



10902 - The Nearest Luminous Blue Compact Galaxies: A Window on Galaxy Formation

Cycle: 15, Proposal Category: GO
(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. Goran Ostlin (PI) (ESA Member)	Stockholm University	ostlin@astro.su.se
Dr. Nils Bergvall (CoI) (ESA Member)	Uppsala Astronomical Observatory	nils.bergvall@astro.uu.se
Dr. Robert Cumming (CoI) (ESA Member)	Stockholm University	robert@astro.su.se
Mr. Matthew Hayes (CoI) (ESA Member)	Stockholm University	matthew@astro.su.se
Dr. Daniel Kunth (CoI) (ESA Member)	CNRS, Institut d'Astrophysique de Paris	kunth@iap.fr
Dr. R. Michael Rich (CoI) (AdminUSPI)	University of California - Los Angeles	rmr@astro.ucla.edu
Dr. Erik Zackrisson (CoI) (ESA Member)	Uppsala Astronomical Observatory	erik.zackrisson@astro.uu.se
Mr. Thomas Marquart (CoI) (ESA Member)	Uppsala Astronomical Observatory	thomas.marquart@astro.uu.se
Ms. Genoveva Micheva (CoI) (ESA Member)	Stockholm University	genoveva@astro.su.se
Ms. Angela Adamo (CoI)	Stockholm University	adamo@astro.su.se

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) HARO11	NIC3	2	21-May-2007 20:37:01.0	yes
02	(2) ESO185-13	ACS/SBC NIC3 WFPC2	4	21-May-2007 20:37:20.0	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>
03	(3) MRK930	ACS/SBC NIC3 WFPC2	4	21-May-2007 20:37:51.0	yes
04	(1) HARO11	WFPC2	4	21-May-2007 20:38:02.0	yes
05	(2) ESO185-13	WFPC2	4	21-May-2007 20:38:12.0	yes
06	(3) MRK930	WFPC2	4	21-May-2007 20:38:22.0	yes

22 Total Orbits Used

ABSTRACT

As we move to intermediate and high redshifts, Luminous Blue Compact Galaxies (LBCGs) become increasingly common. The nearest LBCGs, with their violent starbursts and rich populations of super star clusters (SSCs) and globular clusters (GCs), thus provide ideal laboratories for studying galaxy evolution. Many LBCGs appear to be involved in mergers between dwarf galaxies, triggering their starbursts. The starburst regions in LBCGs consist of numerous young star clusters, whose populations are both easily measurable with HST and easily modelled. Studying cluster populations provides a powerful probe of the starburst and merger history which is possible neither for closer objects (of which there are too few) or for those at high redshift (which are too far away). We have previously studied the closest LBCG with WFPC2 and found hundreds of bright compact SSCs and GCs. In particular, we found a population of intermediate-age (~2 Gyr) GCs, indicating a past event of massive cluster formation. We now propose a multi-wavelength study of the three other LBCGs with the highest known number of SSCs. The extinction is small in these galaxies and age estimates robust. The age distribution of GCs and SSCs will be used to study the past evolution of the galaxies. For each LBCG, we will map its cluster formation history, unveiling its merger and starburst history, and thereby shed light on some of the processes involved in galaxy evolution at high redshift.

OBSERVING DESCRIPTION

VISIT 1 -- 2 ORBITS

Target: Haro11

Orbit 1 : NIC3 : F160W :

- 1 single exposure using STEP32 and manual POS-TARG offsets
- 3 exposures using STEP64 and NIC-SPIRAL-DITH and manual POS-TARG offsets

Orbit 2 : NIC3 : F160W :

- 1 single exposure using STEP32 and manual POS-TARG offsets
- 3 exposures using STEP64 and NIC-SPIRAL-DITH and manual POS-TARG offsets

VISIT 2 -- 4 ORBITS

Target: ESO 350-13

Orbit 1 : NIC3 : F160W :

- 1 single exposure using STEP32
- 3 exposures using STEP64 and NIC-SPIRAL-DITH

Orbit 2 : NIC3 : F160W :

- 1 single exposure using STEP32
- 3 exposures using STEP64 and NIC-SPIRAL-DITH and manual POS-TARG offsets

Orbit 3 : ACS/SBC : F140LP : 4 exposures using ACS-SBC-DITHER-BOX and manual POS-TARG offsets

Orbit 4 : WFPC2 :

- F336W : 2 exposures using manual POS-TARG offsets
- F439W : 2 exposures using manual POS-TARG offsets

VISIT 3 -- 4 ORBITS

Target: MKR930

Orbit 1 : ACS/SBC : F140LP : 4 exposures using ACS-SBC-DITHER-BOX and manual POS-TARG offsets

Orbit 2 : WFPC2 :

F336W : 2 exposures using manual POS-TARG offsets

F439W : 2 exposures using manual POS-TARG offsets

Orbit 3 : NIC3 : F160W :

1 single exposure using STEP32

3 exposures using STEP64 and NIC-SPIRAL-DITH

Orbit 4 : NIC3 : F160W :

1 single exposure using STEP32

3 exposures using STEP64 and NIC-SPIRAL-DITH and manual POS-TARG offsets

VISIT 4 -- 4 ORBITS

Target: Haro11

Orbit 1 : WFPC2 : F606W : 1 splitted exposure in two subexp and manual POS-TARG offsets

Orbit 2 : WFPC2 :

F606W : 1 splitted exposure in two subexp and manual POS-TARG offsets

F814W : 1 single exposure using manual POS-TARG offsets

Orbit 3 : WFPC2 : F814W : 1 splitted exposure in two subexp and manual POS-TARG offsets

Orbit 4 : WFPC2 :

F814W : 1 splitted exposure in two subexp and manual POS-TARG offsets

1 single exposure using manual POS-TARG offsets

VISIT 5 -- 4 ORBITS

Target: ESO385-13

Orbit 1 : WFPC2 : F606W : 1 splitted exposure in two subexp and manual POS-TARG offsets

Orbit 2 : WFPC2 :

F606W : 1 splitted exposure in two subexp and manual POS-TARG offsets

F814W : 1 single exposure using manual POS-TARG offsets

Orbit 3 : WFPC2 : F814W : 1 splitted exposure in two subexp and manual POS-TARG offsets

Orbit 4 : WFPC2 :

F814W : 1 splitted exposure in two subexp and manual POS-TARG offsets

F450W : 2 exposures using manual POS-TARG offsets

VISIT 6 -- 4 ORBITS

Target: MKR930

Orbit 1 : WFPC2 : F606W : 1 splitted exposure in two subexp and manual POS-TARG offsets

Orbit 2 : WFPC2 :

F606W : 1 splitted exposure in two subexp and manual POS-TARG offsets

F814W : 1 single exposure using manual POS-TARG offsets

Orbit 3 : WFPC2 : F814W : 1 splitted exposure in two subexp and manual POS-TARG offsets

Orbit 4 : WFPC2 :

