



12202 - Wide-Field Hubble Observations of NGC 1023: Testing the Origin of Low-Mass X-ray Binaries in a Lenticular Galaxy

Cycle: 18, 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-1023	ACS/WFC	1	06-Jan-2012 21:01:15.0	yes
02	(1) NGC-1023	ACS/WFC	1	06-Jan-2012 21:01:21.0	yes
03	(1) NGC-1023	ACS/WFC	1	06-Jan-2012 21:01:26.0	yes
04	(1) NGC-1023	ACS/WFC	1	06-Jan-2012 21:01:30.0	yes
05	(1) NGC-1023	ACS/WFC	1	06-Jan-2012 21:01:34.0	yes
06	(1) NGC-1023	ACS/WFC	1	06-Jan-2012 21:01:37.0	yes
07	(1) NGC-1023	ACS/WFC	1	06-Jan-2012 21:01:41.0	yes
08	(1) NGC-1023	ACS/WFC	1	06-Jan-2012 21:01:45.0	yes
58	(1) NGC-1023	ACS/WFC	1	06-Jan-2012 21:01:49.0	yes

9 Total Orbits Used

ABSTRACT

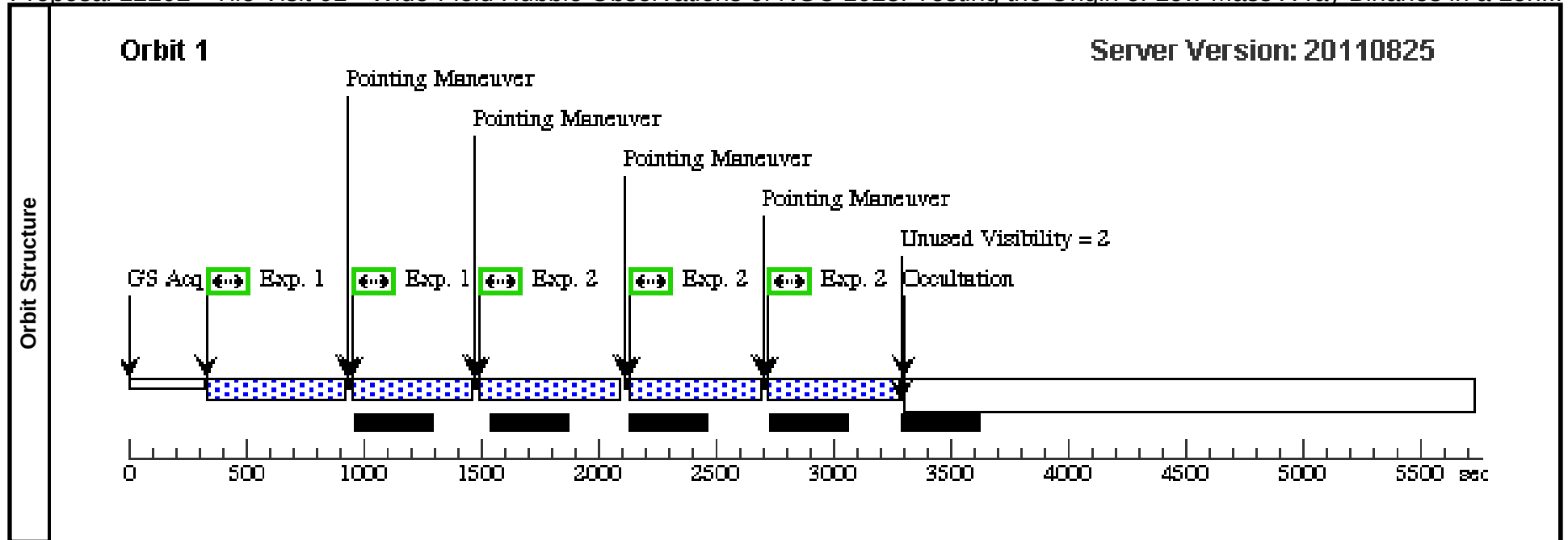
Extragalactic low-mass X-ray binaries (LMXBs) can constrain galaxy histories, but we must first understand whether LMXBs present in the fields of galaxies were formed primordially in situ or dynamically in globular clusters (GCs). We propose 8 orbits of HST-ACS on NGC1023, one of the nearest, massive lenticular galaxies, which will complement 192 ks of ACIS-S observations. We will detect ~ 70 Field-LMXBs and ~ 400 stellar clusters. Our comparison of the spatial distributions of field-LMXBs, GCs, and field stars in NGC1023 will constrain the origin of field LMXBs. Our observations will also perform the most complete census of diffuse star clusters (DSCs) to date. By probing the connection of DSCs to LMXBs, we will also test the dynamical formation model of LMXBs in stellar clusters.

