



11339 - A deep observation of NGC4261: understanding its unique X-ray source population, gas morphology, and jet properties

Cycle: 16, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) NGC-4261-WFPC2-MOSAIC-CENTER	WFPC2	3	22-Feb-2008 21:02:01.0	yes
02	(1) NGC-4261-WFPC2-MOSAIC-CENTER	WFPC2	3	22-Feb-2008 21:02:10.0	yes
03	(1) NGC-4261-WFPC2-MOSAIC-CENTER	WFPC2	3	22-Feb-2008 21:02:17.0	yes
13	(1) NGC-4261-WFPC2-MOSAIC-CENTER	WFPC2	1	22-Feb-2008 21:02:24.0	yes

10 Total Orbits Used

ABSTRACT

The nearby early-type galaxy NGC4261 reveals strikingly asymmetric distributions of X-ray sources as seen with Chandra, and globular clusters (GC) as seen in the optical band. To address the link between these populations based on their spatial correlation, luminosity function and spectral properties, and to investigate the possibility that this effect is due to the galaxy's merger history, we propose a 100ksec Chandra ACIS-S3 exposure, which will detect X-ray sources down to typical LMXB luminosities ($L_x \sim 5E37$ erg/s), and HST-WFPC2 observations to obtain a deep census of the GC population over the whole galaxy. These data will also allow a detailed study of its complex gaseous component, and provide information on the unique two-sided X-ray jet.

OBSERVING DESCRIPTION

The goal of this program is the study of the globular cluster population in the nearby elliptical galaxy NGC4261.

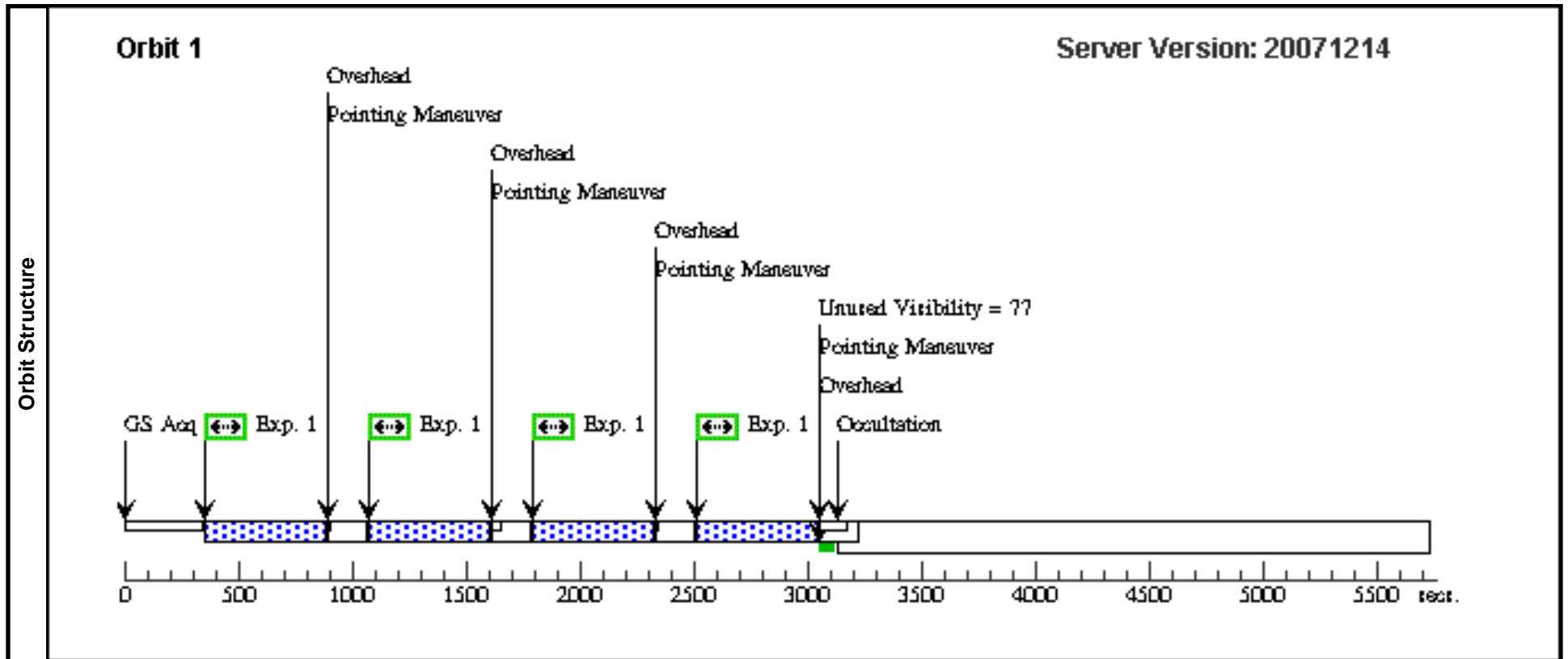
In order to cover the D25 area of the galaxy we observe 6 fields with a 2-point dither pattern. In order to ensure uniform coverage we request for the observations to be performed with the same orientation (as was specified in the proposal). The selected orientation gives the maximum visibility during the observing period. Instead of defining new targets we apply POS-TARG offsets with respect to the nucleus of the galaxy.