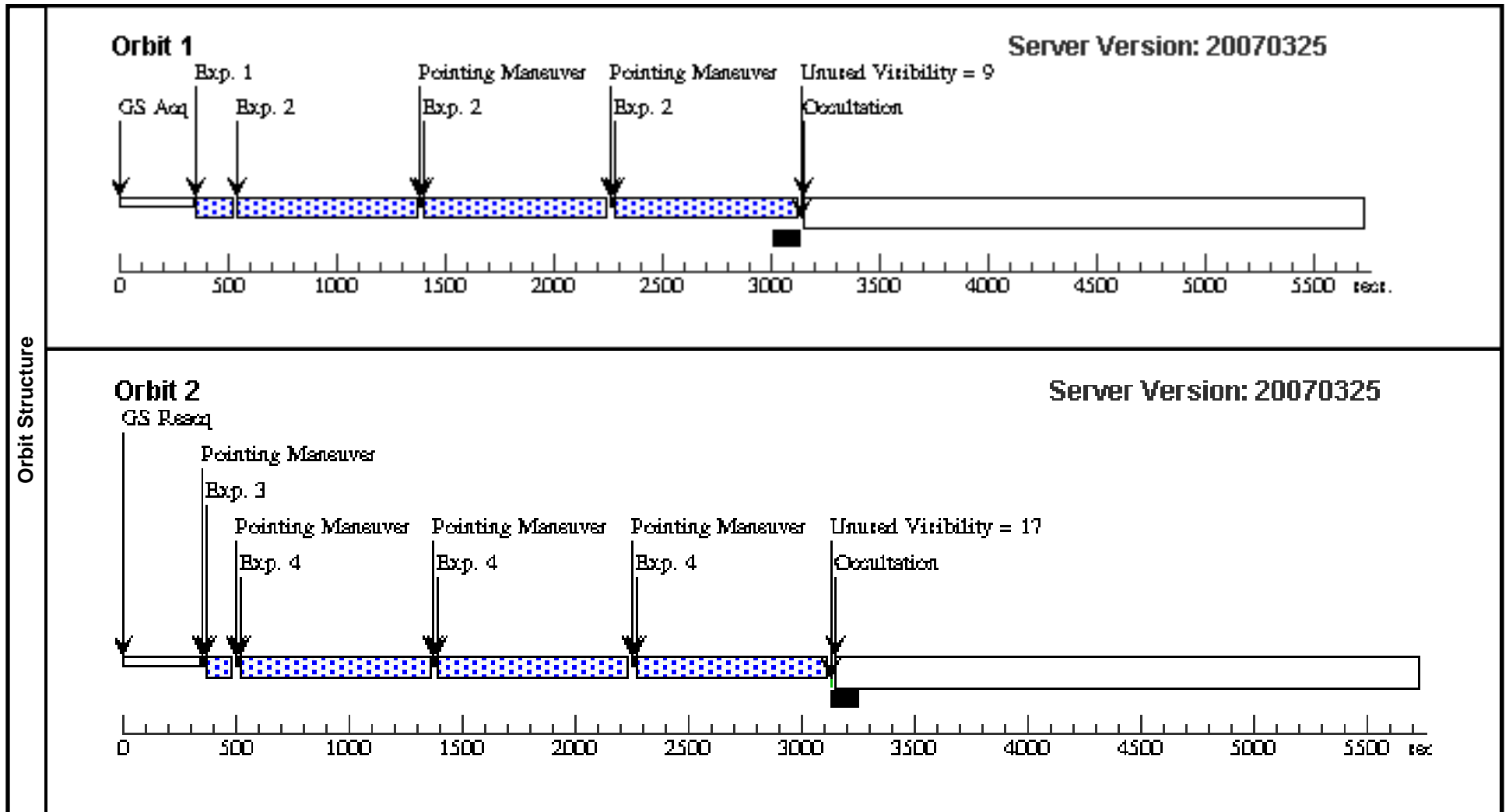
F814W : 1 splitted exposure in two subexp and manual POS-TARG offsets

F450W : 2 exposures using manual POS-TARG offsets

Proposal 10902 - Visit 01 - The Nearest Luminous Blue Compact Galaxies: A Window on Galaxy Formation

Mon May 21 19:38:26 GMT 2007

Visit	Proposal 10902, Visit 01, implementation Diagnostic Status: No Diagnostics Scientific Instruments: NIC3 Special Requirements: (none)									
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures
		(1)	Pattern Type=NIC-SPIRAL-DITH Purpose=DITHER Number Of Points=3 Point Spacing=2.164 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=false						(2)
	(2)	Pattern Type=NIC-SPIRAL-DITH Purpose=DITHER Number Of Points=3 Point Spacing=2.096 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=false						(4)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(1)	HARO11 Alt Name1: SODN000005	RA: 00 36 52.6000 (9.2191667d) Dec: -33 33 17.60 (-33.55489d) Equinox: J2000			V=14.2+/-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) HARO11	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=STEP3 2; NSAMP=12	POS TARG -2.08,-2. 46		[==>]	[1]
	2		(1) HARO11	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=21; SAMP-SEQ=STEP6 4	POS TARG -2.08,-2. Pattern 2-2 (1) 46		[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	3		(1) HARO11	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=STEP3 2; NSAMP=10	POS TARG -2.08,-2. 46		[==>]	[2]
4		(1) HARO11	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=21; SAMP-SEQ=STEP6 4	POS TARG -2.08,-2. Pattern 4-4 (2) 39		[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[2]	



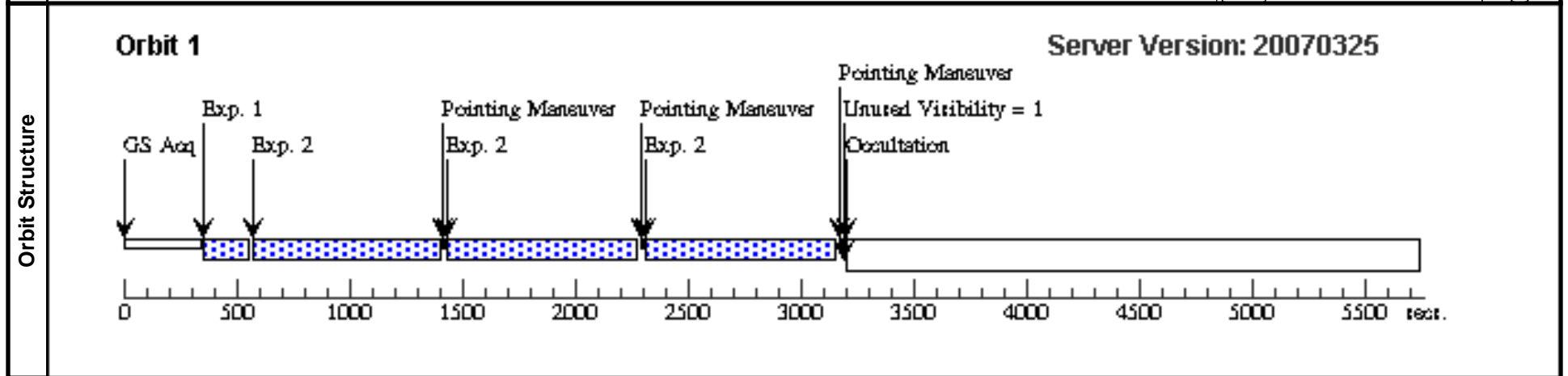
Proposal 10902 - Visit 02 - The Nearest Luminous Blue Compact Galaxies: A Window on Galaxy Formation

