



11192 - NICMOS Confirmation of Candidates of the Most Luminous Galaxies at $z > 7$

Cycle: 16, Proposal Category: GO
(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) ZDROP-HDFN01 ANY	NIC3 WFPC2	4	07-Jul-2008 21:10:53.0	yes
02	(2) ZDROP-HDFN02 ANY	NIC3 WFPC2	4	07-Jul-2008 21:11:10.0	yes
03	(3) ZDROP-HDFN03 ANY	NIC3 WFPC2	4	07-Jul-2008 21:11:26.0	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>
04	(4) ZDROP-HDFN04 ANY	NIC3 WFPC2	4	07-Jul-2008 21:11:37.0	yes
05	(5) ZDROP-CDFS01 ANY	NIC3 WFPC2	4	07-Jul-2008 21:11:52.0	yes
06	(6) ZDROP-CDFS02 ANY	NIC3 WFPC2	4	07-Jul-2008 21:12:02.0	yes
15	(5) ZDROP-CDFS01 ANY	NIC3 WFPC2	3	07-Jul-2008 21:12:14.0	yes

27 Total Orbits Used

ABSTRACT

While the deepest pencil-beam near-IR survey suggested that the Universe was too young to build up many luminous galaxies by $z \sim 7$ --8 (Bouwens & Illingworth 2006), there is also evidence indicating the contrary. It is now known that some galaxies with stellar masses of $M > 10^{10} M_{\odot}$ were already in place by $z \sim 6$ --7, which strongly suggests that their progenitors should be significantly more luminous, and hence detectable in deep, wide-field near-IR surveys (Yan et al. 2006). As galaxies at such a high redshift should manifest themselves as "dropouts" from the optical, we have carried out a very wide-field, deep near-IR survey in the GOODS fields to search for z-band dropouts as candidates of galaxies at $z > 7$. In total, six promising candidates have been found in ~ 300 sq. arcmin to $J_{AB} \sim 24.5$ mag (corresponding to restframe $M(UV) < -22.5$ mag at $z \sim 7$). By contrast, the galaxy luminosity function (LF) suggested in BI06 would predict at most 3--5 galaxies over the entire 2π sky at this brightness level. Here we propose to observe these candidates with NIC3 in F110W and F160W to further investigate their nature. If any of these candidates are indeed at $z > 7$, the result will lead to a completely new picture of star formation in the early universe. If none of our candidates are consistent with being at $z > 7$, then the depth and area of our near-IR survey (from which the candidates are drawn) will let us set a very stringent upper limit on the bright end of the galaxy LF at those redshift. As a result, our program will still be able to provide new clues about the processes of early galaxy formation, such as their dust contents and their merging time scale (Yan et al. 2006).

OBSERVING DESCRIPTION

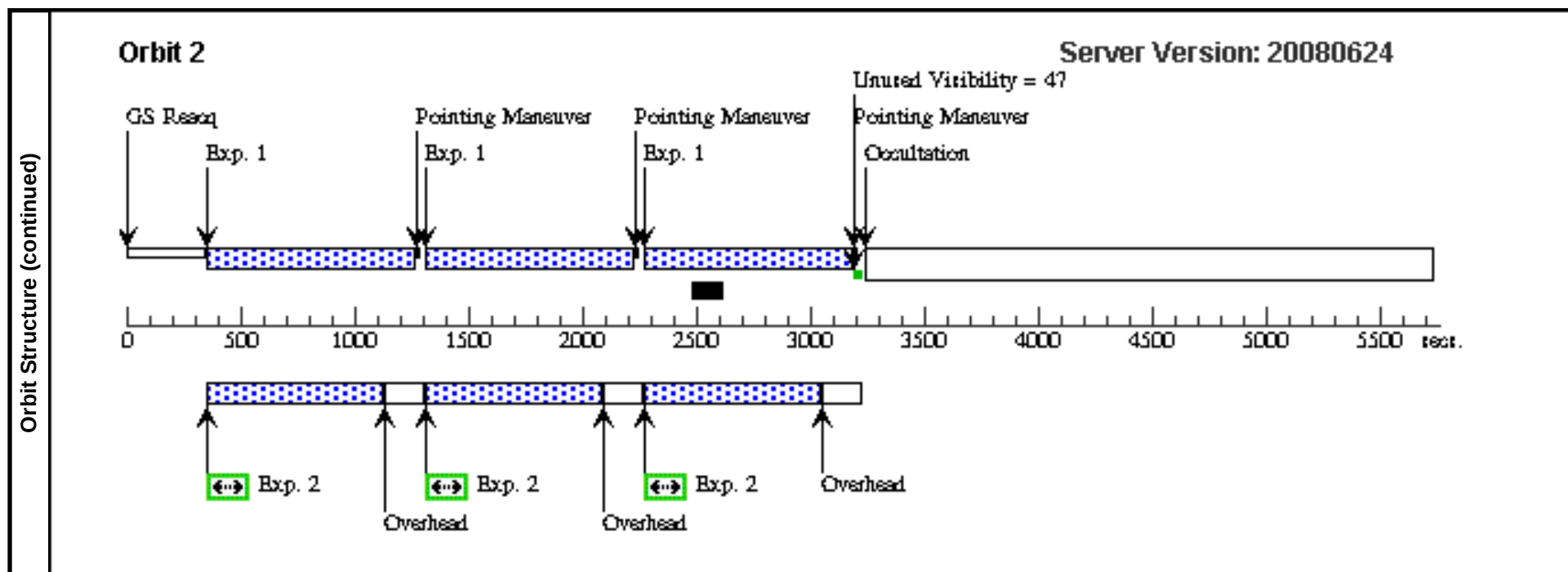
This project will use NIC3 to image a few luminous $z>7$ candidates in the F110W and the F160W filters. Six independent fields will be observed. Four of these fields are in the general direction of the HDF-N, while the remaining two are in the CDF-S. Each field will be observed for 2 orbits in F110W and 2 orbits in F160W.

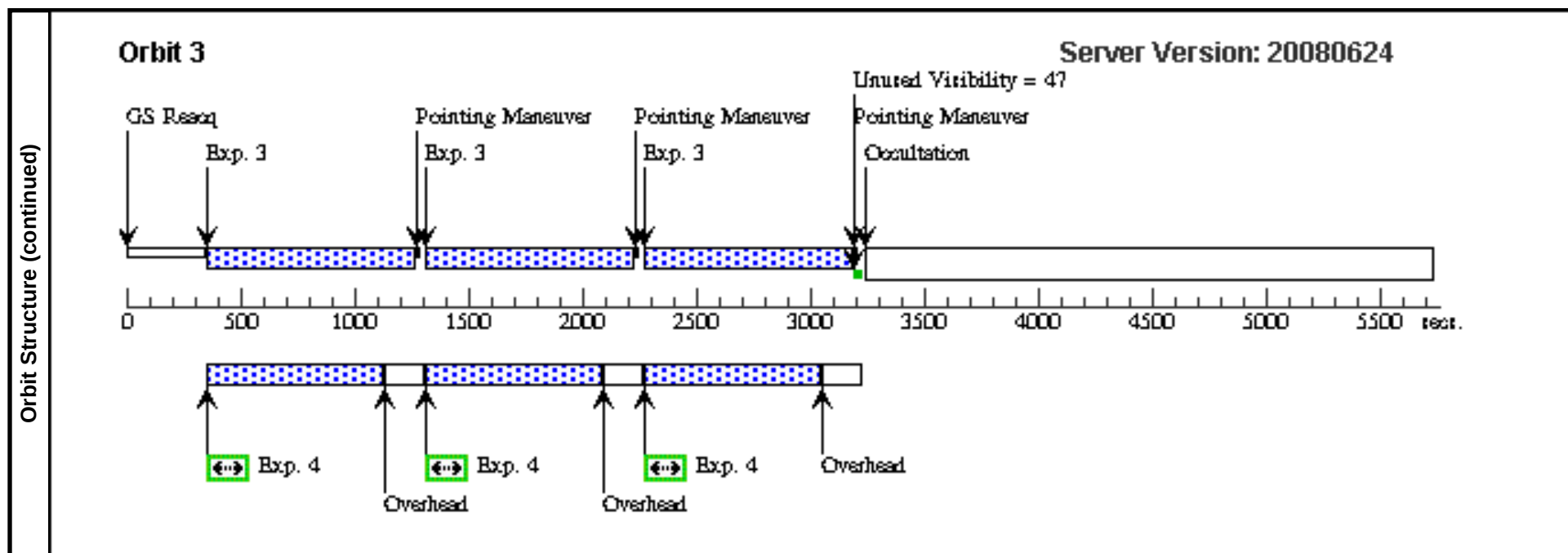
Proposal 11192 - Visit 01 - NICMOS Confirmation of Candidates of the Most Luminous Galaxies at $z > 7$