OBSERVING DESCRIPTION

ACS/WFC observations will be used to characterize globular clusters (GCs) and diffuse stellar clusters, and to identify objects unrelated to NGC 1023. Combined with Chandra observations, we will compare the spatial distributions of low-mass X-ray binaries (LMXBs), GCs, and field stars in NGC1023 and constrain the origin of LMXBs that appear in the field of the galaxy. We will perform an 8 pointing mosaic to provide complete coverage of NGC 1023 beyond the isophotal $K_s = 20$ mag arcsec⁻² surface. For the two pointings covering the central field, we will observe in F475W for 776s total exposure and in F850LP for 1226s total exposure using 2-point hot-pixel dither patterns plus a 90s exposure to avoid saturation at the galaxy center. For the remaining pointings, we will combine F475W observations for 768s total exposure using a 2-point hot-pixel dither pattern and F850LP observations for 1308s total exposure using a 3-point hot-pixel dither pattern. Our chosen dither patterns optimize the rejection of hot pixels and cosmic rays while maximizing total exposure time. NGC 1023 is schedulable for ~ 25 days.

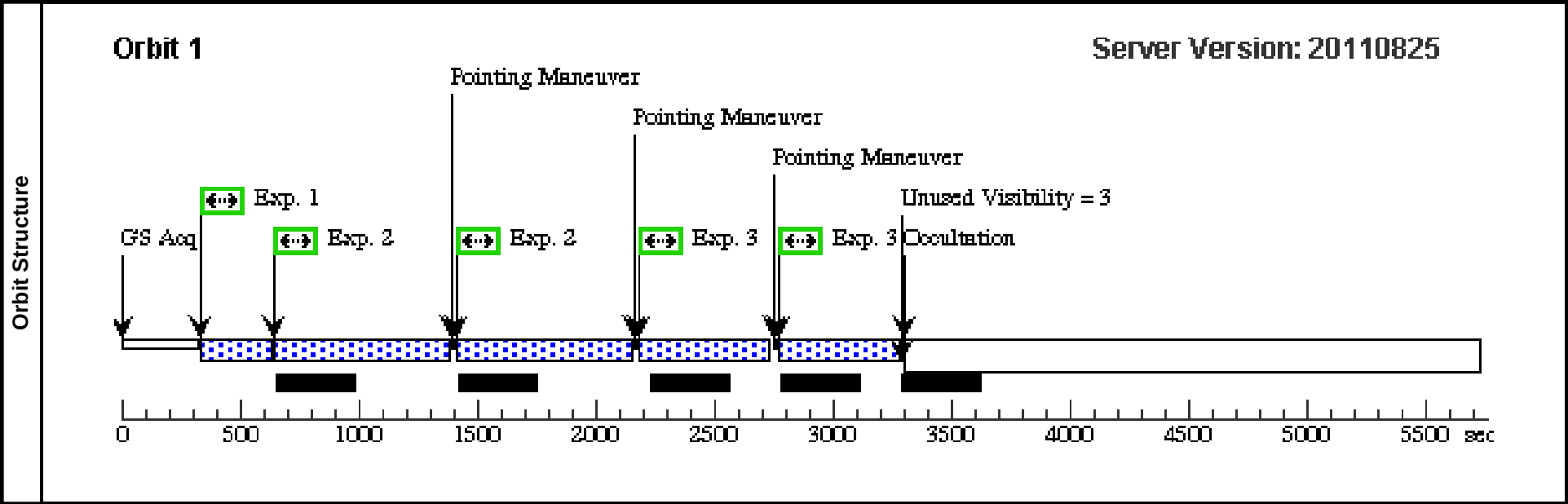
Proposal 12202 - Tile Visit 01 - Wide-Field Hubble Observations of NGC 1023: Testing the Origin of Low-Mass X-ray Binaries in a Len...

Visit	Proposal 12202, Tile Visit 01, completed Sat Jan 07 02:01:54 GMT 2012									
	Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: ORIENT 218.0D TO 222.0 D; ORIENT 38.0D TO 42.0 D									
Diagnostics	(Tile Visit 01) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE									
	(Tile Visit 01) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=47.23 Angle Between Sides= Center Pattern=false							(1)	
	(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=47.23 Angle Between Sides= Center Pattern=false							(2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(1)	NGC-1023	RA: 02 40 24.0125 (40.1000521d) Dec: +39 03 47.70 (39.06325d) Equinox: J2000				V=(?) V=22.9, magnitude is that of a typical globular cluster in NGC 1023		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	NGC1023_F 475W_M1	(1) NGC-1023	ACS/WFC, ACCUM, WFCENTER	F475W	CR-SPLIT=NO	POS TARG -149.24 717562581924,36.87 92688006107	Pattern 1, Exps 1-1 in Tile Visit 01 (1)	384.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	NGC1023_F 850LP_M1	(1) NGC-1023	ACS/WFC, ACCUM, WFCENTER	F850LP	CR-SPLIT=NO	POS TARG -149.24 717562581924,36.87 92688006107	Pattern 2, Exps 2-2 in Tile Visit 01 (2)	436.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]



