



12304 - Metallicity distribution functions of 4 Local Group dwarf galaxies

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) LEO-I	WFC3/IR WFC3/UVIS	3	23-Apr-2012 21:01:24.0	yes
02	(1) LEO-I	WFC3/IR WFC3/UVIS	3	23-Apr-2012 21:01:45.0	yes
03	(2) LEO-II	WFC3/IR WFC3/UVIS	3	23-Apr-2012 21:02:01.0	yes
04	(2) LEO-II	WFC3/IR WFC3/UVIS	3	23-Apr-2012 21:02:17.0	yes
09	(2) LEO-II	WFC3/UVIS	2	23-Apr-2012 21:02:29.0	yes
05	(3) PHOENIX	WFC3/IR WFC3/UVIS	4	23-Apr-2012 21:02:44.0	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>
06	(3) PHOENIX	WFC3/IR WFC3/UVIS	4	23-Apr-2012 21:03:02.0	yes
07	(4) IC-1613	WFC3/IR WFC3/UVIS	4	23-Apr-2012 21:03:26.0	yes
08	(4) IC-1613	WFC3/IR WFC3/UVIS	4	23-Apr-2012 21:03:45.0	yes

30 Total Orbits Used

ABSTRACT

We will measure metallicity distribution functions (MDFs) in four Local Group dwarf galaxies (Leo I, Leo II, Phoenix, and IC 1613) using a new medium band filter available with WFC3 that covers the Ca H and K lines -- the strongest metal absorption lines in the visible spectrum of cooler stars. In addition to the Ca filter (F390M), we will obtain broadband observations in several optical and near-IR filters. Together, these will yield metallicity measurements with an accuracy of about 0.2 dex for giants brighter than the red clump. Unlike broadband colors, our multiband metallicity measurements will be insensitive to age variations in the population and reddening uncertainties or variations. The photometric metallicities will allow us to construct MDFs with almost an order of magnitude more stars than has been obtained from the ground for Leo I and Leo II, and hence will provide more stringent constraints on the number of rarer, more metal-poor stars; these will provide the first measurements of the metallicity distribution function in Phoenix and IC1613. The four galaxies span a wide range of different star formation histories. The MDFs will constrain models of chemical evolution and improve the derivation of the star formation histories.

OBSERVING DESCRIPTION

4 targets, 5 filters

Proposal 12304 - Visit 01 - Metallicity distribution functions of 4 Local Group dwarf galaxies

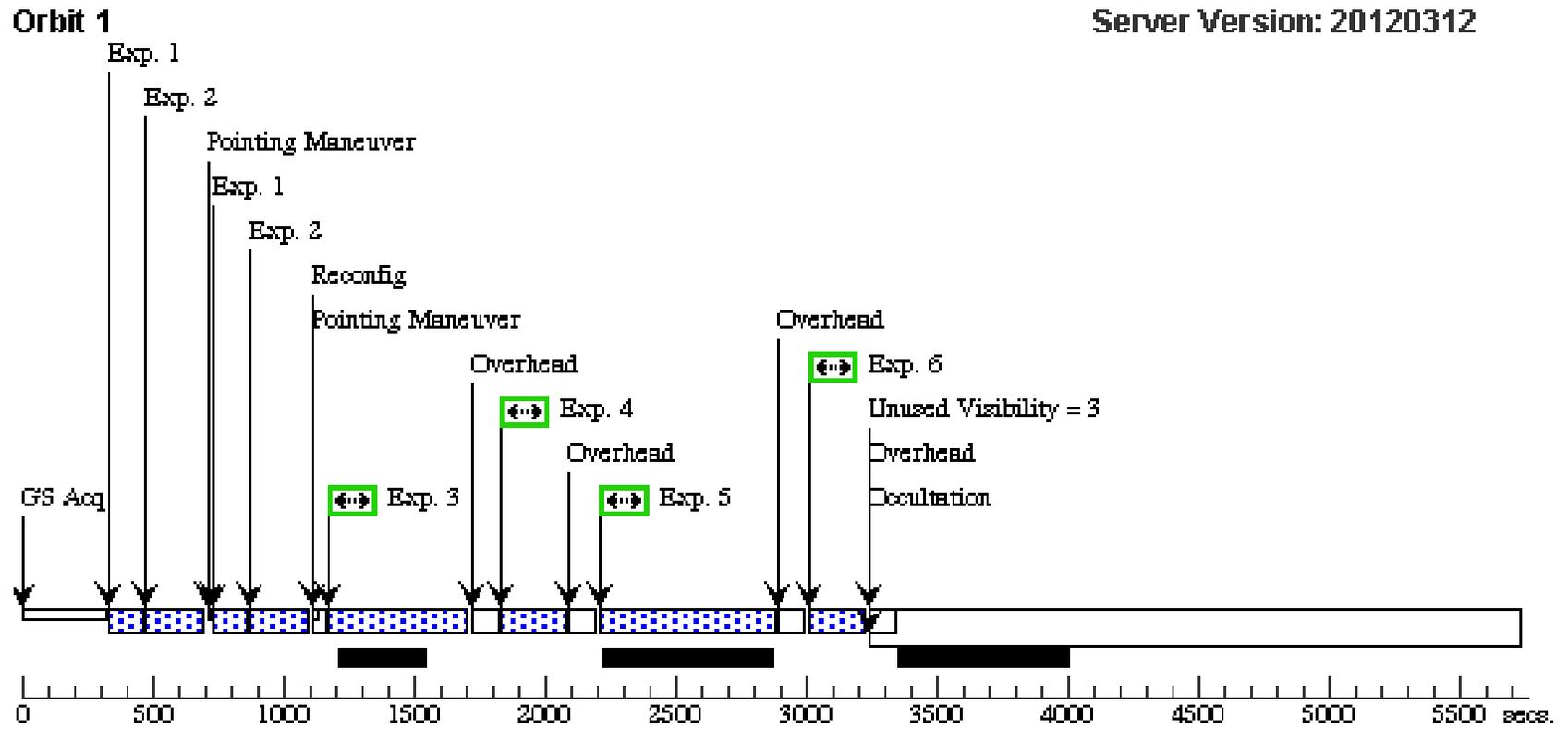
Tue Apr 24 01:03:59 GMT 2012

Visit	Proposal 12304, Visit 01, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none) <i>Comments: First pointing for Leo I. Both visits use a common target, but with POS TARGS in opposite directions. Same exposure sequence in both cases.</i>					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(7)	
	(3)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1-2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	LEO-I	RA: 10 08 28.1000 (152.1170833d) Dec: +12 18 23.00 (12.30639d) Equinox: J2000		V=15	Reference Frame: ICRS
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>					

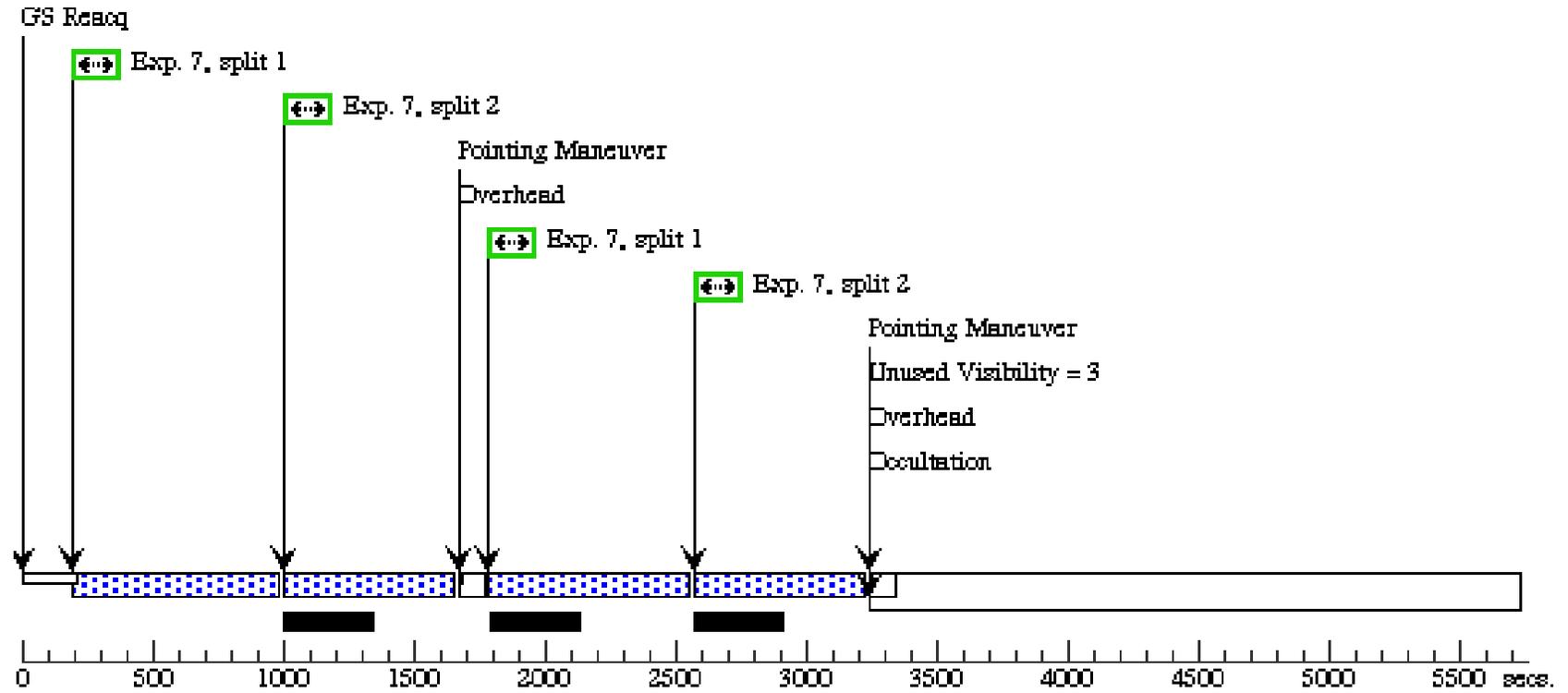
Proposal 12304 - Visit 01 - Metallicity distribution functions of 4 Local Group dwarf galaxies

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) LEO-I		WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=SPARS 50; NSAMP=3	POS TARG -67,null	Pattern 3, Exps 1-2 in Visit 01 (3)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(1) LEO-I		WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=3; SAMP-SEQ=SPARS100	POS TARG -67,null	Pattern 3, Exps 1-2 in Visit 01 (3)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(1) LEO-I		WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG -81.0		500 Secs [==>]	[1]
	4	(1) LEO-I		WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG -81.0		250 Secs [==>]	[1]
	5	(1) LEO-I		WFC3/UVIS, ACCUM, UVIS-CENTER	F555W		POS TARG -81.0		665 Secs [==>]	[1]
	6	(1) LEO-I		WFC3/UVIS, ACCUM, UVIS-CENTER	F555W		POS TARG -81.0		215 Secs [==>]	[1]
	7	(1) LEO-I		WFC3/UVIS, ACCUM, UVIS-CENTER	F390M	CR-SPLIT=2	POS TARG -81,null	Pattern 1, Exps 7-7 in Visit 01 (1)	1314 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)] [==>(Pattern 4, Split 1)] [==>(Pattern 4, Split 2)]	[2] [3]

Orbit Structure

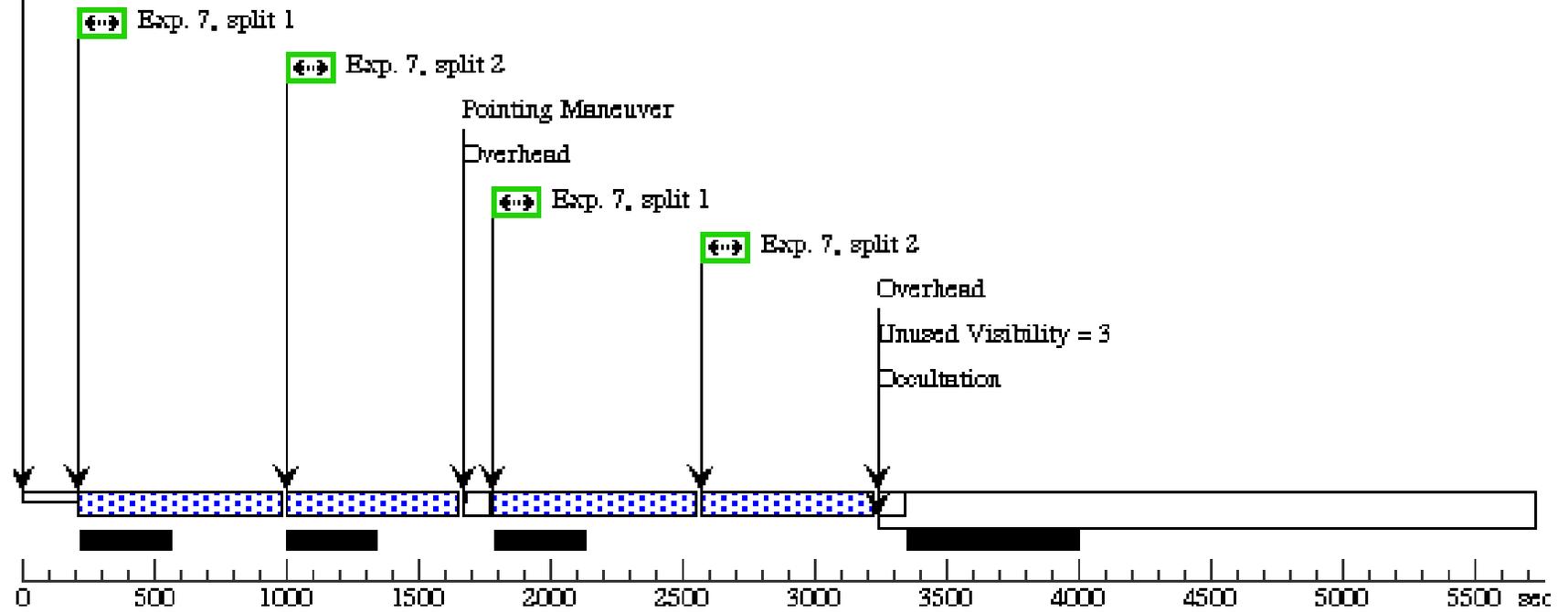


Orbit 2



Orbit 3

GS Req



Proposal 12304 - Visit 02 - Metallicity distribution functions of 4 Local Group dwarf galaxies