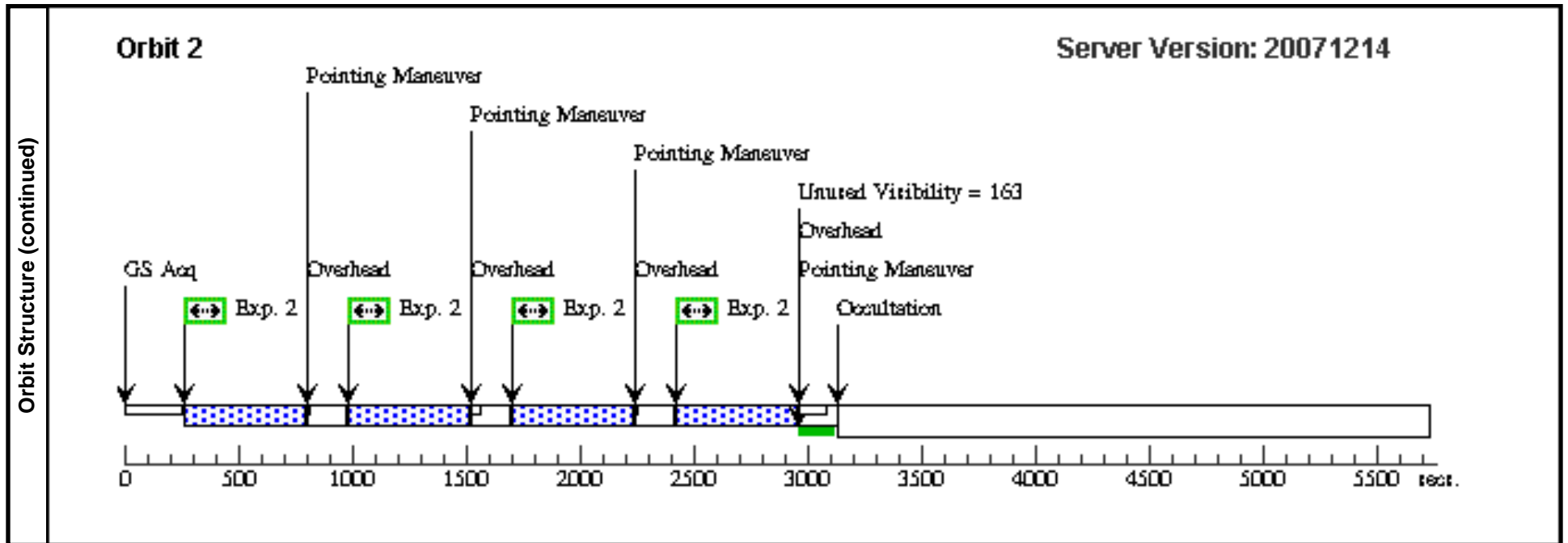
The exposure in each position is 800sec for each of the F450W, F606W and F814W filters.