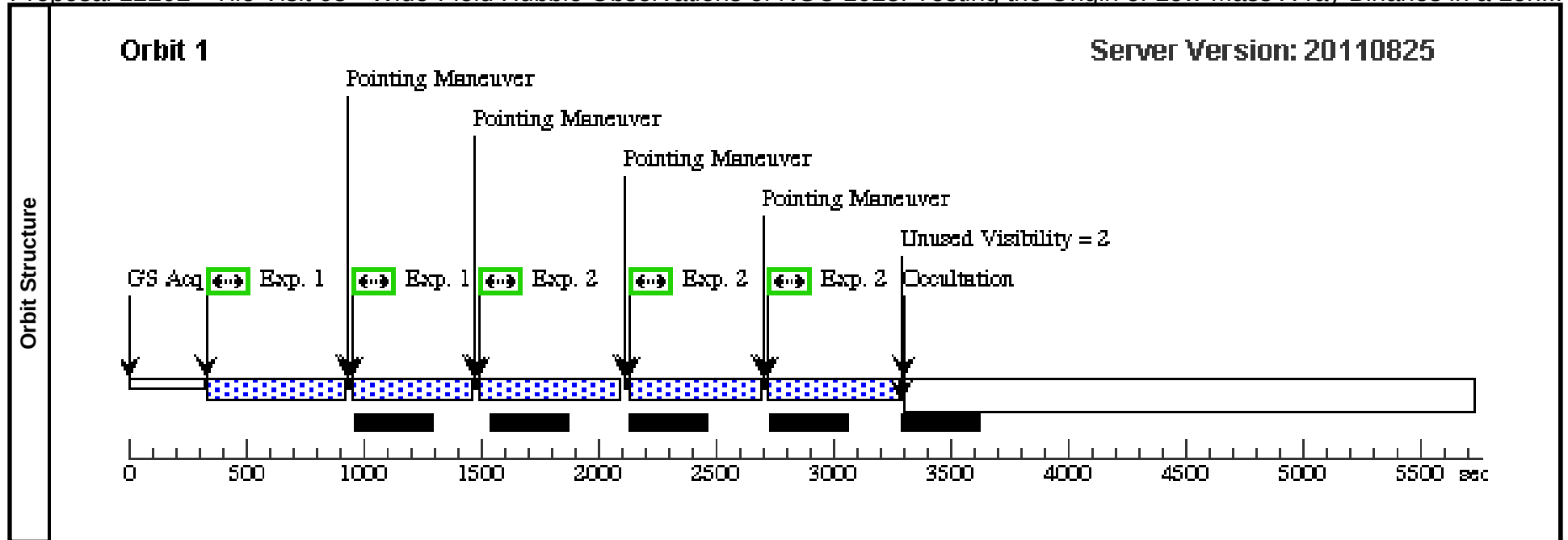
Proposal 12202 - Tile Visit 02 - Wide-Field Hubble Observations of NGC 1023: Testing the Origin of Low-Mass X-ray Binaries in a Len...

Visit	Proposal 12202, Tile Visit 02, completed Sat Jan 07 02:01:55 GMT 2012									
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 01									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=ACS-WFC-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=				Coordinate Frame=POS-TARG Pattern Orientation=47.23 Angle Between Sides= Center Pattern=false			(2), (3)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(1)	NGC-1023	RA: 02 40 24.0125 (40.1000521d) Dec: +39 03 47.70 (39.06325d) Equinox: J2000				V=(?) V=22.9, magnitude is that of a typical glo bular cluster in NGC 1023		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	NGC1023_F 850LP_M2	(1) NGC-1023	ACS/WFC, ACCUM, WFCENTER	F850LP		POS TARG -49.177 2991027684,-53.224 05273312974		90 Secs [==>]	
	2	NGC1023_F 850LP_M2	(1) NGC-1023	ACS/WFC, ACCUM, WFCENTER	F850LP	CR-SPLIT=NO	POS TARG -49.177 2991027684,-53.224 05273312974	Pattern 1, Exps 2-2 i n Tile Visit 02 (1)	613 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	NGC1023_F 475W_M2	(1) NGC-1023	ACS/WFC, ACCUM, WFCENTER	F475W	CR-SPLIT=NO	POS TARG -49.177 2991027684,-53.224 05273312974	Pattern 1, Exps 3-3 i n Tile Visit 02 (1)	388 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]



