



10899 - Identifying $z > 7$ galaxies from J-dropouts

Cycle: 15, 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) OBJ-104745+134658	NIC3	3	17-Jan-2008 15:36:28.0	yes
02	(1) OBJ-104745+134658	NIC3	3	17-Jan-2008 15:36:33.0	yes
03	(2) OBJ-232446+143258	NIC3	2	17-Jan-2008 15:36:37.0	yes
04	(2) OBJ-232446+143258	NIC3	3	17-Jan-2008 15:36:41.0	yes
05	(3) OBJ-023117-084918	NIC3	3	17-Jan-2008 15:36:46.0	yes
06	(3) OBJ-023117-084918	NIC3	2	17-Jan-2008 15:36:51.0	yes
07	(4) OBJ-041924+275538	NIC3	2	17-Jan-2008 15:36:54.0	yes
08	(4) OBJ-041924+275538	NIC3	2	17-Jan-2008 15:36:57.0	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>
09	(5) OBJ-172551+375226	NIC3	3	17-Jan-2008 15:37:00.0	yes
10	(5) OBJ-172551+375226	NIC3	2	17-Jan-2008 15:37:03.0	yes
11	(6) OBJ-210358+031628	NIC3	2	17-Jan-2008 15:37:06.0	yes
12	(6) OBJ-210358+031628	NIC3	2	17-Jan-2008 15:37:09.0	yes
51	(7) OBJ-104745+134658-COPY	NIC3	3	17-Jan-2008 15:37:12.0	yes
52	(7) OBJ-104745+134658-COPY	NIC3	3	17-Jan-2008 15:37:15.0	yes
F2	(7) OBJ-104745+134658-COPY	NIC3	3	17-Jan-2008 15:37:19.0	yes

38 Total Orbits Used

ABSTRACT

NICMOS Parallel Imaging campaigns covered enough sky (250 pointings) with enough sensitivity in the 110W and 160W filters to identify 6 extremely red resolved sources which are prime candidates for J-band dropouts. Their complete absence of detectable J band flux can be caused by an opaque Lyman cut-off at $z=8-10$. We propose to followup these candidates with NICMOS imaging and jointly propose Spitzer IRAC photometry. Deep F110W and Spitzer/IRAC 3.5/4.8 micron imaging will confirm if any of these candidates are indeed Lyman Break galaxies observed less than 500 Myrs after the Big Bang. Genuine LBGs will remain undetected in F110W, while being detected with flat spectra in the IRAC bands. The combined SED will provide information about the stellar mass of these galaxies, and the possible presence of evolved stars or dust reddening.

The proposed observations will be sensitive enough to detect the F110W flux from galaxies as red as $(J-H)=2.8$ (AB mags, 5 sigma). If any of the candidates are detected with bluer colors, they will most likely be exceptional "Distant Red Galaxies" at z of 4 to 6. The proposed data will constrain the stellar populations of these extraordinarily red galaxies, which would be candidates for the earliest, most massive galaxies which formed.

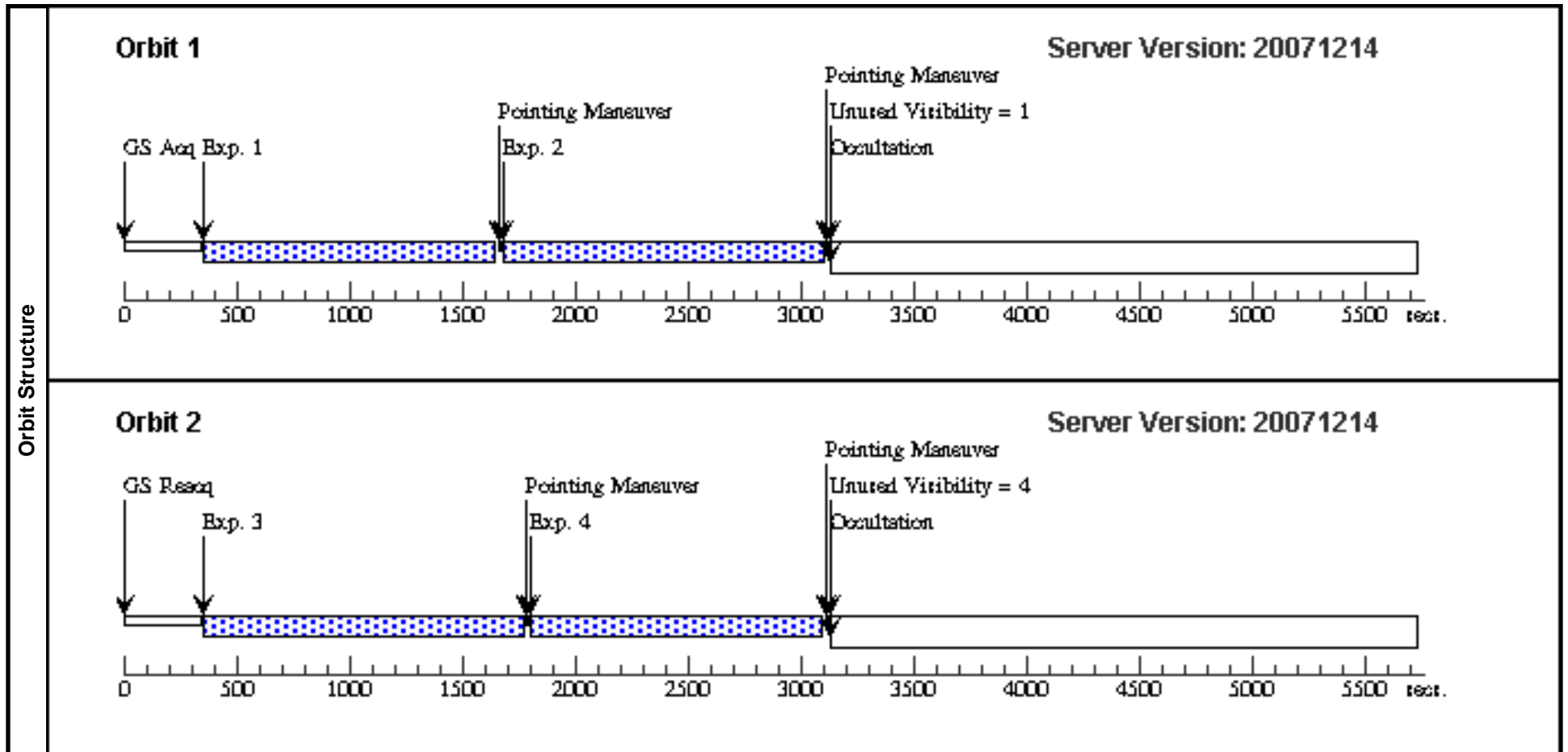
OBSERVING DESCRIPTION

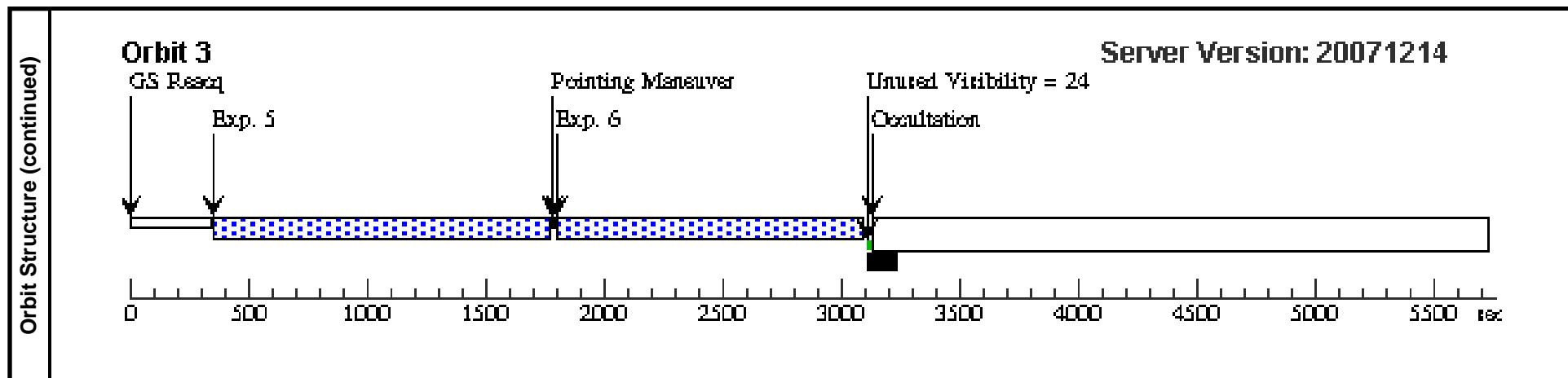
From our NICMOS Parallel program in cycles 11, 12, and 13, we have identified six candidates for J-dropout Lyman Break Galaxies (LBGs) at $z > 7$. These galaxies were selected as having $[F110W] - [F160W] > 1.8$ (AB), with no detection in F110W. In this program, we will obtain more sensitive observations in the F110W filter, to provide a more meaningful lower limit in color. We seek to reach a 5 sigma lower limit in color of $[F110W] - [F160W] > 2.8$. The J-dropout candidates have an average $[F160W] \sim 24$, so the appropriate depth in [F110W] can be reached in 4-6 orbits per source. Any candidate that remains undetected in these deeper observations is likely a genuine J-dropout. To further verify this, we will observe each candidate with IRAC on Spitzer. If they are indeed dropouts, their spectral energy distributions (SEDs) will be flat in frequency space, giving similar fluxes in all of the IRAC bands. We therefore required a 5 sigma sensitivity of 1 uJy. This can be achieved in 15 minutes of exposure in IRAC1 and 50 minutes of exposure in IRAC2. If the J-dropout candidates are detected in the F110W images, then they are not genuine $z > 7$ galaxies, but most likely contain lower redshift evolved stellar populations. The SEDs of such objects rise into the IRAC bands, and will be detectable in IRAC3 and IRAC4 as well.