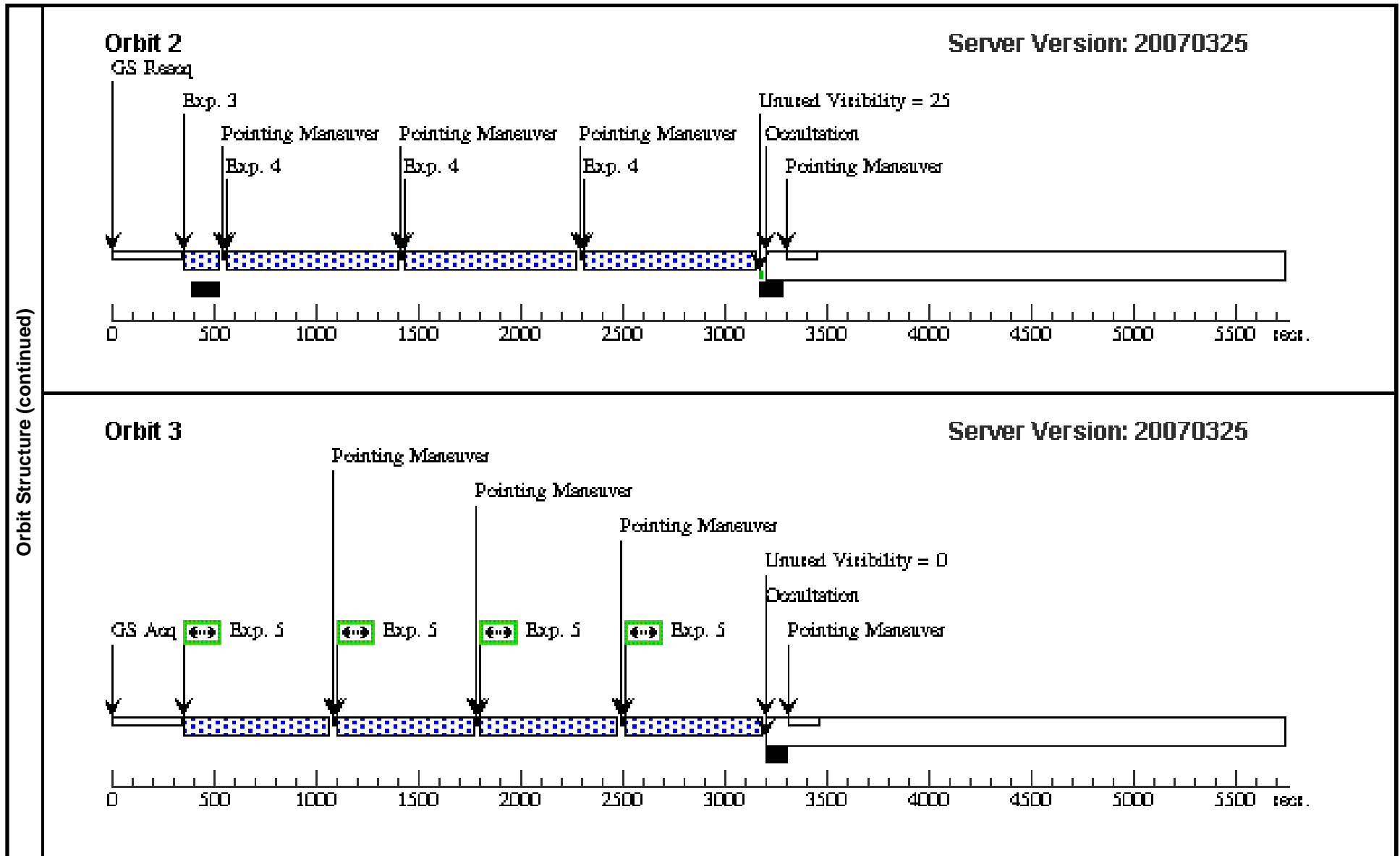
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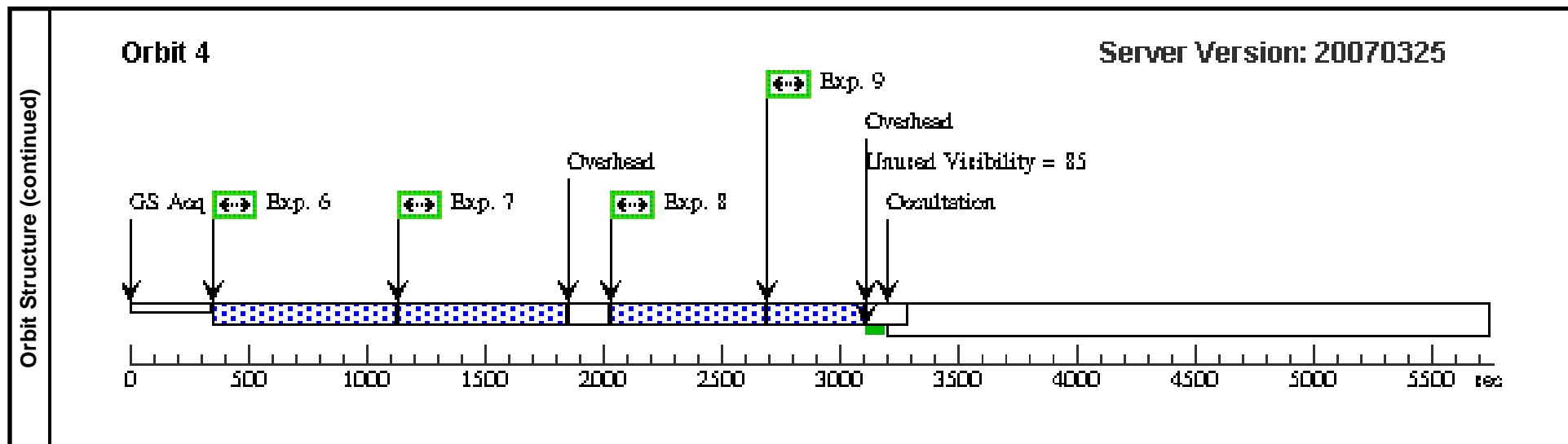
Visit	Proposal 10902, Visit 02, implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/SBC, WFPC2, NIC3 Special Requirements: ORIENT 285.0D TO 295.0 D										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
		(1)	Pattern Type=NIC-SPIRAL-DITH Purpose=DITHER Number Of Points=3 Point Spacing=2.164 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=false				(2)			
		(2)	Pattern Type=NIC-SPIRAL-DITH Purpose=DITHER Number Of Points=3 Point Spacing=2.096 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=0 Angle Between Sides= Center Pattern=false				(4)			
(3)	Pattern Type=ACS-SBC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.179 Line Spacing=0.116	Coordinate Frame=POS-TARG Pattern Orientation=20.02 Angle Between Sides=63.65 Center Pattern=false				(5)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(2)	ESO185-13 Alt Name1: SASD000600	RA: 19 45 0.5000 (296.2520833d) Dec: -54 15 2.70 (-54.25075d) Equinox: J2000		V=15.1+/-0.1	Reference Frame: ICRS					
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(2) ESO185-13	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=STEP3 2; NSAMP=13			[==>]	[1]	
	2		(2) ESO185-13	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=21; SAMP-SEQ=STEP6 4		Pattern 2-2 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]	
	3		(2) ESO185-13	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=STEP3 2; NSAMP=12			[==>]	[2]	