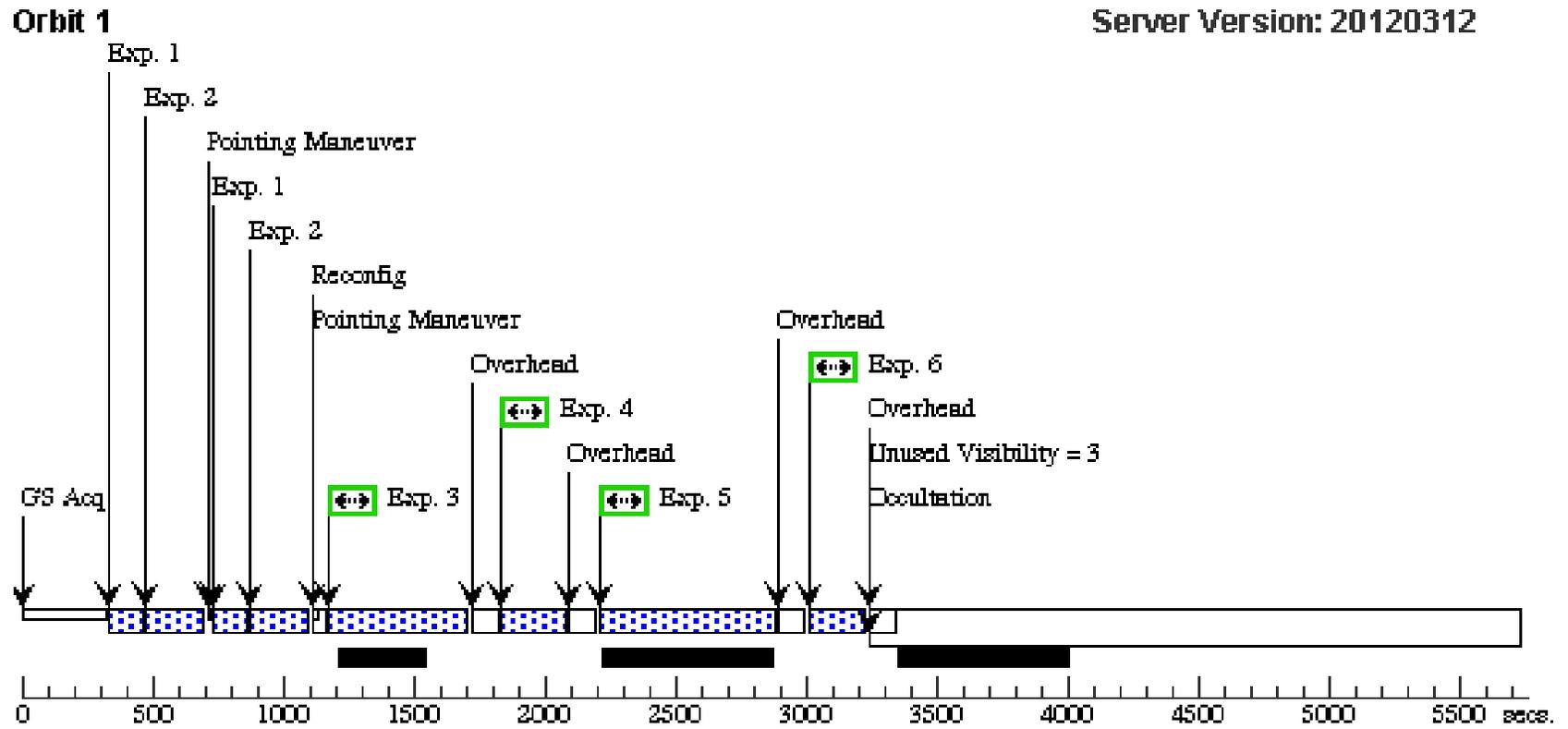
Tue Apr 24 01:04:01 GMT 2012

Visit	Proposal 12304, Visit 02, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SAME ORIENT AS 01 <i>Comments: Second pointing for Leo I. Both visits use a common target, but with POS TARGS in opposite directions. Same exposure sequence in both cases.</i>					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
(1)		Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(7)	
(3)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1-2)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	LEO-I	RA: 10 08 28.1000 (152.1170833d) Dec: +12 18 23.00 (12.30639d) Equinox: J2000		V=15	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>						

Proposal 12304 - Visit 02 - Metallicity distribution functions of 4 Local Group dwarf galaxies

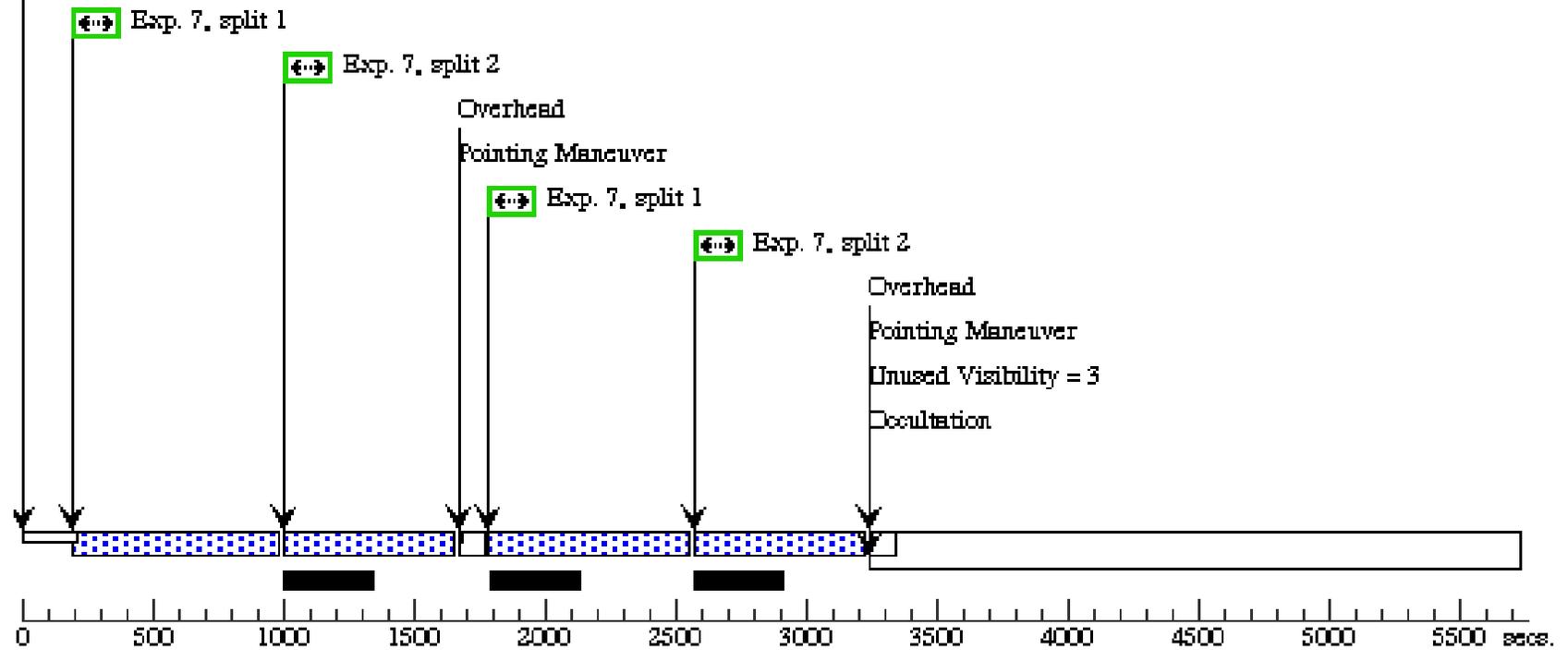
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) LEO-I		WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=SPARS 50; NSAMP=3	POS TARG 67,null	Pattern 3, Exps 1-2 in Visit 02 (3)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(1) LEO-I		WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=3; SAMP-SEQ=SPARS100	POS TARG 67,null	Pattern 3, Exps 1-2 in Visit 02 (3)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(1) LEO-I		WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 81,0		500 Secs [==>]	[1]
	4	(1) LEO-I		WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 81,0		250 Secs [==>]	[1]
	5	(1) LEO-I		WFC3/UVIS, ACCUM, UVIS-CENTER	F555W		POS TARG 81,0		665 Secs [==>]	[1]
	6	(1) LEO-I		WFC3/UVIS, ACCUM, UVIS-CENTER	F555W		POS TARG 81,0		215 Secs [==>]	[1]
	7	(1) LEO-I		WFC3/UVIS, ACCUM, UVIS-CENTER	F390M	CR-SPLIT=2	POS TARG 81,null	Pattern 1, Exps 7-7 in Visit 02 (1)	1314 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)] [==>(Pattern 4, Split 1)] [==>(Pattern 4, Split 2)]	[2] [3]

Orbit Structure



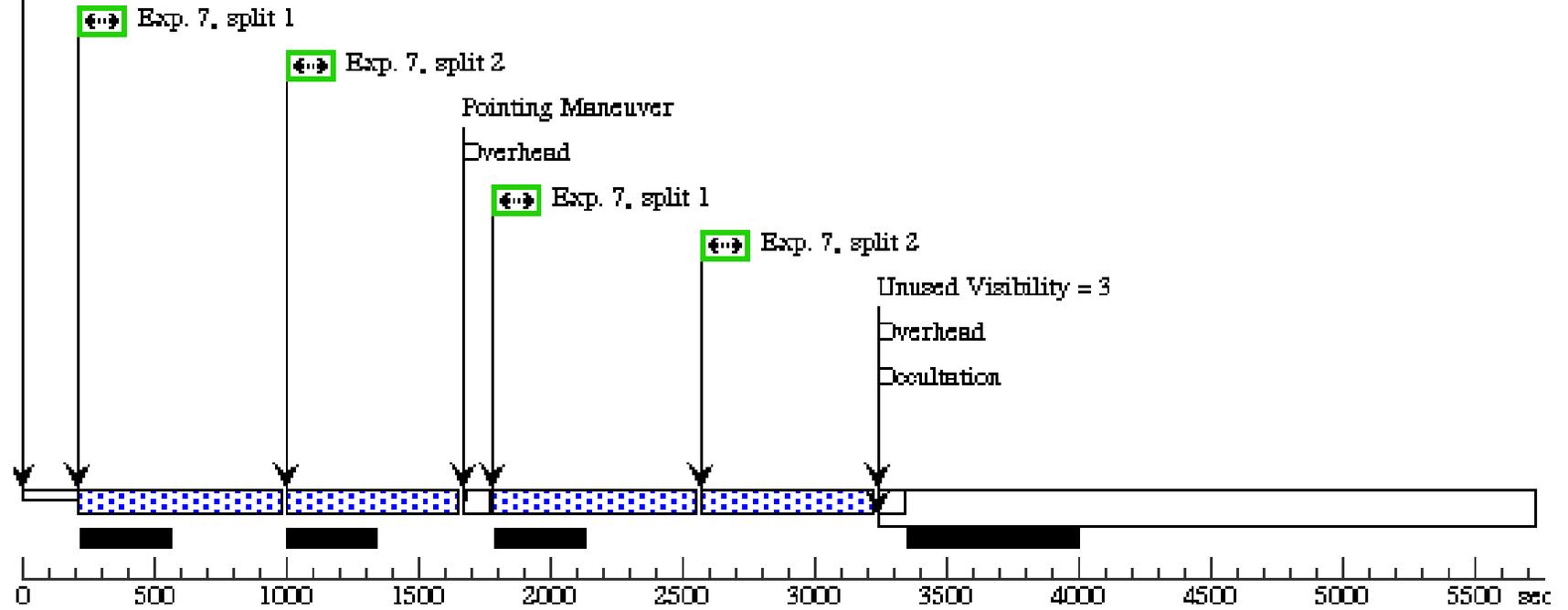
Orbit 2

GS Reacq



Orbit 3

GS Req



Proposal 12304 - Visit 03 - Metallicity distribution functions of 4 Local Group dwarf galaxies

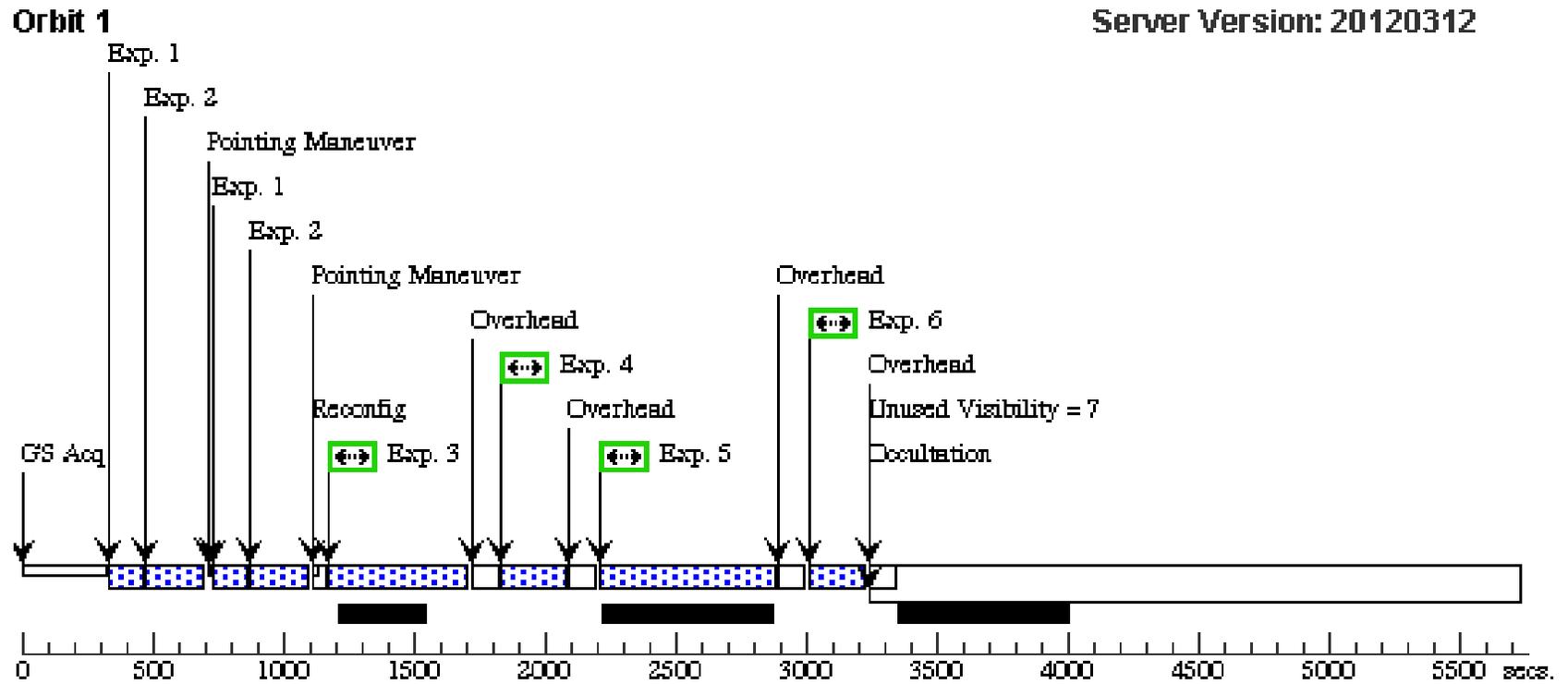
Tue Apr 24 01:04:03 GMT 2012

Visit	Proposal 12304, Visit 03, completed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none) <i>Comments: First pointing for Leo II. Both visits use a common target, but with POS TARGS in opposite directions. Same exposure sequence in both cases.</i>					
	Diagnosics (Visit 03) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 03) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 03) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 03) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 03) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 03) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112 Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(7)		
	(3)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1-2)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	LEO-II	RA: 11 13 27.1089 (168.3629538d) Dec: +22 09 33.22 (22.15923d) Equinox: J2000		V=12.9	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>						

