUM, NIC2	F110W	SAMP-SEQ=SPARS 16; NSAMP=24		Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)]	[1]
<i>Comments: Please adjust NSAMP to fill time allocated to orbit</i>										



Proposal 11799 - Visit 04 - NICMOS non-linearity calibration for faint objects

Sat Oct 10 01:06:17 GMT 2009

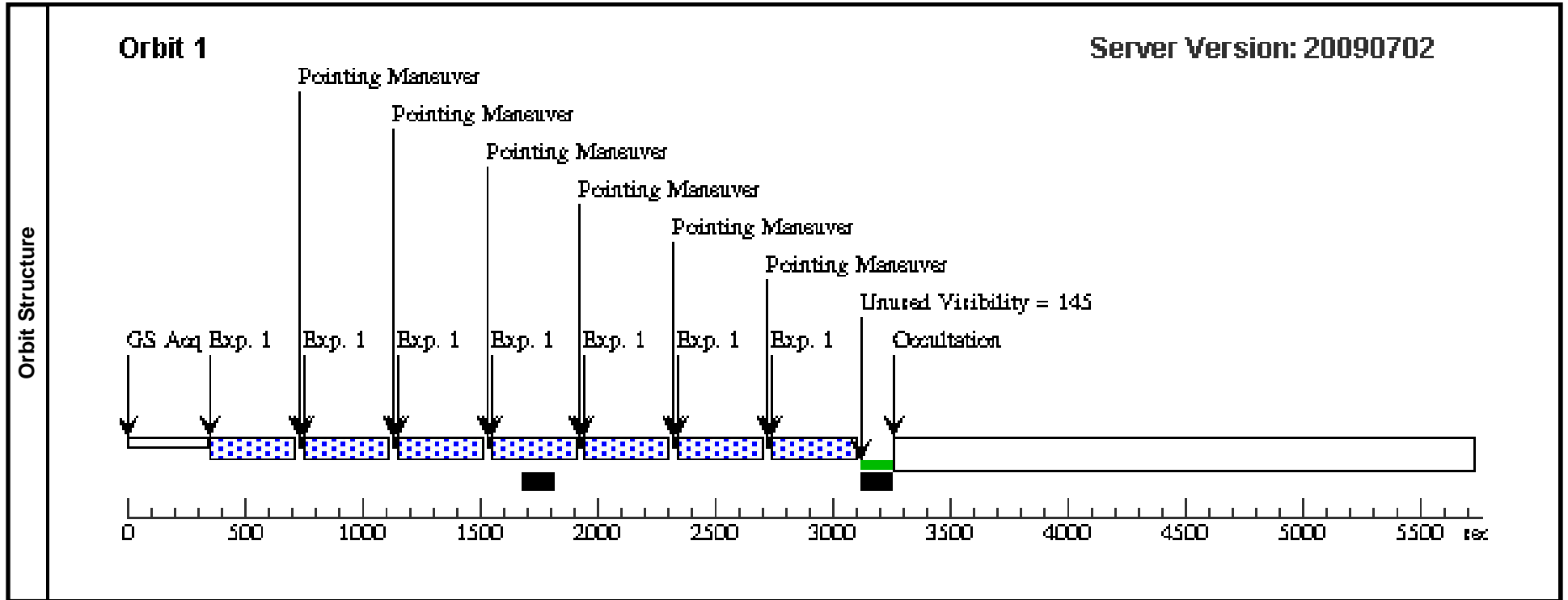
Visit	Proposal 11799, Visit 04, completed Diagnostic Status: No Diagnostics Scientific Instruments: NIC2 Special Requirements: (none)										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
(1)		Pattern Type=NIC-SPIRAL-DITH Purpose=DITHER Number Of Points=7 Point Spacing=1.5375 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false						(1)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	RCS0221-2	RA: 02 21 44.6119 (35.4358829d) Dec: -03 22 3.39 (-3.36761d) Equinox: J2000				V=25	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit
	1		(6) RCS0221-2	NIC2, MULTIACCUM, NIC2	F110W	SAMP-SEQ=SPARS 16; NSAMP=24		Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)]		[1]
<i>Comments: Please adjust NSAMP to fill time allocated to orbit</i>											