Proposal 10902 - Visit 02 - The Nearest Luminous Blue Compact Galaxies: A Window on Galaxy Formation

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures (continued)	4	(2) ESO185-13	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=21; SAMP-SEQ=STEP6 4	POS TARG 0,0.0676 21	Pattern 4-4 (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[2]
	5	(2) ESO185-13	ACS/SBC, ACCUM, SBC	F140LP		POS TARG -0.45,3. 52	Pattern 5-5 (3)	646.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[3]
	6	(2) ESO185-13	WFPC2, IMAGE, PC1	F336W	CR-SPLIT=NO	POS TARG -3.76,2. 28		500.0 Secs [==>]	[4]
	7	(2) ESO185-13	WFPC2, IMAGE, PC1	F336W	CR-SPLIT=NO	SAME POS AS 6		700.0 Secs [==>]	[4]
	8	(2) ESO185-13	WFPC2, IMAGE, PC1	F439W	CR-SPLIT=NO	SAME POS AS 6		400.0 Secs [==>]	[4]
	9	(2) ESO185-13	WFPC2, IMAGE, PC1	F439W	CR-SPLIT=NO	SAME POS AS 6		400.0 Secs [==>]	[4]







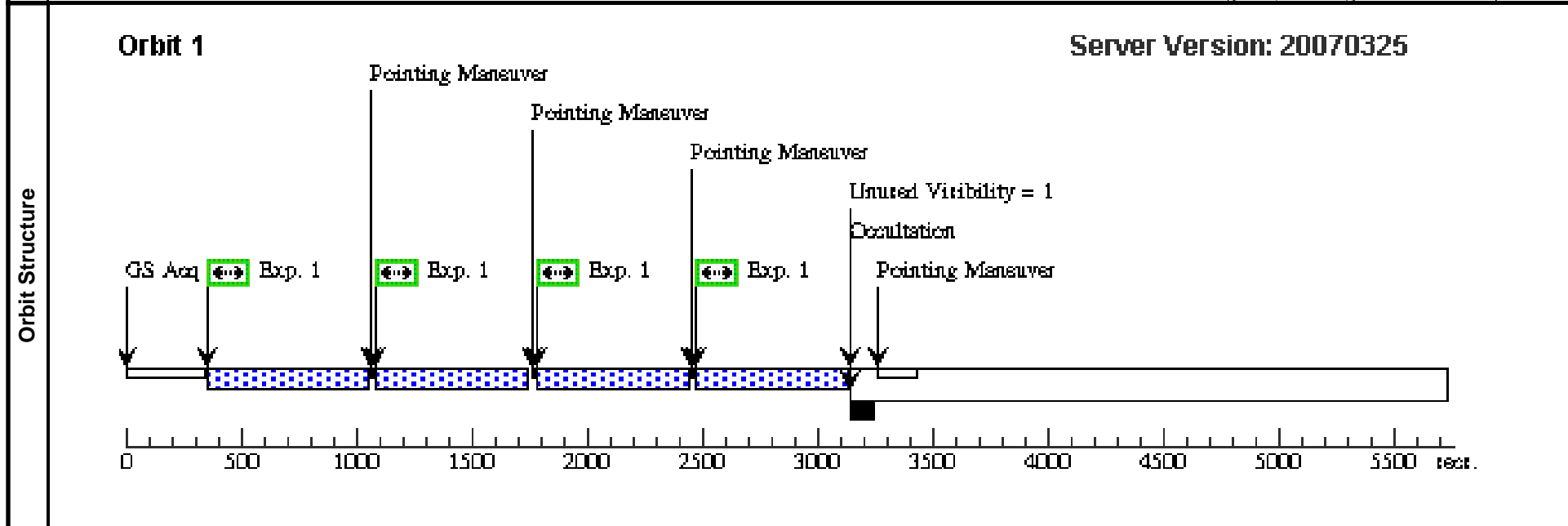
Proposal 10902 - Visit 03 - The Nearest Luminous Blue Compact Galaxies: A Window on Galaxy Formation