Proposal 12304 - Visit 03 - Metallicity distribution functions of 4 Local Group dwarf galaxies

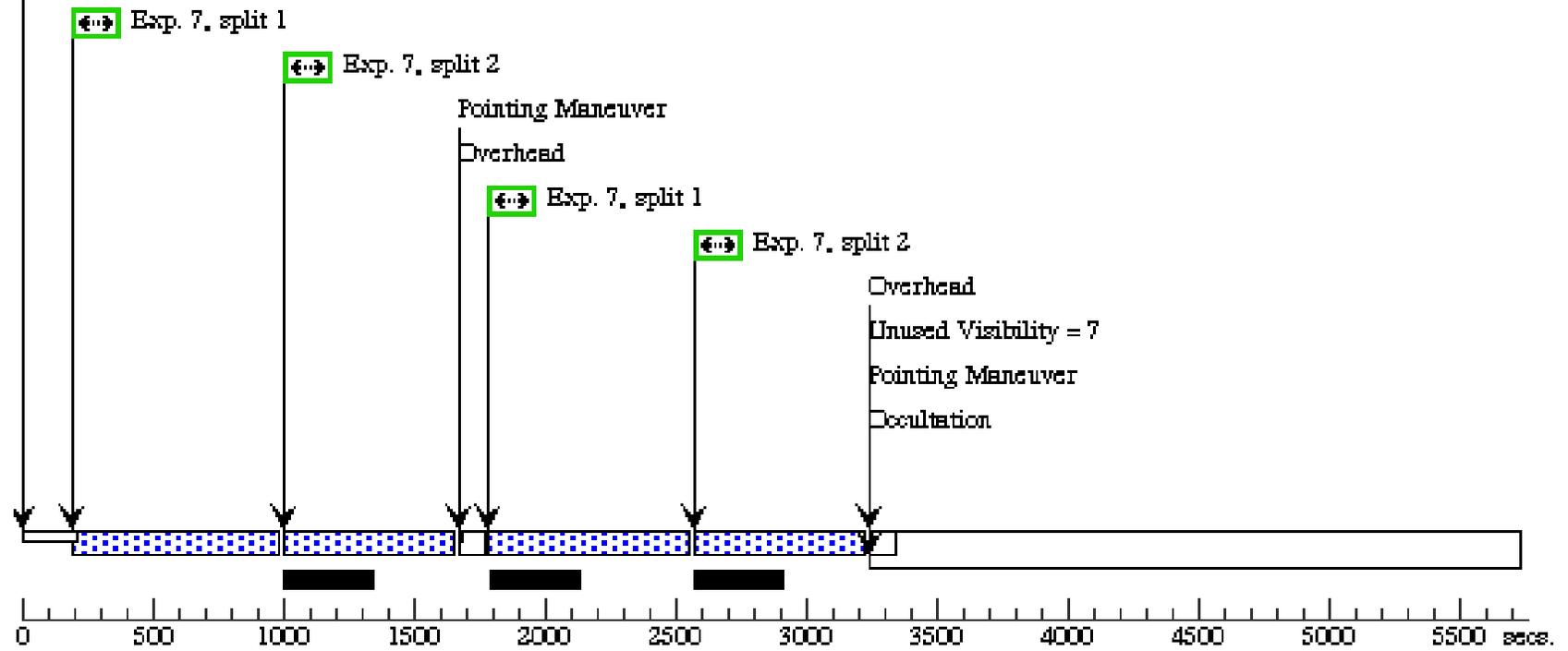
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(2) LEO-II	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=SPARS 50; NSAMP=3	POS TARG -72,null	Pattern 3, Exps 1-2 in Visit 03 (3)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
	2	(2) LEO-II	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=3; SAMP-SEQ=SPARS100	POS TARG -72,null	Pattern 3, Exps 1-2 in Visit 03 (3)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
	3	(2) LEO-II	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG -86,0		500 Secs [==>]	[1]	
	4	(2) LEO-II	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG -86,0		250 Secs [==>]	[1]	
	5	(2) LEO-II	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W		POS TARG -86,0		665 Secs [==>]	[1]	
	6	(2) LEO-II	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W		POS TARG -86,0		215 Secs [==>]	[1]	
	7	(2) LEO-II	WFC3/UVIS, ACCUM, UVIS-CENTER	F390M	CR-SPLIT=2	POS TARG -86,null	Pattern 1, Exps 7-7 in Visit 03 (1)	1314 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)] [==>(Pattern 4, Split 1)] [==>(Pattern 4, Split 2)]	[2] [3]	

Orbit Structure



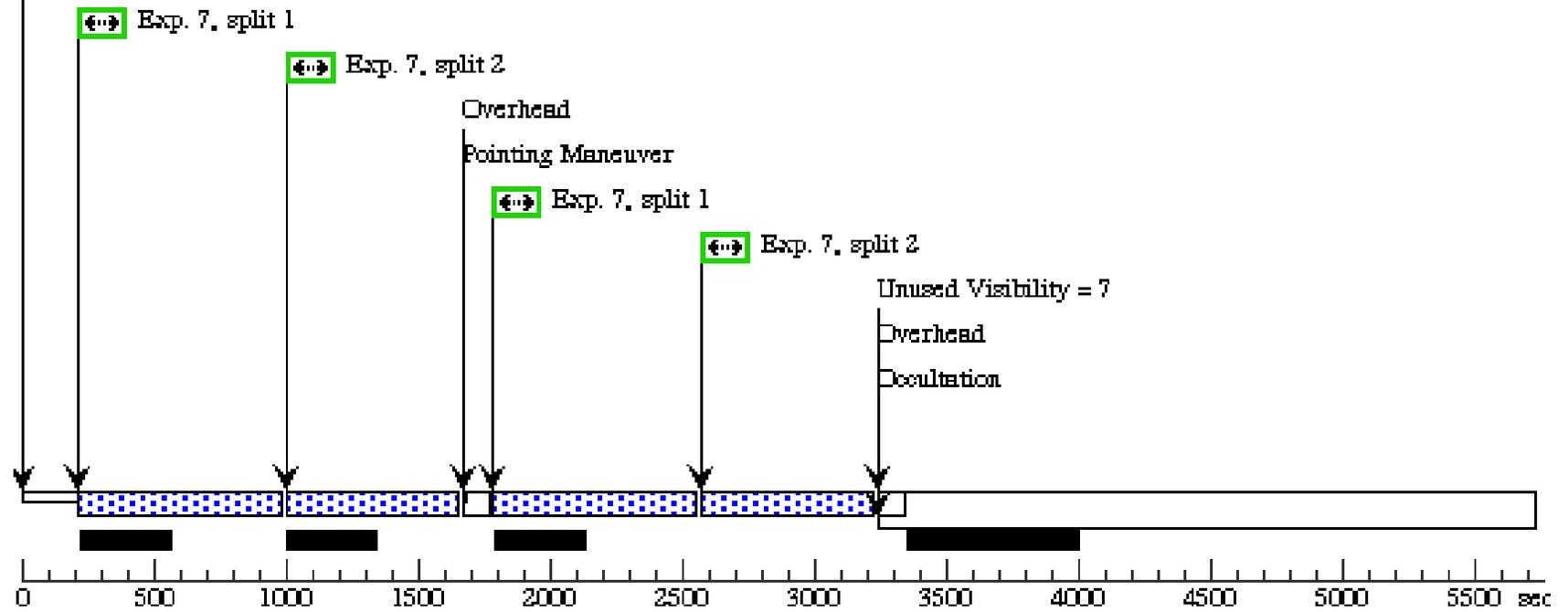
Orbit 2

GS Reacq



Orbit 3

GS Req



Proposal 12304 - Visit 04 - Metallicity distribution functions of 4 Local Group dwarf galaxies

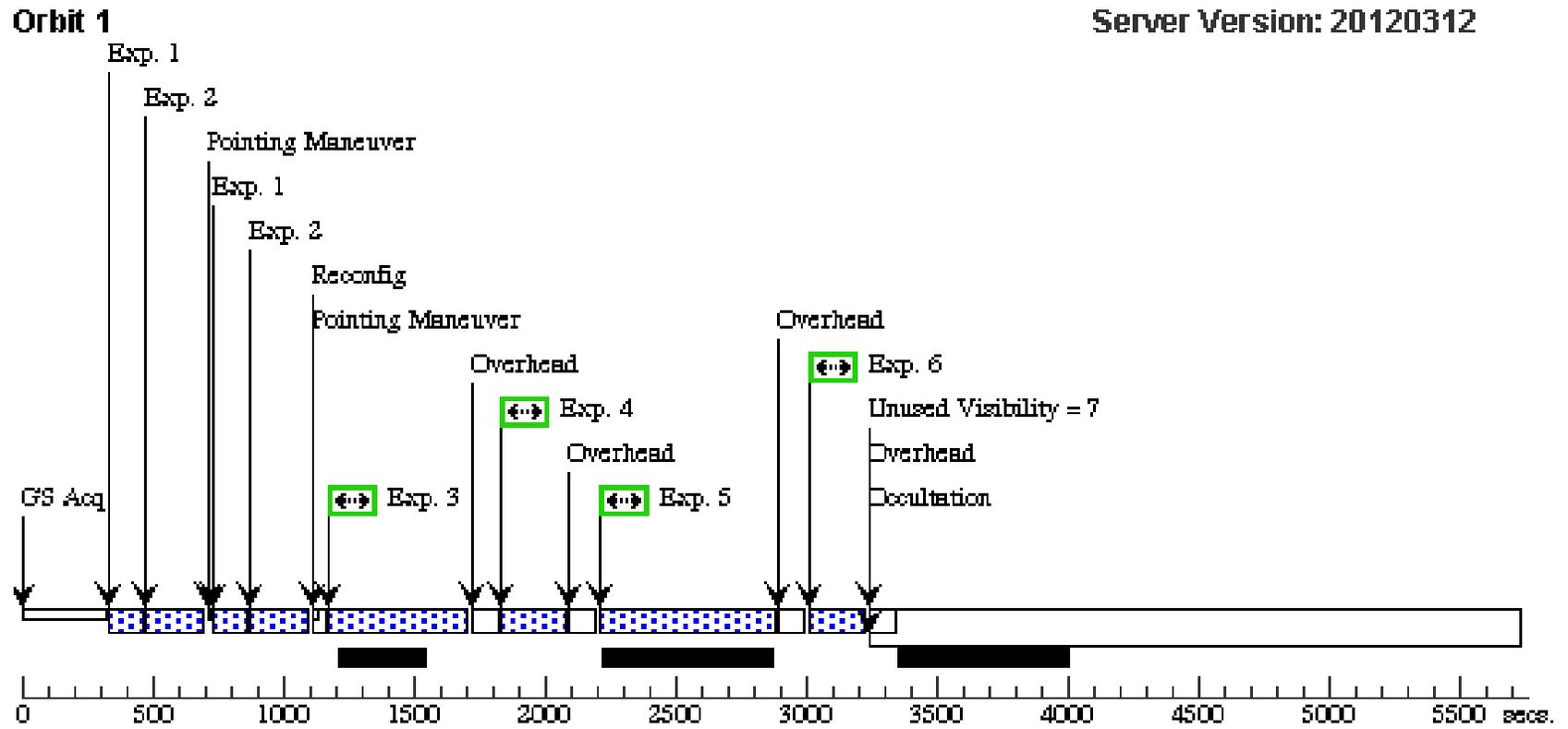
Tue Apr 24 01:04:04 GMT 2012

Visit	Proposal 12304, Visit 04, failed Diagnostic Status: Warning Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: SAME ORIENT AS 03 <i>Comments: Second pointing for Leo II. Both visits use a common target, but with POS TARGs in opposite directions. Same exposure sequence in both cases.</i>					
	Diagnosics (Visit 04) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 04) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 04) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 04) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 04) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE (Visit 04) Warning (Orbit Planner): POS TARG OUTSIDE OF APERTURE					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112 Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(7)		
	(3)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1-2)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	LEO-II	RA: 11 13 27.1089 (168.3629538d) Dec: +22 09 33.22 (22.15923d) Equinox: J2000		V=12.9	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>						