Proposal 10899 - Visit 01 - Identifying z>7 galaxies from J-dropouts

Thu Jan 17 20:37:22 GMT 2008

Visit	Proposal 10899, Visit 01, failed Diagnostic Status: No Diagnostics Scientific Instruments: NIC3 Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	OBJ-104745+134658	RA: 10 47 44.7200 (161.9363333d) Dec: +13 46 58.80 (13.78300d) Equinox: J2000		V=30	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) OBJ-104745+134658	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=12; SAMP-SEQ=SPAR S128	GS ACQ SCENARI O BASE1TNS		[==>]	[1]
	2		(1) OBJ-104745+134658	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=13; SAMP-SEQ=SPAR S128	POS TARG 1.15,1.1 3		[==>]	[1]
	3		(1) OBJ-104745+134658	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=13; SAMP-SEQ=SPAR S128	POS TARG 0.02,1.1		[==>]	[2]
	4		(1) OBJ-104745+134658	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=12; SAMP-SEQ=SPAR S128	POS TARG -1.08,1. 1		[==>]	[2]
	5		(1) OBJ-104745+134658	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=13; SAMP-SEQ=SPAR S128	POS TARG -1.1,0.0 5		[==>]	[3]
	6		(1) OBJ-104745+134658	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=12; SAMP-SEQ=SPAR S128	POS TARG -1.12,-1. 12		[==>]	[3]

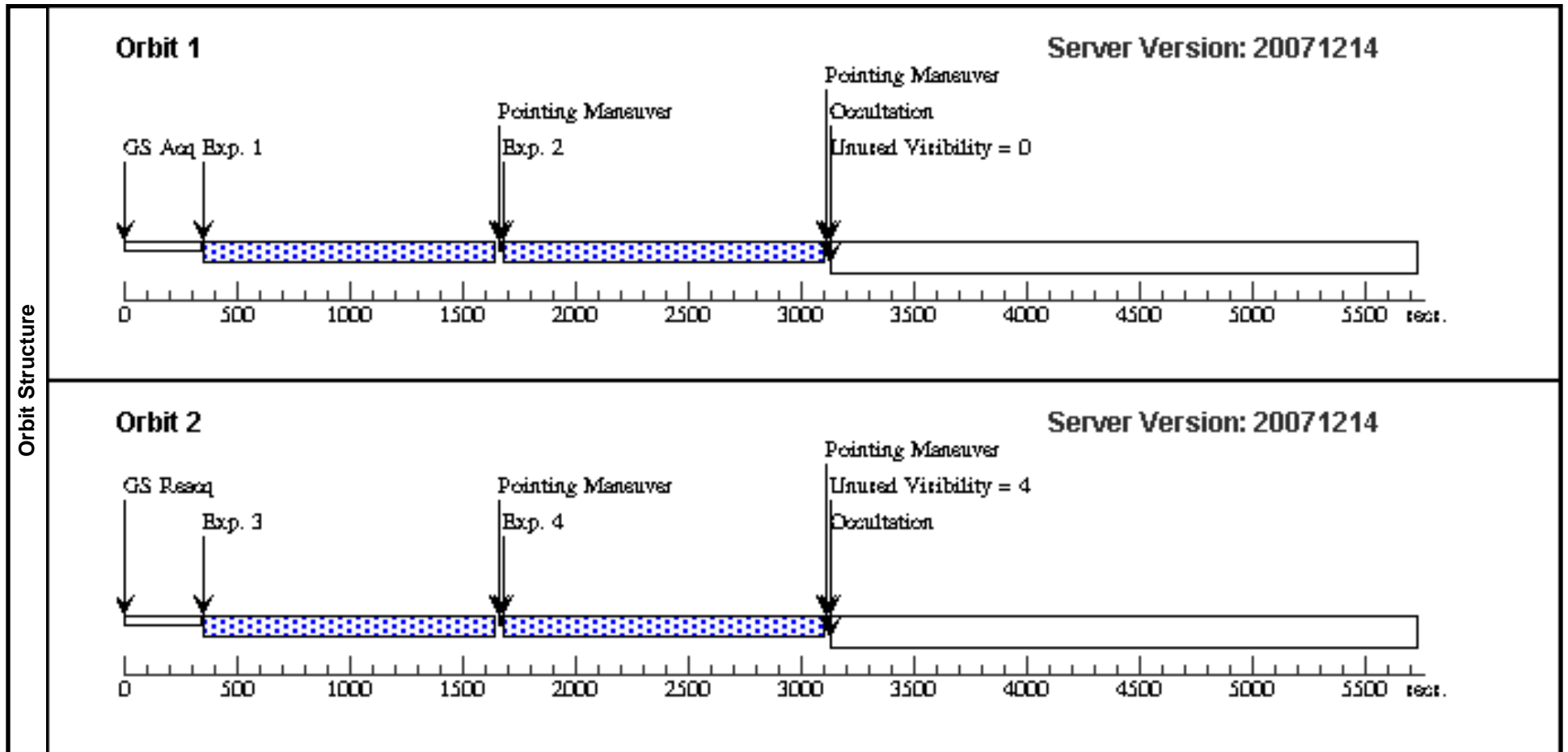


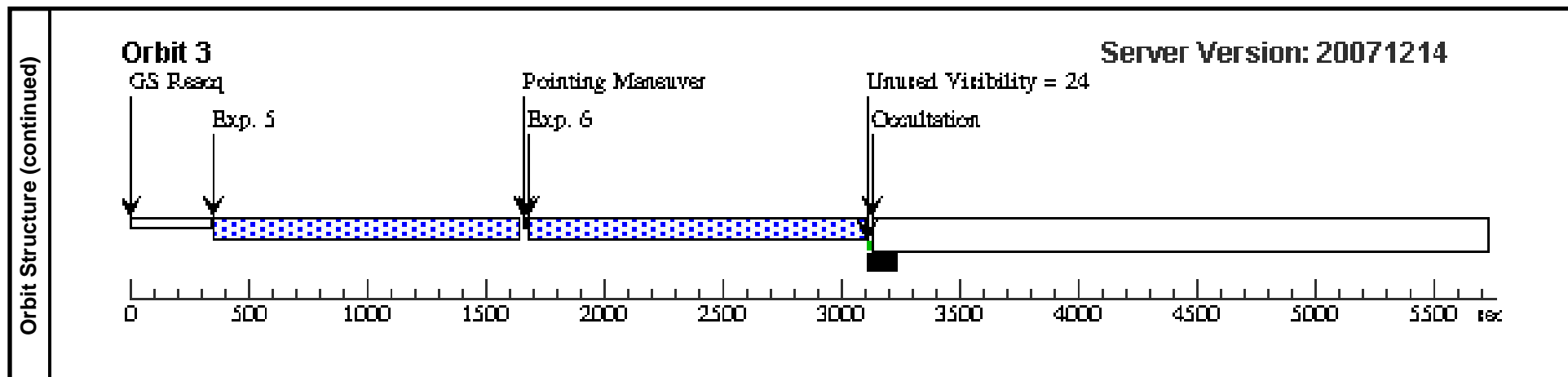


Proposal 10899 - Visit 02 - Identifying z>7 galaxies from J-dropouts

Thu Jan 17 20:37:23 GMT 2008

Visit	Proposal 10899, Visit 02, failed Diagnostic Status: No Diagnostics Scientific Instruments: NIC3 Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	OBJ-104745+134658	RA: 10 47 44.7200 (161.9363333d) Dec: +13 46 58.80 (13.78300d) Equinox: J2000		V=30	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) OBJ-104745+134658	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=12; SAMP-SEQ=SPAR S128	POS TARG -1.1,0.0 2; GS ACQ SCENARI O BASE1TNS		[==>]	[1]
	2		(1) OBJ-104745+134658	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=13; SAMP-SEQ=SPAR S128	POS TARG 0.0,-1.0 8		[==>]	[1]
	3		(1) OBJ-104745+134658	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=12; SAMP-SEQ=SPAR S128	POS TARG 1.13,0.0 5		[==>]	[2]
	4		(1) OBJ-104745+134658	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=13; SAMP-SEQ=SPAR S128	POS TARG 0.51,0.4 800000000000000004		[==>]	[2]
	5		(1) OBJ-104745+134658	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=12; SAMP-SEQ=SPAR S128	POS TARG 0.02,0.5		[==>]	[3]
	6		(1) OBJ-104745+134658	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=13; SAMP-SEQ=SPAR S128	POS TARG -0.5,0.5 2		[==>]	[3]