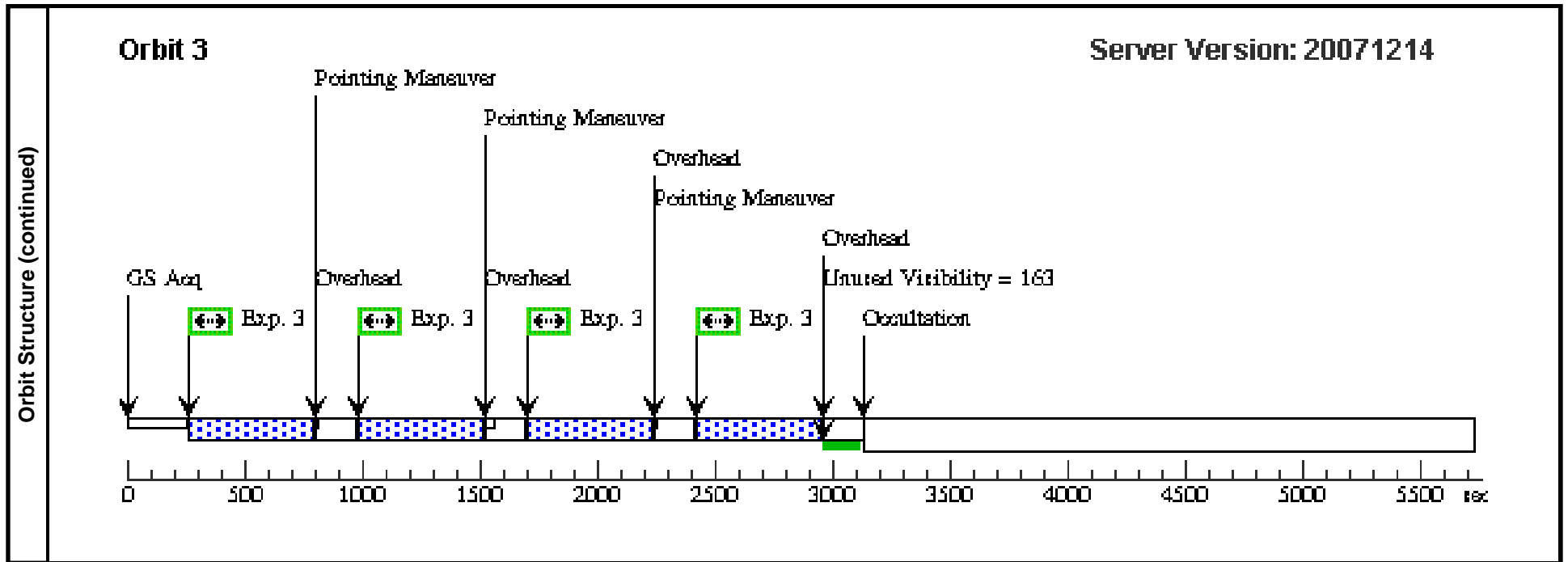
Proposal 11339 - Visit 01 - A deep observation of NGC4261: understanding its unique X-ray source population, gas morp...