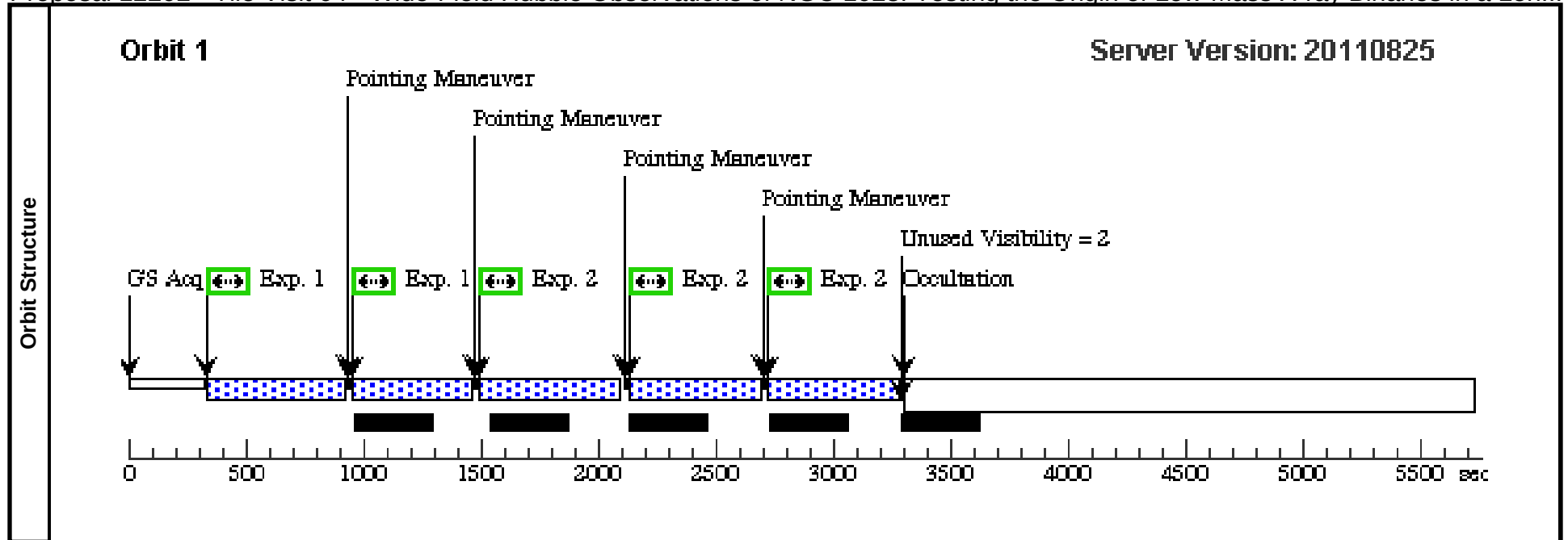
Proposal 12202 - Tile Visit 03 - Wide-Field Hubble Observations of NGC 1023: Testing the Origin of Low-Mass X-ray Binaries in a Len...

Visit	Proposal 12202, Tile Visit 03, completed Sat Jan 07 02:01:56 GMT 2012									
	Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 01									
Diagnostics	(Tile Visit 03) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE									
	(Tile Visit 03) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=47.23 Angle Between Sides= Center Pattern=false							(1)	
	(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=47.23 Angle Between Sides= Center Pattern=false							(2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(1)	NGC-1023	RA: 02 40 24.0125 (40.1000521d) Dec: +39 03 47.70 (39.06325d) Equinox: J2000				V=(?) V=22.9, magnitude is that of a typical globular cluster in NGC 1023		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	NGC1023_F 475W_M3	(1) NGC-1023	ACS/WFC, ACCUM, WFCENTER	F475W	CR-SPLIT=NO	POS TARG 50.8925 77420282436,-143.3 2737426687018	Pattern 1, Exps 1-1 in Tile Visit 03 (1)	384.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	NGC1023_F 850LP_M3	(1) NGC-1023	ACS/WFC, ACCUM, WFCENTER	F850LP	CR-SPLIT=NO	POS TARG 50.8925 77420282436,-143.3 2737426687018	Pattern 2, Exps 2-2 in Tile Visit 03 (2)	436.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]