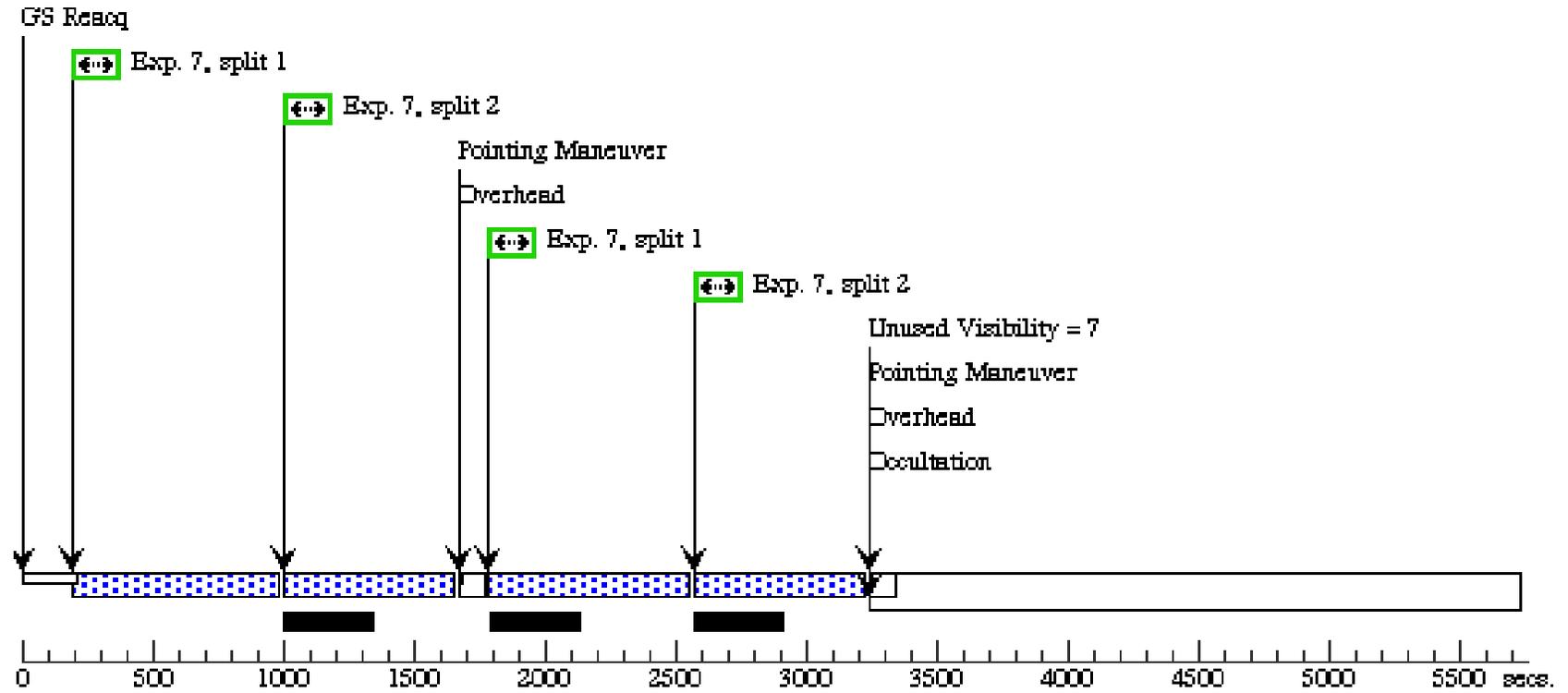
Proposal 12304 - Visit 04 - Metallicity distribution functions of 4 Local Group dwarf galaxies

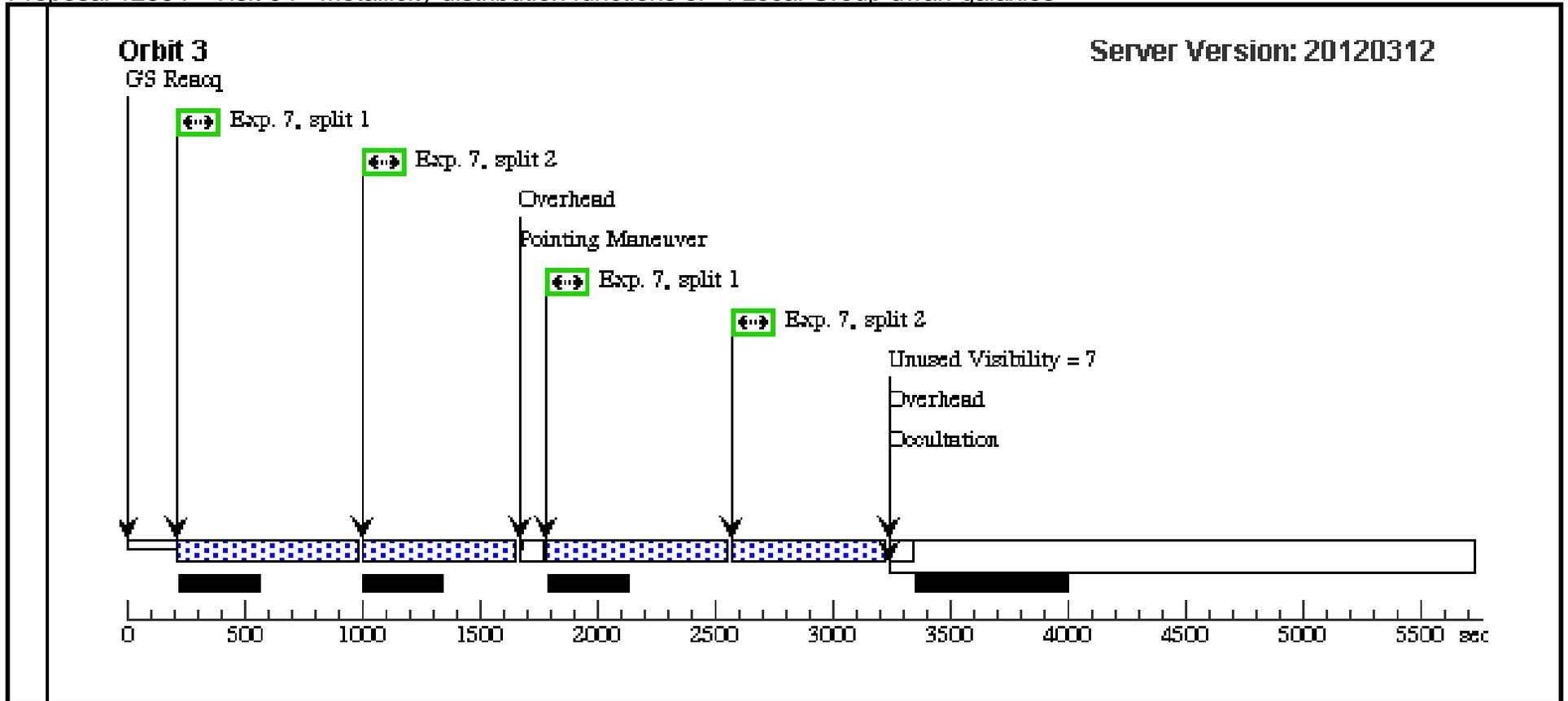
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(2) LEO-II	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=SPARS 50; NSAMP=3	POS TARG 72,null	Pattern 3, Exps 1-2 in Visit 04 (3)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
	2	(2) LEO-II	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=3; SAMP-SEQ=SPARS100	POS TARG 72,null	Pattern 3, Exps 1-2 in Visit 04 (3)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
	3	(2) LEO-II	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 86,0		500 Secs [==>]	[1]	
	4	(2) LEO-II	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W		POS TARG 86,0		250 Secs [==>]	[1]	
	5	(2) LEO-II	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W		POS TARG 86,0		665 Secs [==>]	[1]	
	6	(2) LEO-II	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W		POS TARG 86,0		215 Secs [==>]	[1]	
	7	(2) LEO-II	WFC3/UVIS, ACCUM, UVIS-CENTER	F390M	CR-SPLIT=2	POS TARG 86,null	Pattern 1, Exps 7-7 in Visit 04 (1)	1314 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)] [==>(Pattern 4, Split 1)] [==>(Pattern 4, Split 2)]	[2] [3]	

Orbit Structure



Orbit 2



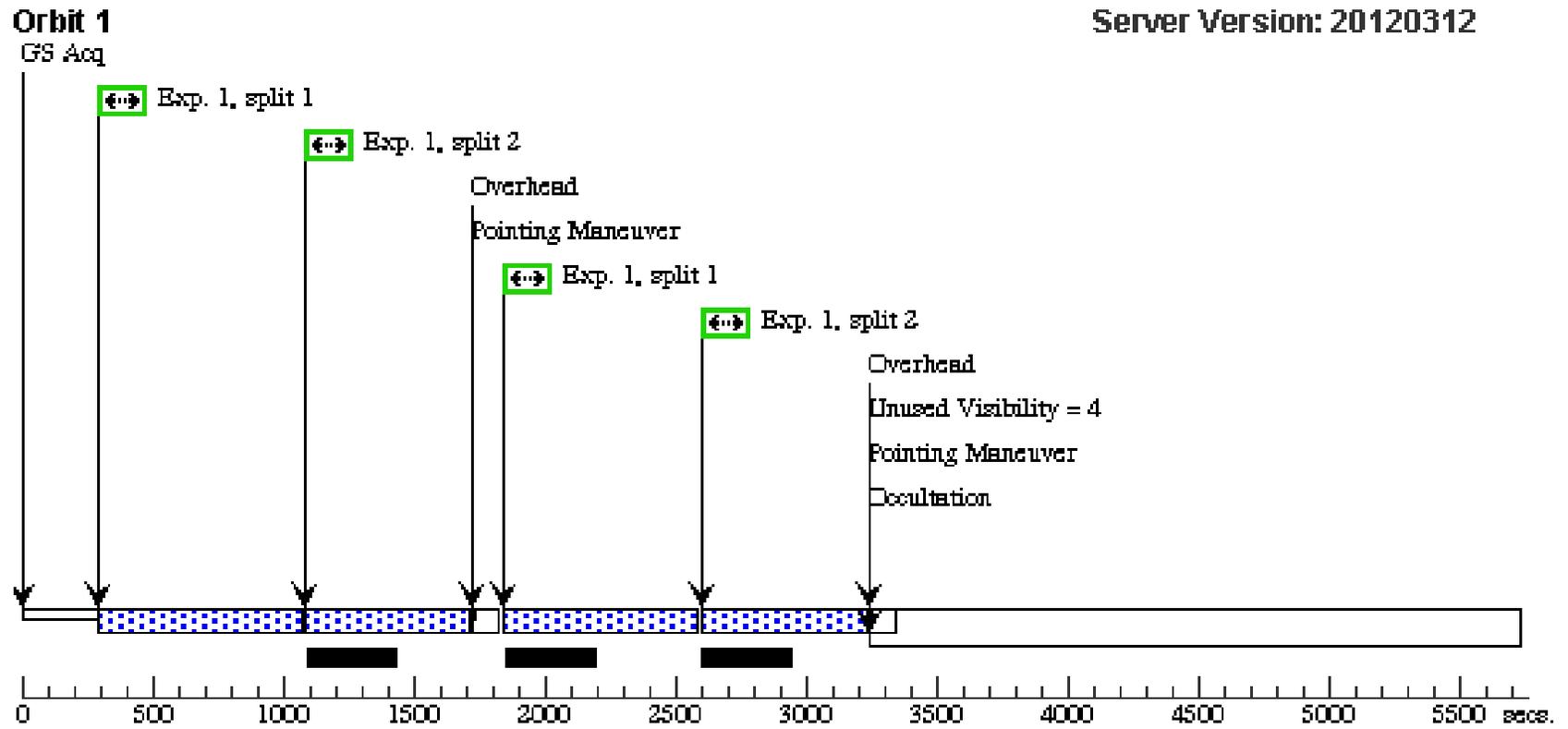


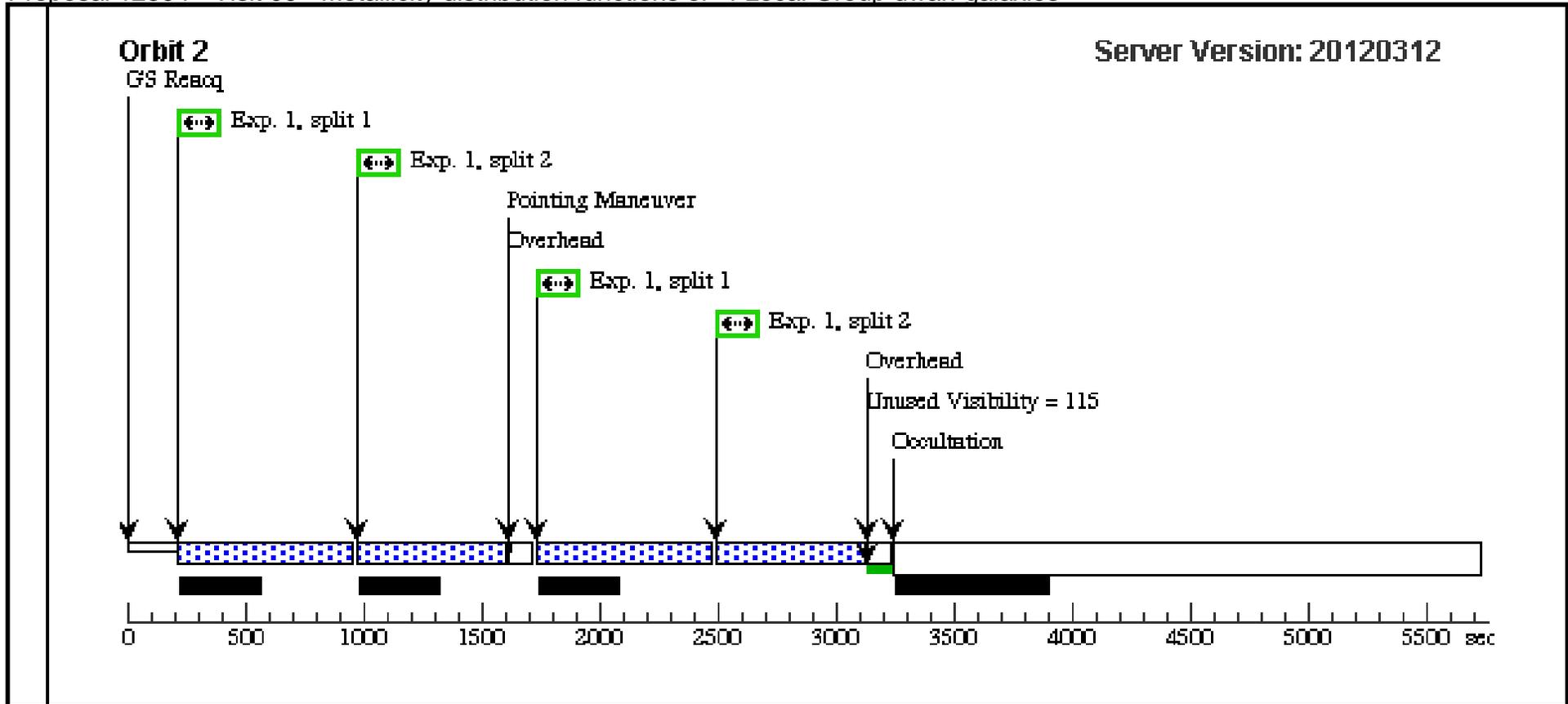
Proposal 12304 - Visit 09 - Metallicity distribution functions of 4 Local Group dwarf galaxies