Sat Feb 23 02:02:27 GMT 2008

Visit		Proposal 11339, Visit 01, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: ORIENT 280.0D TO 295.0 D; ORIENT 0.0D TO 0.0 D								
Patterns	#	Primary Pattern		Secondary Pattern		Exposures				
	(2)	Pattern Type=LINE Purpose=MOSAIC Number Of Points=2 Point Spacing=95.0 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false	Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.3535 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45.0 Angle Between Sides= Center Pattern=false	(1), (2), (3)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-4261-WFPC2-MOSAIC-CENTER	RA: 12 19 23.2000 (184.8466667d) Dec: +05 49 31.00 (5.82528d) Equinox: J2000		V=11.41	Reference Frame: NED				
<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		(1) NGC-4261-WFPC2-MOSAIC-CENTER	WFPC2, IMAGE, WF3-FIX	F606W	CR-SPLIT=NO; ATD-GAIN=7	POS TARG 25.0,-10 5.0	Pattern 1-1 (2)	400.0 Secs	
									[=>(Pattern 1,1)] [=>(Pattern 1,2)] [=>(Pattern 2,1)] [=>(Pattern 2,2)]	[1]
	2		(1) NGC-4261-WFPC2-MOSAIC-CENTER	WFPC2, IMAGE, WF3-FIX	F606W	CR-SPLIT=NO; ATD-GAIN=7	GS ACQ SCENARI O SINGLE	Pattern 2-2 (2)	400.0 Secs	
								[=>(Pattern 1,1)] [=>(Pattern 1,2)] [=>(Pattern 2,1)] [=>(Pattern 2,2)]	[2]	
3		(1) NGC-4261-WFPC2-MOSAIC-CENTER	WFPC2, IMAGE, WF3-FIX	F606W	CR-SPLIT=NO; ATD-GAIN=7	POS TARG -30.0,10 5.0; GS ACQ SCENARI O SINGLE	Pattern 3-3 (2)	400.0 Secs		
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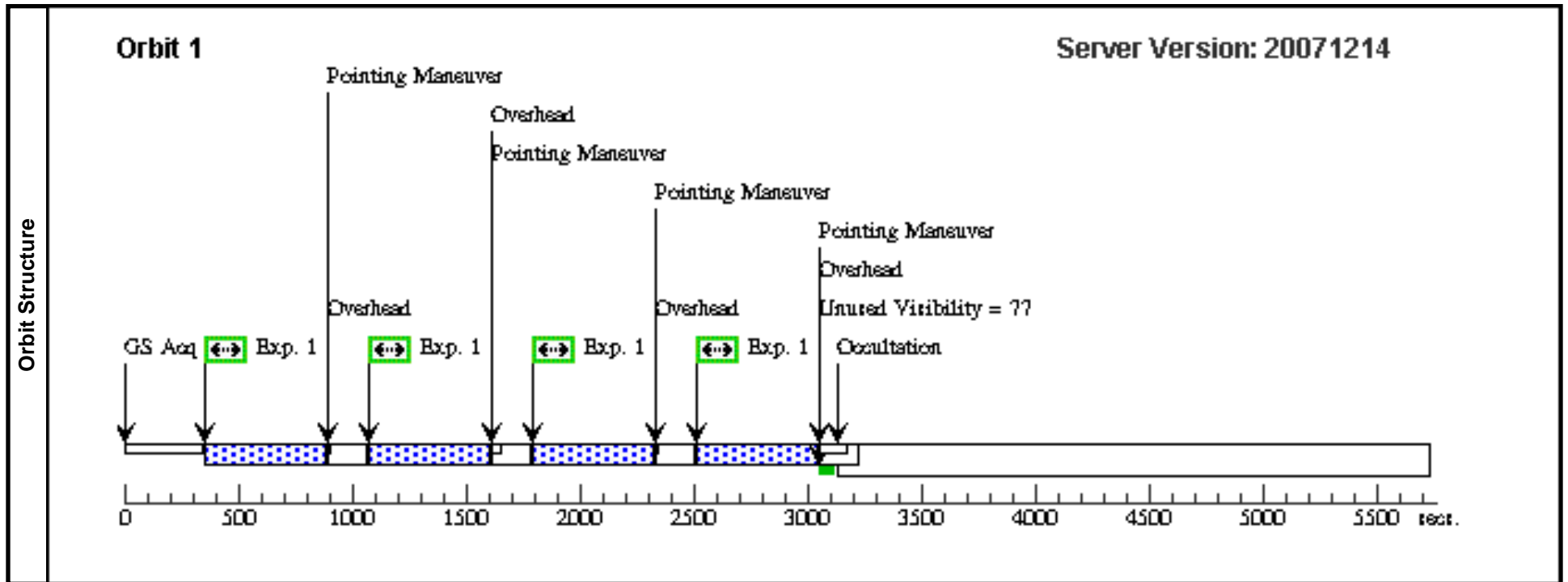