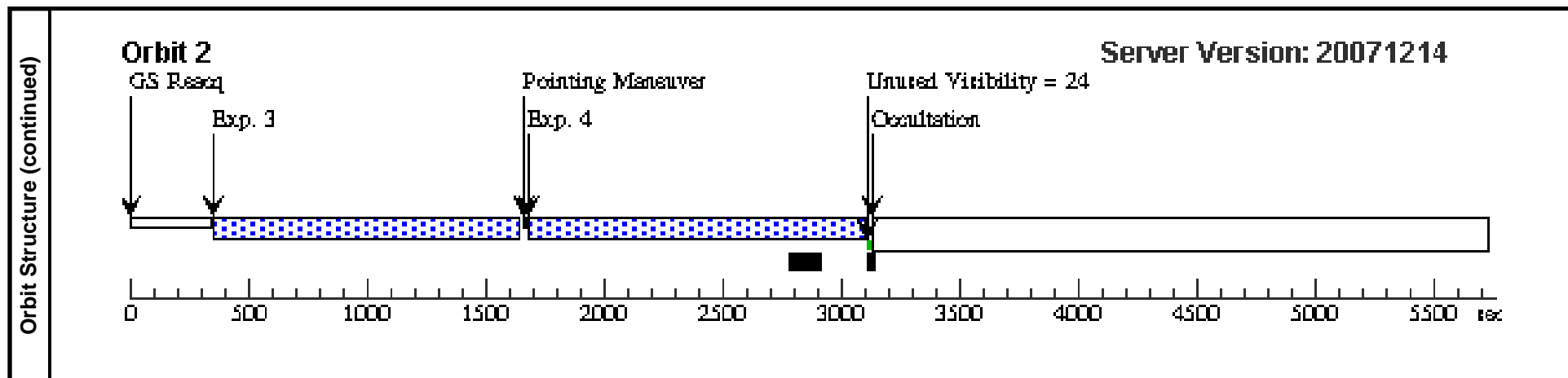




Proposal 10899 - Visit 03 - Identifying z>7 galaxies from J-dropouts

Thu Jan 17 20:37:23 GMT 2008

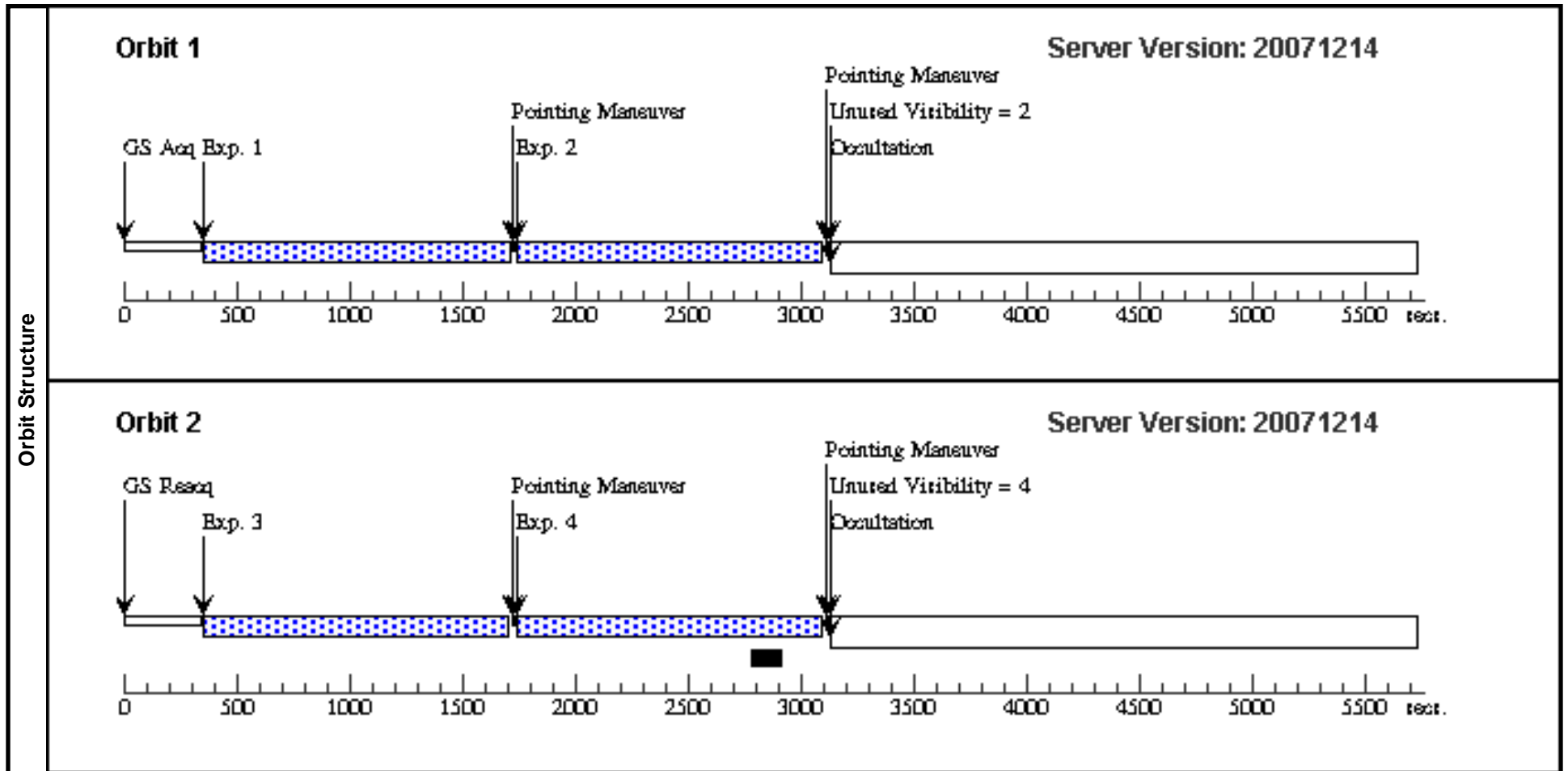
Visit	Proposal 10899, Visit 03, completed Diagnostic Status: No Diagnostics Scientific Instruments: NIC3 Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
(2)		OBJ-232446+143258	RA: 23 24 46.4900 (351.1937083d) Dec: +14 32 58.60 (14.54961d) Equinox: J2000		V=30	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(2) OBJ-232446+143 258	NIC3, MULTIACCUM, NIC3	F110W	SAMP-SEQ=SPARS 64; NSAMP=23			[==>]	[1]
	2		(2) OBJ-232446+143 258	NIC3, MULTIACCUM, NIC3	F110W	SAMP-SEQ=SPARS 64; NSAMP=23	POS TARG 1.08,1.1 2		[==>]	[1]
	3		(2) OBJ-232446+143 258	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=22; SAMP-SEQ=SPAR S64	POS TARG 0.05,1.1		[==>]	[2]
	4		(2) OBJ-232446+143 258	NIC3, MULTIACCUM, NIC3	F110W	SAMP-SEQ=SPARS 64; NSAMP=24	POS TARG -1.1,1.1 3		[==>]	[2]
Orbit Structure	<p>Orbit 1 Server Version: 20071214</p> <p>The diagram illustrates the timeline of Orbit 1. It starts at 0 seconds with 'GS Acq Exp. 1' (0-500s). 'Exp. 2' (1700-3100s) is shown as a blue checkered bar. 'Pointing Maneuver' events occur at 1700s and 3100s. 'Occultation' begins at 3100s and continues until 5500s. 'Unused Visibility = 1' is noted during the occultation phase.</p>									
	<p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 sec.</p>									

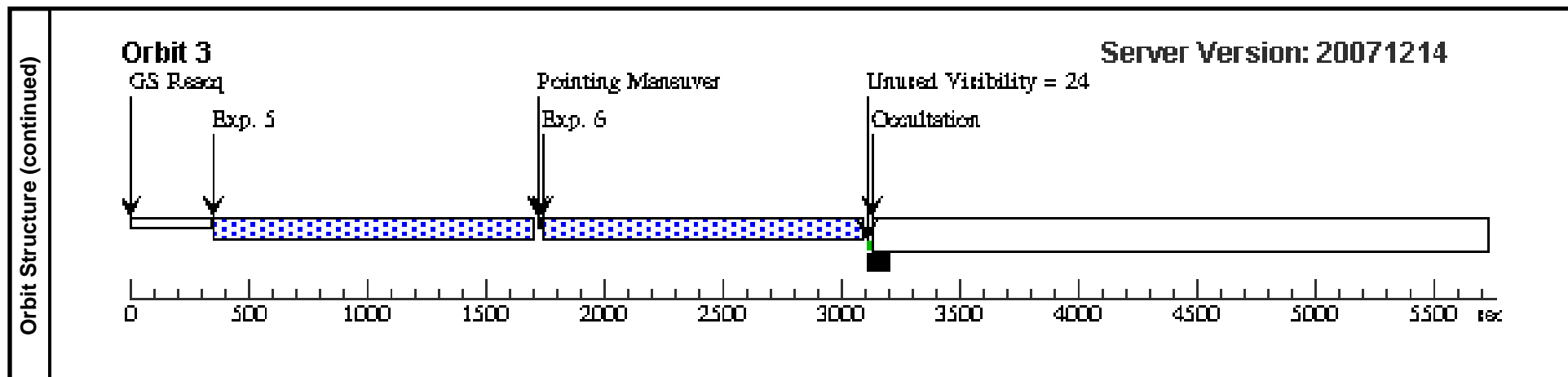


Proposal 10899 - Visit 04 - Identifying z>7 galaxies from J-dropouts

Thu Jan 17 20:37:24 GMT 2008

Visit	Proposal 10899, Visit 04, completed Diagnostic Status: No Diagnostics Scientific Instruments: NIC3 Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(2)	OBJ-232446+143258	RA: 23 24 46.4900 (351.1937083d) Dec: +14 32 58.60 (14.54961d) Equinox: J2000			V=30	Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(2) OBJ-232446+143 258	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG -1.1,0.0 7		[==>]	[1]
	2		(2) OBJ-232446+143 258	NIC3, MULTIACCUM, NIC3	F110W	SAMP-SEQ=SPARS 64; NSAMP=23	POS TARG -1.07,-1. 1		[==>]	[1]
	3		(2) OBJ-232446+143 258	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG 0.0,-1.1 3		[==>]	[2]
	4		(2) OBJ-232446+143 258	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG 1.08,-1. 1		[==>]	[2]
	5		(2) OBJ-232446+143 258	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG 1.0,0.0		[==>]	[3]
	6		(2) OBJ-232446+143 258	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG 0.5,0.5		[==>]	[3]