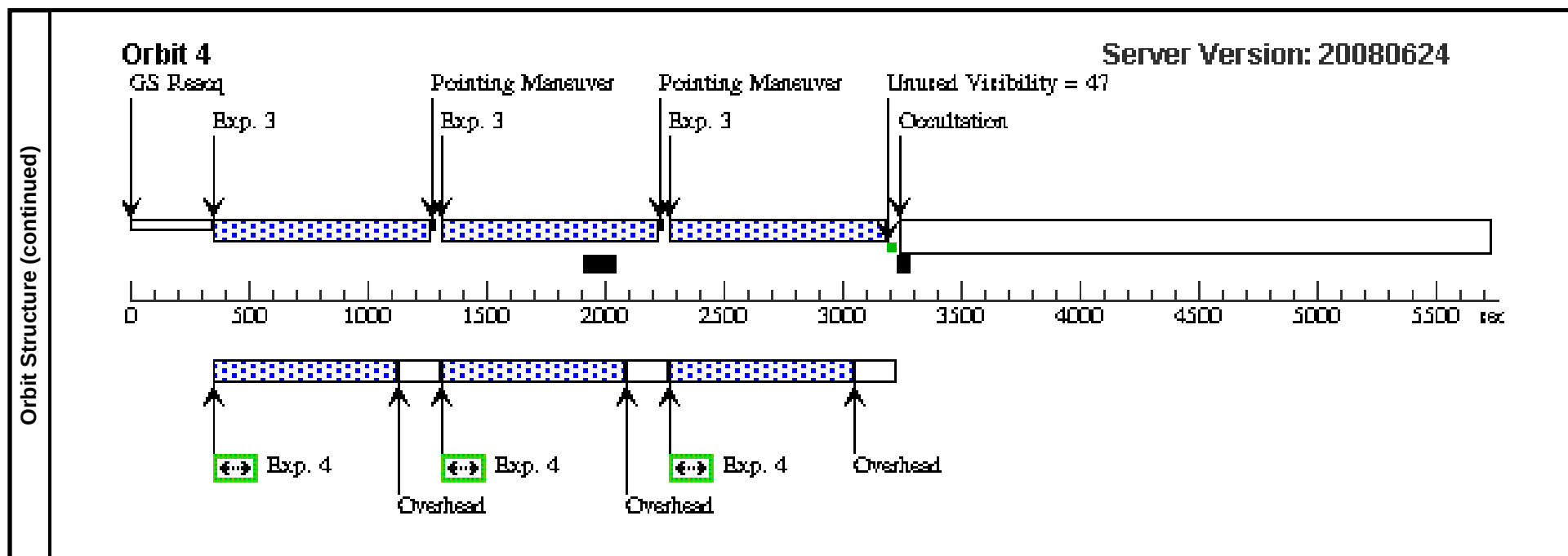
Visit	Proposal 11192, Visit 01, completed										Tue Jul 08 01:12:19 GMT 2008		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: WFPC2, NIC3												
	Special Requirements: (none)												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=NIC-SPIRAL-DITH Purpose=DITHER Number Of Points=6 Point Spacing=5.06 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=23.0 Angle Between Sides= Center Pattern=true							(1-2), (3-4)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(1)	ZDROP-HDFN01		RA: 12 37 50.1420 (189.4589250d) Dec: +62 13 56.50 (62.23236d) Equinox: J2000				V=(?) J(AB) ~ 24.5		Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit	
	1	NIC3	(1) ZDROP-HDFN01	NIC3, MULTIACCUM, NIC3		F160W	SAMP-SEQ=SPARS 64; NSAMP=16		Pattern 1-2 (1) Prime + Parallel Group 1-2	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]		[1]	
										[==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]		[2]	
	2	WFPC2	ANY	WFPC2, IMAGE, WF2-FIX		F300W			Pattern 1-2 (1) Prime + Parallel Group 1-2	600.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]		[1]	
										[==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]		[2]	
	3	NIC3	(1) ZDROP-HDFN01	NIC3, MULTIACCUM, NIC3		F110W	SAMP-SEQ=SPARS 64; NSAMP=16		Pattern 3-4 (1) Prime + Parallel Group 3-4	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]		[3]	
										[==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]		[4]	

Proposal 11192 - Visit 01 - NICMOS Confirmation of Candidates of the Most Luminous Galaxies at $z > 7$

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	4	WPFC2	ANY	WFPC2, IMAGE, WF2-FIX	F300W			Pattern 3-4 (1) Prime + Parallel Gro up 3-4	600.0 Secs	
									[=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[3]
									[=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)]	[4]
Orbit 1 Server Version: 20080624										







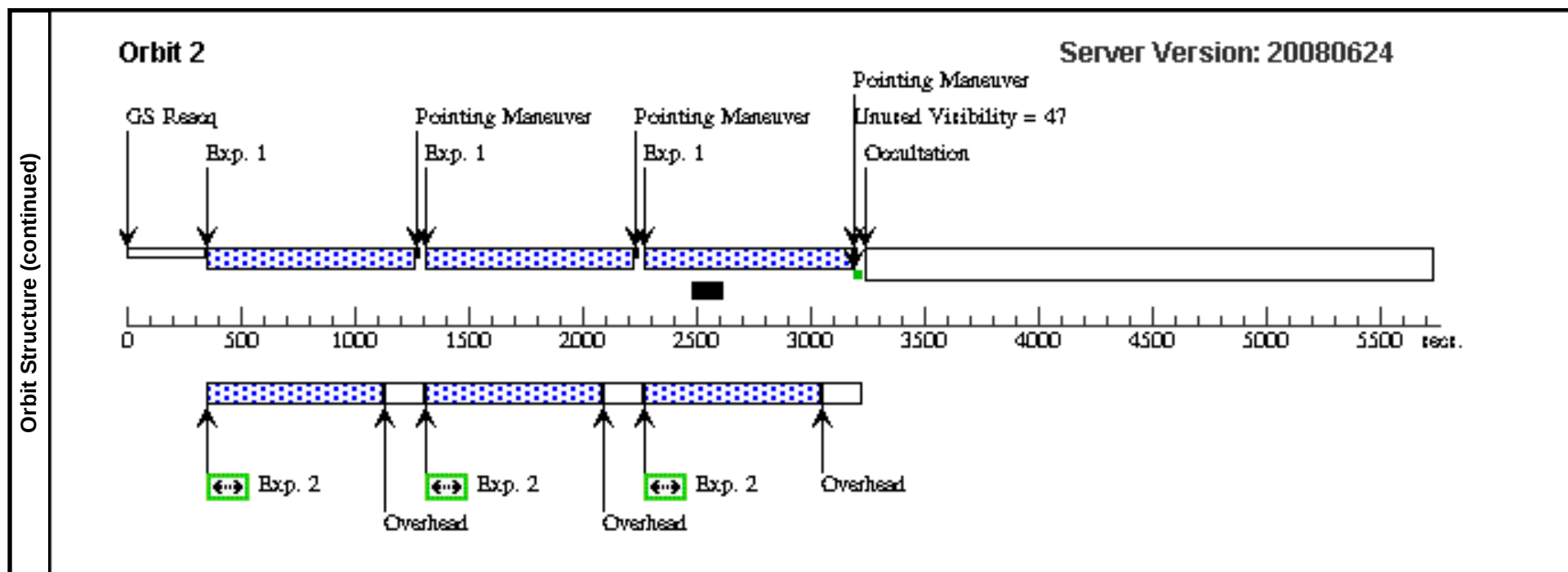
Proposal 11192 - Visit 02 - NICMOS Confirmation of Candidates of the Most Luminous Galaxies at $z > 7$