Proposal 11799 - Visit 05 - NICMOS non-linearity calibration for faint objects

Sat Oct 10 01:06:17 GMT 2009

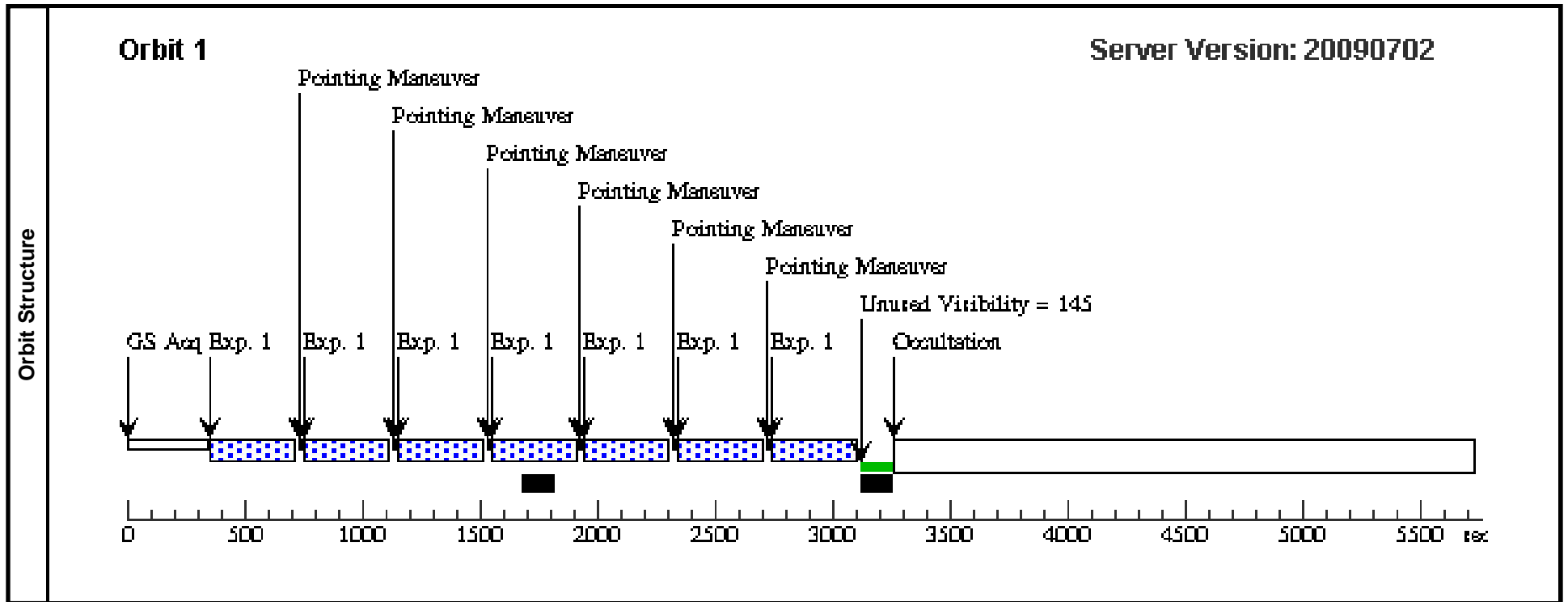
Visit	Proposal 11799, Visit 05, failed Diagnostic Status: Warning Scientific Instruments: NIC2 Special Requirements: (none)									
	(Visit 05) Warning (Orbit Planner): GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE (Exposure 1 (Pattern 1, Exps 1-1) special requirements) Warning (Form): The specified GS Acq Scenario is not in the current list of valid scenarios.									
Patterns	#	Primary Pattern		Secondary Pattern	Exposures					
	(1)	Pattern Type=NIC-SPIRAL-DITH Purpose=DITHER Number Of Points=7 Point Spacing=1.5375 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	RDCS1252-1	RA: 12 52 54.0720 (193.2253000d) Dec: -29 27 11.24 (-29.45312d) Equinox: J2000		V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(7) RDCS1252-1	NIC2, MULTIACCUM, NIC2	F110W	SAMP-SEQ=SPARS 16; NSAMP=24	GS ACQ SCENARI O BASE1T3	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)]	[1]	
<i>Comments: Please adjust NSAMP to fill time allocated to orbit</i>										