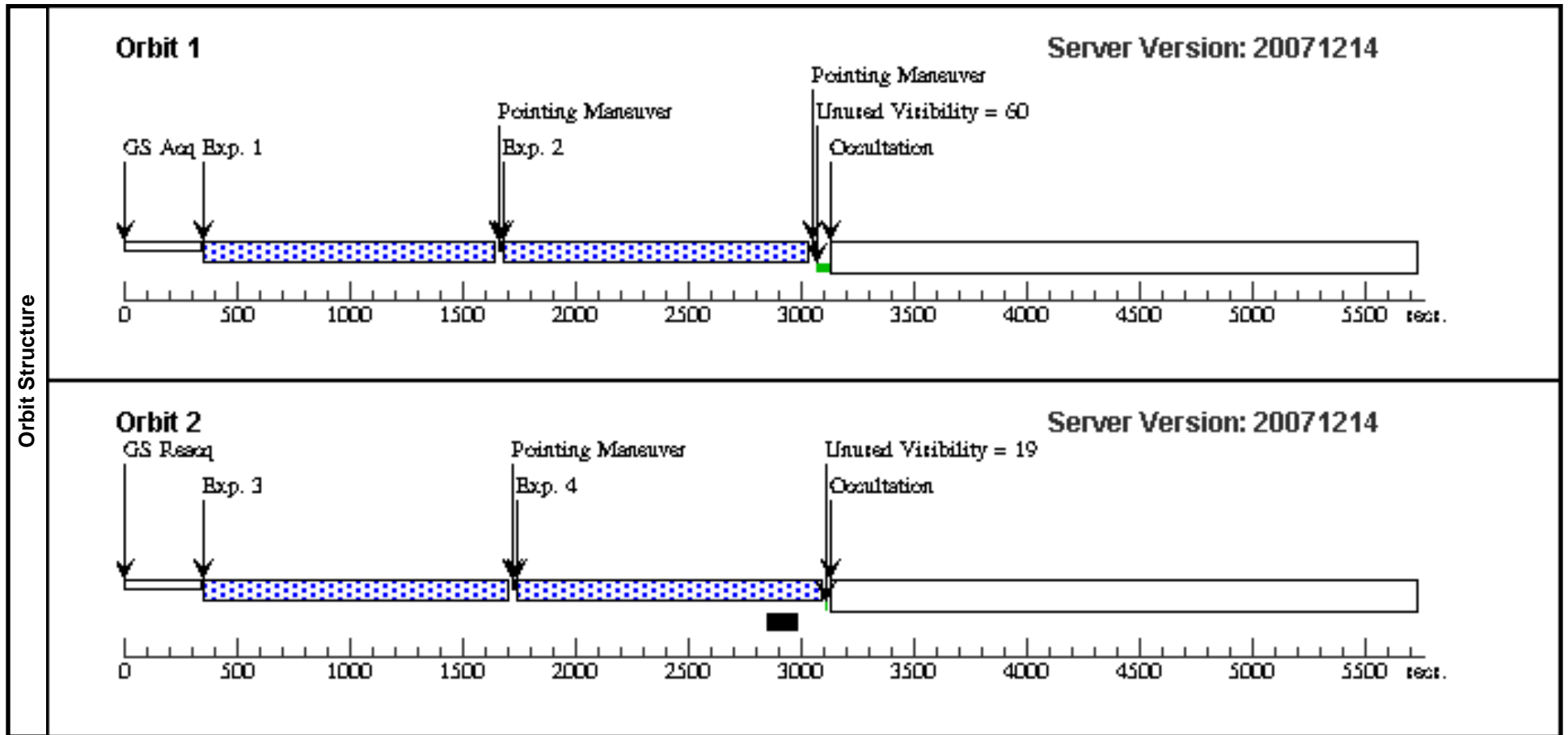


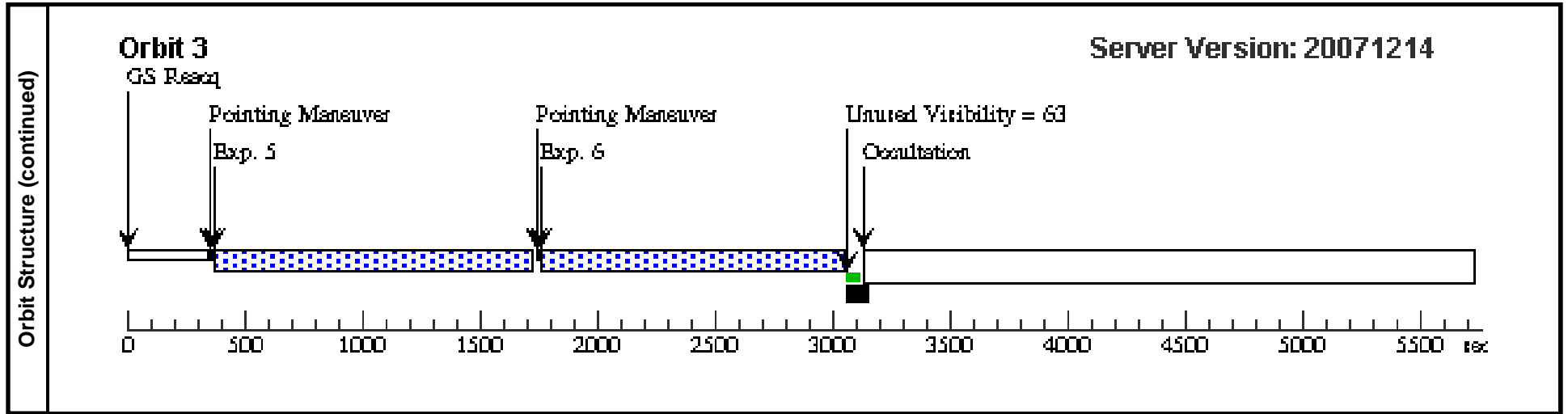


Proposal 10899 - Visit 05 - Identifying z>7 galaxies from J-dropouts

Thu Jan 17 20:37:25 GMT 2008

Visit	Proposal 10899, Visit 05, completed Diagnostic Status: No Diagnostics Scientific Instruments: NIC3 Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(3)	OBJ-023117-084918	RA: 02 31 17.5100 (37.8229583d) Dec: -08 49 17.90 (-8.82164d) Equinox: J2000		V=30	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) OBJ-023117-084918	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=22; SAMP-SEQ=SPAR S64			[==>]	[1]
	2		(3) OBJ-023117-084918	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG 1.1,1.12		[==>]	[1]
	3		(3) OBJ-023117-084918	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG 0.08,1.1		[==>]	[2]
	4		(3) OBJ-023117-084918	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG -1.1,1.0 8		[==>]	[2]
	5		(3) OBJ-023117-084918	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG -1.07,0. 0		[==>]	[3]
	6		(3) OBJ-023117-084918	NIC3, MULTIACCUM, NIC3	F110W	SAMP-SEQ=SPARS 64; NSAMP=22	POS TARG -1.13,-1. 1		[==>]	[3]

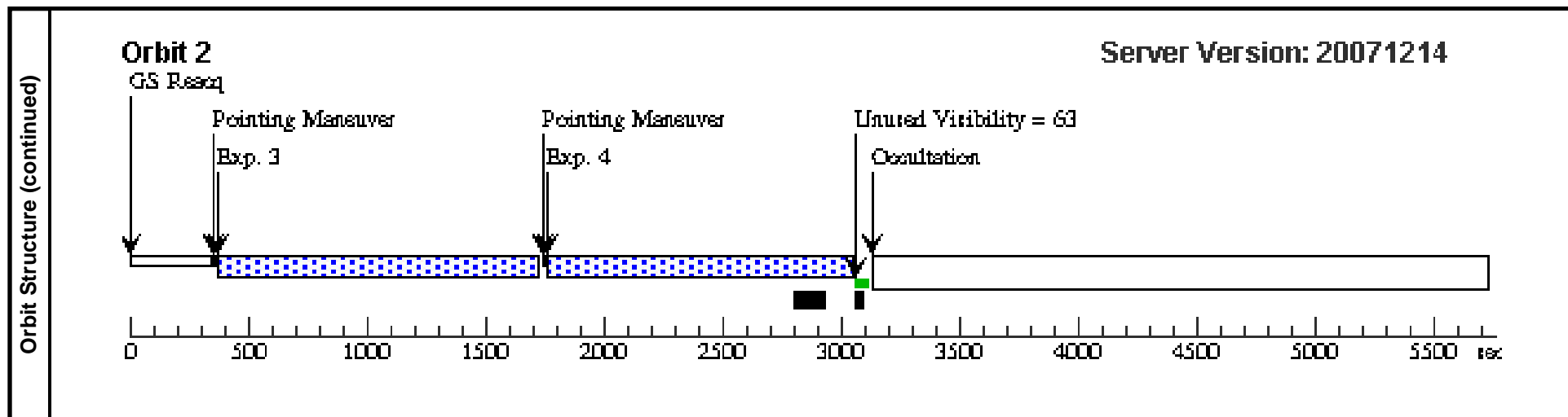




Proposal 10899 - Visit 06 - Identifying z>7 galaxies from J-dropouts

Thu Jan 17 20:37:25 GMT 2008

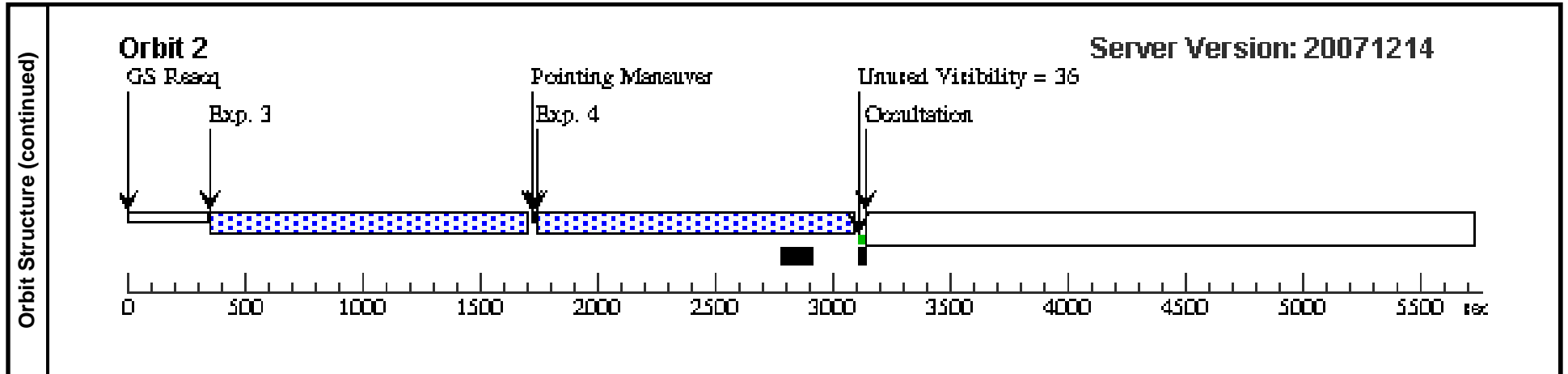
Visit	Proposal 10899, Visit 06, completed Diagnostic Status: No Diagnostics Scientific Instruments: NIC3 Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	OBJ-023117-084918	RA: 02 31 17.5100 (37.8229583d) Dec: -08 49 17.90 (-8.82164d) Equinox: J2000		V=30	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) OBJ-023117-084918	NIC3, MULTIACCUM, NIC3	F110W	SAMP-SEQ=SPARS 64; NSAMP=23			[==>]	[1]
	2		(3) OBJ-023117-084918	NIC3, MULTIACCUM, NIC3	F110W	SAMP-SEQ=SPARS 64; NSAMP=23	POS TARG 1.1,-1.1 3		[==>]	[1]
	3		(3) OBJ-023117-084918	NIC3, MULTIACCUM, NIC3	F110W	SAMP-SEQ=SPARS 64; NSAMP=23	POS TARG 1.1,0.07		[==>]	[2]
	4		(3) OBJ-023117-084918	NIC3, MULTIACCUM, NIC3	F110W	SAMP-SEQ=SPARS 64; NSAMP=22	POS TARG 0.52,0.5		[==>]	[2]
Orbit Structure	<p>Orbit 1 Server Version: 20071214</p> <p>The diagram shows a horizontal timeline for Orbit 1. The x-axis is labeled 'sec.' and ranges from 0 to 5500 with major ticks every 500 seconds. Key events are marked with vertical arrows: 'GS Acq Exp. 1' from 0 to 50s; 'Exp. 2' from 1700 to 3100s, with a 'Pointing Maneuver' at 1700s; and 'Occultation' from 3100 to 3200s. A shaded region from 3200 to 5500s is labeled 'Unused Visibility = 16'. The exposure times for Exp. 1, 2, 3, and 4 are approximately 45s, 1400s, 1400s, and 1400s respectively.</p>									