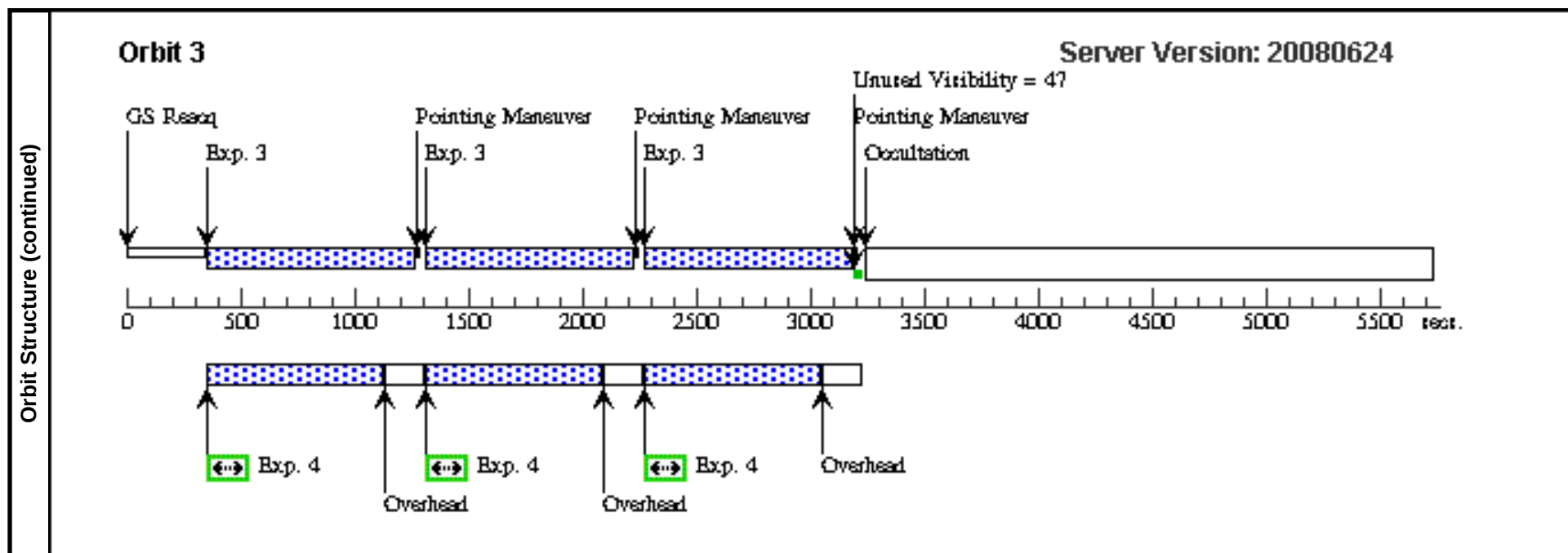
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	Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2, NIC3 Special Requirements: (none)									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=NIC-SPIRAL-DITH Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=23.0 Number Of Points=6 Angle Between Sides= Point Spacing=5.06 Center Pattern=true Line Spacing=							(1-2), (3-4)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(2)	ZDROP-HDFN02	RA: 12 38 5.0250 (189.5209375d) Dec: +62 17 16.10 (62.28781d) Equinox: J2000				V=? J(AB) ~ 24.5		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	NIC3	(2) ZDROP-HDFN02	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 64; NSAMP=16		Pattern 1-2 (1) Prime + Parallel Group 1-2	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
									[==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]	[2]
	2	WFPC2	ANY	WFPC2, IMAGE, WF2-FIX	F300W			Pattern 1-2 (1) Prime + Parallel Group 1-2	600.0 Secs	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
									[==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]	[2]
	3	NIC3	(2) ZDROP-HDFN02	NIC3, MULTIACCUM, NIC3	F110W	SAMP-SEQ=SPARS 64; NSAMP=16		Pattern 3-4 (1) Prime + Parallel Group 3-4	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[3]
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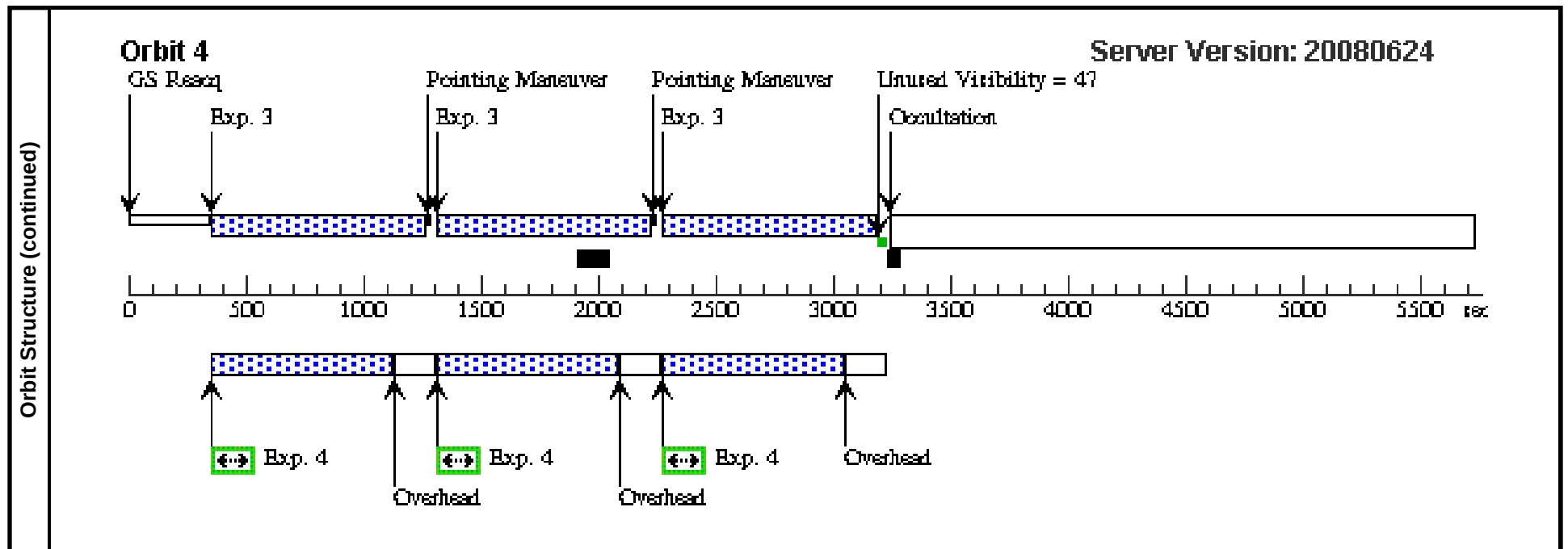
Proposal 11192 - Visit 02 - NICMOS Confirmation of Candidates of the Most Luminous Galaxies at $z > 7$

Exposures (continued)	#	Label	Target	Config, Mode, Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	4	WFPC2	ANY	WFPC2, IMAGE, WF2-FIX	F300W			Pattern 3-4 (1) Prime + Parallel Group 3-4	600.0 Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)]	[3] [4]

Orbit Structure	Orbit 1 Server Version: 20080624 Unred Visibility = 47 GS Acq Exp. 1 Pointing Maneuver Exp. 1 Pointing Maneuver Exp. 1 Pointing Maneuver Occultation 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 sec. Exp. 2 Overhead Exp. 2 Overhead Exp. 2 Overhead									