Proposal 11799 - Visit 55 - NICMOS non-linearity calibration for faint objects

Sat Oct 10 01:06:18 GMT 2009

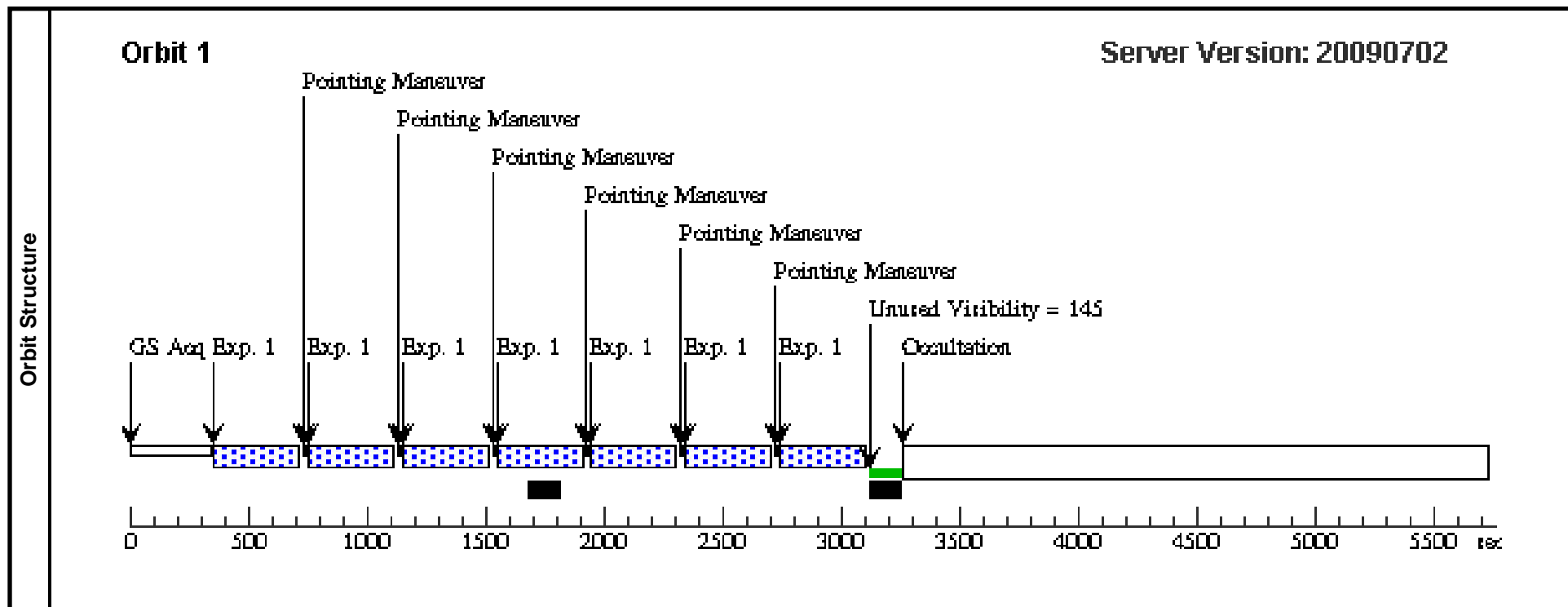
Visit	Proposal 11799, Visit 55, completed Diagnostic Status: Warning Scientific Instruments: NIC2 Special Requirements: (none) <i>Comments: HOPR repeat of visit 5.</i>									
	Diagnosics (Visit 55) Warning (Orbit Planner): GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE (Exposure 1 (Pattern 1, Exps 1-1) special requirements) Warning (Form): The specified GS Acq Scenario is not in the current list of valid scenarios.									
Patterns	#	Primary Pattern		Secondary Pattern	Exposures					
	(1)	Pattern Type=NIC-SPIRAL-DITH Purpose=DITHER Number Of Points=7 Point Spacing=1.5375 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	RDCS1252-1	RA: 12 52 54.0720 (193.2253000d) Dec: -29 27 11.24 (-29.45312d) Equinox: J2000		V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(7) RDCS1252-1	NIC2, MULTIACCUM, NIC2	F110W	SAMP-SEQ=SPARS 16; NSAMP=24	GS ACQ SCENARI O BASE1T3	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)]	[1]	
<i>Comments: Please adjust NSAMP to fill time allocated to orbit</i>										