Proposal 10899 - Visit 07 - Identifying z>7 galaxies from J-dropouts

Thu Jan 17 20:37:26 GMT 2008

Visit	Proposal 10899, Visit 07, completed Diagnostic Status: No Diagnostics Scientific Instruments: NIC3 Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	OBJ-041924+275538	RA: 04 19 23.5100 (64.8479583d) Dec: +27 55 37.20 (27.92700d) Equinox: J2000		V=30	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(4) OBJ-041924+275538	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	GS ACQ SCENARI O BASE1TNS		[==>]	[1]
	2		(4) OBJ-041924+275538	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG 1.13,1.1		[==>]	[1]
	3		(4) OBJ-041924+275538	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG 0.08,1.1		[==>]	[2]
	4		(4) OBJ-041924+275538	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG -1.1,1.0 7		[==>]	[2]
Orbit Structure	<p>Orbit 1 Server Version: 20071214</p> <p>The diagram shows a horizontal timeline from 0 to 5500 seconds. A shaded region from approximately 300s to 3100s is labeled 'Unused Visibility = 13'. Key events are marked with arrows: 'GS Acq Exp. 1' at ~300s, 'Exp. 2' at ~1750s, 'Pointing Maneuver' at ~1750s, and 'Occultation' at ~3100s. The timeline ends at 5500 seconds.</p>									



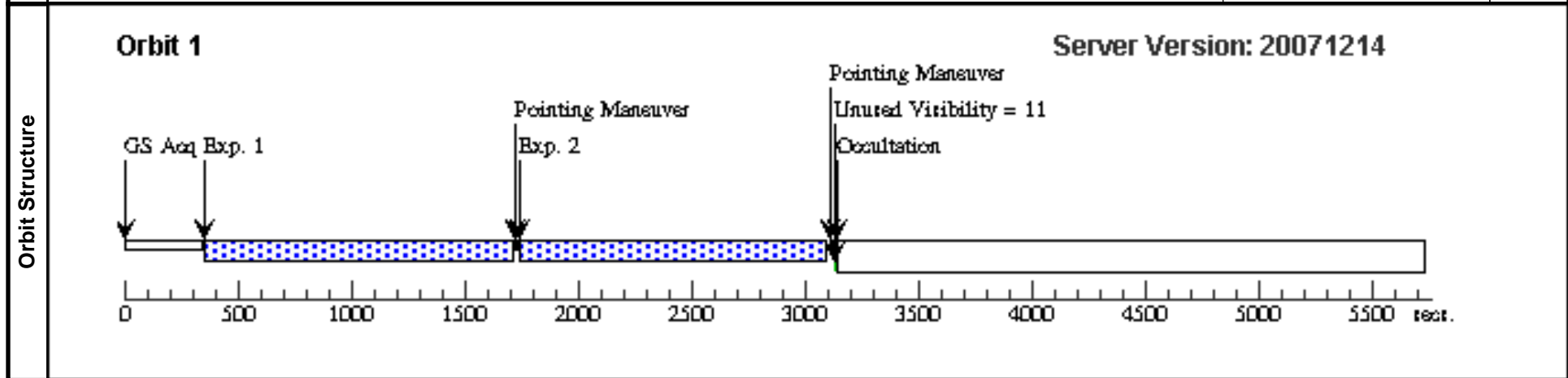
Proposal 10899 - Visit 08 - Identifying z>7 galaxies from J-dropouts

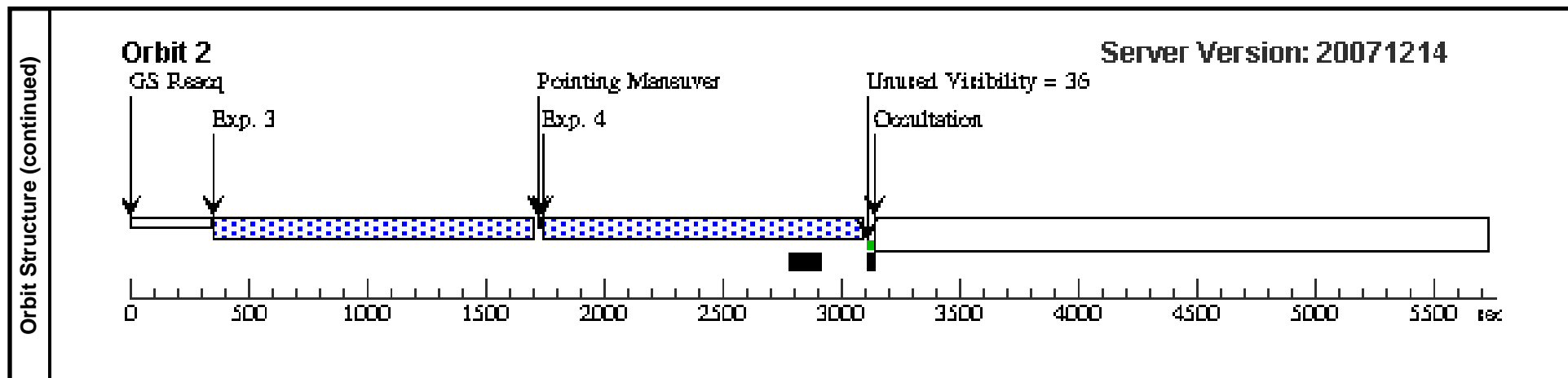
Thu Jan 17 20:37:26 GMT 2008

Visit	Proposal 10899, Visit 08, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: NIC3				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	OBJ-041924+275538	RA: 04 19 23.5100 (64.8479583d) Dec: +27 55 37.20 (27.92700d) Equinox: J2000		V=30	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(4) OBJ-041924+275538	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG -1.07,1.1; GS ACQ SCENARI O BASE1TNS		[==>]	[1]
	2		(4) OBJ-041924+275538	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG -1.1,-1.1 3		[==>]	[1]
	3		(4) OBJ-041924+275538	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG 0.0,-1.0 6		[==>]	[2]
	4		(4) OBJ-041924+275538	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG 1.1,-1.1		[==>]	[2]