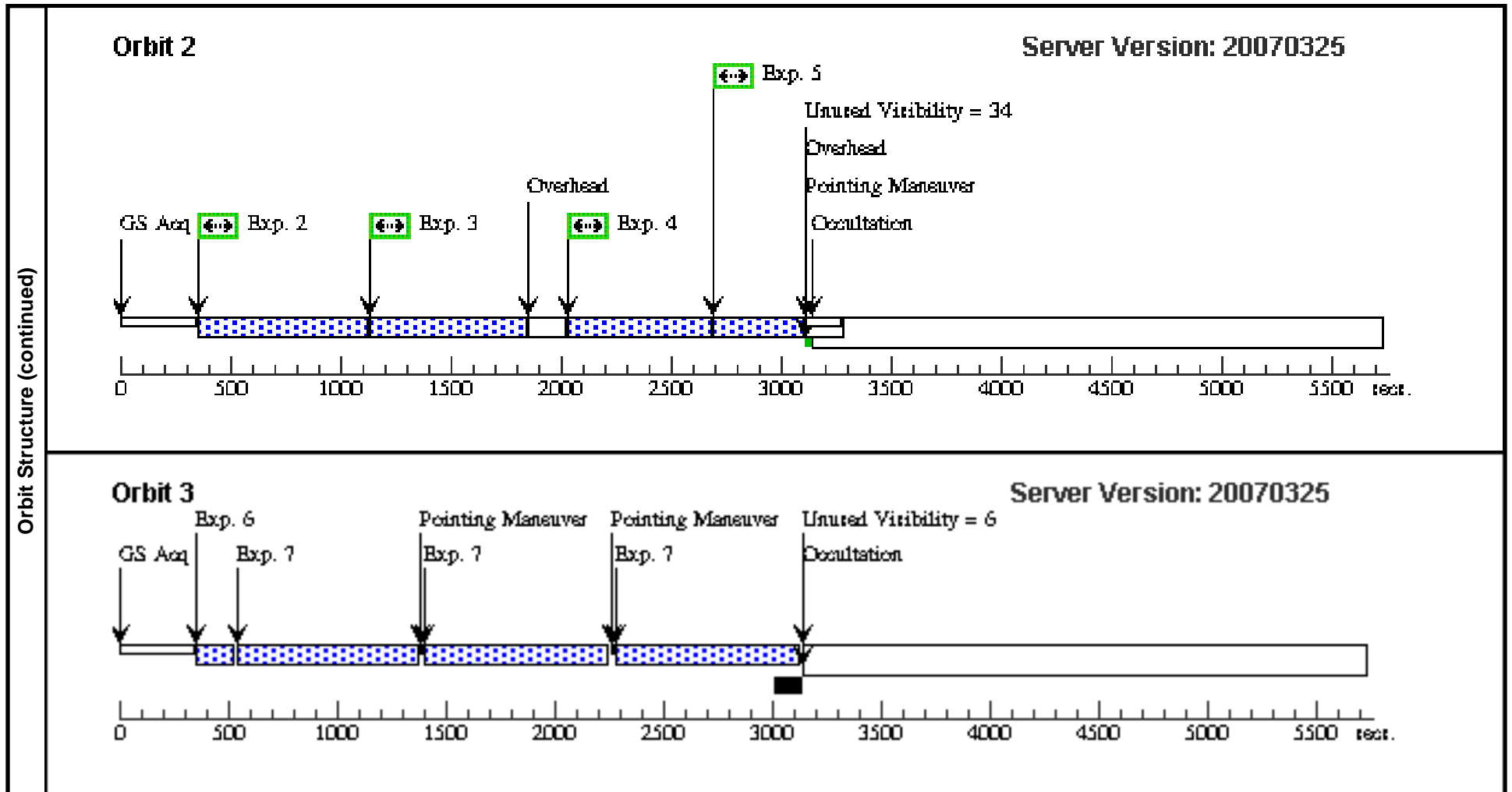
Mon May 21 19:38:30 GMT 2007

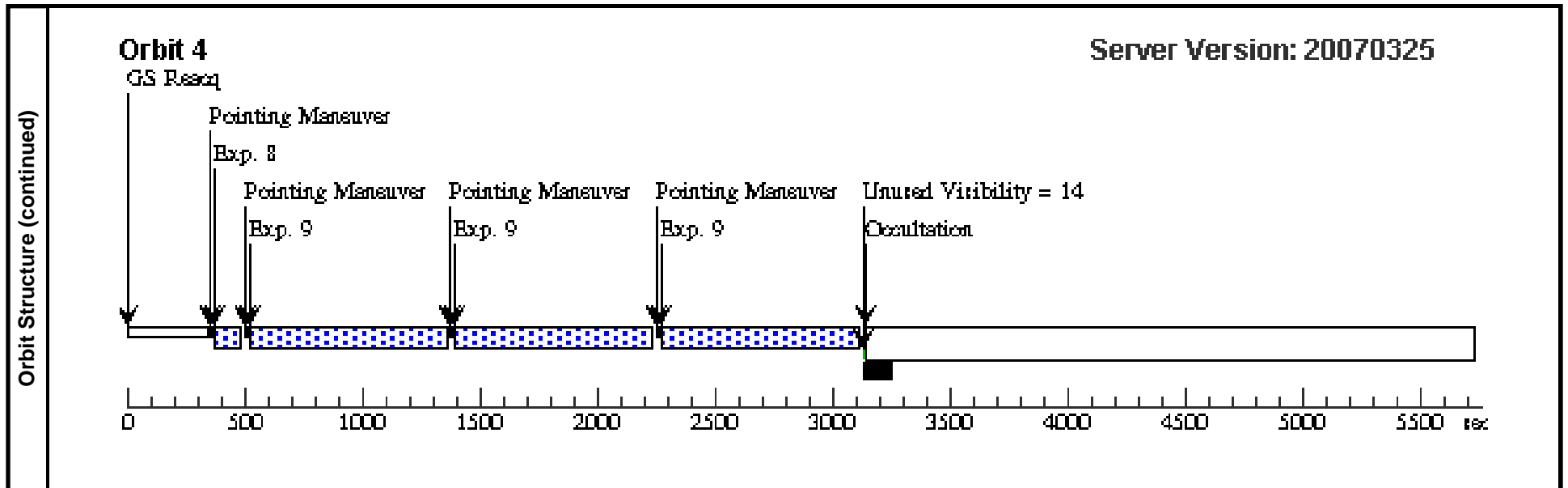
Visit	Proposal 10902, Visit 03, implementation Diagnostic Status: No Diagnostics Scientific Instruments: ACS/SBC, WFPC2, NIC3 Special Requirements: (none)										
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
		(1)	Pattern Type=NIC-SPIRAL-DITH	Coordinate Frame=POS-TARG							(7)
			Purpose=DITHER	Pattern Orientation=0							
		Number Of Points=3	Angle Between Sides=								
		Point Spacing=2.164	Center Pattern=false								
		Line Spacing=									
	(2)	Pattern Type=NIC-SPIRAL-DITH	Coordinate Frame=POS-TARG							(9)	
		Purpose=DITHER	Pattern Orientation=0								
		Number Of Points=3	Angle Between Sides=								
		Point Spacing=2.096	Center Pattern=false								
		Line Spacing=									
	(3)	Pattern Type=ACS-SBC-DITHER-BOX	Coordinate Frame=POS-TARG							(1)	
		Purpose=DITHER	Pattern Orientation=20.02								
		Number Of Points=4	Angle Between Sides=63.65								
		Point Spacing=0.179	Center Pattern=false								
		Line Spacing=0.116									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(3)	MRK930	RA: 23 31 58.5500 (352.9939583d)		V=15.3+/-0.1	Reference Frame: ICRS					
		Alt Name1: NOCK000215	Dec: +28 56 52.10 (28.94781d)								
			Equinox: J2000								
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1		(3) MRK930	ACS/SBC, ACCUM, SBC	F140LP		POS TARG 0,3,53	Pattern 1-1 (3)	633.0 Secs		
									[=>(Pattern 1)]		
									[=>(Pattern 2)]		
									[=>(Pattern 3)]	[1]	
								[=>(Pattern 4)]			
	2		(3) MRK930	WFPC2, IMAGE, PC1	F336W	CR-SPLIT=NO			500.0 Secs		
								[=>]	[2]		
	3		(3) MRK930	WFPC2, IMAGE, PC1	F336W	CR-SPLIT=NO	SAME POS AS 2		700.0 Secs		
								[=>]	[2]		
	4		(3) MRK930	WFPC2, IMAGE, PC1	F439W	CR-SPLIT=NO	SAME POS AS 3		400.0 Secs		
								[=>]	[2]		

Proposal 10902 - Visit 03 - The Nearest Luminous Blue Compact Galaxies: A Window on Galaxy Formation

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures (continued)	5	(3) MRK930	WFPC2, IMAGE, PC1	F439W	CR-SPLIT=NO	SAME POS AS 2		400.0 Secs [==>]	[2]
	6	(3) MRK930	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=STEP3 2; NSAMP=12			[==>]	[3]
	7	(3) MRK930	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=21; SAMP-SEQ=STEP6 4		Pattern 7-7 (1)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[3]
	8	(3) MRK930	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=STEP3 2; NSAMP=10			[==>]	[4]
	9	(3) MRK930	NIC3, MULTIACCUM, NIC3	F160W	NSAMP=21; SAMP-SEQ=STEP6 4	POS TARG 0,0.0676 21	Pattern 9-9 (2)	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[4]