Proposal 11799 - Visit 06 - NICMOS non-linearity calibration for faint objects

Sat Oct 10 01:06:18 GMT 2009

Visit	Proposal 11799, Visit 06, completed Diagnostic Status: Warning Scientific Instruments: NIC2 Special Requirements: (none)									
	(Visit 06) Warning (Orbit Planner): GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE (Exposure 1 (Pattern 1, Exps 1-1) special requirements) Warning (Form): The specified GS Acq Scenario is not in the current list of valid scenarios.									
Patterns	#	Primary Pattern		Secondary Pattern	Exposures					
	(1)	Pattern Type=NIC-SPIRAL-DITH Purpose=DITHER Number Of Points=7 Point Spacing=1.5375 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false		(1)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	RDCS1252-2	RA: 12 52 54.7536 (193.2281400d) Dec: -29 27 19.44 (-29.45540d) Equinox: J2000		V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(8) RDCS1252-2	NIC2, MULTIACCUM, NIC2	F110W	SAMP-SEQ=SPARS 16; NSAMP=24	GS ACQ SCENARI O BASE1T3	Pattern 1, Exps 1-1 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)] [==>(Pattern 7)]	[1]	
Comments: Please adjust NSAMP to fill time allocated to orbit										



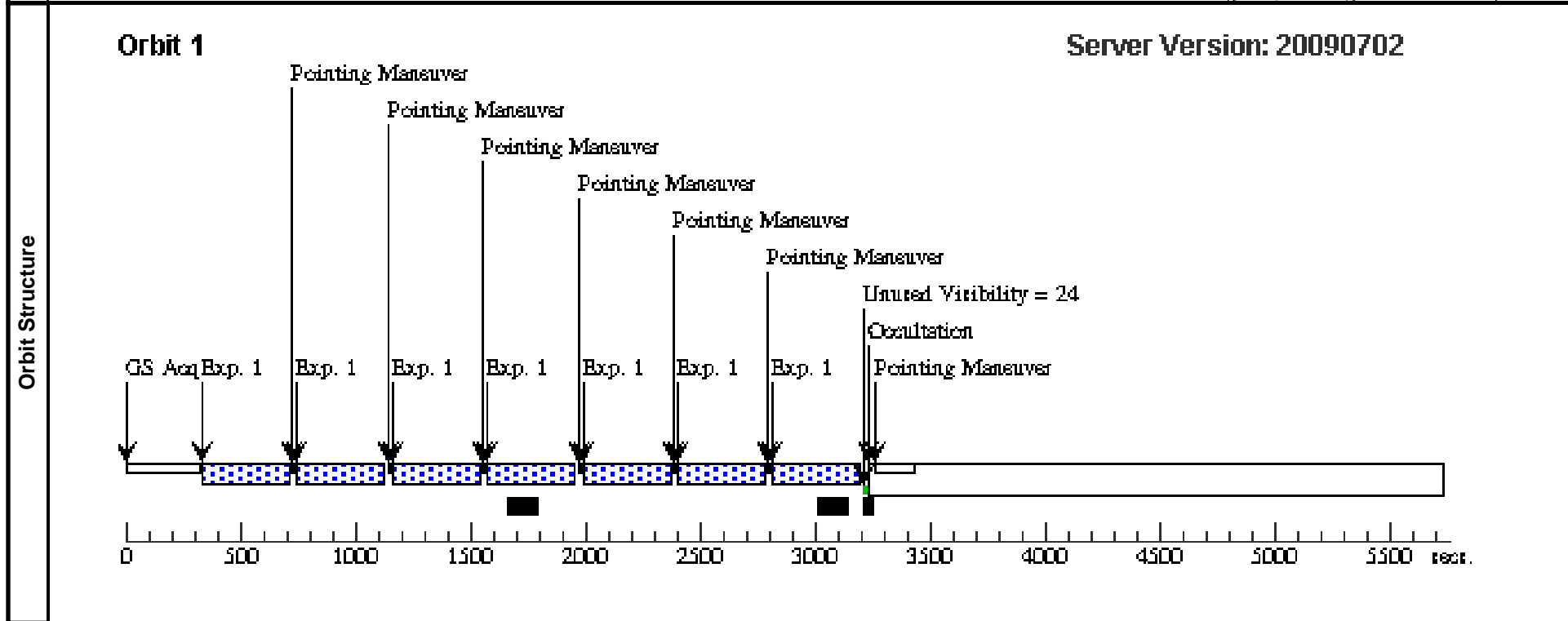
Proposal 11799 - Visit 10 - NICMOS non-linearity calibration for faint objects