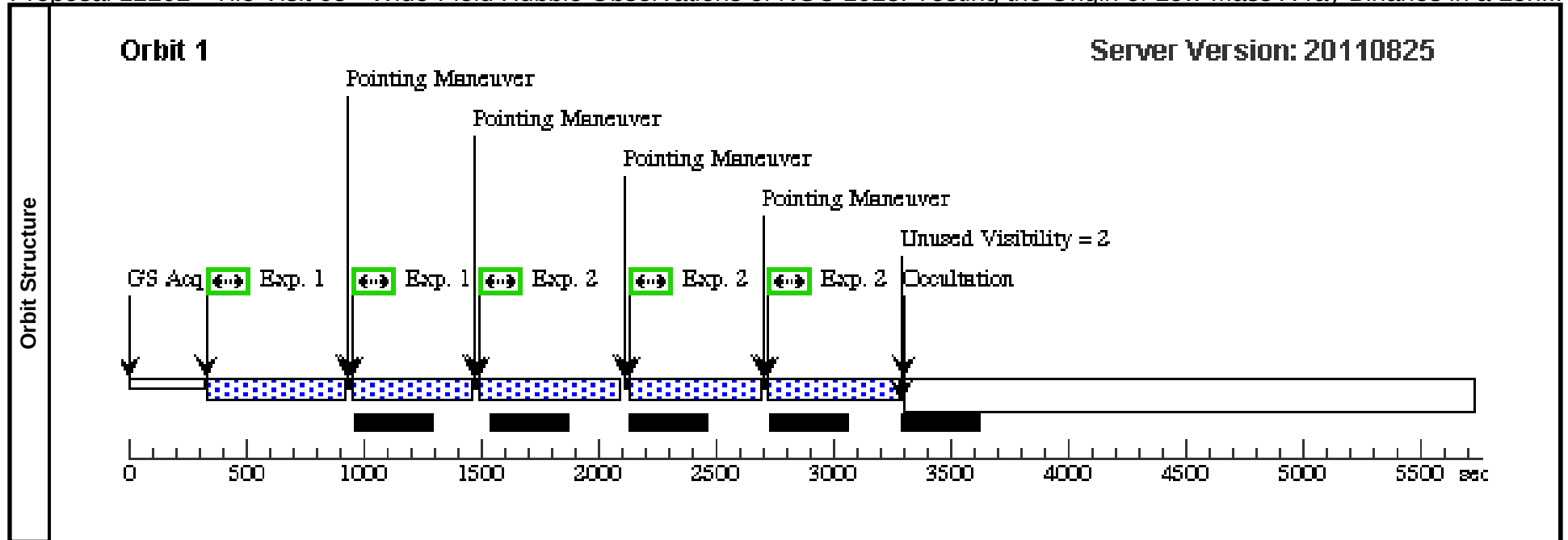
Proposal 12202 - Tile Visit 04 - Wide-Field Hubble Observations of NGC 1023: Testing the Origin of Low-Mass X-ray Binaries in a Len...

Visit	Proposal 12202, Tile Visit 04, completed										Sat Jan 07 02:01:56 GMT 2012
	Diagnostic Status: Warning										
	Scientific Instruments: ACS/WFC										
	Special Requirements: SAME ORIENT AS 01										
Diagnostics	(Tile Visit 04) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE										
	(Tile Visit 04) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE										
Patterns	#	Primary Pattern					Secondary Pattern				Exposures
	(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=47.23 Angle Between Sides= Center Pattern=false						(1)
	(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.145 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=47.23 Angle Between Sides= Center Pattern=false						(2)
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(1)	NGC-1023	RA: 02 40 24.0125 (40.1000521d) Dec: +39 03 47.70 (39.06325d) Equinox: J2000				V=(?) V=22.9, magnitude is that of a typical globular cluster in NGC 1023		Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	NGC1023_F 475W_M4	(1) NGC-1023	ACS/WFC, ACCUM, WFCENTER		F475W	CR-SPLIT=NO	POS TARG 150.962 4539433333,-233.43 069580061064	Pattern 1, Exps 1-1 in Tile Visit 04 (1)	384.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	NGC1023_F 850LP_M4	(1) NGC-1023	ACS/WFC, ACCUM, WFCENTER		F850LP	CR-SPLIT=NO	POS TARG 150.962 4539433333,-233.43 069580061064	Pattern 2, Exps 2-2 in Tile Visit 04 (2)	436.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]