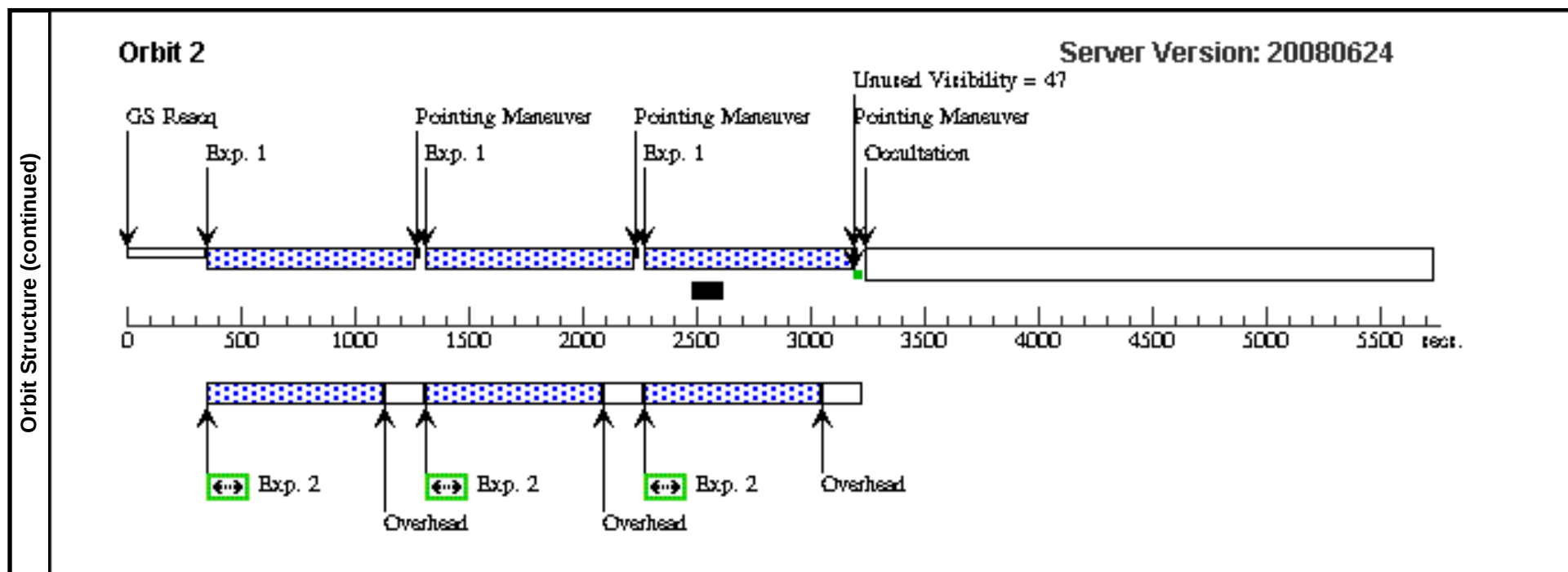


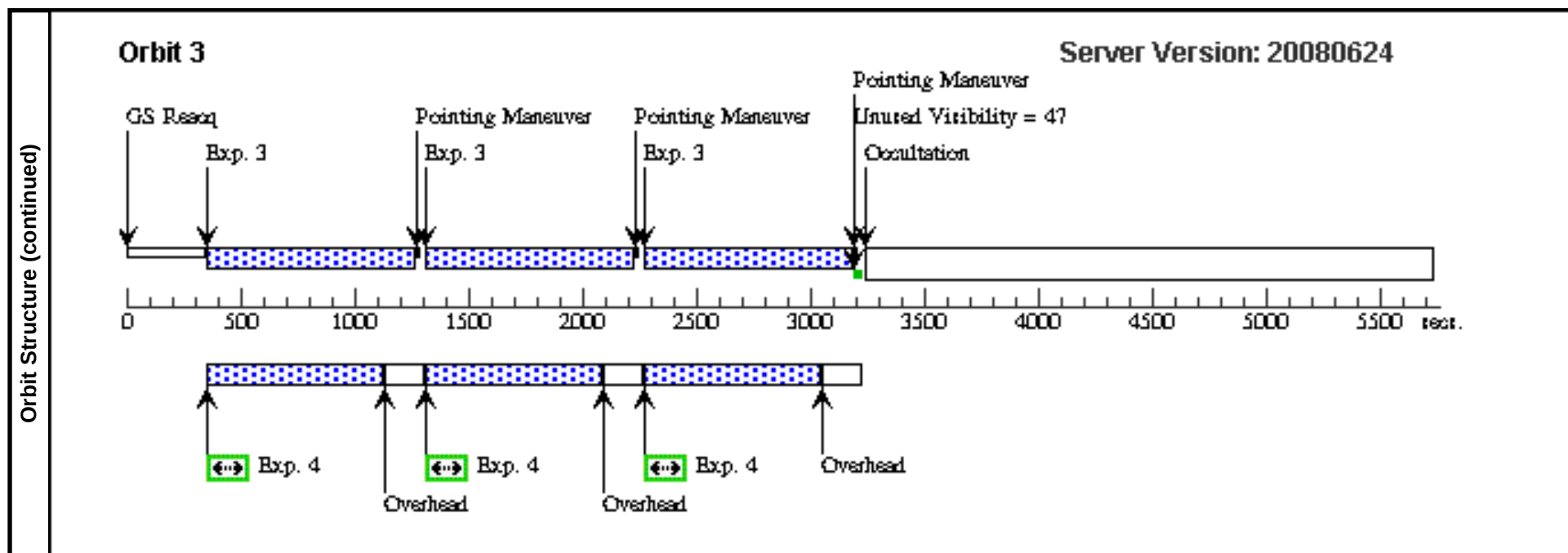


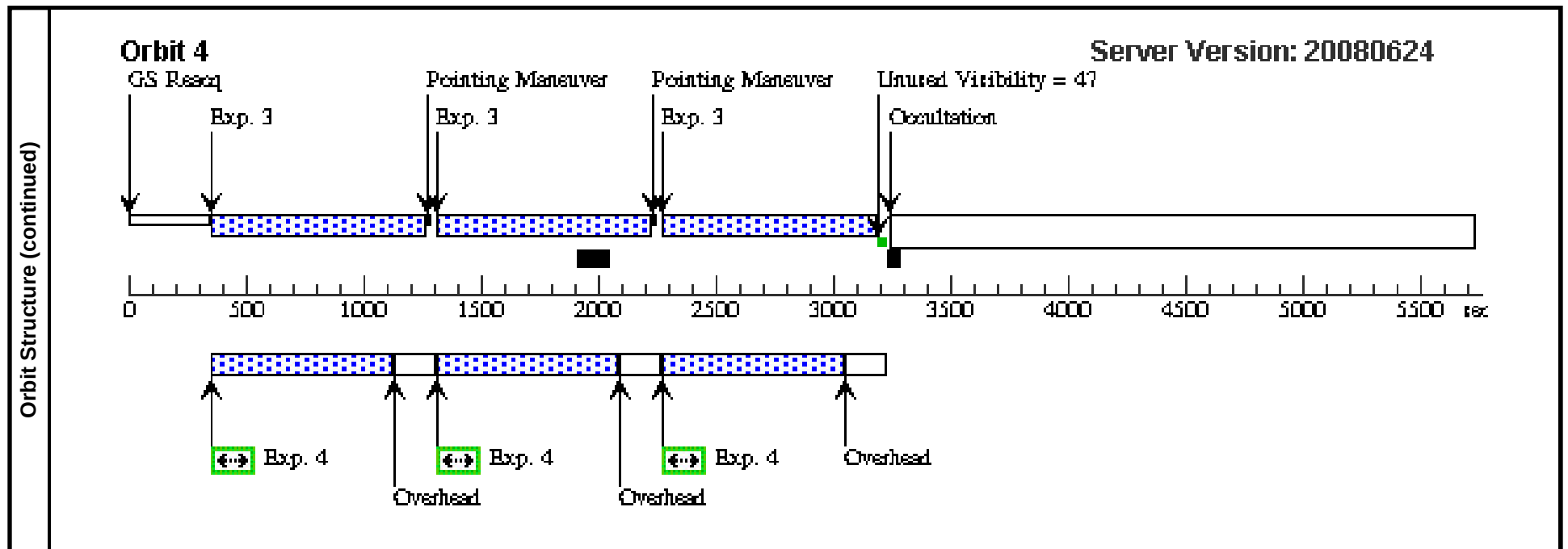
Proposal 11192 - Visit 03 - NICMOS Confirmation of Candidates of the Most Luminous Galaxies at $z > 7$

Visit	Proposal 11192, Visit 03, completed										Tue Jul 08 01:12:22 GMT 2008		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: WFPC2, NIC3												
	Special Requirements: (none)												
Patterns	#	Primary Pattern					Secondary Pattern					Exposures	
	(1)	Pattern Type=NIC-SPIRAL-DITH Purpose=DITHER Number Of Points=6 Point Spacing=5.06 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=23.0 Angle Between Sides= Center Pattern=true							(1-2), (3-4)	
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(3)	ZDROP-HDFN03		RA: 12 35 59.7290 (188.9988708d) Dec: +62 10 50.79 (62.18078d) Equinox: J2000				V=(?) J(AB) ~ 24.5		Reference Frame: ICRS			
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]		Orbit	
	1	NIC3	(3) 3	ZDROP-HDFN0	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 64; NSAMP=16		Pattern 1-2 (1) Prime + Parallel Gro up 1-2	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]		
										[==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]	[2]		
	2	WFPC2	ANY	WFPC2, IMAGE, WF2-FIX		F300W			Pattern 1-2 (1) Prime + Parallel Gro up 1-2	600.0 Secs			
										[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]		
										[==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]	[2]		
	3	NIC3	(3) 3	ZDROP-HDFN0	NIC3, MULTIACCUM, NIC3	F110W	SAMP-SEQ=SPARS 64; NSAMP=16		Pattern 3-4 (1) Prime + Parallel Gro up 3-4	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[3]		
										[==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]	[4]		