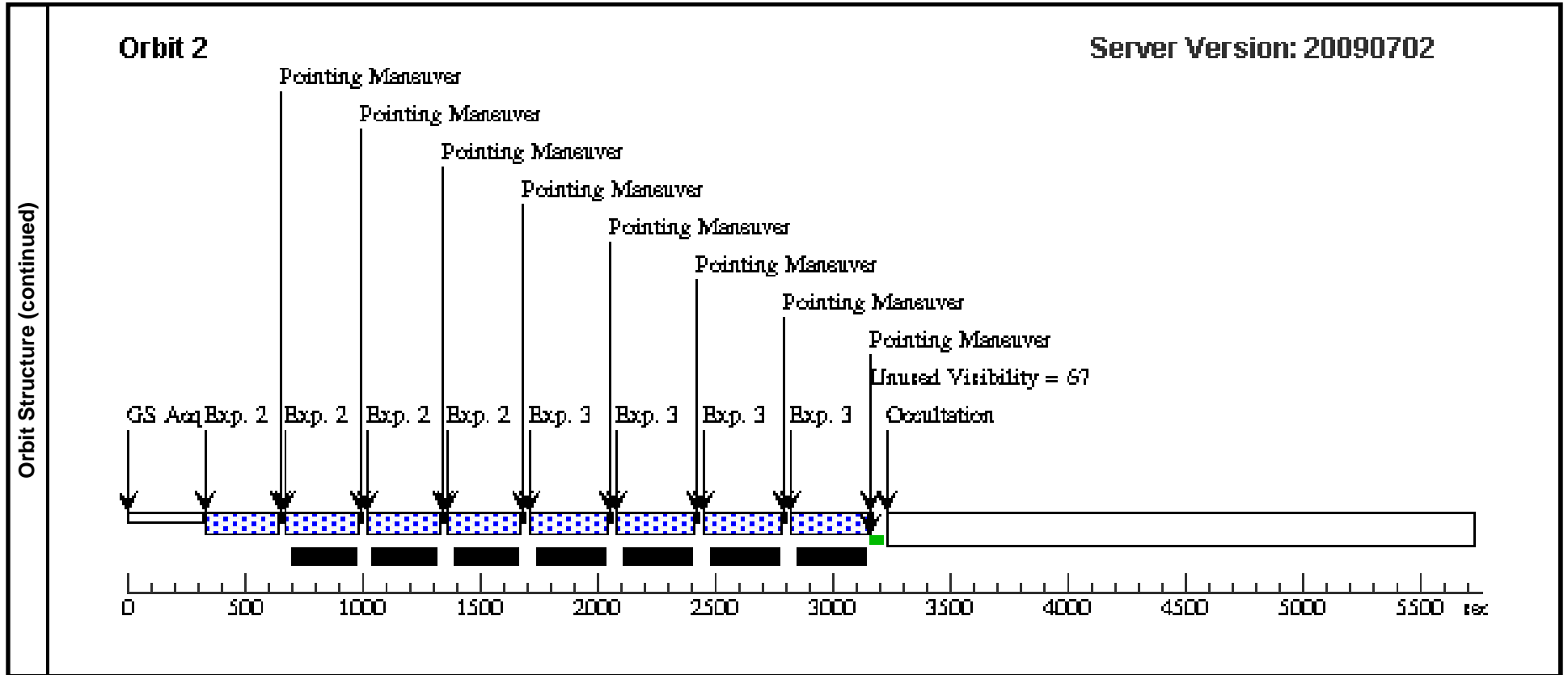
Sat Oct 10 01:06:18 GMT 2009

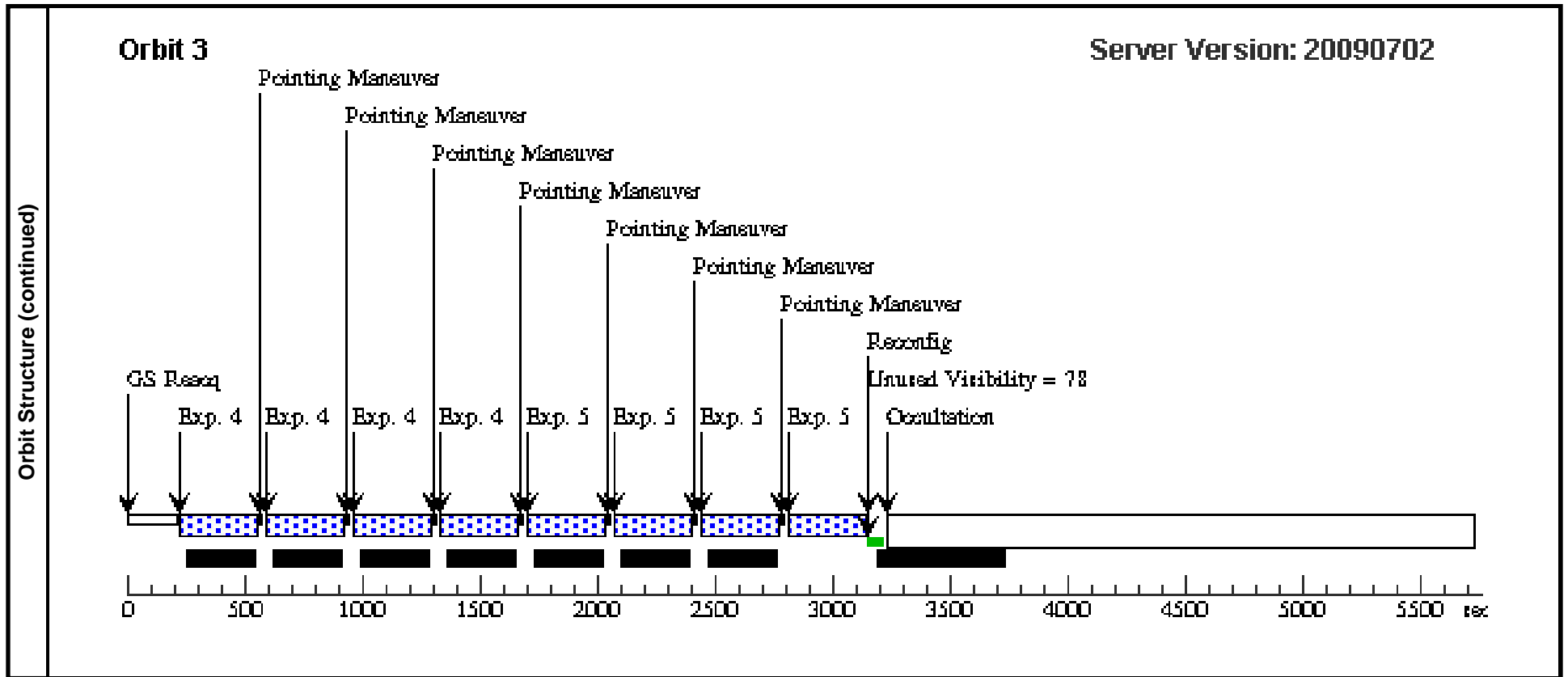
Visit	Proposal 11799, Visit 10, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, NIC2 Special Requirements: GYRO MODE 3GOBAD									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=NIC-SPIRAL-DITH Purpose=DITHER Number Of Points=7 Point Spacing=1.5375 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false					(1)	
	(2)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=4.576 Line Spacing=2.92	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false					(2), (3), (4), (5)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	XMM1229	RA: 12 29 28.1736 (187.3673900d) Dec: +01 52 8.98 (1.86916d) Equinox: J2000		V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(9) XMM1229	NIC2, MULTIACCUM, NIC2	F110W	SAMP-SEQ=SPARS 16; NSAMP=25		Pattern 1, Exps 1-1 (1)	[=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)] [=>(Pattern 7)]	[1]
<i>Comments: Please adjust NSAMP to fill time allocated to orbit</i>										
	2		(9) XMM1229	WFC3/IR, MULTIACCUM, IR	F110W	SAMP-SEQ=SPARS 25; NSAMP=12		Pattern 2, Exps 2-2 (2)	[=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]

Proposal 11799 - Visit 10 - NICMOS non-linearity calibration for faint objects

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
Exposures (continued)	3	(9) XMM1229	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-3 (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]	
	<i>Comments: Please adjust NSAMP to fill time allocated to orbit</i>									
	4	(9) XMM1229	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 4-4 (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]	
5	(9) XMM1229	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 5-5 (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]		