Tue Apr 24 01:04:06 GMT 2012

Visit	Proposal 12304, Visit 09 Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: SAME ORIENT AS 04 <i>Comments: Retake of F390M exposures in second pointing for Leo II, because of failed exposures in first try. Needs to match exposures of first attempt as closely as possible (pointing and orientation).</i>									
	Diagnosics (Visit 09) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112				Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false			(1)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(2)	LEO-II	RA: 11 13 27.1089 (168.3629538d) Dec: +22 09 33.22 (22.15923d) Equinox: J2000			V=12.9	Reference Frame: ICRS			
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(2) LEO-II		WFC3/UVIS, ACCUM, UVIS-CENTER	F390M	CR-SPLIT=2	POS TARG 86,null	Pattern 1, Exps 1-1 in Visit 09 (1)	1260 Secs	
									[==>(Pattern 1, Split 1)]	
									[==>(Pattern 1, Split 2)]	[1]
									[==>(Pattern 2, Split 1)]	
								[==>(Pattern 2, Split 2)]		
								[==>(Pattern 3, Split 1)]		
								[==>(Pattern 3, Split 2)]		
								[==>(Pattern 4, Split 1)]		
								[==>(Pattern 4, Split 2)]	[2]	

Orbit Structure





Proposal 12304 - Visit 05 - Metallicity distribution functions of 4 Local Group dwarf galaxies

Tue Apr 24 01:04:06 GMT 2012

Visit	Proposal 12304, Visit 05, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none) <i>Comments: First visit for Phoenix. Both visits have same pointing and same exposure sequence, split to keep number of orbits per visit down.</i>					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
		(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(8)
		(3)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1-2)
(4)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(7)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	PHOENIX	RA: 01 51 6.3000 (27.7762500d) Dec: -44 26 41.00 (-44.44472d) Equinox: J2000		V=15	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>						

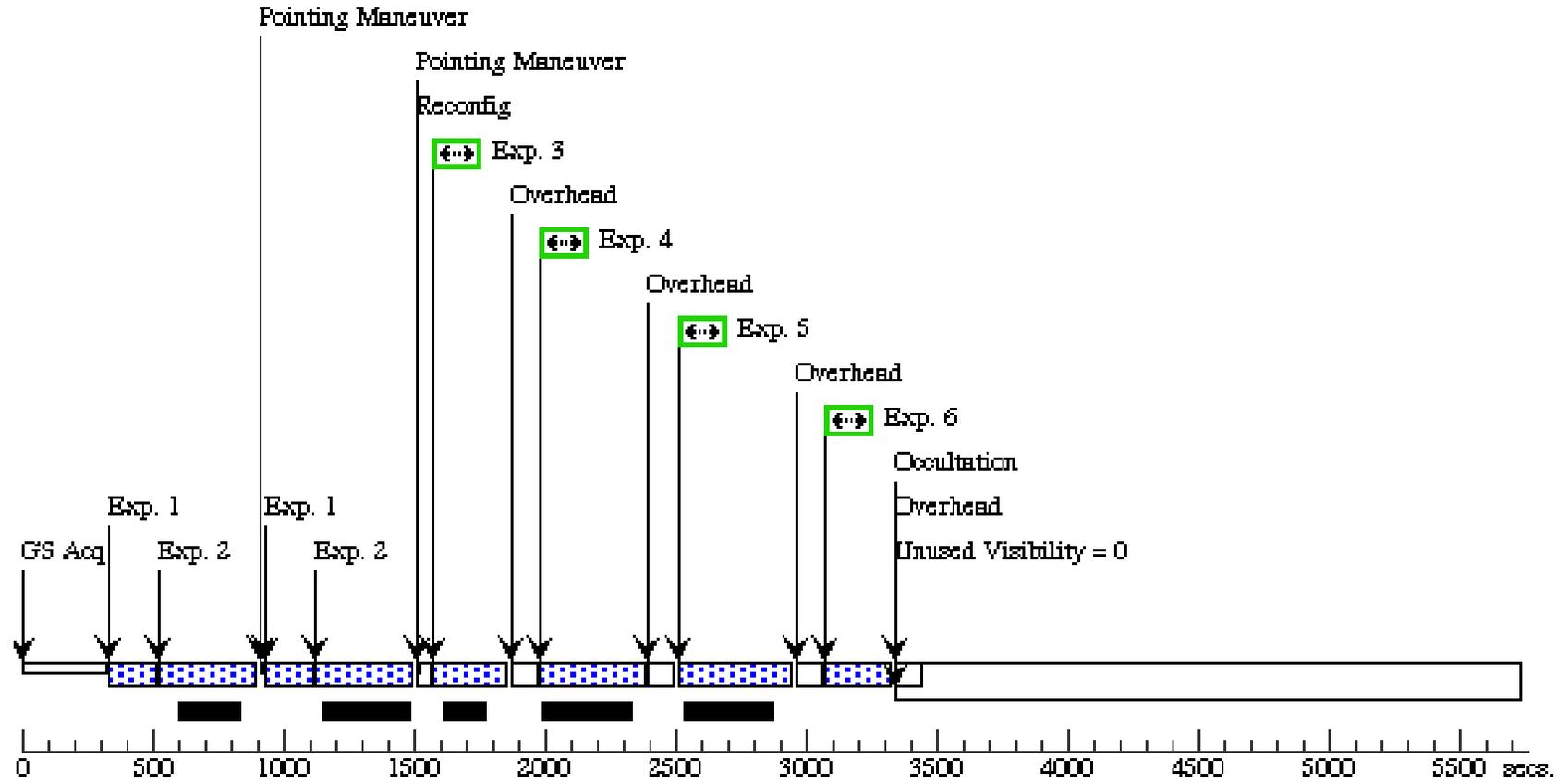
Proposal 12304 - Visit 05 - Metallicity distribution functions of 4 Local Group dwarf galaxies

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(3) PHOENIX	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=SPARS 25; NSAMP=7	POS TARG 0,null	Pattern 3, Exps 1-2 i n Visit 05 (3)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
	2	(3) PHOENIX	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG 0,null	Pattern 3, Exps 1-2 i n Visit 05 (3)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
	3	(3) PHOENIX	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W				250 Secs [==>]	[1]	
	4	(3) PHOENIX	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W				400 Secs [==>]	[1]	
	5	(3) PHOENIX	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W				420 Secs [==>]	[1]	
	6	(3) PHOENIX	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W				250 Secs [==>]	[1]	
	7	(3) PHOENIX	WFC3/UVIS, ACCUM, UVIS-CENTER	F390M	CR-SPLIT=2		Pattern 4, Exps 7-7 i n Visit 05 (4)	1360 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)]	[2]	
	8	(3) PHOENIX	WFC3/UVIS, ACCUM, UVIS-CENTER	F390M	CR-SPLIT=2		Pattern 1, Exps 8-8 i n Visit 05 (1)	1360 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)] [==>(Pattern 4, Split 1)] [==>(Pattern 4, Split 2)]	[3] [4]	