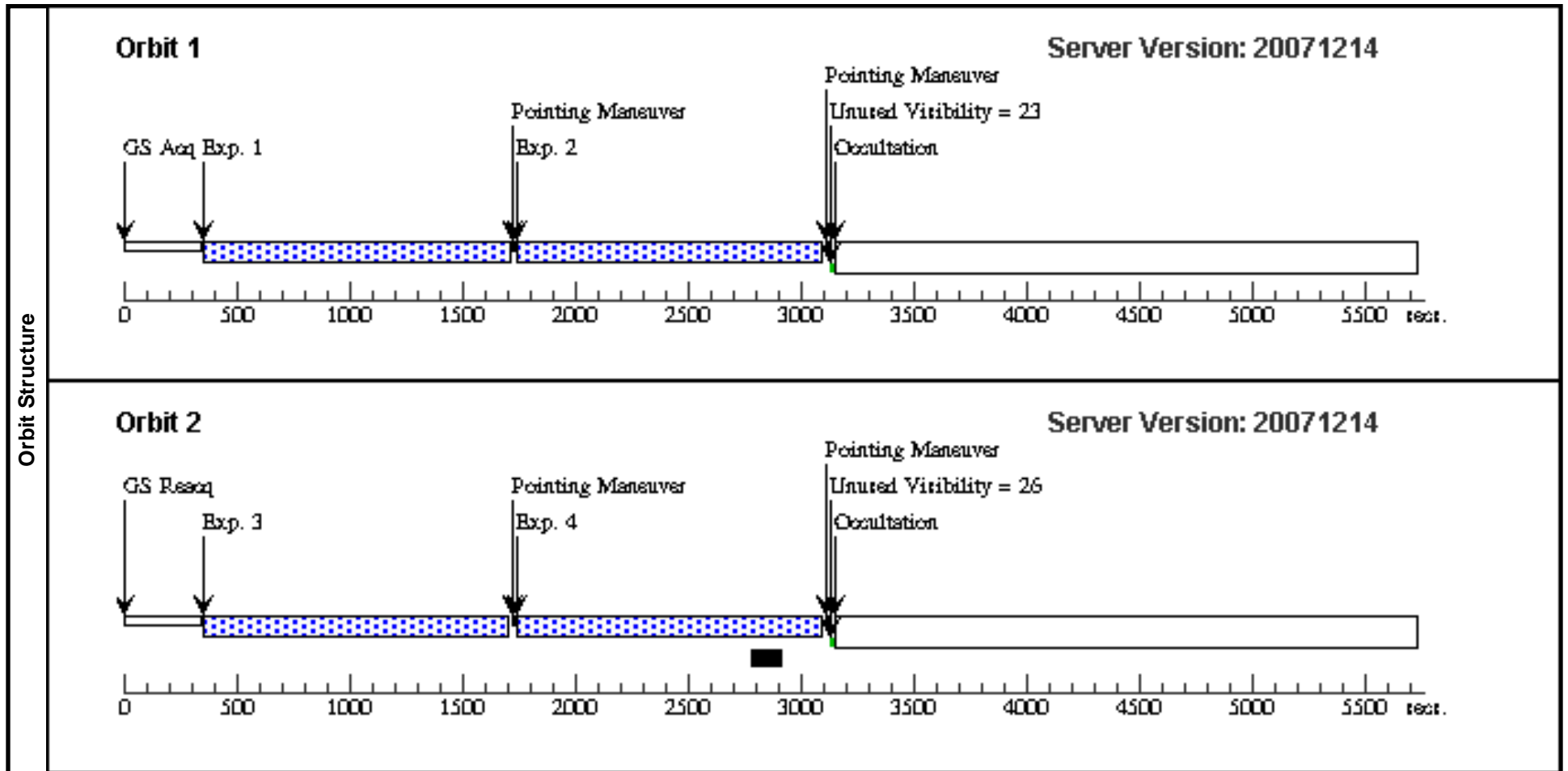


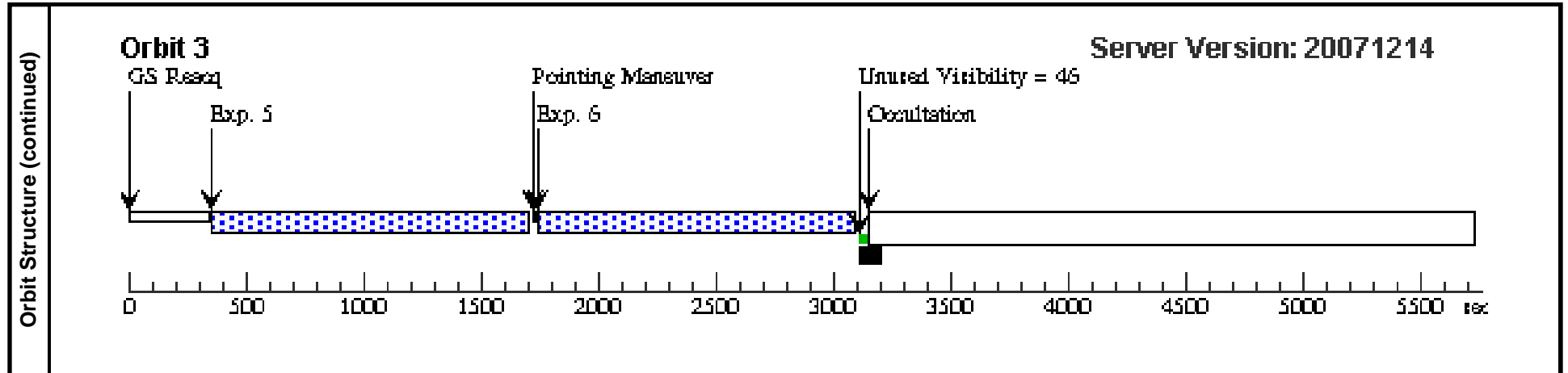


Proposal 10899 - Visit 09 - Identifying z>7 galaxies from J-dropouts

Thu Jan 17 20:37:26 GMT 2008

Visit	Proposal 10899, Visit 09, completed Diagnostic Status: No Diagnostics Scientific Instruments: NIC3 Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(5)	OBJ-172551+375226	RA: 17 25 51.2700 (261.4636250d) Dec: +37 52 26.10 (37.87392d) Equinox: J2000		V=30	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(5) OBJ-172551+375226	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64			[==>]	[1]
	2		(5) OBJ-172551+375226	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG 1.12,1.1		[==>]	[1]
	3		(5) OBJ-172551+375226	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG 0.05,1.1		[==>]	[2]
	4		(5) OBJ-172551+375226	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG -1.1,1.1 3		[==>]	[2]
	5		(5) OBJ-172551+375226	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG -1.1,0.0 7		[==>]	[3]
	6		(5) OBJ-172551+375226	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG -1.08,-1. 1		[==>]	[3]

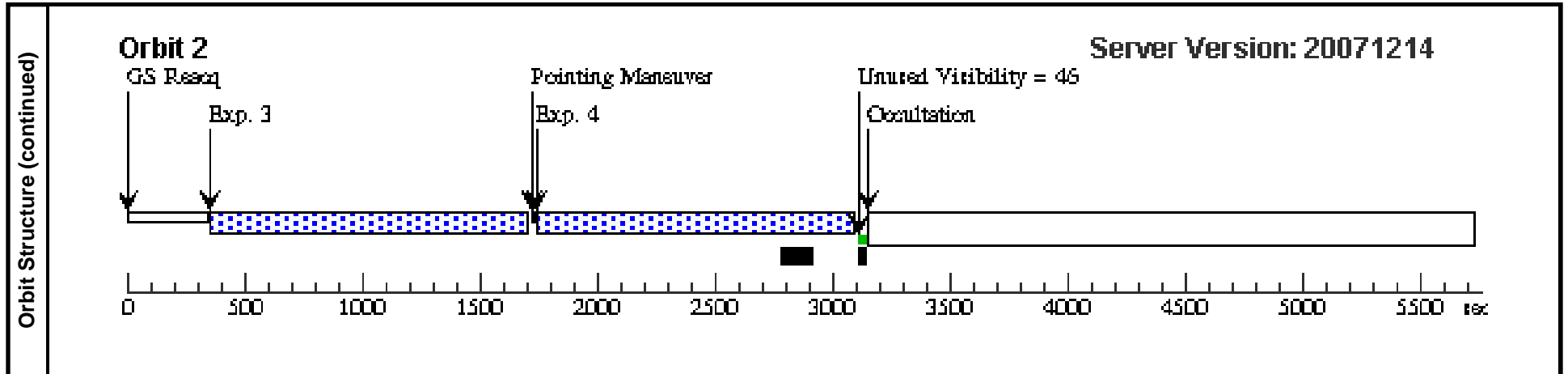




Proposal 10899 - Visit 10 - Identifying z>7 galaxies from J-dropouts

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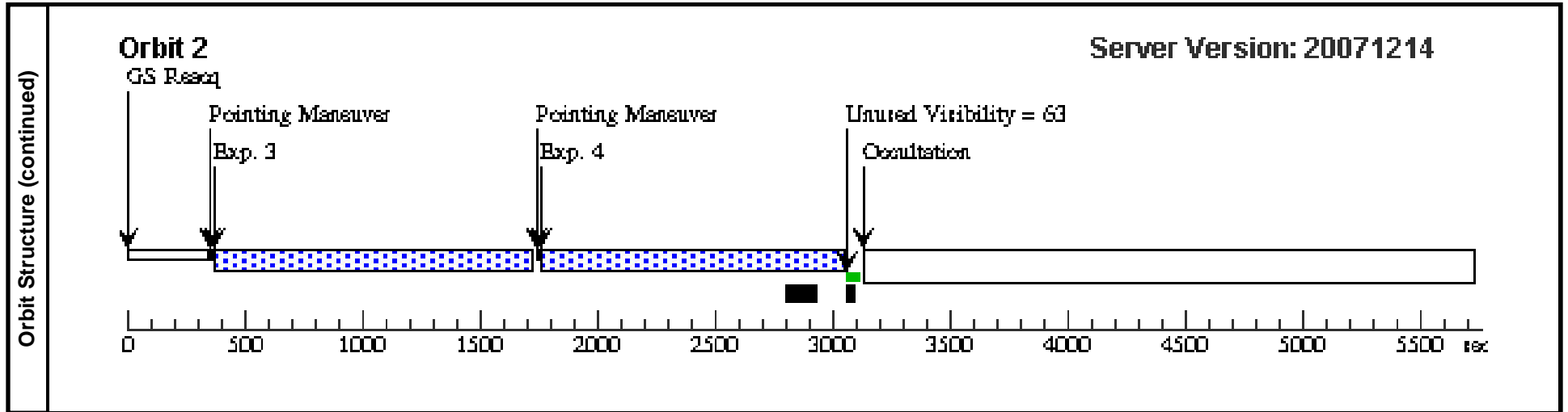
Visit	Proposal 10899, Visit 10, completed Diagnostic Status: No Diagnostics Scientific Instruments: NIC3 Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	OBJ-172551+375226	RA: 17 25 51.2700 (261.4636250d) Dec: +37 52 26.10 (37.87392d) Equinox: J2000		V=30	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(5) OBJ-172551+375226	(5) OBJ-172551+375226	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG 0.03000 000000000002,-1.1		[==>]	[1]
	2	(5) OBJ-172551+375226	(5) OBJ-172551+375226	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG -1.12,-1.1		[==>]	[1]
	3	(5) OBJ-172551+375226	(5) OBJ-172551+375226	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG 1.07,0.0		[==>]	[2]
	4	(5) OBJ-172551+375226	(5) OBJ-172551+375226	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG 0.5,0.52		[==>]	[2]
Orbit Structure	<p>Orbit 1 Server Version: 20071214</p> <p>The diagram illustrates the orbit structure for Orbit 1. The x-axis represents time in seconds, ranging from 0 to 5500. Key events are marked with vertical arrows: GS Acq Exp. 1 (0-500s), Expt. 2 (1700-3100s), Pointing Maneuver (1700s), and Occultation (3100-3200s). A shaded region indicates the observation period. Unused visibility is noted as 21 seconds.</p>									