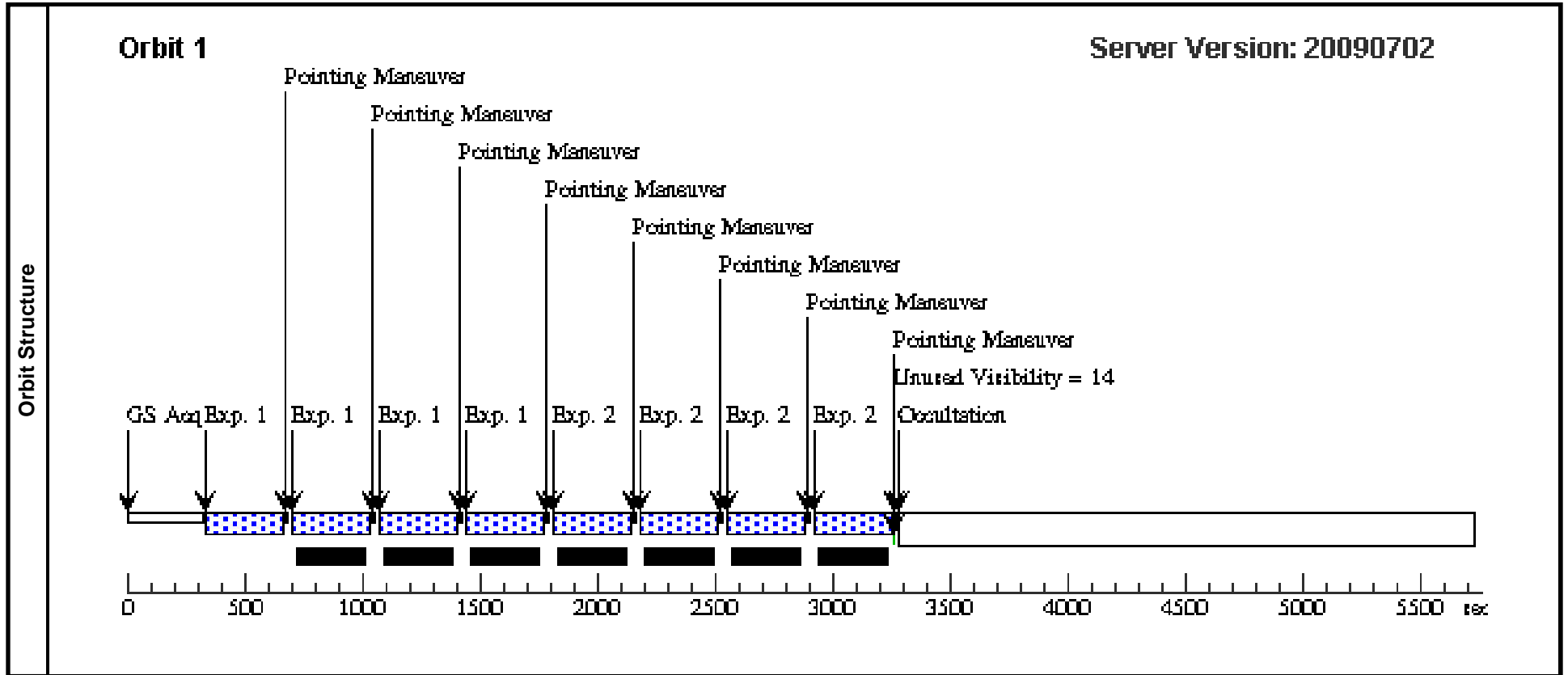


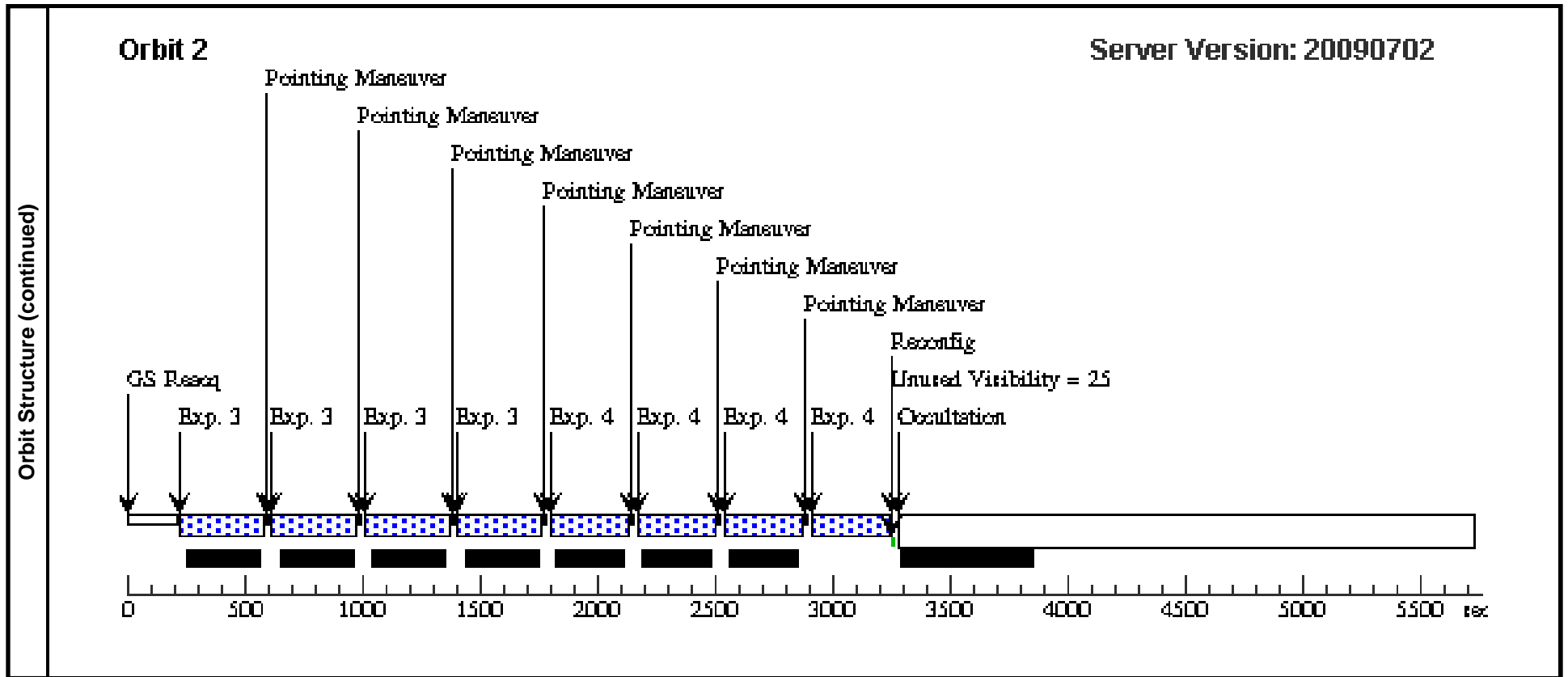


Proposal 11799 - Visit 11 - NICMOS non-linearity calibration for faint objects

Sat Oct 10 01:06:19 GMT 2009

Visit	Proposal 11799, Visit 11, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: GYRO MODE 3GOBAD										
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(2)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=4.576 Line Spacing=2.92	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1), (2), (3), (4)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(10)	SCPSNH5	RA: 14 34 30.1000 (218.6254167d) Dec: +34 26 57.30 (34.44925d) Equinox: J2000		V=25	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(10) SCPSNH5	WFC3/IR, MULTIACCUM, IR	F110W	SAMP-SEQ=SPARS 25; NSAMP=13		Pattern 2, Exps 1-1 (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	2		(10) SCPSNH5	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 2-2 (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	<i>Comments: Please adjust NSAMP to fill time allocated to orbit</i>										
	3		(10) SCPSNH5	WFC3/IR, MULTIACCUM, IR	F125W		NSAMP=14; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-3 (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
4		(10) SCPSNH5	WFC3/IR, MULTIACCUM, IR	F160W		NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 4-4 (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]	