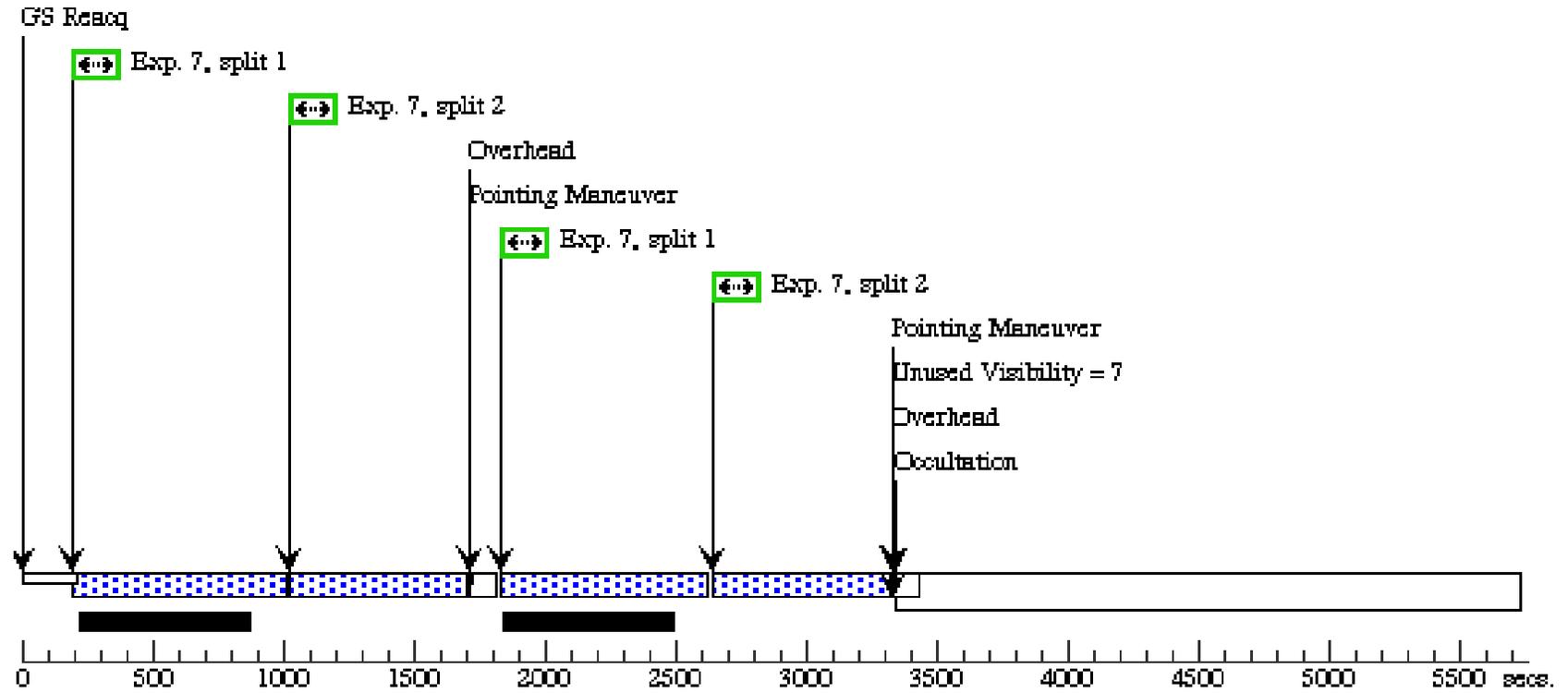
Orbit 1

Server Version: 20120312

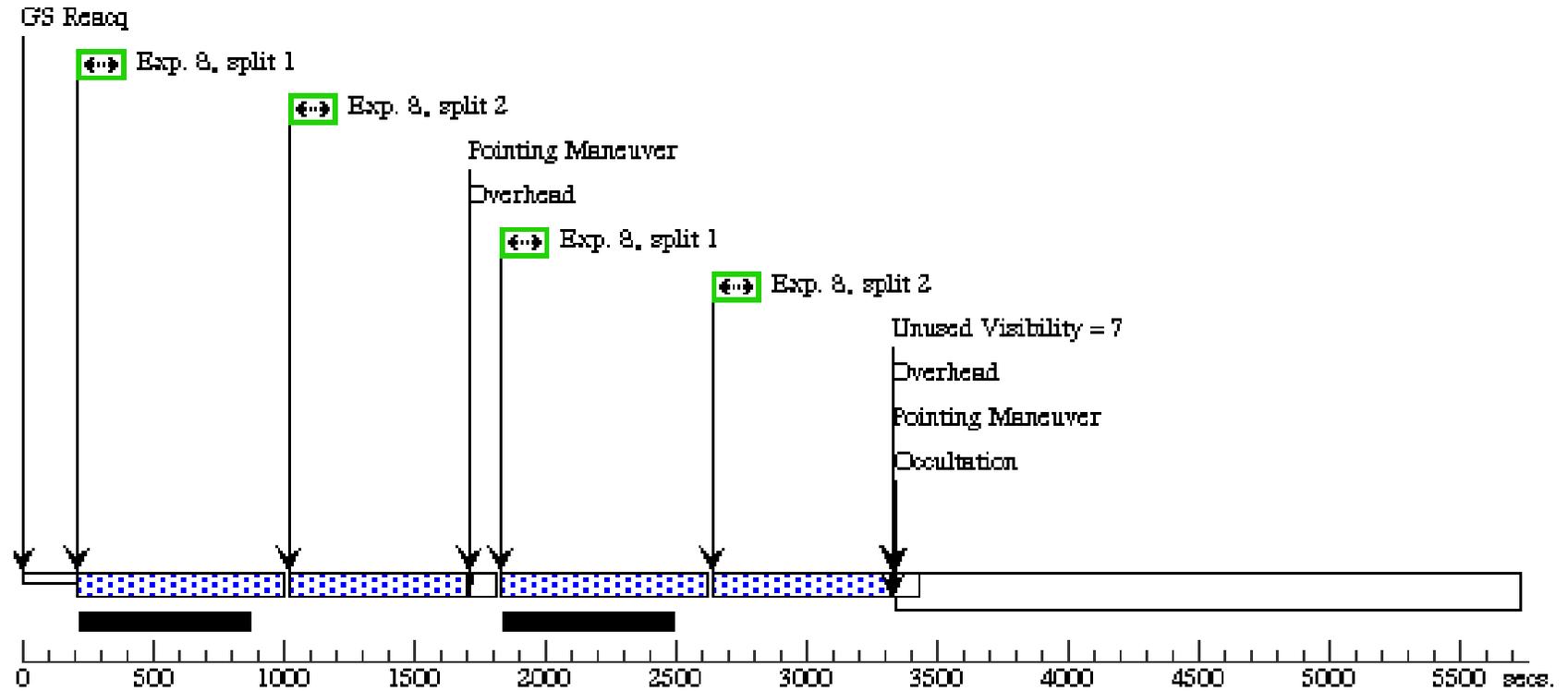
Orbit Structure

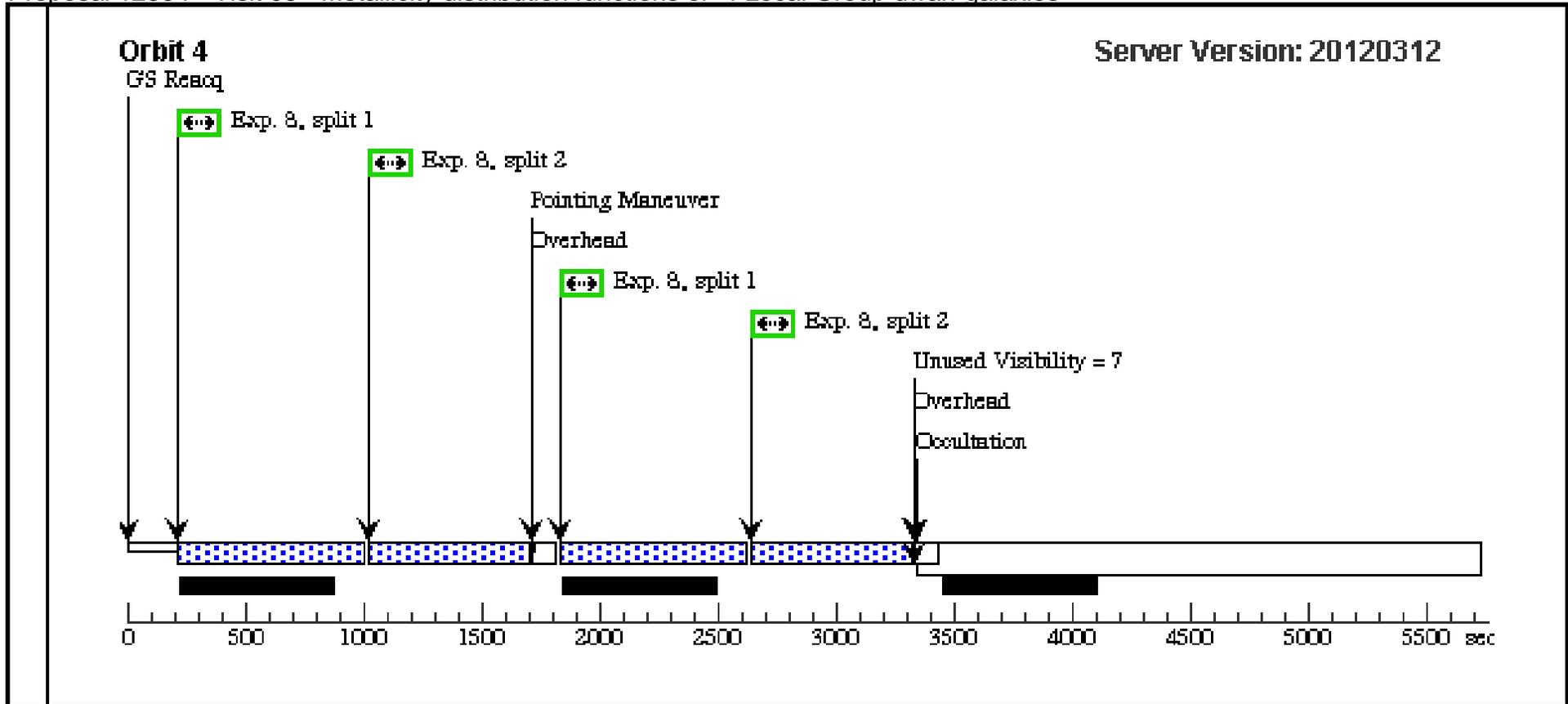


Orbit 2



Orbit 3





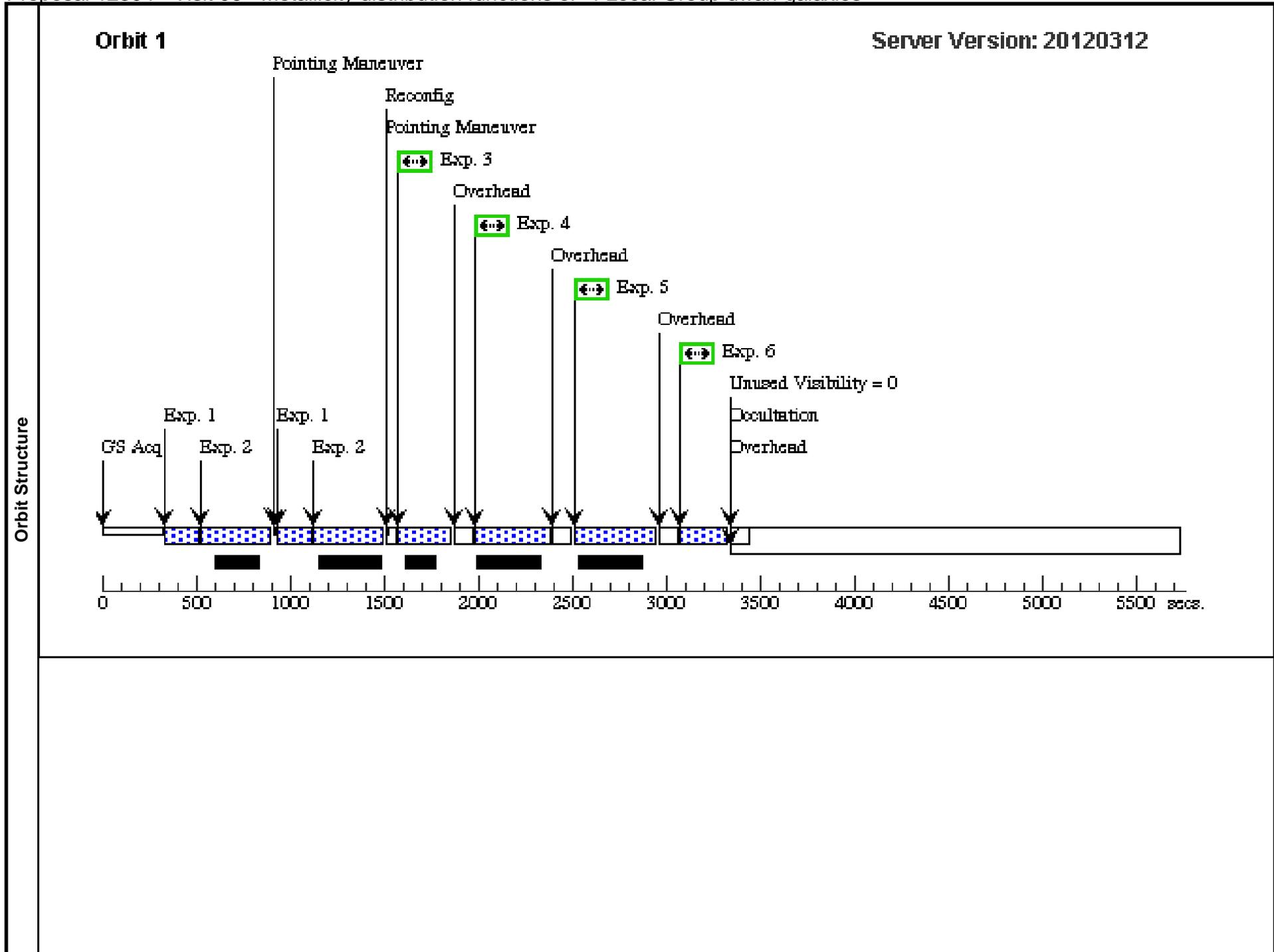
Proposal 12304 - Visit 06 - Metallicity distribution functions of 4 Local Group dwarf galaxies

Tue Apr 24 01:04:08 GMT 2012

Visit	Proposal 12304, Visit 06, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none) <i>Comments: Second visit for Phoenix. Both visits have same pointing and same exposure sequence, split to keep number of orbits per visit down.</i>					
	#	Primary Pattern	Secondary Pattern	Exposures		
Patterns	(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112 Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(8)		
	(3)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1-2)		
	(4)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(7)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	PHOENIX	RA: 01 51 6.3000 (27.7762500d) Dec: -44 26 41.00 (-44.44472d) Equinox: J2000		V=15	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>						

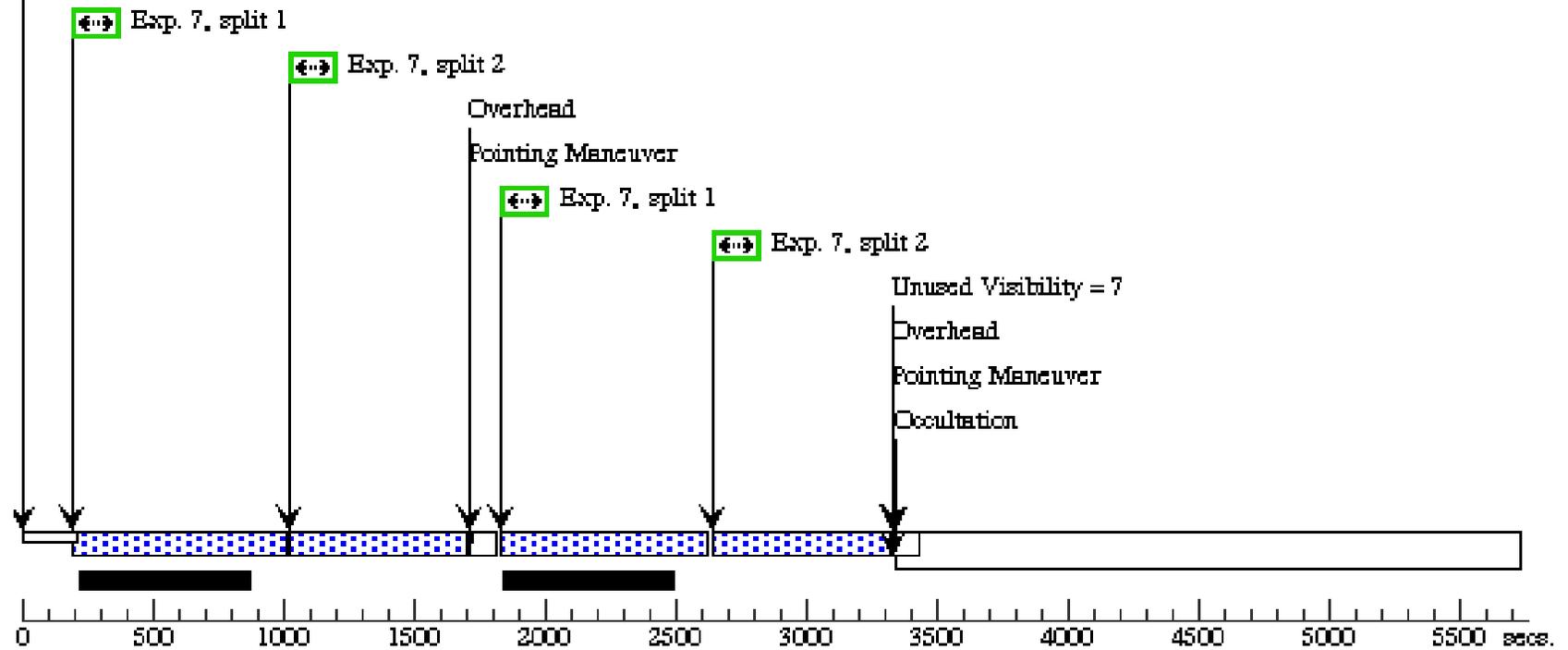
Proposal 12304 - Visit 06 - Metallicity distribution functions of 4 Local Group dwarf galaxies

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(3) PHOENIX	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=SPARS 25; NSAMP=7	POS TARG 0,null	Pattern 3, Exps 1-2 i n Visit 06 (3)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
	2	(3) PHOENIX	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG 0,null	Pattern 3, Exps 1-2 i n Visit 06 (3)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
	3	(3) PHOENIX	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W				250 Secs [==>]	[1]	
	4	(3) PHOENIX	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W				400 Secs [==>]	[1]	
	5	(3) PHOENIX	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W				420 Secs [==>]	[1]	
	6	(3) PHOENIX	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W				250 Secs [==>]	[1]	
	7	(3) PHOENIX	WFC3/UVIS, ACCUM, UVIS-CENTER	F390M	CR-SPLIT=2		Pattern 4, Exps 7-7 i n Visit 06 (4)	1360 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)]	[2]	
	8	(3) PHOENIX	WFC3/UVIS, ACCUM, UVIS-CENTER	F390M	CR-SPLIT=2		Pattern 1, Exps 8-8 i n Visit 06 (1)	1360 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)] [==>(Pattern 4, Split 1)] [==>(Pattern 4, Split 2)]	[3] [4]	