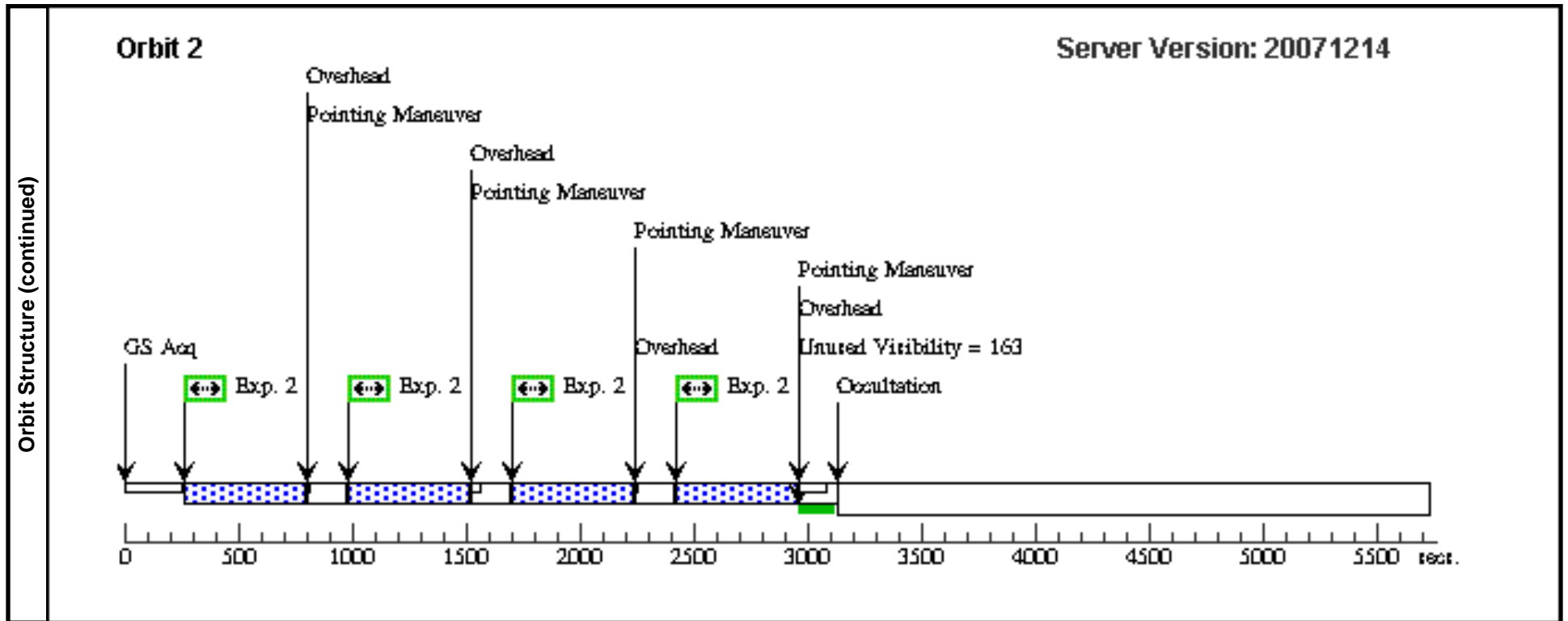


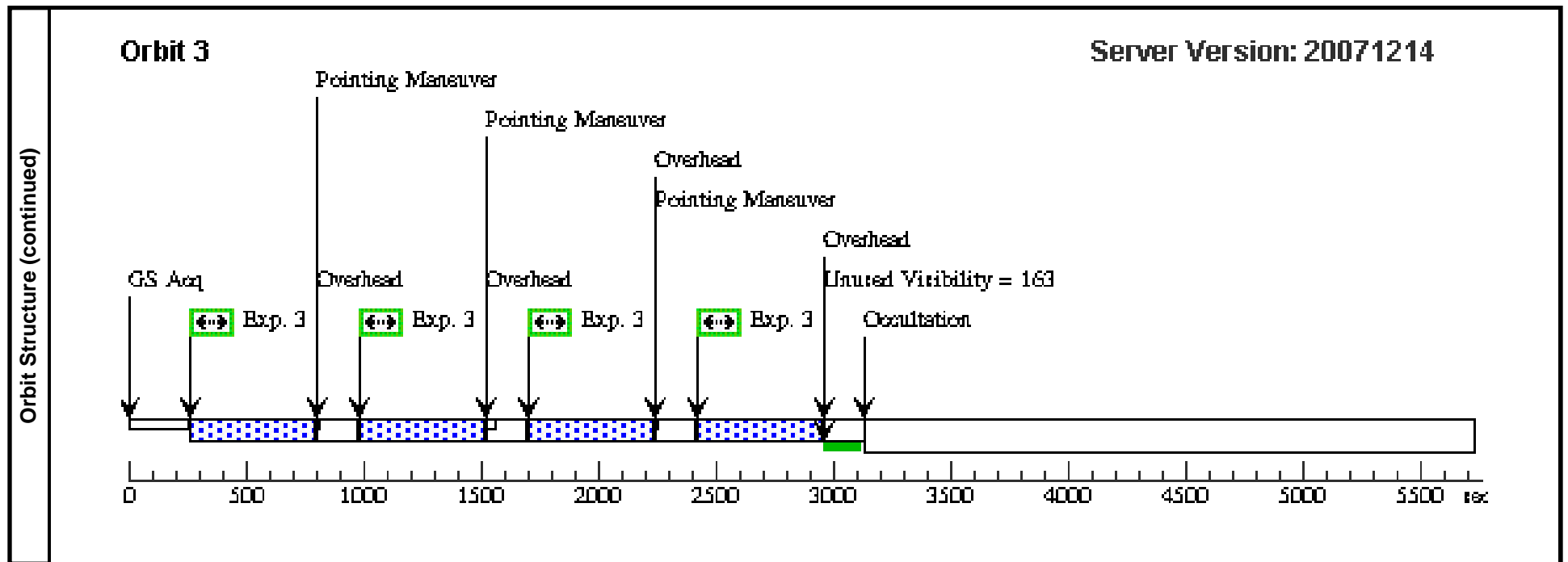
Proposal 11339 - Visit 02 - A deep observation of NGC4261: understanding its unique X-ray source population, gas morp...