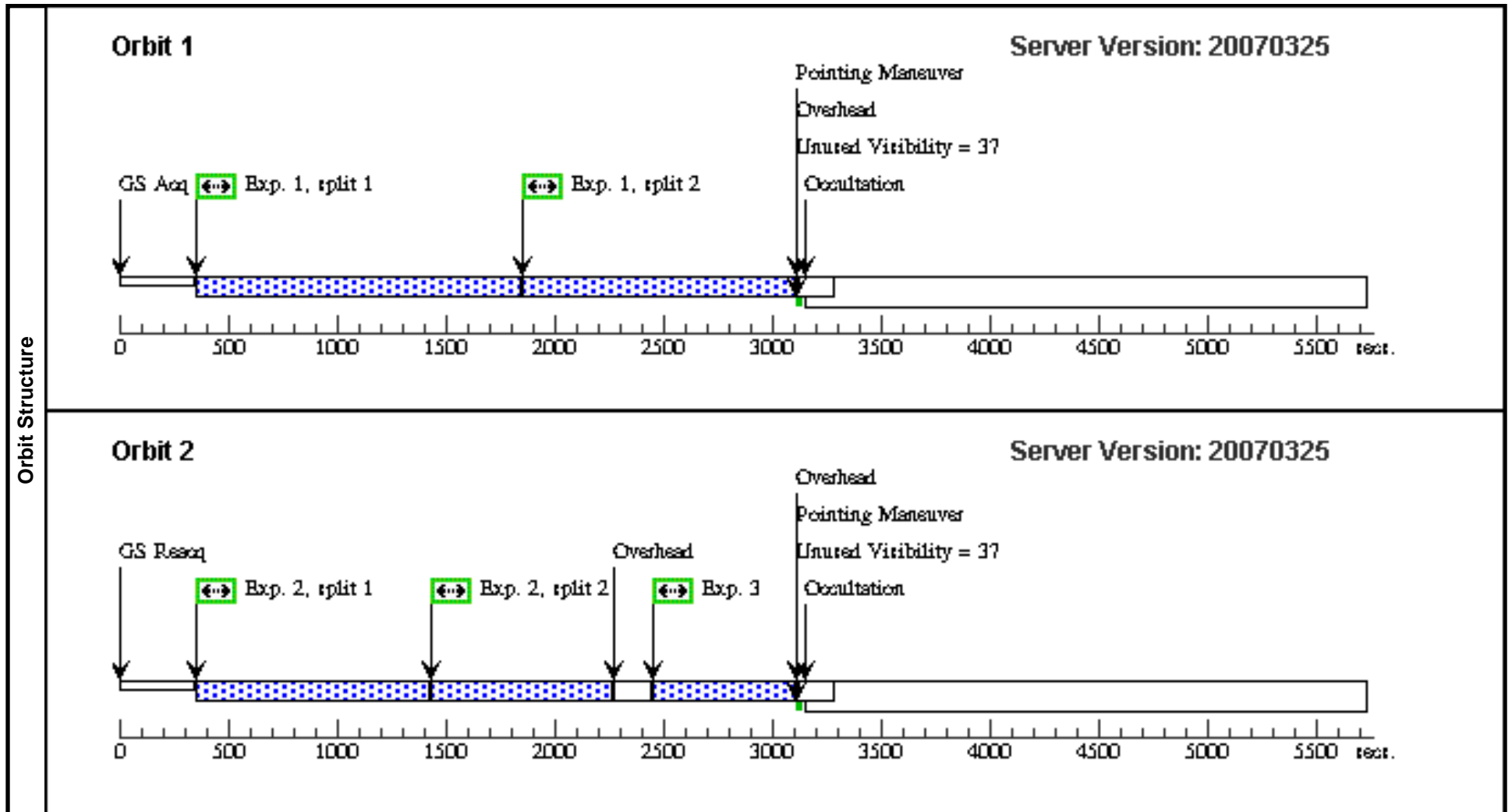


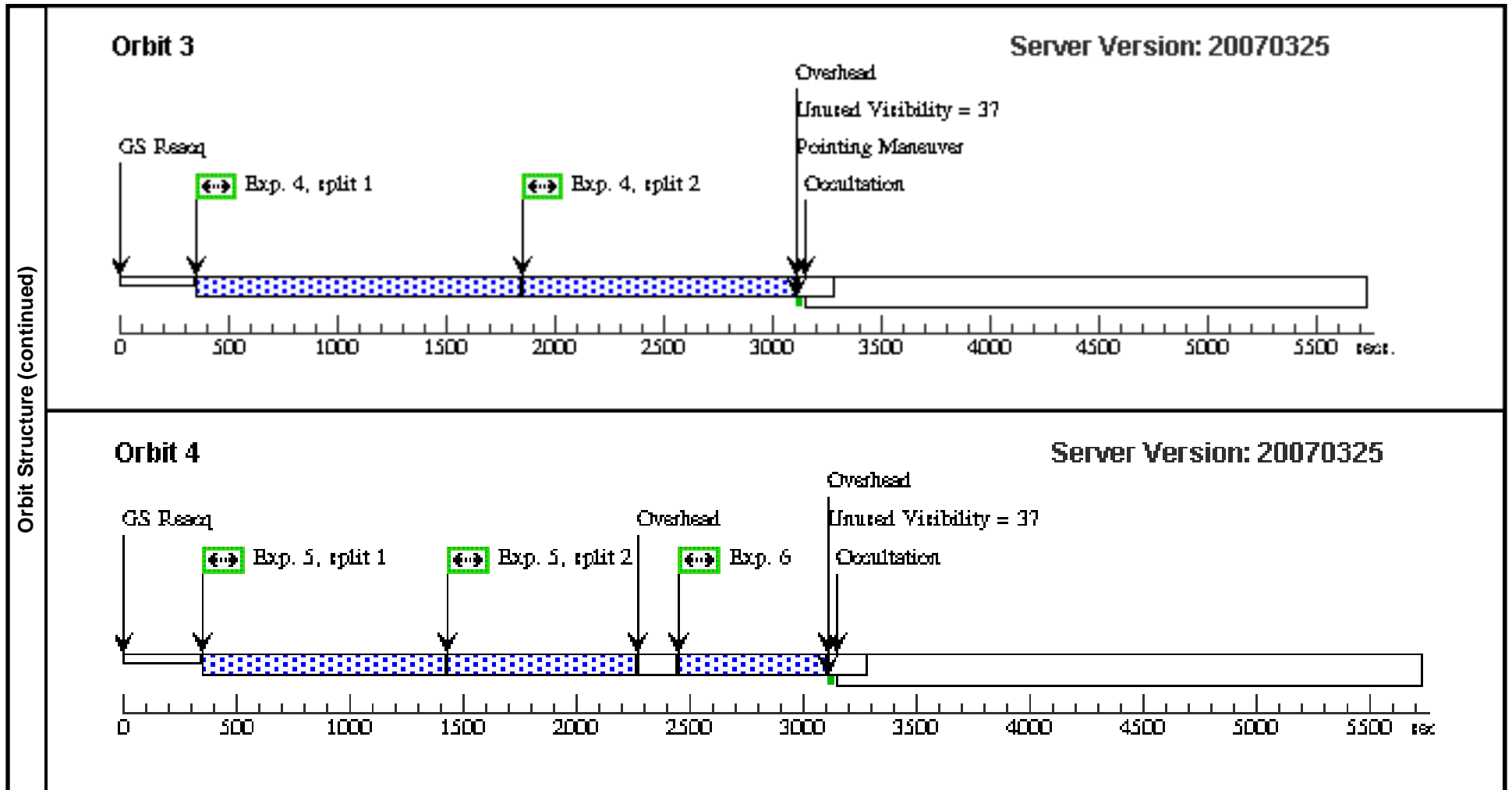


Proposal 10902 - Visit 04 - The Nearest Luminous Blue Compact Galaxies: A Window on Galaxy Formation

Mon May 21 19:38:32 GMT 2007

Visit	Proposal 10902, Visit 04, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	HARO11	RA: 00 36 52.6000 (9.2191667d) Alt Name1: SODN000005 Dec: -33 33 17.60 (-33.55489d) Equinox: J2000			V=14.2+/-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) HARO11	WFPC2, IMAGE, PC1	F606W	CR-SPLIT=DEF	POS TARG -3,-1.93			2400.0 Secs [==>(Split 1)] [==>(Split 2)]	[1]
	2	(1) HARO11	WFPC2, IMAGE, PC1	F606W	CR-SPLIT=DEF	POS TARG -2.75,-1.68			1600.0 Secs [==>(Split 1)] [==>(Split 2)]	[2]
	3	(1) HARO11	WFPC2, IMAGE, PC1	F814W	CR-SPLIT=NO	SAME POS AS 2			500.0 Secs [==>]	[2]
	4	(1) HARO11	WFPC2, IMAGE, PC1	F814W	CR-SPLIT=DEF	SAME POS AS 1			2400.0 Secs [==>(Split 1)] [==>(Split 2)]	[3]
	5	(1) HARO11	WFPC2, IMAGE, PC1	F814W	CR-SPLIT=DEF	SAME POS AS 2			1600.0 Secs [==>(Split 1)] [==>(Split 2)]	[4]
	6	(1) HARO11	WFPC2, IMAGE, PC1	F814W	CR-SPLIT=NO	SAME POS AS 5			500.0 Secs [==>]	[4]