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	4	WFPC2	ANY	WFPC2, IMAGE, WF2-FIX	F300W			Pattern 3-4 (1) Prime + Parallel Gro up 3-4	600.0 Secs	
									[=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[3]
									[=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)]	[4]
Orbit 1 Server Version: 20080624 Unused Virability = 47 GS Acq Exp. 1 Pointing Maneuver Pointing Maneuver Pointing Maneuver Occultation Exp. 1 Exp. 1 Exp. 1 Exp. 2 Exp. 2 Exp. 2 Overhead										







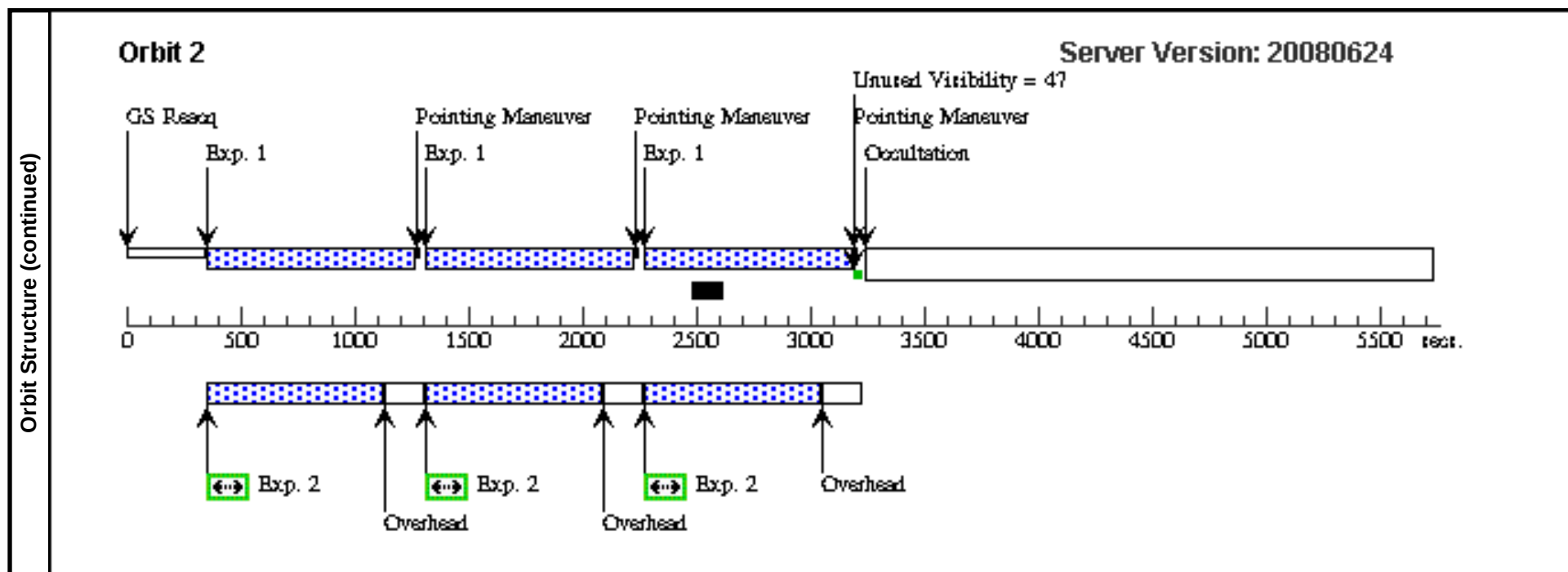
Proposal 11192 - Visit 04 - NICMOS Confirmation of Candidates of the Most Luminous Galaxies at $z > 7$

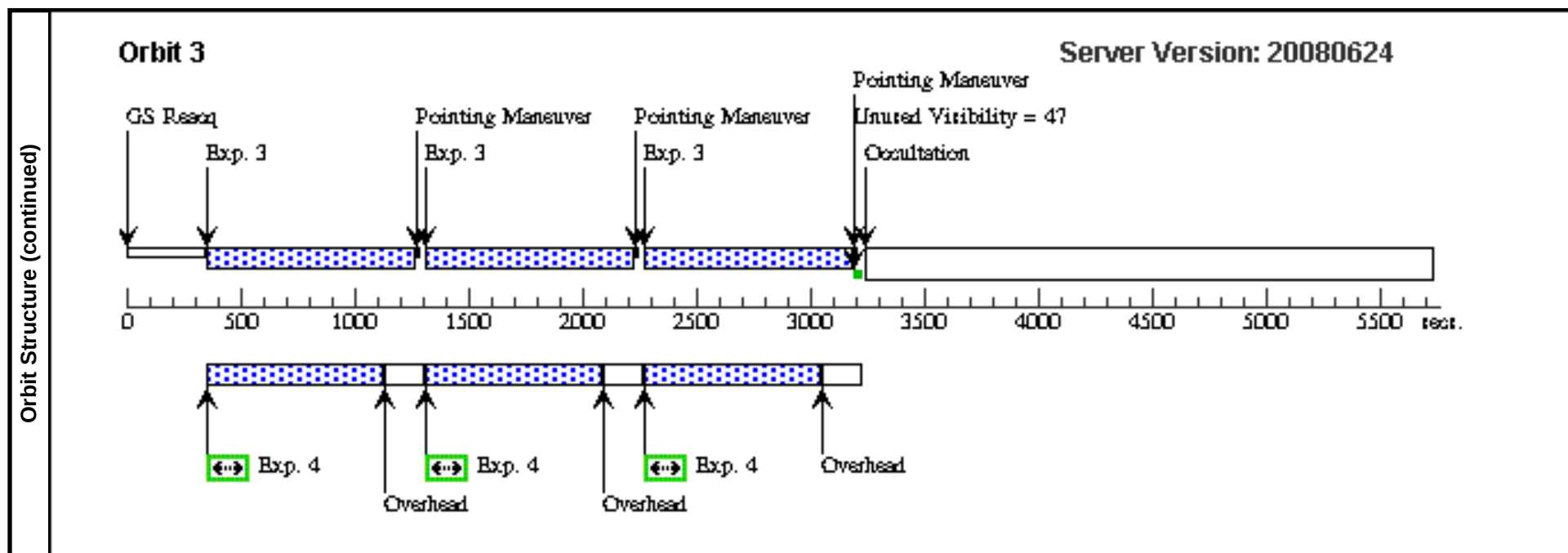
Visit	Proposal 11192, Visit 04, completed Tue Jul 08 01:12:23 GMT 2008									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2, NIC3 Special Requirements: (none)									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=NIC-SPIRAL-DITH Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=23.0 Number Of Points=6 Angle Between Sides= Point Spacing=5.06 Center Pattern=true Line Spacing=							(1-2), (3-4)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(4)	ZDROP-HDFN04	RA: 12 37 24.3140 (189.3513083d) Dec: +62 15 25.35 (62.25704d) Equinox: J2000				V=? J(AB) ~ 24.5		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	NIC3	(4) ZDROP-HDFN04	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 64; NSAMP=16		Pattern 1-2 (1) Prime + Parallel Group 1-2	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
									[==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]	[2]
	2	WFPC2	ANY	WFPC2, IMAGE, WF2-FIX	F300W			Pattern 1-2 (1) Prime + Parallel Group 1-2	600.0 Secs	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
									[==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]	[2]
	3	NIC3	(4) ZDROP-HDFN04	NIC3, MULTIACCUM, NIC3	F110W	SAMP-SEQ=SPARS 64; NSAMP=16		Pattern 3-4 (1) Prime + Parallel Group 3-4	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[3]
									[==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]	[4]