Sat Feb 23 02:02:28 GMT 2008

Visit		Proposal 11339, Visit 02, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: ORIENT 280.0D TO 295.0 D; ORIENT 0.0D TO 0.0 D								
Patterns	#	Primary Pattern		Secondary Pattern		Exposures				
	(2)	Pattern Type=LINE Purpose=MOSAIC Number Of Points=2 Point Spacing=95.0 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false	Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.3535 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45.0 Angle Between Sides= Center Pattern=false	(1), (2), (3)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-4261-WFPC2-MOSAIC-CENTER	RA: 12 19 23.2000 (184.8466667d) Dec: +05 49 31.00 (5.82528d) Equinox: J2000		V=11.41	Reference Frame: NED				
<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		(1) NGC-4261-WFPC2-MOSAIC-CENTER	WFPC2, IMAGE, WF3-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=7	POS TARG 25.0,-10 5.0	Pattern 1-1 (2)	400.0 Secs	
									[=>(Pattern 1,1)] [=>(Pattern 1,2)] [=>(Pattern 2,1)] [=>(Pattern 2,2)]	[1]
	2		(1) NGC-4261-WFPC2-MOSAIC-CENTER	WFPC2, IMAGE, WF3-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=7	GS ACQ SCENARI O SINGLE	Pattern 2-2 (2)	400.0 Secs	
								[=>(Pattern 1,1)] [=>(Pattern 1,2)] [=>(Pattern 2,1)] [=>(Pattern 2,2)]	[2]	
3		(1) NGC-4261-WFPC2-MOSAIC-CENTER	WFPC2, IMAGE, WF3-FIX	F450W	CR-SPLIT=NO; ATD-GAIN=7	POS TARG -30.0,10 5.0; GS ACQ SCENARI O SINGLE	Pattern 3-3 (2)	400.0 Secs		
								[=>(Pattern 1,1)] [=>(Pattern 1,2)] [=>(Pattern 2,1)] [=>(Pattern 2,2)]	[3]	