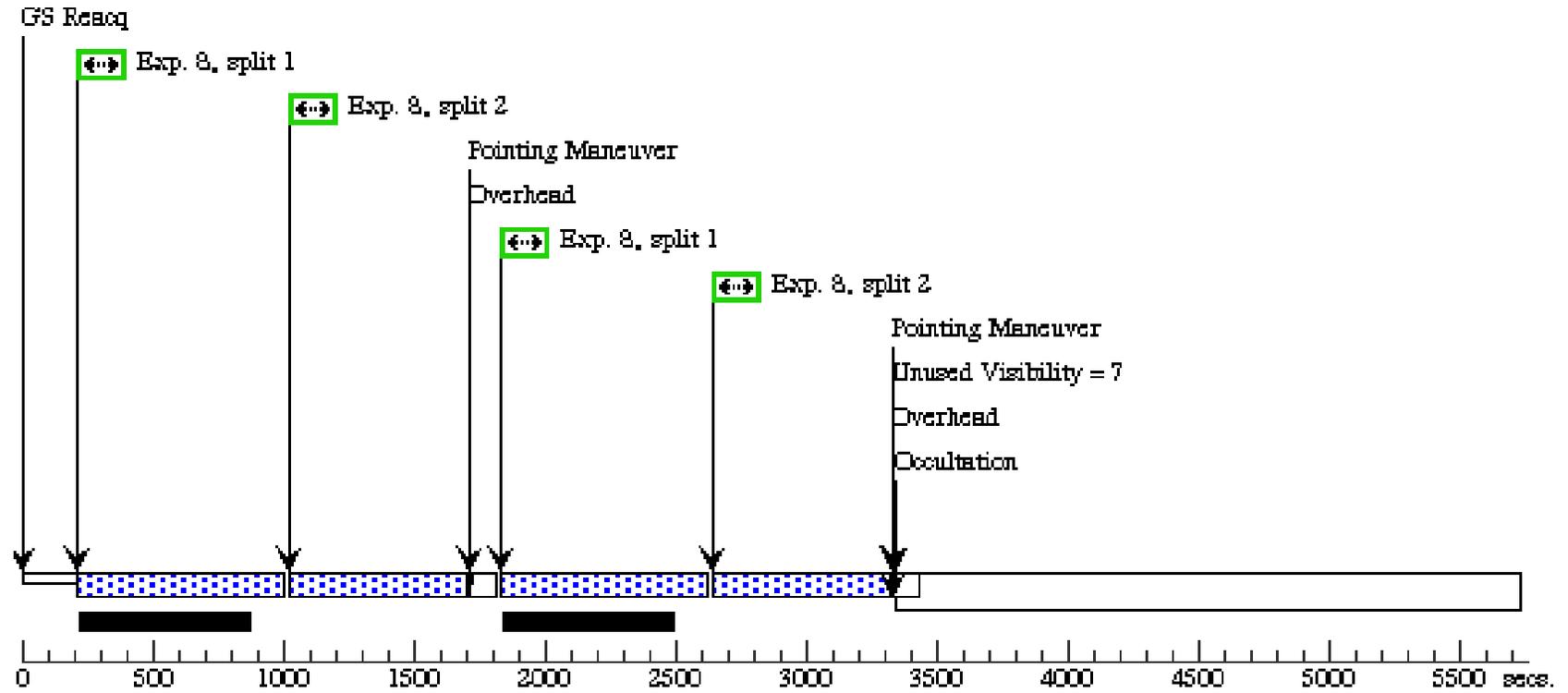


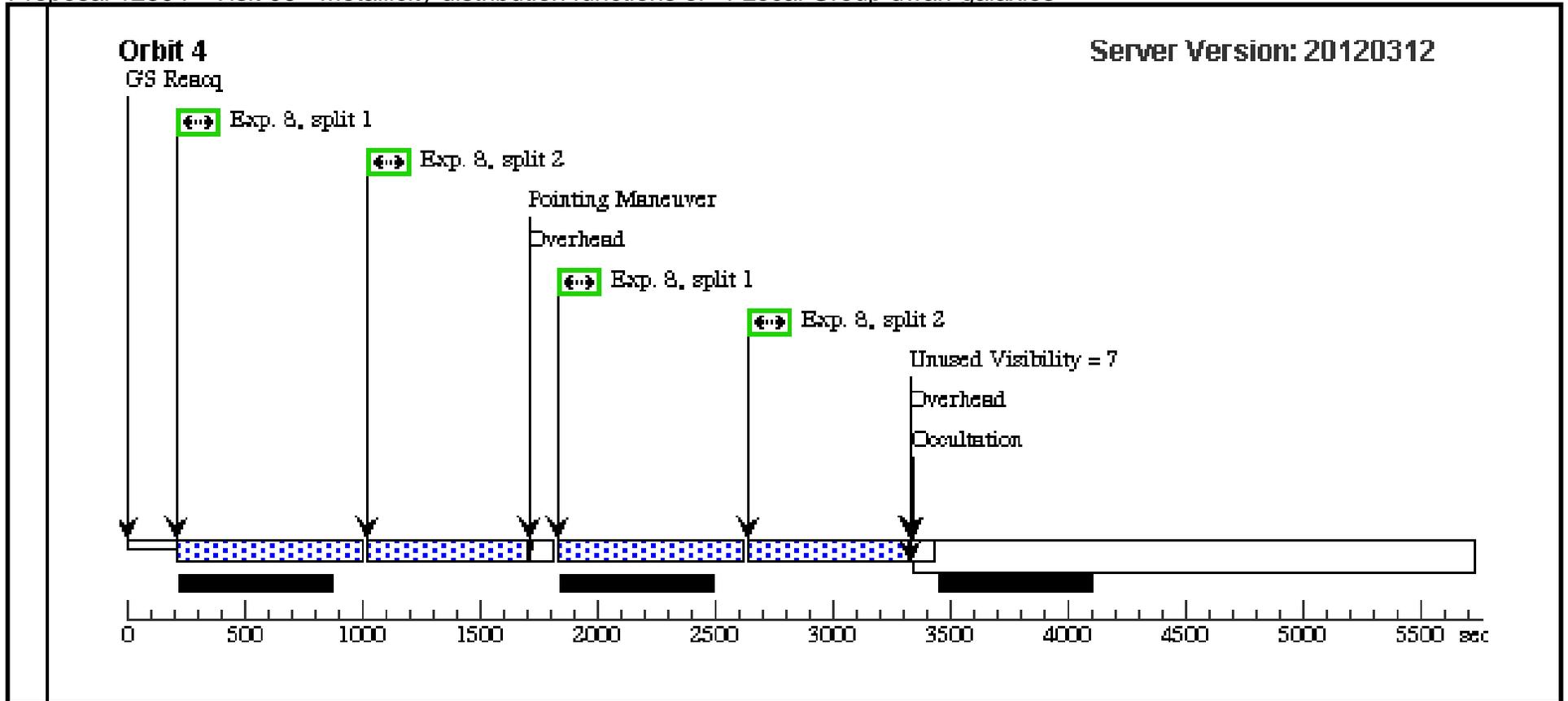
Orbit 2

GS Reacq



Orbit 3





Proposal 12304 - Visit 07 - Metallicity distribution functions of 4 Local Group dwarf galaxies

Tue Apr 24 01:04:09 GMT 2012

Visit	Proposal 12304, Visit 07, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none) <i>Comments: First visit for IC1613. Both visits have same pointing and same exposure sequence, split to keep number of orbits per visit down.</i>					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
		(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(8)
		(3)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false		(1-2)
(4)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(7)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	IC-1613	RA: 01 04 47.8000 (16.1991667d) Dec: +02 07 4.00 (2.11778d) Equinox: J2000		V=15	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>						

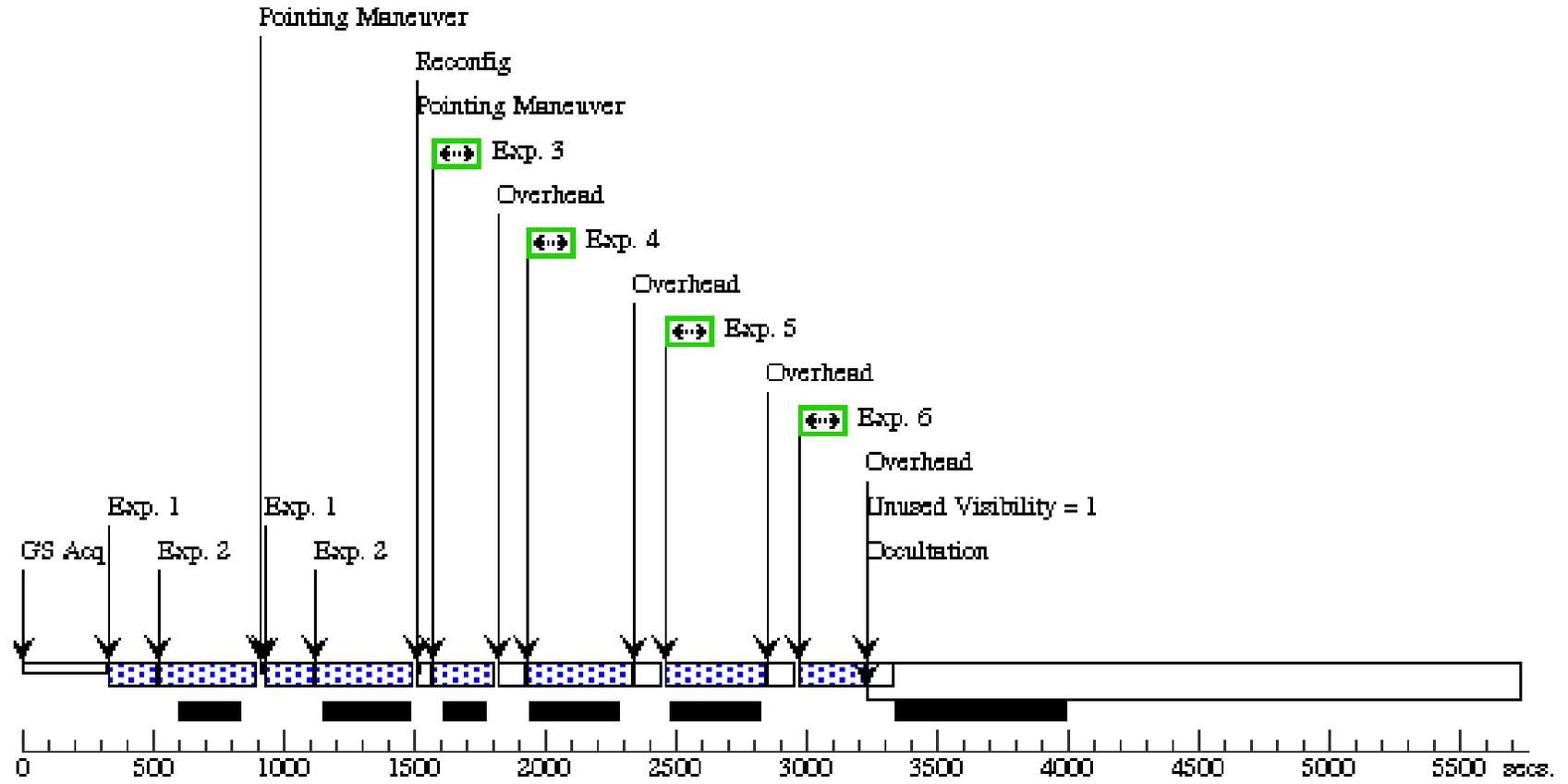
Proposal 12304 - Visit 07 - Metallicity distribution functions of 4 Local Group dwarf galaxies

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(4) IC-1613		WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=SPARS 25; NSAMP=7	POS TARG 0,null	Pattern 3, Exps 1-2 in Visit 07 (3)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2	(4) IC-1613		WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=8; SAMP-SEQ=SPARS50	POS TARG 0,null	Pattern 3, Exps 1-2 in Visit 07 (3)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	3	(4) IC-1613		WFC3/UVIS, ACCUM, UVIS-CENTER	F555W				200 Secs [==>]	[1]
	4	(4) IC-1613		WFC3/UVIS, ACCUM, UVIS-CENTER	F555W				400 Secs [==>]	[1]
	5	(4) IC-1613		WFC3/UVIS, ACCUM, UVIS-CENTER	F814W				362 Secs [==>]	[1]
	6	(4) IC-1613		WFC3/UVIS, ACCUM, UVIS-CENTER	F814W				250 Secs [==>]	[1]
	7	(4) IC-1613		WFC3/UVIS, ACCUM, UVIS-CENTER	F390M	CR-SPLIT=2		Pattern 4, Exps 7-7 in Visit 07 (4)	1310 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)]	[2]
	8	(4) IC-1613		WFC3/UVIS, ACCUM, UVIS-CENTER	F390M	CR-SPLIT=2		Pattern 1, Exps 8-8 in Visit 07 (1)	1310 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)] [==>(Pattern 4, Split 1)] [==>(Pattern 4, Split 2)]	[3] [4]