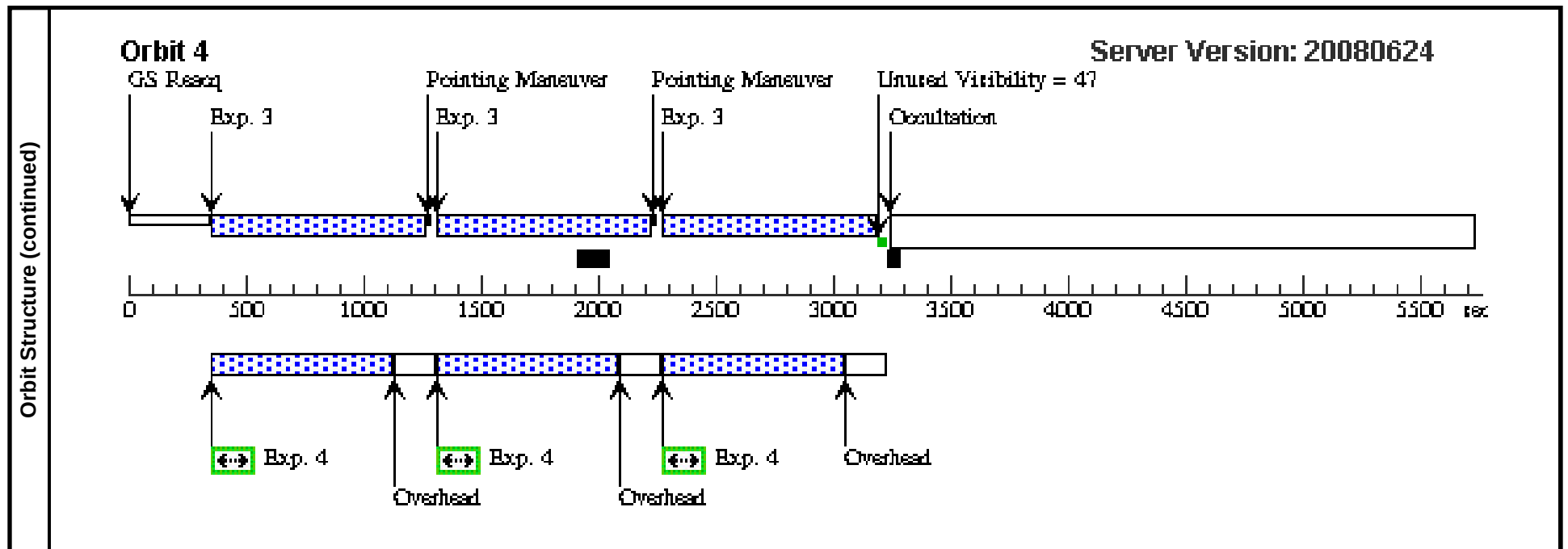
Proposal 11192 - Visit 04 - NICMOS Confirmation of Candidates of the Most Luminous Galaxies at $z > 7$

Exposures (continued)	#	Label	Target	Config, Mode, Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	4	WFPC2	ANY	WFPC2, IMAGE, WF2-FIX	F300W			Pattern 3-4 (1) Prime + Parallel Group 3-4	600.0 Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)]	[3] [4]

Orbit Structure	Orbit 1 Server Version: 20080624 The diagram illustrates the timing of observations and maneuvers for Orbit 1. The primary sequence includes a GS Acquisition (Exp. 1) from 0 to 400 seconds, followed by a Pointing Maneuver (400-1200s), a primary exposure (Exp. 1) from 1200 to 2200 seconds, another Pointing Maneuver (2200-3200s), a short primary exposure (Exp. 1) at 3200-3300 seconds, a final Pointing Maneuver (3300-3400s), and a long Occultation period from 3400 to 5500 seconds. A secondary sequence below shows three exposures (Exp. 2) from 0 to 1200s, 1300 to 2200s, and 2300 to 3200s, each preceded by an overhead period. The total Unused Visibility is 47 seconds.									
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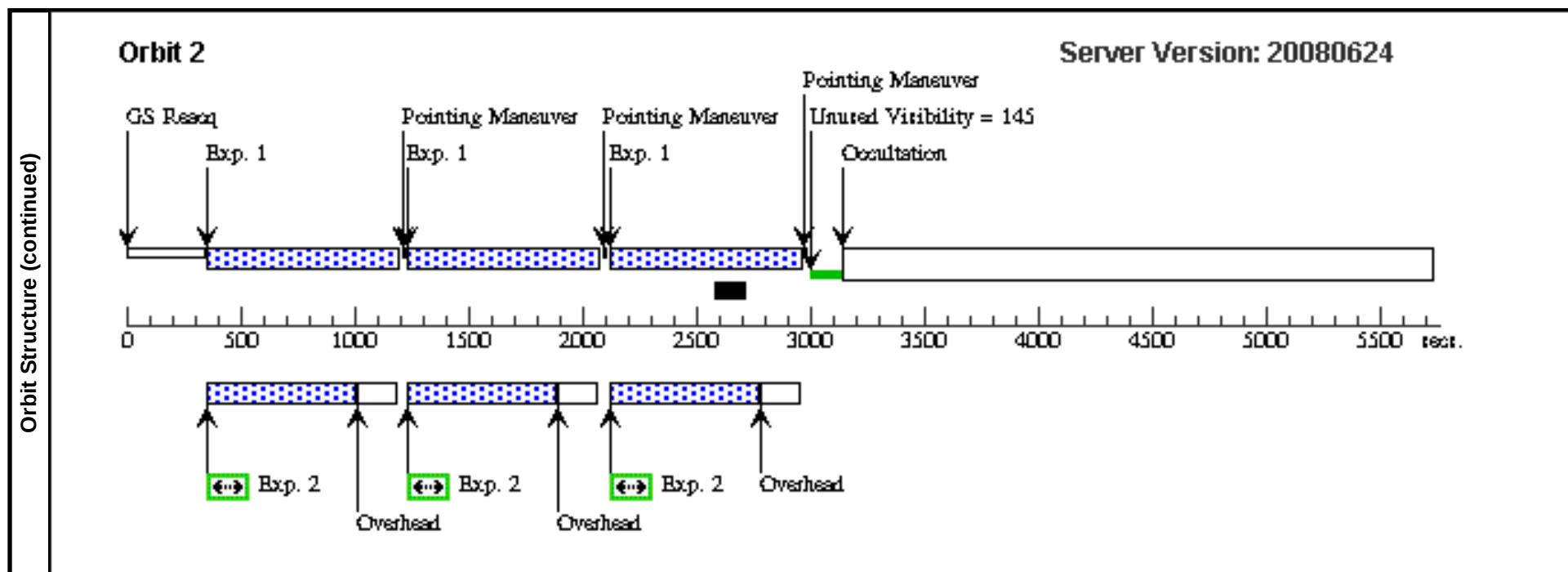