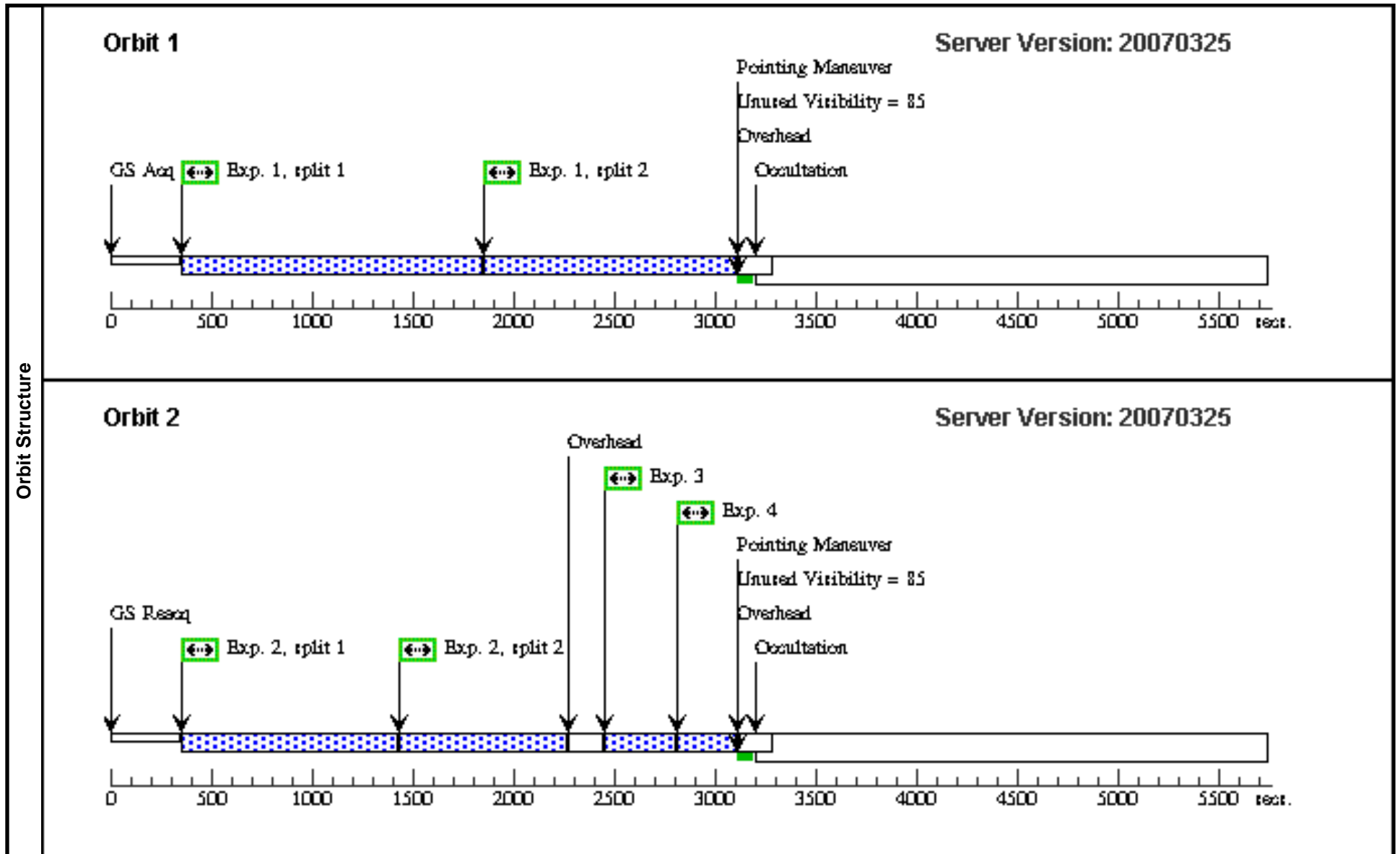


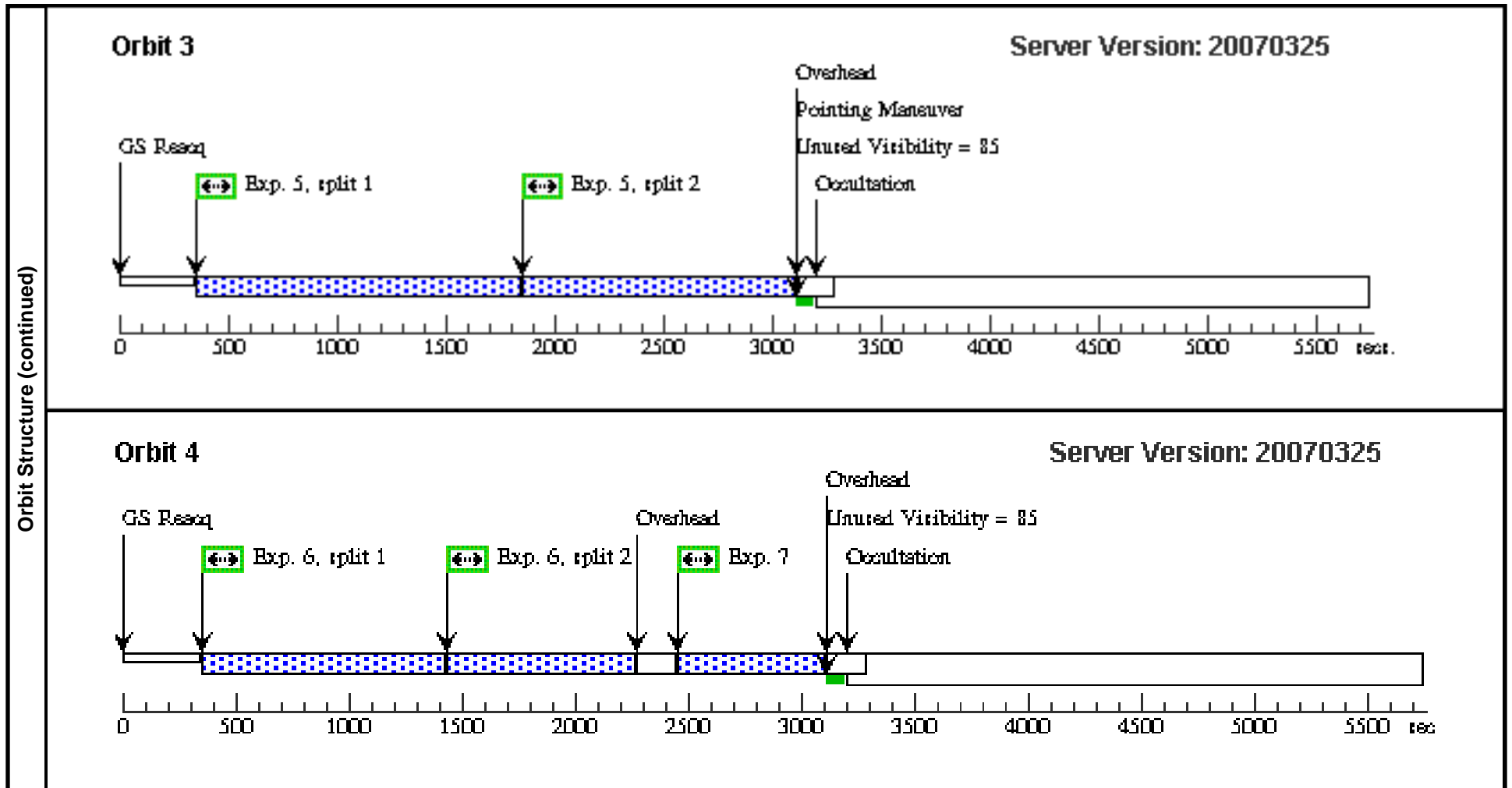


Proposal 10902 - Visit 05 - The Nearest Luminous Blue Compact Galaxies: A Window on Galaxy Formation

Mon May 21 19:38:33 GMT 2007

Visit	Proposal 10902, Visit 05, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: ORIENT 285.0D TO 295.0 D									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(2)	ESO185-13	RA: 19 45 0.5000 (296.2520833d) Alt Name1: SASD000600 Dec: -54 15 2.70 (-54.25075d) Equinox: J2000			V=15.1+/-0.1	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(2) ESO185-13	WFPC2, IMAGE, PC1	F606W	CR-SPLIT=DEF	POS TARG -3.76,2.28			2400.0 Secs [==>(Split 1)] [==>(Split 2)]	[1]
	2	(2) ESO185-13	WFPC2, IMAGE, PC1	F606W	CR-SPLIT=DEF	POS TARG -3.51,2.53			1600.0 Secs [==>(Split 1)] [==>(Split 2)]	[2]
	3	(2) ESO185-13	WFPC2, IMAGE, PC1	F450W	CR-SPLIT=NO	SAME POS AS 2			160.0 Secs [==>]	[2]
	4	(2) ESO185-13	WFPC2, IMAGE, PC1	F450W	CR-SPLIT=NO	SAME POS AS 2			260.0 Secs [==>]	[2]
	5	(2) ESO185-13	WFPC2, IMAGE, PC1	F814W	CR-SPLIT=DEF	SAME POS AS 1			2400.0 Secs [==>(Split 1)] [==>(Split 2)]	[3]
	6	(2) ESO185-13	WFPC2, IMAGE, PC1	F814W	CR-SPLIT=DEF	SAME POS AS 2			1600.0 Secs [==>(Split 1)] [==>(Split 2)]	[4]