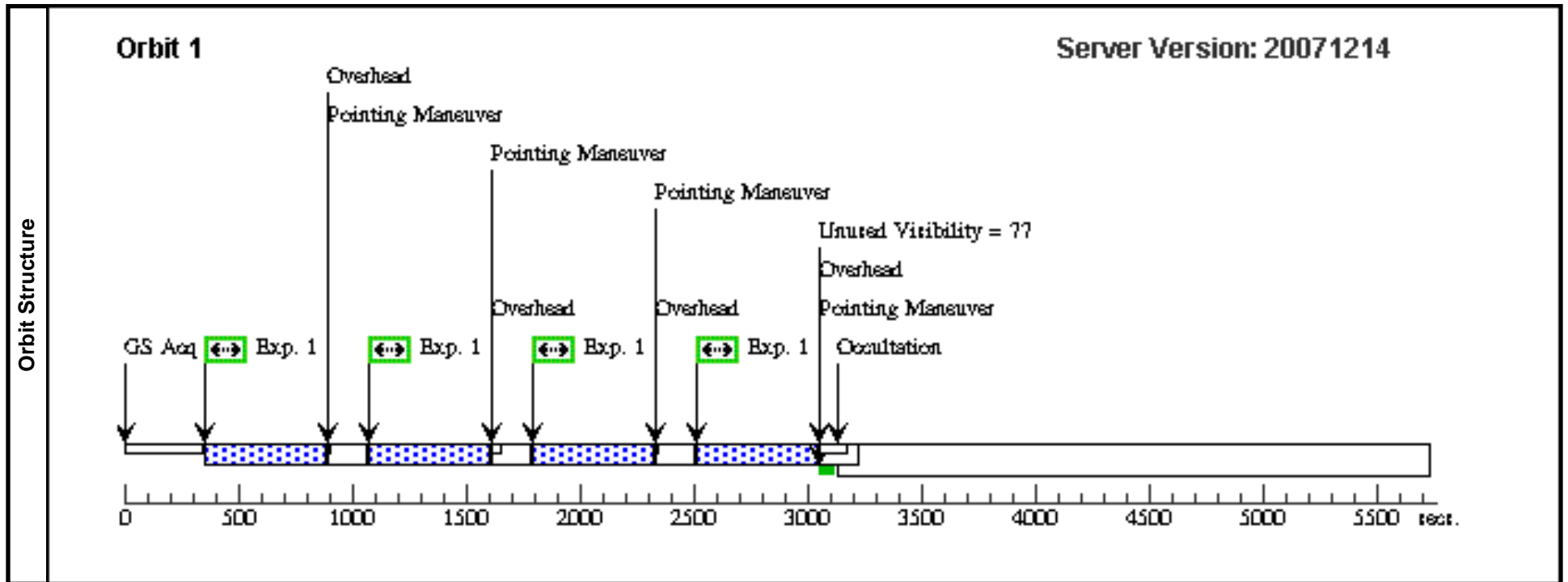


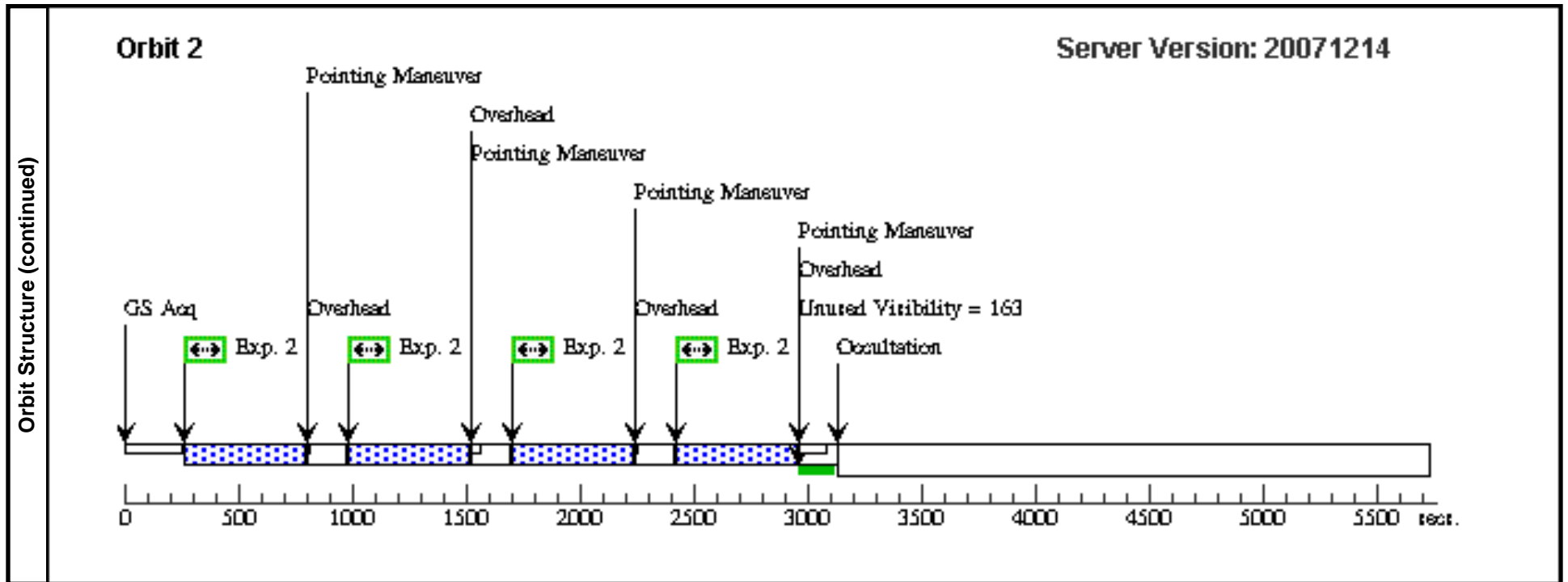


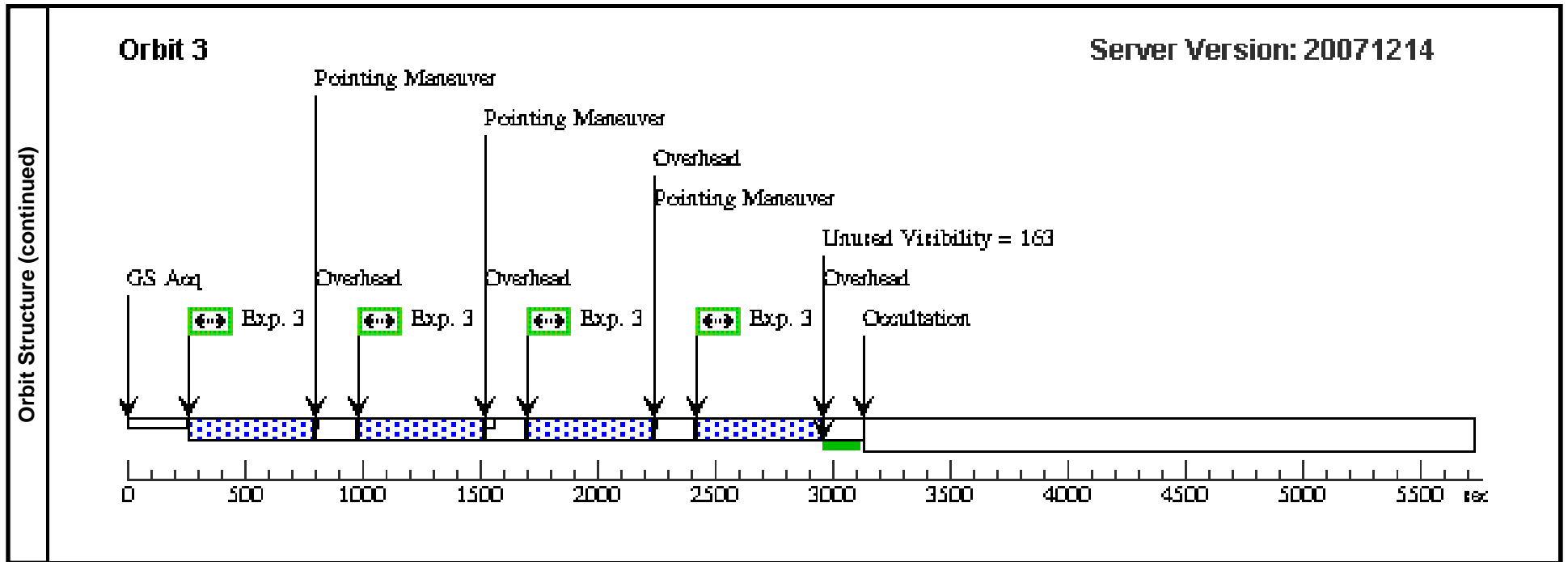
Proposal 11339 - Visit 03 - A deep observation of NGC4261: understanding its unique X-ray source population, gas morp...

Sat Feb 23 02:02:28 GMT 2008

Visit	Proposal 11339, Visit 03, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: ORIENT 280.0D TO 295.0 D; ORIENT 0.0D TO 0.0 D									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(2)	Pattern Type=LINE Purpose=MOSAIC Number Of Points=2 Point Spacing=95.0 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false	Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.3535 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45.0 Angle Between Sides= Center Pattern=false	(1), (2), (3)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-4261-WFPC2-MOSAIC-CENTER	RA: 12 19 23.2000 (184.8466667d) Dec: +05 49 31.00 (5.82528d) Equinox: J2000		V=11.41	Reference Frame: NED				
<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		(1) NGC-4261-WFPC2-MOSAIC-CENTER	WFPC2, IMAGE, WF3-FIX	F814W	CR-SPLIT=NO; ATD-GAIN=7	POS TARG 25.0,-10 5.0	Pattern 1-1 (2)	400.0 Secs	
									[=>(Pattern 1,1)] [=>(Pattern 1,2)] [=>(Pattern 2,1)] [=>(Pattern 2,2)]	[1]
	2		(1) NGC-4261-WFPC2-MOSAIC-CENTER	WFPC2, IMAGE, WF3-FIX	F814W	CR-SPLIT=NO; ATD-GAIN=7	GS ACQ SCENARI O SINGLE	Pattern 2-2 (2)	400.0 Secs	