Proposal 10899 - Visit 11 - Identifying z>7 galaxies from J-dropouts

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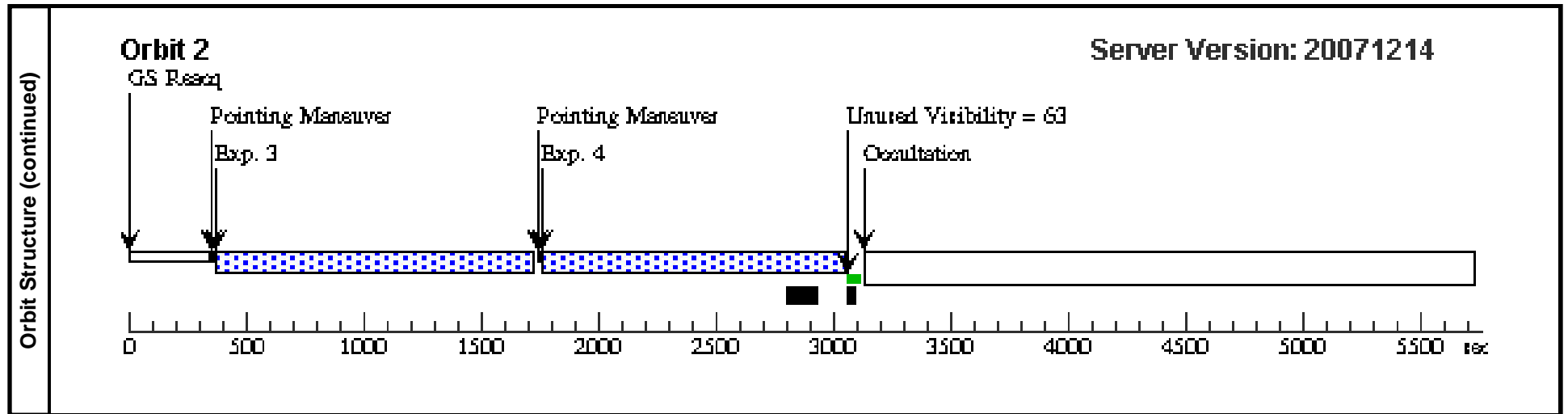
Visit	Proposal 10899, Visit 11, completed Diagnostic Status: No Diagnostics Scientific Instruments: NIC3 Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	OBJ-210358+031628	RA: 21 03 57.6000 (315.9900000d) Dec: +03 16 27.80 (3.27439d) Equinox: J2000		V=30	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(6) OBJ-210358+031628	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG 0.0,0.0		[==>]	[1]
	2		(6) OBJ-210358+031628	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG 1.1,1.13		[==>]	[1]
	3		(6) OBJ-210358+031628	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG 0.07,1.1		[==>]	[2]
	4		(6) OBJ-210358+031628	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=22; SAMP-SEQ=SPAR S64	POS TARG -1.1,1.0 8		[==>]	[2]
Orbit Structure	<p>Orbit 1 Server Version: 20071214</p> <p>GS Acq Exp. 1</p> <p>Pointing Maneuver Exp. 2</p> <p>Unused Visibility = 16</p> <p>Occultation</p> <p>0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 sec.</p>									



Proposal 10899 - Visit 12 - Identifying z>7 galaxies from J-dropouts

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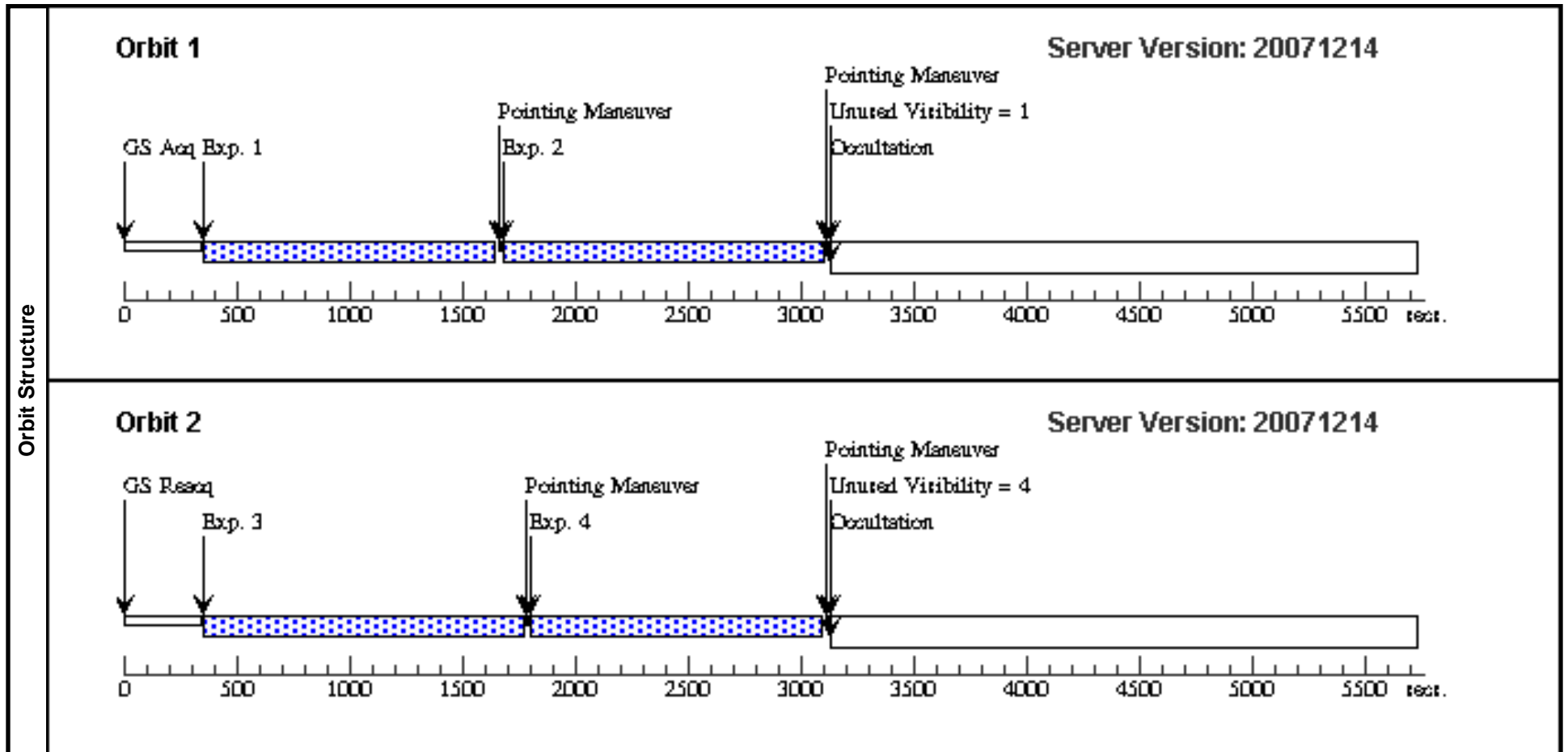
Visit	Proposal 10899, Visit 12, completed Diagnostic Status: No Diagnostics Scientific Instruments: NIC3 Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	OBJ-210358+031628	RA: 21 03 57.6000 (315.9900000d) Dec: +03 16 27.80 (3.27439d) Equinox: J2000		V=30	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(6) OBJ-210358+031628	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG -1.12,0. 0		[==>]	[1]
	2		(6) OBJ-210358+031628	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG -1.1,-1.0 8		[==>]	[1]
	3		(6) OBJ-210358+031628	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=23; SAMP-SEQ=SPAR S64	POS TARG 0.05,-1. 1		[==>]	[2]
	4		(6) OBJ-210358+031628	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=22; SAMP-SEQ=SPAR S64	POS TARG 1.13,-1. 1		[==>]	[2]
Orbit Structure	<p>Orbit 1 Server Version: 20071214</p> <p>The diagram shows a horizontal timeline from 0 to 5500 seconds. Key events are marked with vertical arrows: 'GS Acq Exp. 1' at 0s, 'Exp. 2' at 1700s, 'Pointing Maneuver' at 1700s, and 'Occultation' at 3100s. A blue checkered pattern covers the exposure period from approximately 50s to 3100s. A label 'Unused Visibility = 17' is placed above the occultation event. The x-axis is labeled 'sec.' at the end.</p>									

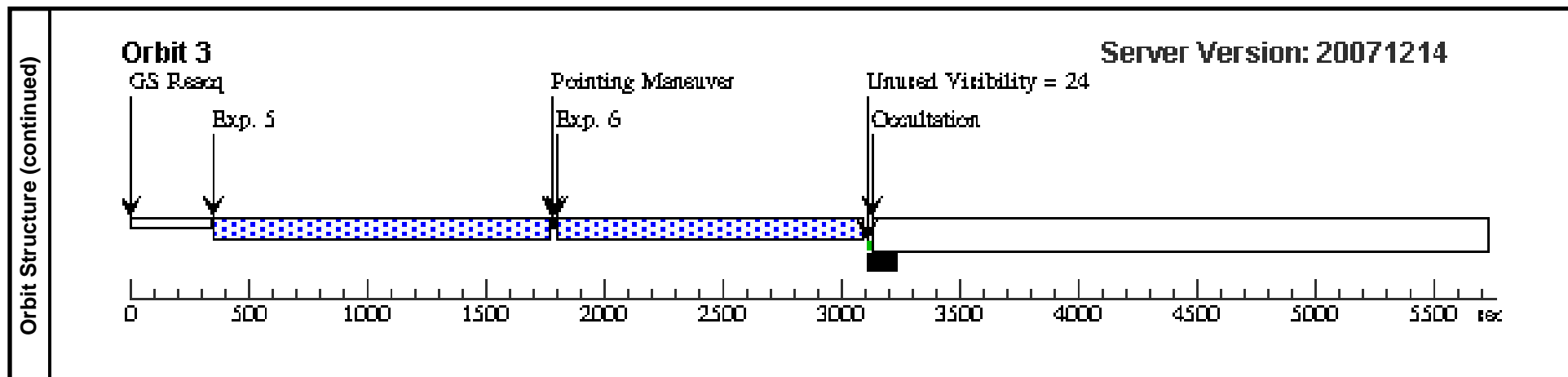


Proposal 10899 - Visit 51 - Identifying z>7 galaxies from J-dropouts

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Visit	Proposal 10899, Visit 51, completed Diagnostic Status: No Diagnostics Scientific Instruments: NIC3 Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(7)	OBJ-104745+134658-COPY	RA: 10 47 44.7200 (161.9363333d) Dec: +13 46 58.80 (13.78300d) Equinox: J2000		V=30	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(7) OBJ-104745+134658-COPY	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=12; SAMP-SEQ=SPAR S128	GS ACQ SCENARI O BASE1TNS		[==>]	[1]
	2		(7) OBJ-104745+134658-COPY	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=13; SAMP-SEQ=SPAR S128	POS TARG 1.15,1.1 3		[==>]	[1]
	3		(7) OBJ-104745+134658-COPY	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=13; SAMP-SEQ=SPAR S128	POS TARG 0.02,1.1		[==>]	[2]
	4		(7) OBJ-104745+134658-COPY	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=12; SAMP-SEQ=SPAR S128	POS TARG -1.08,1. 1		[==>]	[2]
	5		(7) OBJ-104745+134658-COPY	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=13; SAMP-SEQ=SPAR S128	POS TARG -1.1,0.0 5		[==>]	[3]
	6		(7) OBJ-104745+134658-COPY	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=12; SAMP-SEQ=SPAR S128	POS TARG -1.12,-1. 12		[==>]	[3]