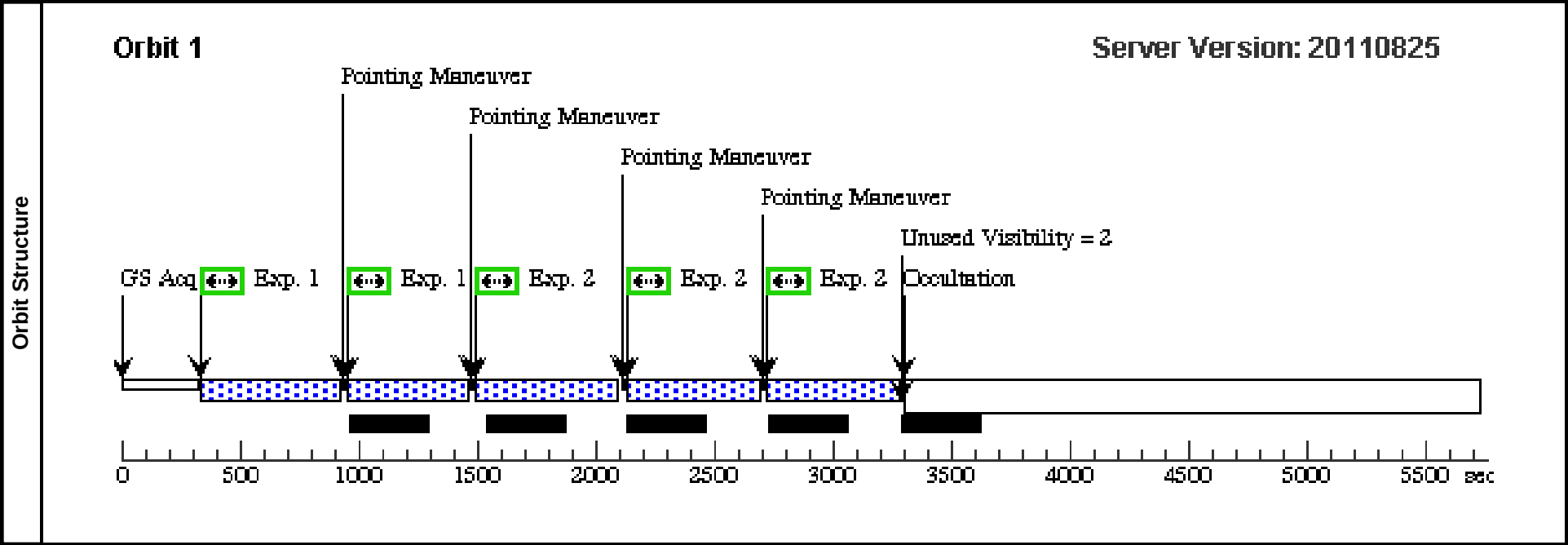
Proposal 12202 - Tile Visit 05 - Wide-Field Hubble Observations of NGC 1023: Testing the Origin of Low-Mass X-ray Binaries in a Len...

Visit	Proposal 12202, Tile Visit 05, completed Sat Jan 07 02:01:57 GMT 2012									
	Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 01									
Diagnostics	(Tile Visit 05) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE									
	(Tile Visit 05) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=47.23 Angle Between Sides= Center Pattern=false							(1)	
	(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=47.23 Angle Between Sides= Center Pattern=false							(2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(1)	NGC-1023	RA: 02 40 24.0125 (40.1000521d) Dec: +39 03 47.70 (39.06325d) Equinox: J2000				V=(?) V=22.9, magnitude is that of a typical globular cluster in NGC 1023		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	NGC1023_F 475W_M5	(1) NGC-1023	ACS/WFC, ACCUM, WFCENTER	F475W	CR-SPLIT=NO	POS TARG -150.96 24539433332,233.43 069580061064	Pattern 1, Exps 1-1 in Tile Visit 05 (1)	384.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	NGC1023_F 850LP_M5	(1) NGC-1023	ACS/WFC, ACCUM, WFCENTER	F850LP	CR-SPLIT=NO	POS TARG -150.96 24539433332,233.43 069580061064	Pattern 2, Exps 2-2 in Tile Visit 05 (2)	436.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]



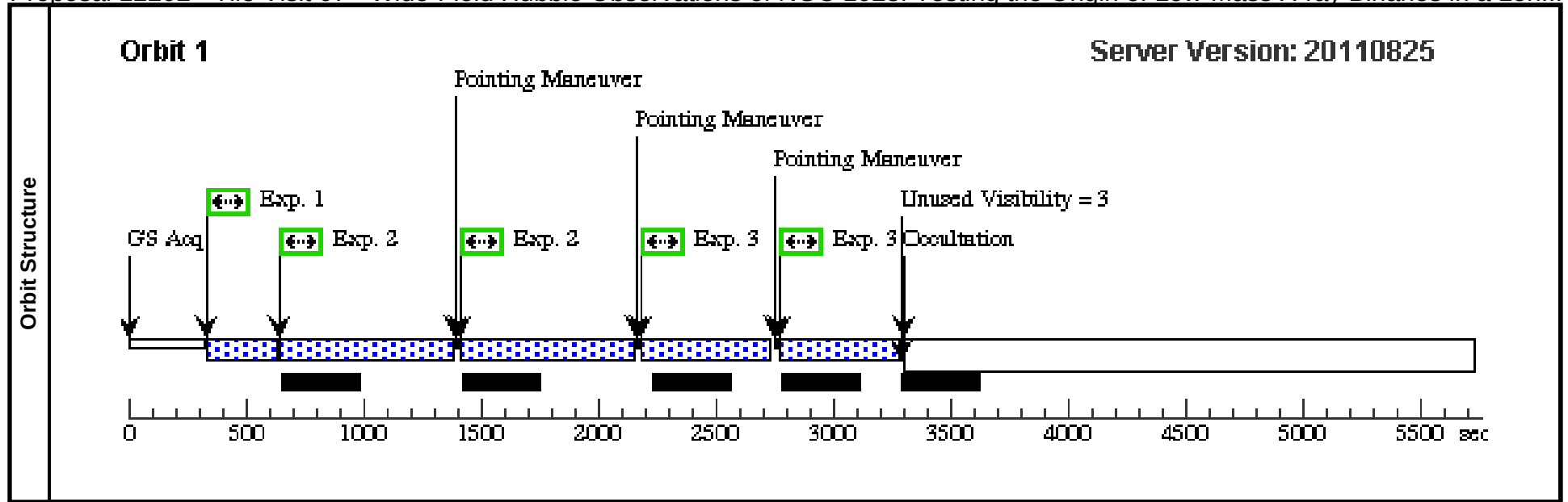
Proposal 12202 - Tile Visit 06 - Wide-Field Hubble Observations of NGC 1023: Testing the Origin of Low-Mass X-ray Binaries in a Len...