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3		(1) NGC-4261-WFPC2-MOSAIC-CENTER	WFPC2, IMAGE, WF3-FIX	F814W	CR-SPLIT=NO; ATD-GAIN=7	POS TARG -30.0,10 5.0; GS ACQ SCENARI O SINGLE	Pattern 3-3 (2)	400.0 Secs		
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Proposal 11339 - Visit 13 - A deep observation of NGC4261: understanding its unique X-ray source population, gas morp...

Sat Feb 23 02:02:29 GMT 2008

Visit	Proposal 11339, Visit 13 Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: ORIENT 280.0D TO 295.0 D; ORIENT 0.0D TO 0.0 D									
	Patterns	#	Primary Pattern				Secondary Pattern			
(2)		Pattern Type=LINE Purpose=MOSAIC Number Of Points=2 Point Spacing=95.0 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0.0 Angle Between Sides= Center Pattern=false	Pattern Type=WFPC2-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.3535 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=45.0 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-4261-WFPC2-MOSAIC-CENTER	RA: 12 19 23.2000 (184.8466667d) Dec: +05 49 31.00 (5.82528d) Equinox: J2000		V=11.41	Reference Frame: NED				
<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		(1) NGC-4261-WFP C2-MOSAIC-CENT ER	WFPC2, IMAGE, WF3-FIX	F814W	CR-SPLIT=NO; ATD-GAIN=7	GS ACQ SCENARI O SINGLE	Pattern 1-1 (2)	400.0 Secs [=>(Pattern 1,1)] [=>(Pattern 1,2)] [=>(Pattern 2,1)] [=>(Pattern 2,2)]	[1]