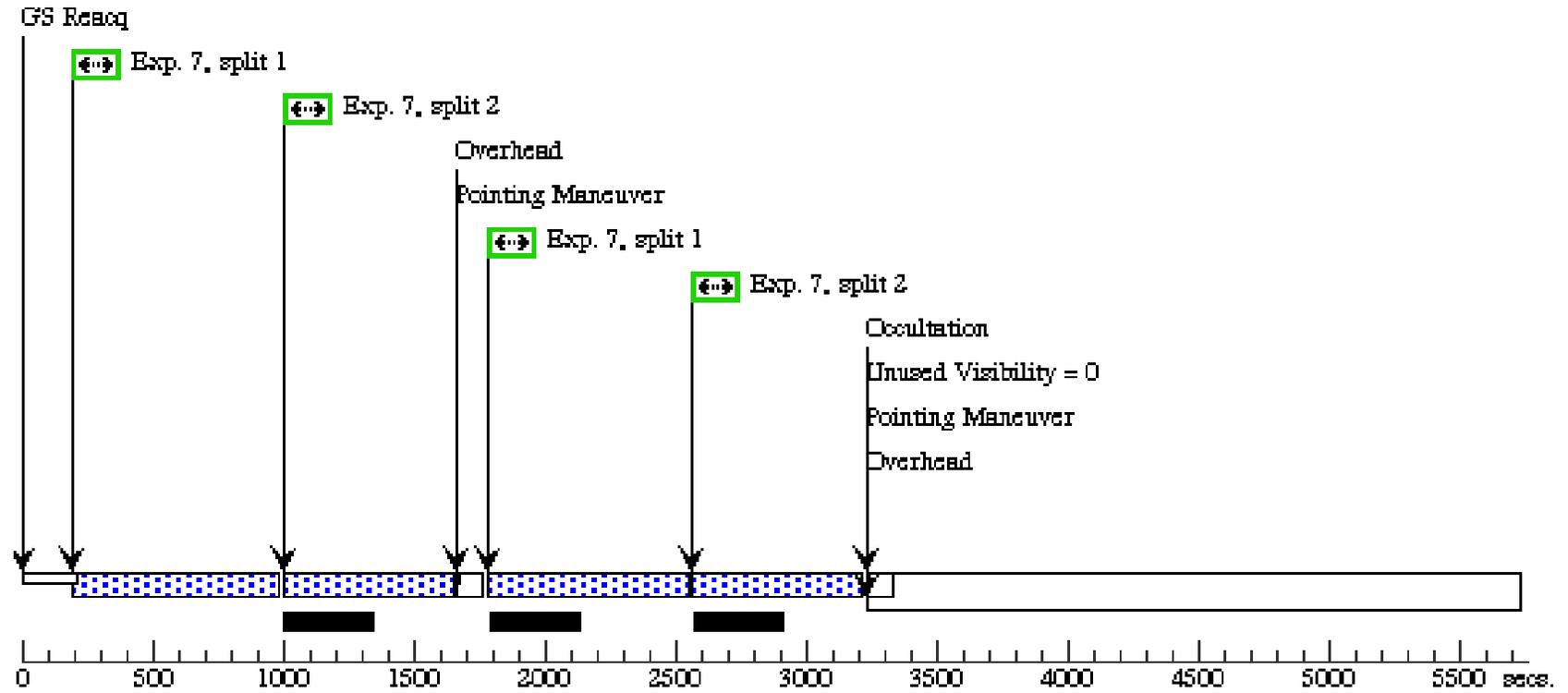
Orbit 1

Server Version: 20120312

Orbit Structure

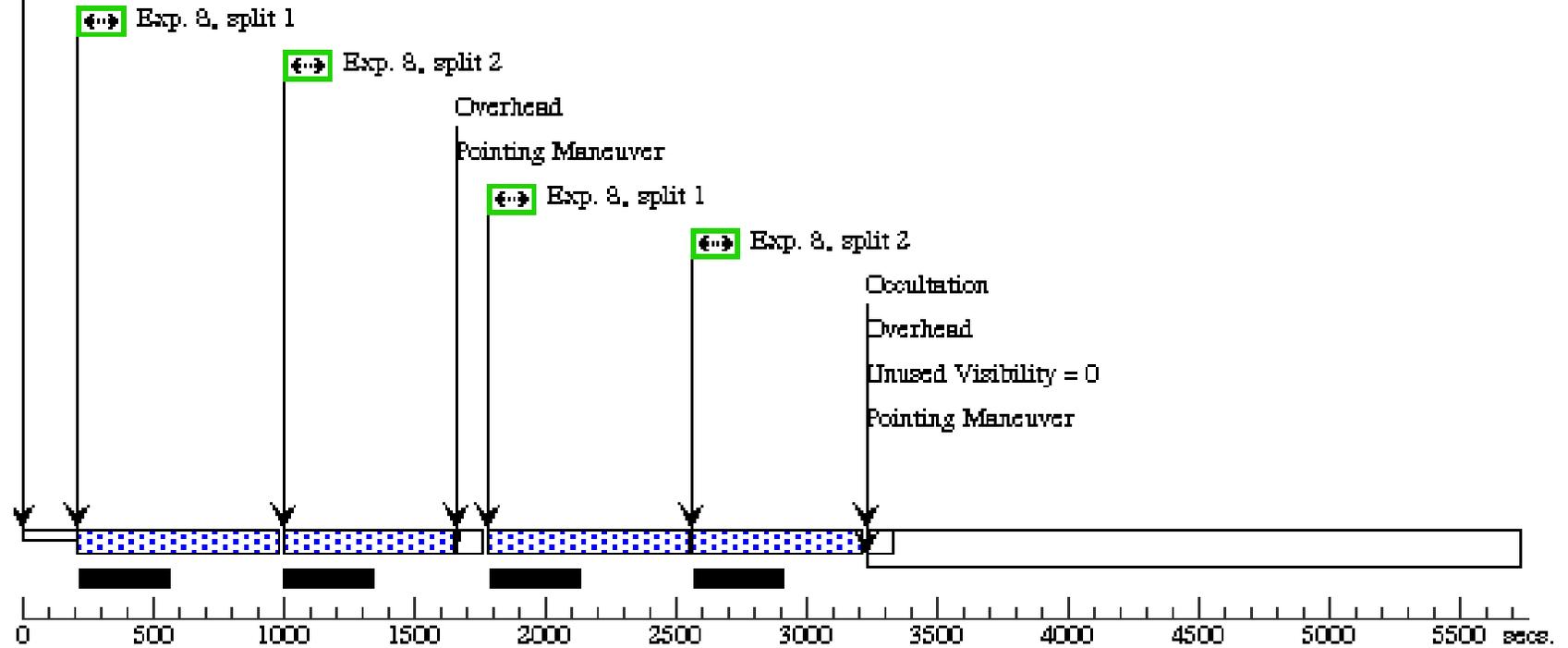


Orbit 2



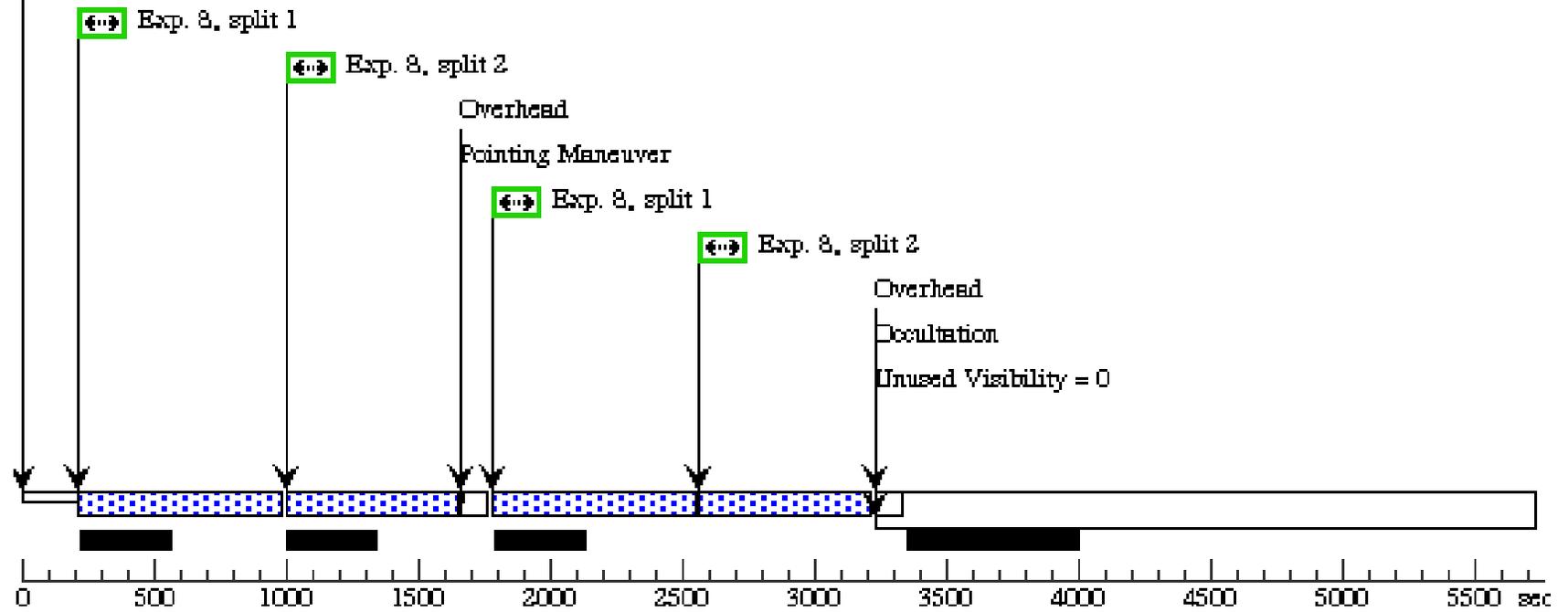
Orbit 3

GS Reacq



Orbit 4

GS Req



Proposal 12304 - Visit 08 - Metallicity distribution functions of 4 Local Group dwarf galaxies

Tue Apr 24 01:04:11 GMT 2012

Visit	Proposal 12304, Visit 08, completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none) <i>Comments: Second visit for IC1613. Both visits have same pointing and same exposure sequence, split to keep number of orbits per visit down.</i>					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
		(1)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false	(8)	
		(3)	Pattern Type=WFC3-IR-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.636 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.788 Angle Between Sides= Center Pattern=false	(1-2)	
(4)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	(7)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	IC-1613	RA: 01 04 47.8000 (16.1991667d) Dec: +02 07 4.00 (2.11778d) Equinox: J2000		V=15	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>						

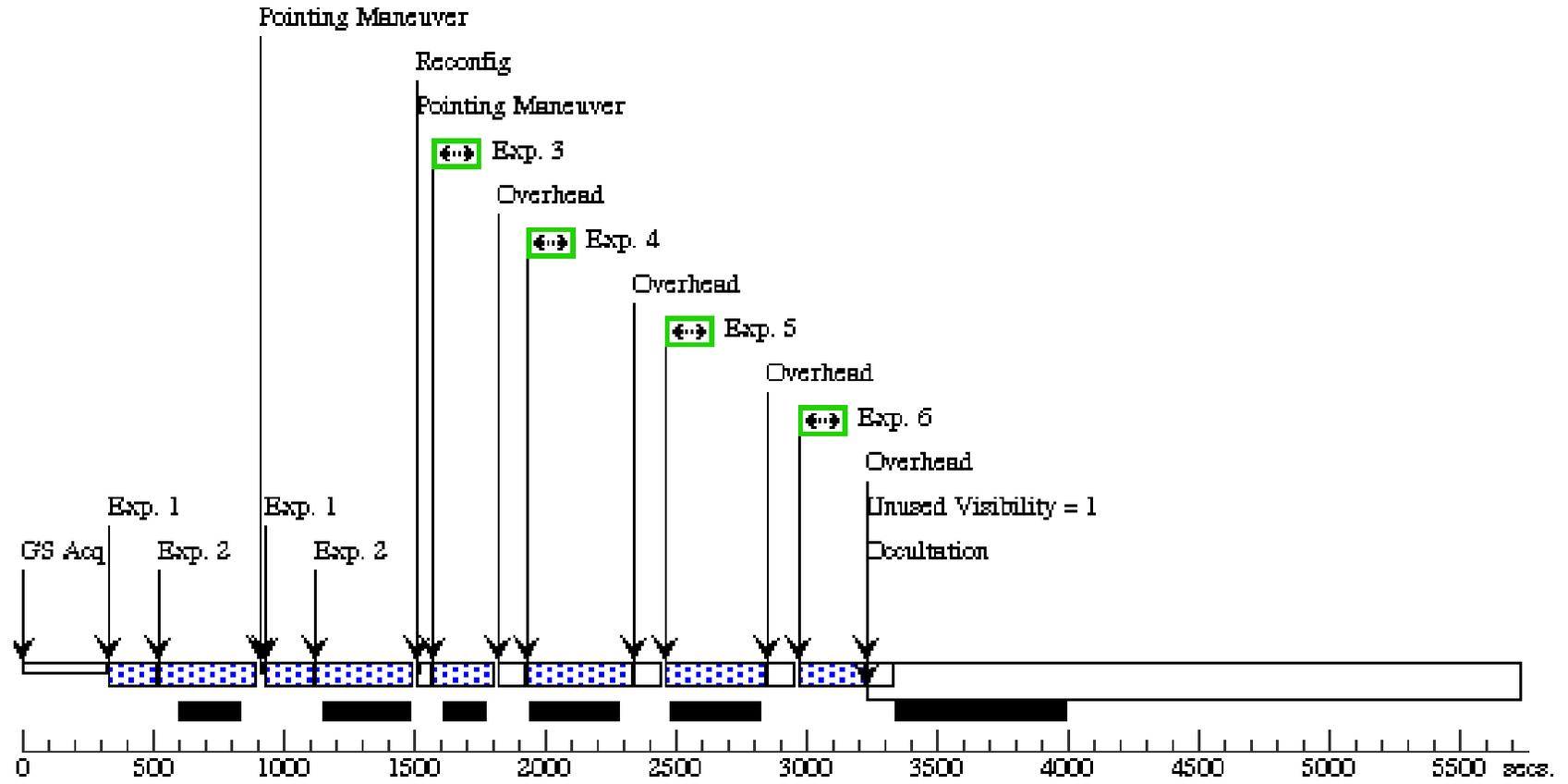
Proposal 12304 - Visit 08 - Metallicity distribution functions of 4 Local Group dwarf galaxies

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(4) IC-1613	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=SPARS 25; NSAMP=7	POS TARG 0,null	Pattern 3, Exps 1-2 i n Visit 08 (3)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
	2	(4) IC-1613	WFC3/IR, MULTIACCUM, IR-FIX	F160W	NSAMP=8; SAMP-SEQ=SPAR S50	POS TARG 0,null	Pattern 3, Exps 1-2 i n Visit 08 (3)	[==>(Pattern 1)] [==>(Pattern 2)]	[1]	
	3	(4) IC-1613	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W				200 Secs [==>]	[1]	
	4	(4) IC-1613	WFC3/UVIS, ACCUM, UVIS-CENTER	F555W				400 Secs [==>]	[1]	
	5	(4) IC-1613	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W				362 Secs [==>]	[1]	
	6	(4) IC-1613	WFC3/UVIS, ACCUM, UVIS-CENTER	F814W				250 Secs [==>]	[1]	
	7	(4) IC-1613	WFC3/UVIS, ACCUM, UVIS-CENTER	F390M	CR-SPLIT=2		Pattern 4, Exps 7-7 i n Visit 08 (4)	1310 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)]	[2]	
	8	(4) IC-1613	WFC3/UVIS, ACCUM, UVIS-CENTER	F390M	CR-SPLIT=2		Pattern 1, Exps 8-8 i n Visit 08 (1)	1310 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)] [==>(Pattern 4, Split 1)] [==>(Pattern 4, Split 2)]	[3] [4]	

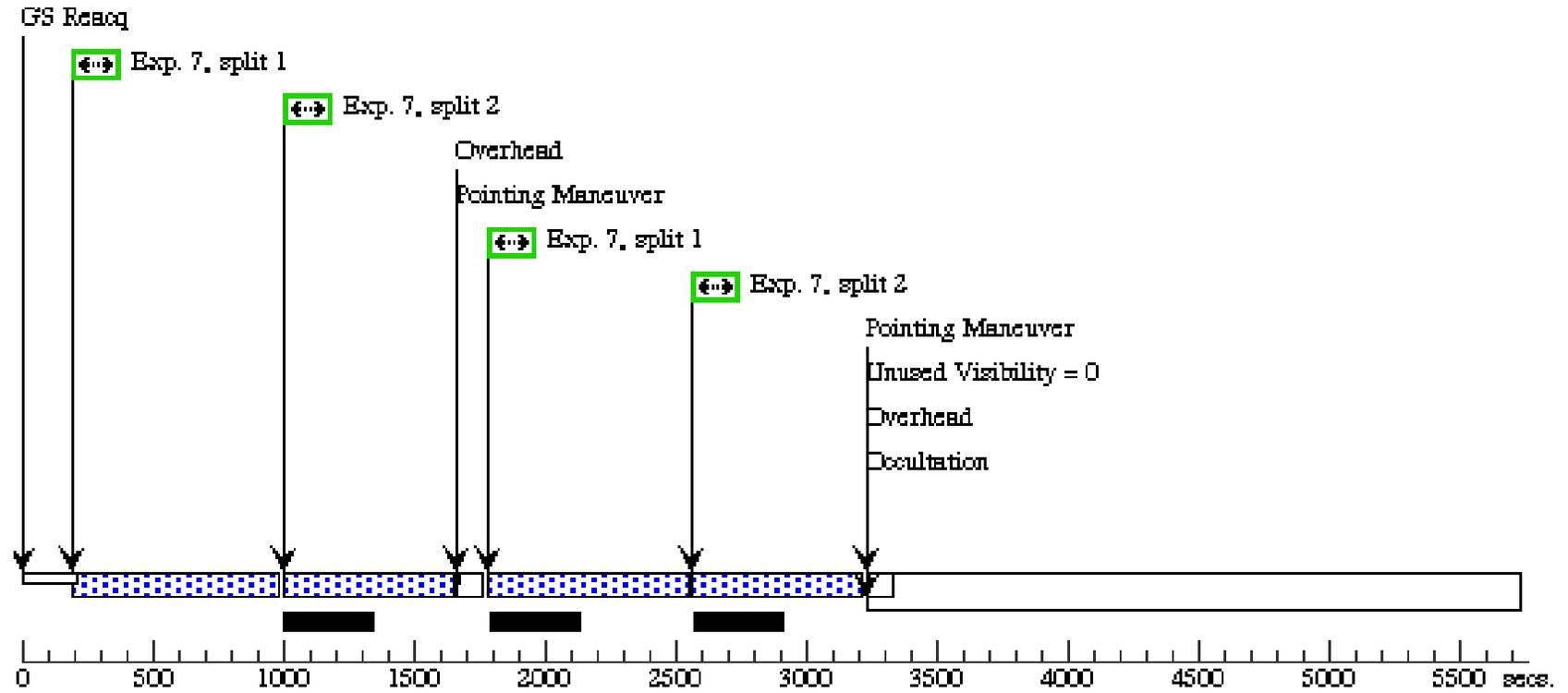
Orbit 1

Server Version: 20120312

Orbit Structure



Orbit 2



Orbit 3