Visit	Proposal 12202, Tile Visit 06, completed Sat Jan 07 02:01:57 GMT 2012									
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Diagnostics	(Tile Visit 06) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE									
	(Tile Visit 06) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
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	(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=47.23 Angle Between Sides= Center Pattern=false							(2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(1)	NGC-1023	RA: 02 40 24.0125 (40.1000521d) Dec: +39 03 47.70 (39.06325d) Equinox: J2000				V=(?) V=22.9, magnitude is that of a typical globular cluster in NGC 1023		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	NGC1023_F 475W_M6	(1) NGC-1023	ACS/WFC, ACCUM, WFCENTER	F475W	CR-SPLIT=NO	POS TARG -50.892 577420282365,143.3 273742668702	Pattern 1, Exps 1-1 in Tile Visit 06 (1)	384.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	NGC1023_F 850LP_M6	(1) NGC-1023	ACS/WFC, ACCUM, WFCENTER	F850LP	CR-SPLIT=NO	POS TARG -50.892 577420282365,143.3 273742668702	Pattern 2, Exps 2-2 in Tile Visit 06 (2)	436.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]



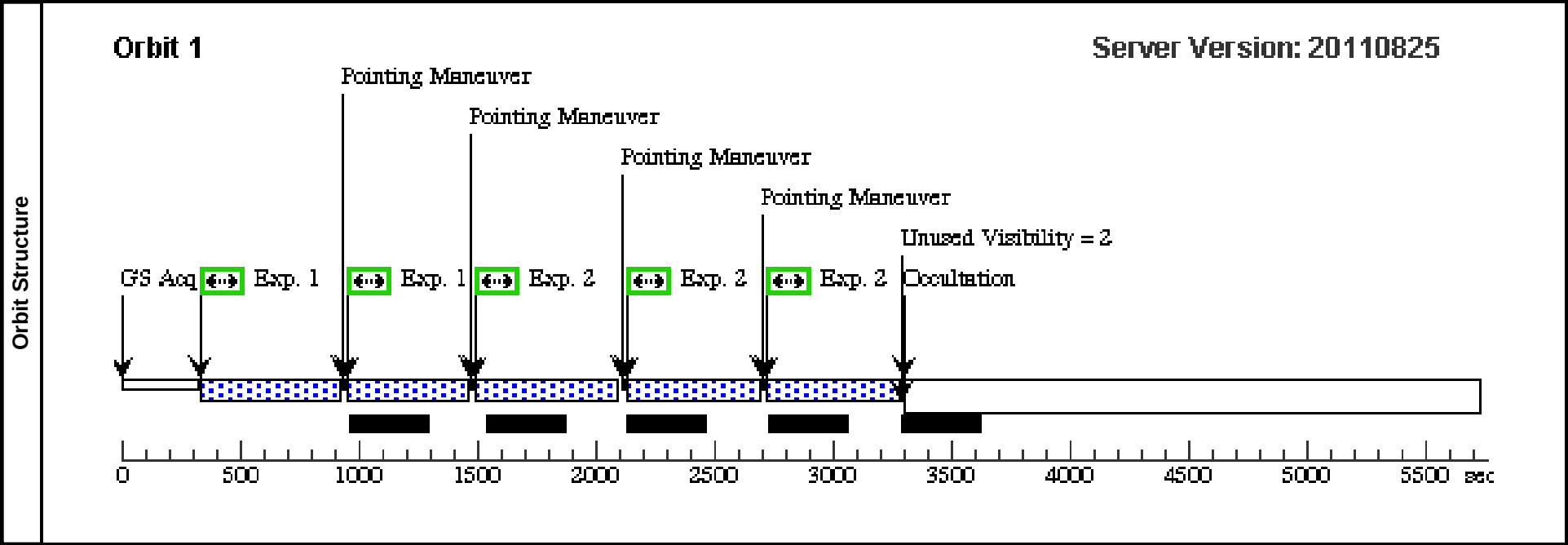
Proposal 12202 - Tile Visit 07 - Wide-Field Hubble Observations of NGC 1023: Testing the Origin of Low-Mass X-ray Binaries in a Len...