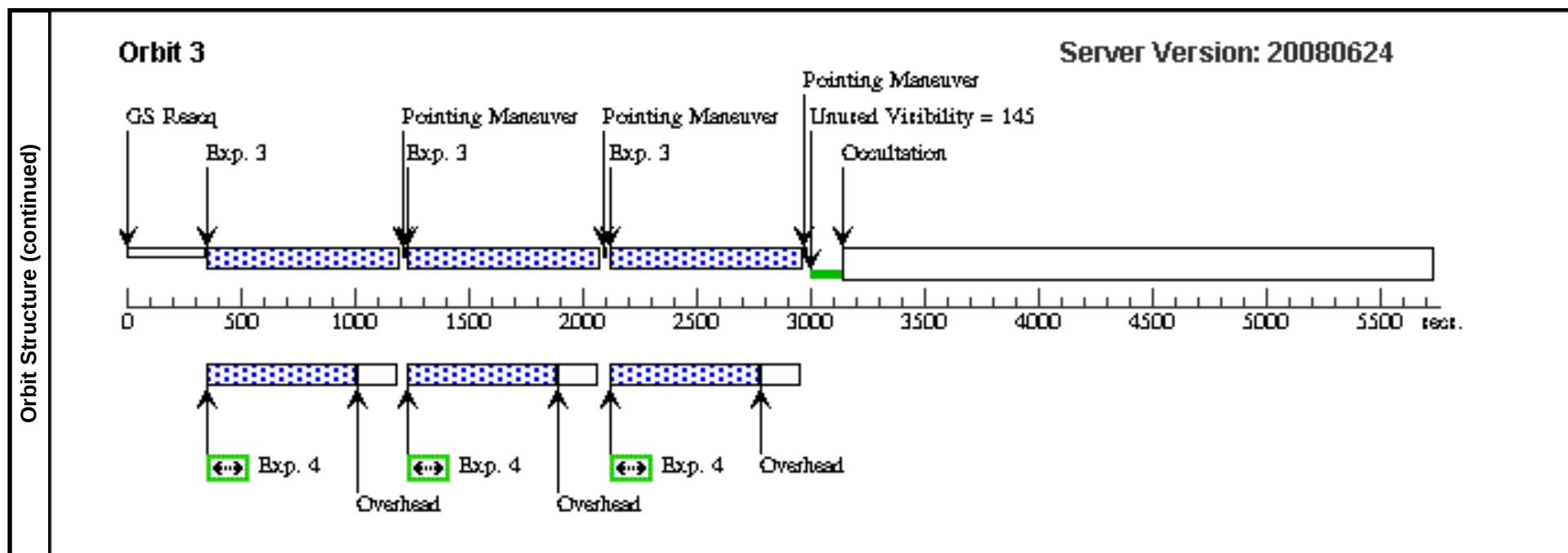


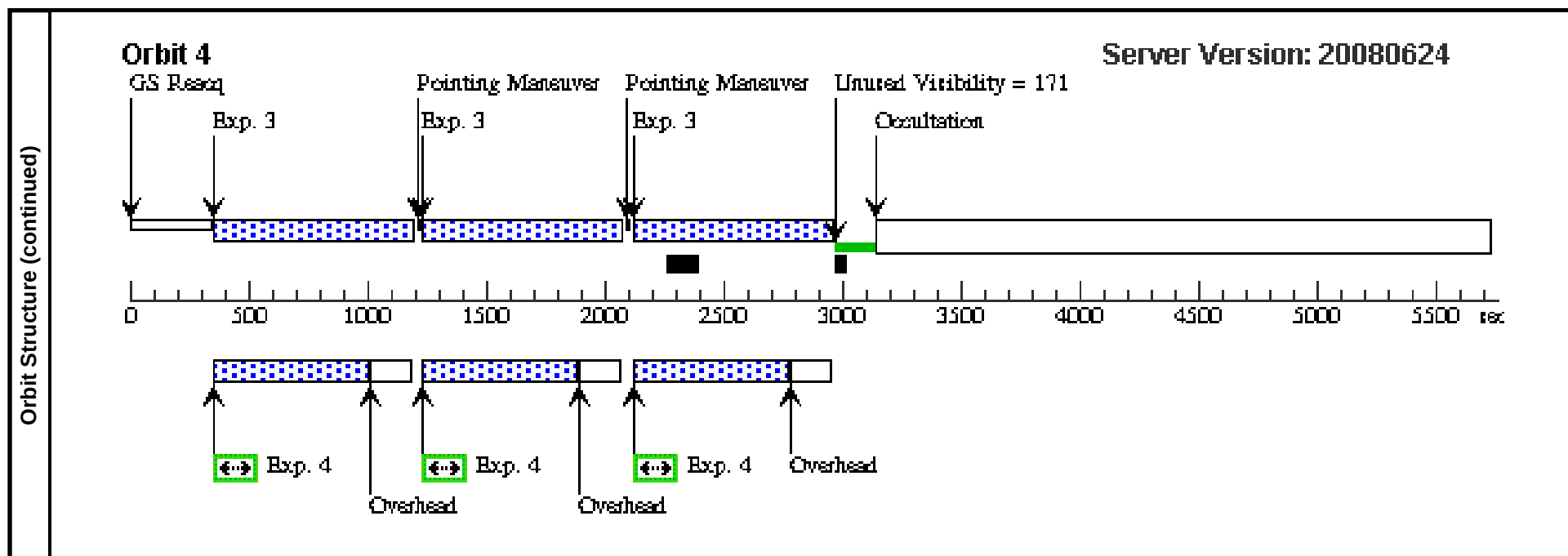
Proposal 11192 - Visit 05 - NICMOS Confirmation of Candidates of the Most Luminous Galaxies at $z > 7$

Visit	Proposal 11192, Visit 05, failed Tue Jul 08 01:12:23 GMT 2008									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2, NIC3 Special Requirements: (none)									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=NIC-SPIRAL-DITH Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=23.0 Number Of Points=6 Angle Between Sides= Point Spacing=5.06 Center Pattern=true Line Spacing=							(1-2), (3-4)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(5)	ZDROP-CDFS01	RA: 03 32 51.7330 (53.2155542d) Dec: -27 47 47.00 (-27.79639d) Equinox: J2000				V=? J(AB) ~ 24.5		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	NIC3	(5) ZDROP-CDFS01	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 64; NSAMP=15		Pattern 1-2 (1) Prime + Parallel Group 1-2	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
									[==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]	[2]
	2	WFPC2	ANY	WFPC2, IMAGE, WF2-FIX	F300W			Pattern 1-2 (1) Prime + Parallel Group 1-2	500.0 Secs	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
									[==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]	[2]
	3	NIC3	(5) ZDROP-CDFS01	NIC3, MULTIACCUM, NIC3	F110W	SAMP-SEQ=SPARS 64; NSAMP=15		Pattern 3-4 (1) Prime + Parallel Group 3-4	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[3]
									[==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]	[4]

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	4	WFPC2	ANY	WFPC2, IMAGE, WF2-FIX	F300W			Pattern 3-4 (1) Prime + Parallel Group 3-4	500.0 Secs	
									[=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[3]
									[=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)]	[4]
Orbit 1 Server Version: 20080624										