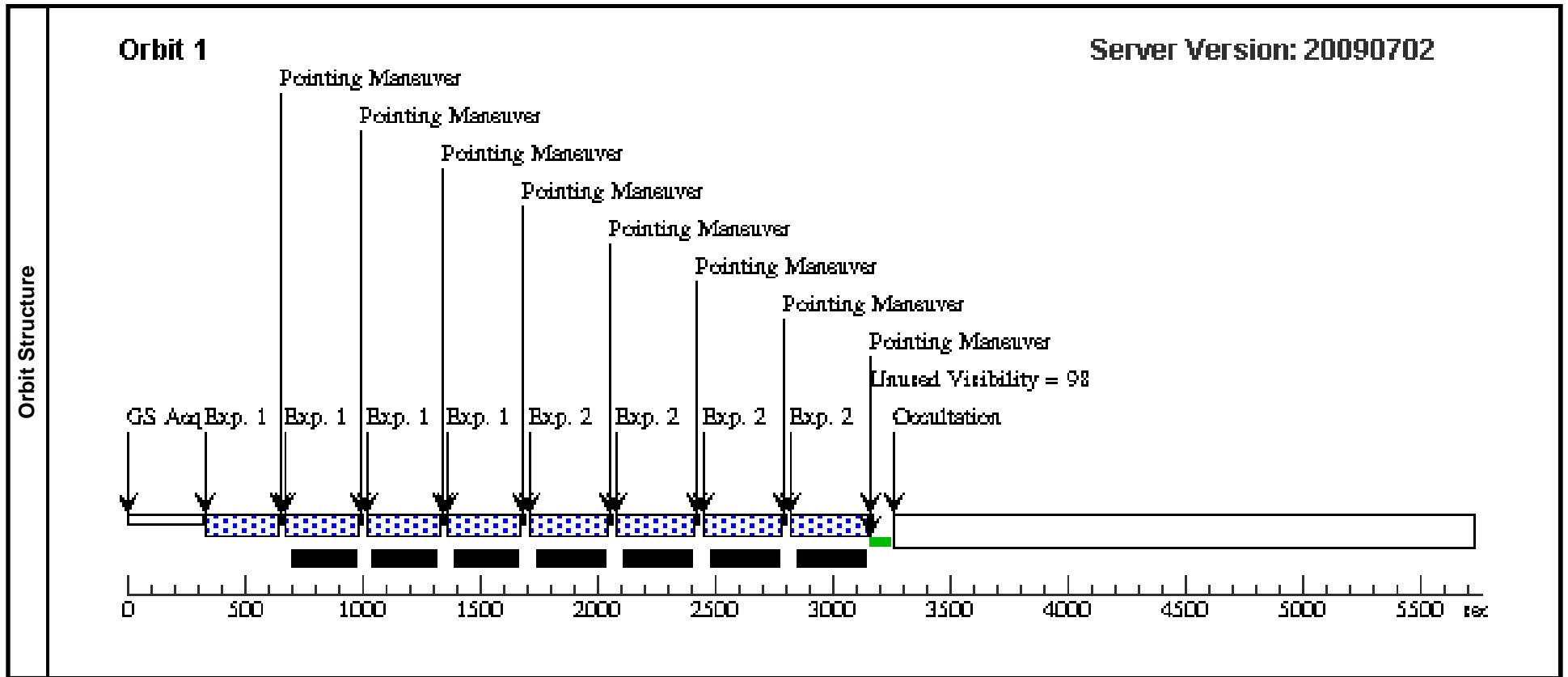


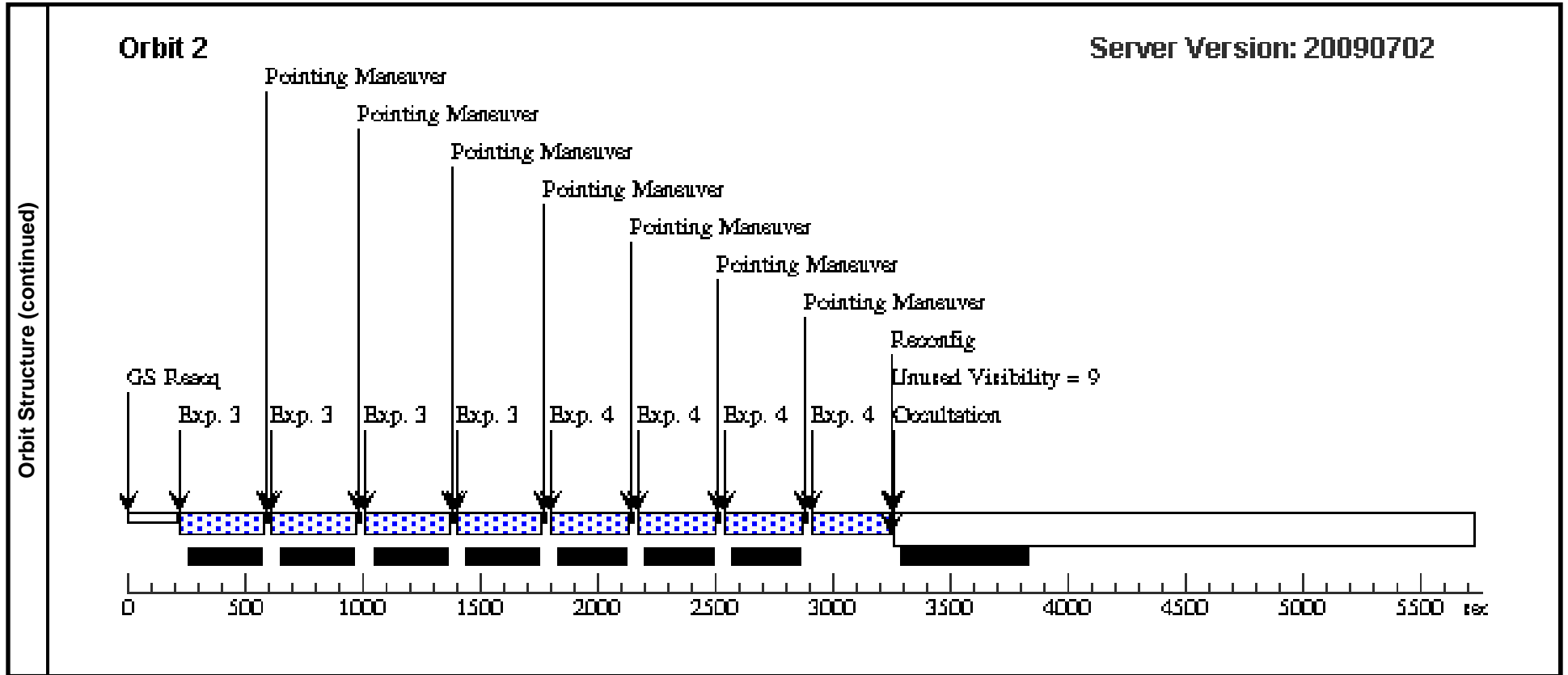


Proposal 11799 - Visit 12 - NICMOS non-linearity calibration for faint objects

Sat Oct 10 01:06:20 GMT 2009

Visit	Proposal 11799, Visit 12, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: GYRO MODE 3GOBAD										
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures		
		(2)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=4.576 Line Spacing=2.92	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false					(1), (2), (3), (4)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(11)	XMM2235-WFC3	RA: 22 35 21.5000 (338.8395833d) Dec: -25 57 25.00 (-25.95694d) Equinox: J2000		V=25	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(11) XMM2235-WF C3	WFC3/IR, MULTIACCUM, IR	F110W	SAMP-SEQ=SPARS 25; NSAMP=12		Pattern 2, Exps 1-1 (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	2		(11) XMM2235-WF C3	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 2-2 (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	<i>Comments: Please adjust NSAMP to fill time allocated to orbit</i>										
	3		(11) XMM2235-WF C3	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=14; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-3 (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]	
4		(11) XMM2235-WF C3	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 4-4 (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]		