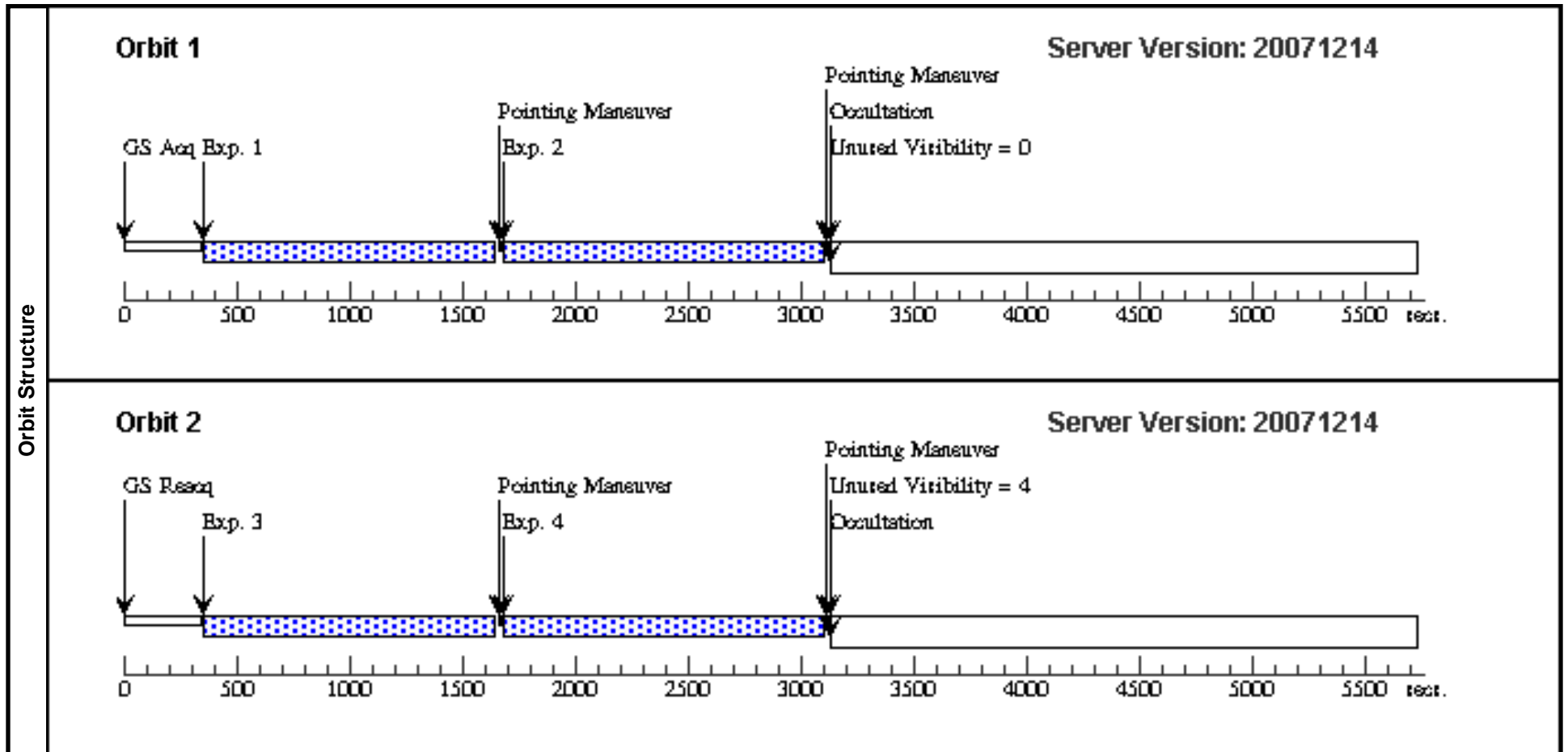


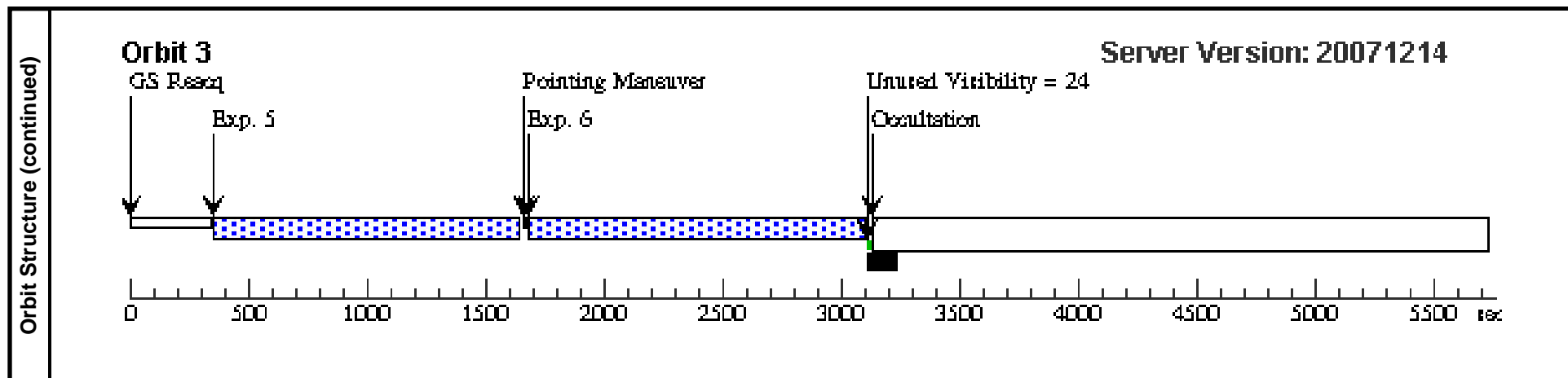


Proposal 10899 - Visit 52 - Identifying z>7 galaxies from J-dropouts

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Visit	Proposal 10899, Visit 52, failed Diagnostic Status: No Diagnostics Scientific Instruments: NIC3 Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(7)	OBJ-104745+134658-COPY	RA: 10 47 44.7200 (161.9363333d) Dec: +13 46 58.80 (13.78300d) Equinox: J2000		V=30	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(7) OBJ-104745+134658-COPY	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=12; SAMP-SEQ=SPAR S128	POS TARG -1.1,0.0 2; GS ACQ SCENARI O BASE1TNS		[==>]	[1]
	2		(7) OBJ-104745+134658-COPY	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=13; SAMP-SEQ=SPAR S128	POS TARG 0.0,-1.0 8		[==>]	[1]
	3		(7) OBJ-104745+134658-COPY	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=12; SAMP-SEQ=SPAR S128	POS TARG 1.13,0.0 5		[==>]	[2]
	4		(7) OBJ-104745+134658-COPY	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=13; SAMP-SEQ=SPAR S128	POS TARG 0.51,0.4 800000000000000004		[==>]	[2]
	5		(7) OBJ-104745+134658-COPY	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=12; SAMP-SEQ=SPAR S128	POS TARG 0.02,0.5		[==>]	[3]
	6		(7) OBJ-104745+134658-COPY	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=13; SAMP-SEQ=SPAR S128	POS TARG -0.5,0.5 2		[==>]	[3]





Proposal 10899 - Visit F2 - Identifying z>7 galaxies from J-dropouts

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Visit	Proposal 10899, Visit F2 Diagnostic Status: No Diagnostics Scientific Instruments: NIC3 Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(7)	OBJ-104745+134658-COPY	RA: 10 47 44.7200 (161.9363333d) Dec: +13 46 58.80 (13.78300d) Equinox: J2000		V=30	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(7) OBJ-104745+134658-COPY	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=12; SAMP-SEQ=SPAR S128	POS TARG -1.1,0.0 2; GS ACQ SCENARI O BASE1TNS		[==>]	[1]
	2		(7) OBJ-104745+134658-COPY	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=13; SAMP-SEQ=SPAR S128	POS TARG 0.0,-1.0 8		[==>]	[1]
	3		(7) OBJ-104745+134658-COPY	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=12; SAMP-SEQ=SPAR S128	POS TARG 1.13,0.0 5		[==>]	[2]
	4		(7) OBJ-104745+134658-COPY	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=13; SAMP-SEQ=SPAR S128	POS TARG 0.51,0.4 800000000000000004		[==>]	[2]
	5		(7) OBJ-104745+134658-COPY	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=12; SAMP-SEQ=SPAR S128	POS TARG 0.02,0.5		[==>]	[3]
	6		(7) OBJ-104745+134658-COPY	NIC3, MULTIACCUM, NIC3	F110W	NSAMP=13; SAMP-SEQ=SPAR S128	POS TARG -0.5,0.5 2		[==>]	[3]