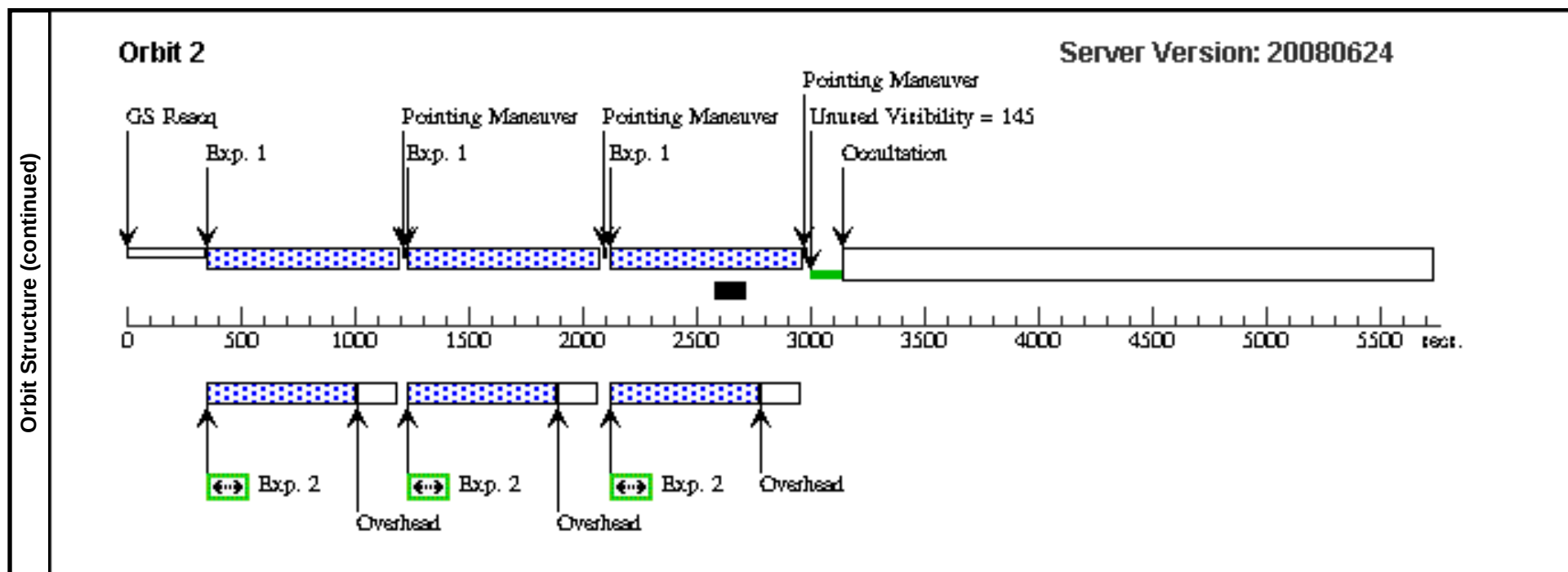


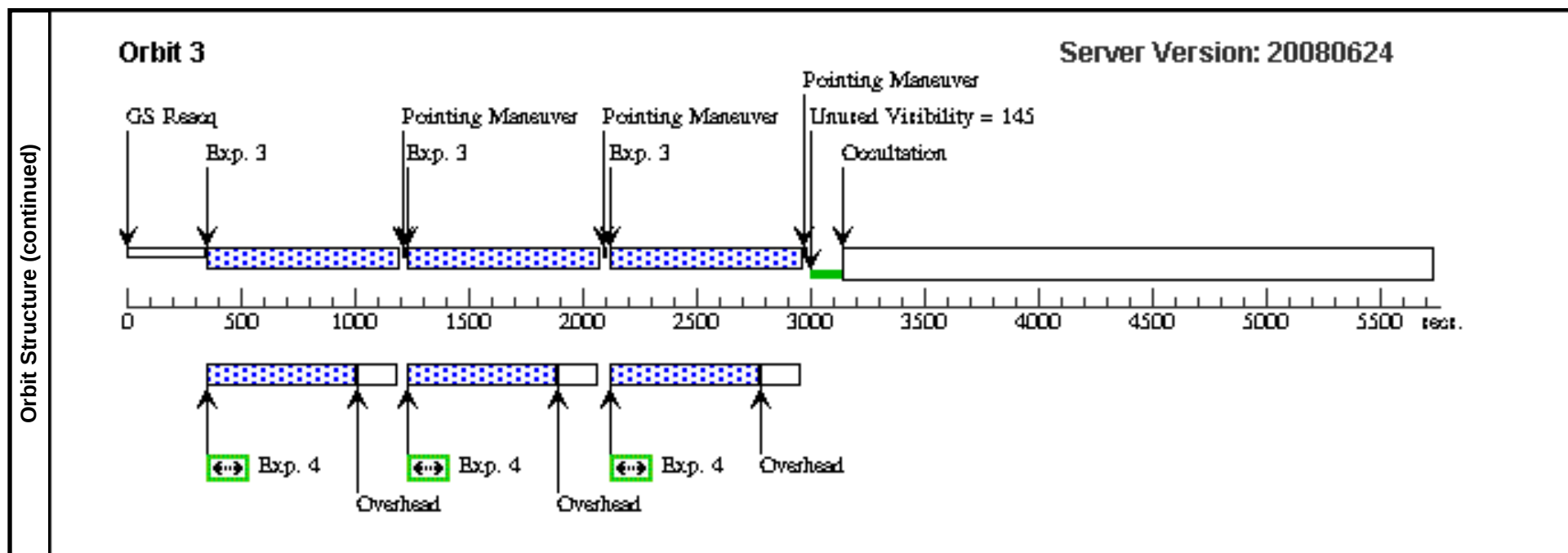


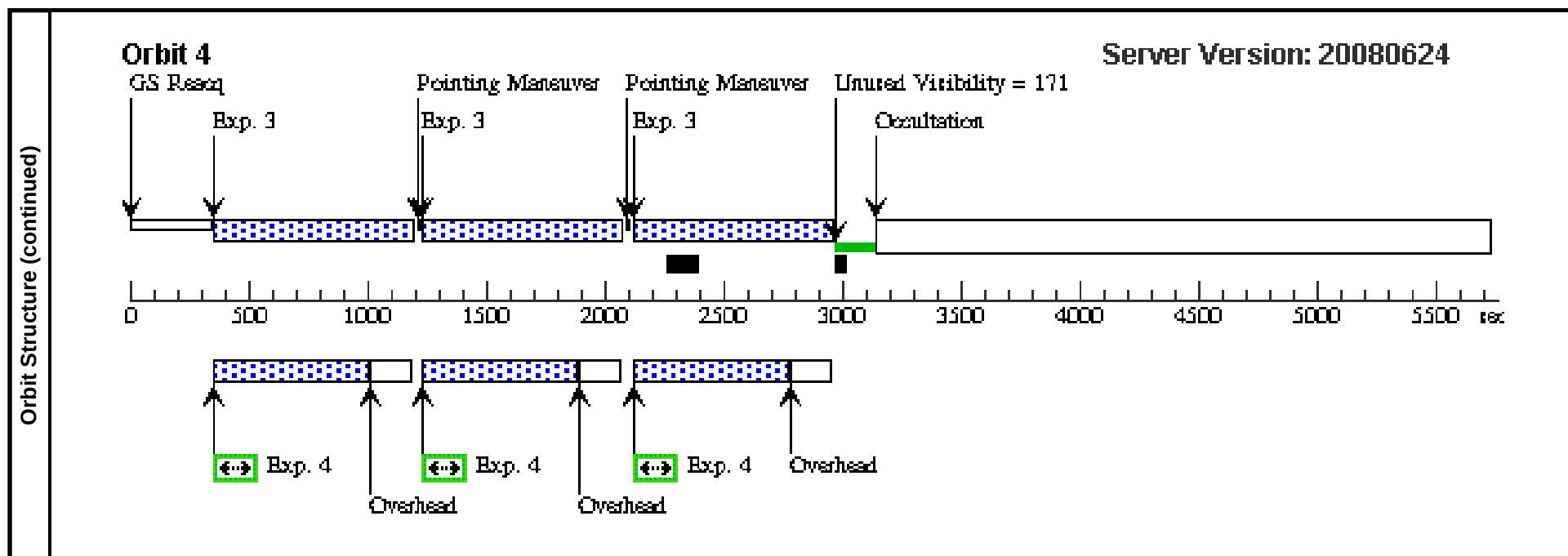
Proposal 11192 - Visit 06 - NICMOS Confirmation of Candidates of the Most Luminous Galaxies at $z > 7$

Visit	Proposal 11192, Visit 06, completed Tue Jul 08 01:12:24 GMT 2008									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2, NIC3 Special Requirements: (none)									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=NIC-SPIRAL-DITH Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=23.0 Number Of Points=6 Angle Between Sides= Point Spacing=5.06 Center Pattern=true Line Spacing=							(1-2), (3-4)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(6)	ZDROP-CDFS02	RA: 03 32 24.2750 (53.1011458d) Dec: -27 55 14.20 (-27.92061d) Equinox: J2000				V=? J(AB) ~ 24.5		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	NIC3	(6) ZDROP-CDFS02	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 64; NSAMP=15		Pattern 1-2 (1) Prime + Parallel Gro up 1-2	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
									[==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]	[2]
	2	WFPC2	ANY	WFPC2, IMAGE, WF2-FIX	F300W			Pattern 1-2 (1) Prime + Parallel Gro up 1-2	500.0 Secs	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
									[==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]	[2]
	3	NIC3	(6) ZDROP-CDFS02	NIC3, MULTIACCUM, NIC3	F110W	SAMP-SEQ=SPARS 64; NSAMP=15		Pattern 3-4 (1) Prime + Parallel Gro up 3-4	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[3]
									[==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]	[4]

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	4	WFPC2	ANY	WFPC2, IMAGE, WF2-FIX	F300W			Pattern 3-4 (1)	500.0 Secs	
								Prime + Parallel Group 3-4	[=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[3]
									[=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)]	[4]
Orbit 1 Server Version: 20080624										







Proposal 11192 - Visit 15 - NICMOS Confirmation of Candidates of the Most Luminous Galaxies at $z > 7$

Visit	Proposal 11192, Visit 15 Tue Jul 08 01:12:25 GMT 2008									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFPC2, NIC3 Special Requirements: (none)									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=NIC-SPIRAL-DITH Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=23.0 Number Of Points=6 Angle Between Sides= Point Spacing=5.06 Center Pattern=true Line Spacing=							(3-4)	
	(2)	Pattern Type=NIC-SPIRAL-DITH Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=23 Number Of Points=3 Angle Between Sides= Point Spacing=5.06 Center Pattern=true Line Spacing=							(1-2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(5)	ZDROP-CDFS01	RA: 03 32 51.7330 (53.2155542d) Dec: -27 47 47.00 (-27.79639d) Equinox: J2000				V=? J(AB) ~ 24.5		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	NIC3	(5) ZDROP-CDFS01	NIC3, MULTIACCUM, NIC3	F160W	SAMP-SEQ=SPARS 64; NSAMP=15		Pattern 1-2 (2) Prime + Parallel Gro up 1-2	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	2	WFPC2	ANY	WFPC2, IMAGE, WF2-FIX	F300W			Pattern 1-2 (2) Prime + Parallel Gro up 1-2	500.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	3	NIC3	(5) ZDROP-CDFS01	NIC3, MULTIACCUM, NIC3	F110W	SAMP-SEQ=SPARS 64; NSAMP=15		Pattern 3-4 (1) Prime + Parallel Gro up 3-4	[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[2]
									[==>(Pattern 4)] [==>(Pattern 5)] [==>(Pattern 6)]	[3]

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	4	WFPC2	ANY	WFPC2, IMAGE, WF2-FIX	F300W			Pattern 3-4 (1) Prime + Parallel Group 3-4	500.0 Secs	
									[=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[2]
									[=>(Pattern 4)] [=>(Pattern 5)] [=>(Pattern 6)]	[3]
Orbit Structure	Orbit 1 Server Version: 20080624									