	7	(2) ESO185-13	WFPC2, IMAGE, PC1	F814W	CR-SPLIT=NO	SAME POS AS 6			500.0 Secs [==>]	[4]





Proposal 10902 - Visit 06 - The Nearest Luminous Blue Compact Galaxies: A Window on Galaxy Formation

Mon May 21 19:38:34 GMT 2007

Visit	Proposal 10902, Visit 06, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2 Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(3)	MRK930 Alt Name1: N0CK000215	RA: 23 31 58.5500 (352.9939583d) Dec: +28 56 52.10 (28.94781d) Equinox: J2000			V=15.3+/-0.1	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) MRK930	WFPC2, IMAGE, PC1	F606W	CR-SPLIT=DEF			2400.0 Secs [==>(Split 1)] [==>(Split 2)]	[1]
	2		(3) MRK930	WFPC2, IMAGE, PC1	F606W	CR-SPLIT=DEF	POS TARG 0.25,0.2 5		1600.0 Secs [==>(Split 1)] [==>(Split 2)]	[2]
	3		(3) MRK930	WFPC2, IMAGE, PC1	F450W	CR-SPLIT=NO	SAME POS AS 2		160.0 Secs [==>]	[2]
	4		(3) MRK930	WFPC2, IMAGE, PC1	F450W	CR-SPLIT=NO	SAME POS AS 2		260.0 Secs [==>]	[2]
	5		(3) MRK930	WFPC2, IMAGE, PC1	F814W	CR-SPLIT=DEF	SAME POS AS 1		2400.0 Secs [==>(Split 1)] [==>(Split 2)]	[3]
	6		(3) MRK930	WFPC2, IMAGE, PC1	F814W	CR-SPLIT=DEF	SAME POS AS 2		1600.0 Secs [==>(Split 1)] [==>(Split 2)]	[4]
	7		(3) MRK930	WFPC2, IMAGE, PC1	F814W	CR-SPLIT=NO	SAME POS AS 6		500.0 Secs [==>]	[4]