Visit	Proposal 12202, Tile Visit 07, completed Sat Jan 07 02:01:58 GMT 2012									
	Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 01									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=ACS-WFC-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=47.23 Angle Between Sides= Center Pattern=false							(2), (3)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(1)	NGC-1023	RA: 02 40 24.0125 (40.1000521d) Dec: +39 03 47.70 (39.06325d) Equinox: J2000				V=(?) V=22.9, magnitude is that of a typical glo bular cluster in NGC 1023		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	NGC1023_F 850LP_M7	(1) NGC-1023	ACS/WFC, ACCUM, WFCENTER	F850LP		POS TARG 49.1772 9910276847,53.2240 5273312977		90 Secs [==>]	
	2	NGC1023_F 850LP_M7	(1) NGC-1023	ACS/WFC, ACCUM, WFCENTER	F850LP	CR-SPLIT=NO	POS TARG 49.1772 9910276847,53.2240 5273312977	Pattern 1, Exps 2-2 i n Tile Visit 07 (1)	613 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	NGC1023_F 475W_M7	(1) NGC-1023	ACS/WFC, ACCUM, WFCENTER	F475W	CR-SPLIT=NO	POS TARG 49.1772 9910276847,53.2240 5273312977	Pattern 1, Exps 3-3 i n Tile Visit 07 (1)	388 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 12202 - Tile Visit 08 - Wide-Field Hubble Observations of NGC 1023: Testing the Origin of Low-Mass X-ray Binaries in a Len...

Visit	Proposal 12202, Tile Visit 08, failed Sat Jan 07 02:01:58 GMT 2012									
	Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 01									
Diagnostics	(Tile Visit 08) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE									
	(Tile Visit 08) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=47.23 Angle Between Sides= Center Pattern=false							(1)	
	(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=47.23 Angle Between Sides= Center Pattern=false							(2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(1)	NGC-1023	RA: 02 40 24.0125 (40.1000521d) Dec: +39 03 47.70 (39.06325d) Equinox: J2000				V=(?) V=22.9, magnitude is that of a typical globular cluster in NGC 1023		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	NGC1023_F 475W_M8	(1) NGC-1023	ACS/WFC, ACCUM, WFCENTER	F475W	CR-SPLIT=NO	POS TARG 149.247 1756258193,-36.879 268800610674	Pattern 1, Exps 1-1 in Tile Visit 08 (1)	384.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	NGC1023_F 850LP_M8	(1) NGC-1023	ACS/WFC, ACCUM, WFCENTER	F850LP	CR-SPLIT=NO	POS TARG 149.247 1756258193,-36.879 268800610674	Pattern 2, Exps 2-2 in Tile Visit 08 (2)	436.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]



Proposal 12202 - Tile Visit 58 - Wide-Field Hubble Observations of NGC 1023: Testing the Origin of Low-Mass X-ray Binaries in a Len...

Visit	Proposal 12202, Tile Visit 58 Sat Jan 07 02:01:59 GMT 2012									
	Diagnostic Status: Warning Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 01									
Diagnostics	(Tile Visit 58) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE									
	(Tile Visit 58) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
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	(2)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=3 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=47.23 Angle Between Sides= Center Pattern=false							(2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(1)	NGC-1023	RA: 02 40 24.0125 (40.1000521d) Dec: +39 03 47.70 (39.06325d) Equinox: J2000				V=(?) V=22.9, magnitude is that of a typical globular cluster in NGC 1023		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	NGC1023_F 475W_M8	(1) NGC-1023	ACS/WFC, ACCUM, WFCENTER	F475W	CR-SPLIT=NO	POS TARG 149.247 1756258193,-36.879 268800610674	Pattern 1, Exps 1-1 in Tile Visit 58 (1)	384.0 Secs [==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	NGC1023_F 850LP_M8	(1) NGC-1023	ACS/WFC, ACCUM, WFCENTER	F850LP	CR-SPLIT=NO	POS TARG 149.247 1756258193,-36.879 268800610674	Pattern 2, Exps 2-2 in Tile Visit 58 (2)	436.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]