Proposal 11799 - Visit 13 - NICMOS non-linearity calibration for faint objects

Sat Oct 10 01:06:21 GMT 2009

Visit	Proposal 11799, Visit 13, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: GYRO MODE 3GOBAD										
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures		
		(2)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=4.576 Line Spacing=2.92	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false					(1), (2), (3), (4)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(12)	RDCS1252-WFC3	RA: 12 52 54.4000 (193.2266667d) Dec: -29 27 15.00 (-29.45417d) Equinox: J2000		V=25	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(12) RDCS1252-WF C3	WFC3/IR, MULTIACCUM, IR	F110W	SAMP-SEQ=SPARS 25; NSAMP=12		Pattern 2, Exps 1-1 (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	2		(12) RDCS1252-WF C3	WFC3/IR, MULTIACCUM, IR	F105W	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 2-2 (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]	
	<i>Comments: Please adjust NSAMP to fill time allocated to orbit</i>										
	3		(12) RDCS1252-WF C3	WFC3/IR, MULTIACCUM, IR	F125W	NSAMP=14; SAMP-SEQ=SPAR S25		Pattern 2, Exps 3-3 (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]	
4		(12) RDCS1252-WF C3	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=13; SAMP-SEQ=SPAR S25		Pattern 2, Exps 4-4 (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]		

