



## 12167 - Resolving the Matter of Massive Quiescent Galaxies at $z=1.5-2$

Cycle: 18, Proposal Category: GO

(Availability Mode: SUPPORTED)

### INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
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Prof. Pieter van Dokkum (CoI)	Yale University	
Mr. Jesse van de Sande (CoI)	Universiteit Leiden	
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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	(4) COS7712	WFC3/IR	1	07-Jul-2010 21:53:45.0	yes
02	(1) COS7296	WFC3/IR	1	07-Jul-2010 21:53:49.0	yes
03	(3) COS10580	WFC3/IR	1	07-Jul-2010 21:53:52.0	yes
04	(5) UDS34024	WFC3/IR	1	07-Jul-2010 21:53:55.0	yes
05	(6) COS939924	WFC3/IR	1	07-Jul-2010 21:53:58.0	yes
06	(7) C20866-3-P1	WFC3/IR	1	07-Jul-2010 21:54:01.0	yes
07	(8) C20683-2-P1	WFC3/IR	1	07-Jul-2010 21:54:04.0	yes
08	(9) C17637	WFC3/IR	1	07-Jul-2010 21:54:07.0	yes
09	(10) A17010-2-P1-P2	WFC3/IR	1	07-Jul-2010 21:54:11.0	yes
10	(12) A18507-P2	WFC3/IR	1	07-Jul-2010 21:54:14.0	yes
11	(13) A21129-P1	WFC3/IR	1	07-Jul-2010 21:54:16.0	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>
12	(14) U53937-3-P1	WFC3/IR	1	07-Jul-2010 21:54:19.0	yes
13	(16) U46881-P1	WFC3/IR	1	07-Jul-2010 21:54:22.0	yes

13 Total Orbits Used

## ABSTRACT

We and other groups have discovered that galaxies with little or no star formation exist at redshifts beyond 1.5, and that these galaxies are very small for their stellar mass. These galaxies as a class are approximately 5 times smaller than nearby early-type galaxies of the same mass. These results have very significant implications, as they demonstrate that even the most boring galaxies at high redshift, which have no or little starformation, must undergo dramatic structural changes while evolving to low redshift. The results are still uncertain, however, as the stellar masses of these galaxies have been estimated from stellar population models. These masses have unknown errors, mostly due to uncertainties in the stellar initial mass function. The stellar population masses can be tested using dynamical mass estimators. We have taken high signal-to-noise deep spectra of quiescent galaxies at  $z \sim 1.5 - 2$  using X-Shooter and LRIS on Keck. The spectra are exquisite and allow us to measure the velocity dispersions of these galaxies. To convert the dispersion to mass we need to measure accurate sizes of the galaxies. Here we propose to take WFC3 imaging so that we can measure the structural properties of these galaxies and derive their sizes, dynamical masses, and mass-to-light ratios.

## OBSERVING DESCRIPTION

This program images 13 targets in the WFC3 H band. The targeted distant galaxies have extremely deep ground-based spectra from Keck and VLT. There are no ORIENT or other scheduling constraints.

4 dithered exposures are obtained for each target, in a single orbit (and a single visit).

For 9 targets there is a single object of interest. For these targets we use IR as the pointing center and the standard small dither pattern to optimally sample the PSF.

For 4 targets (targets #7,8,10, and 14) there are 2 or 3 galaxies of interest in the WFC3 field. For these visits we use IR-FIX as the pointing center and a slightly larger dither pattern, so we can remove image defects regardless of the ORIENT. We verified that no galaxies will land on the "dead spot", for any ORIENT.

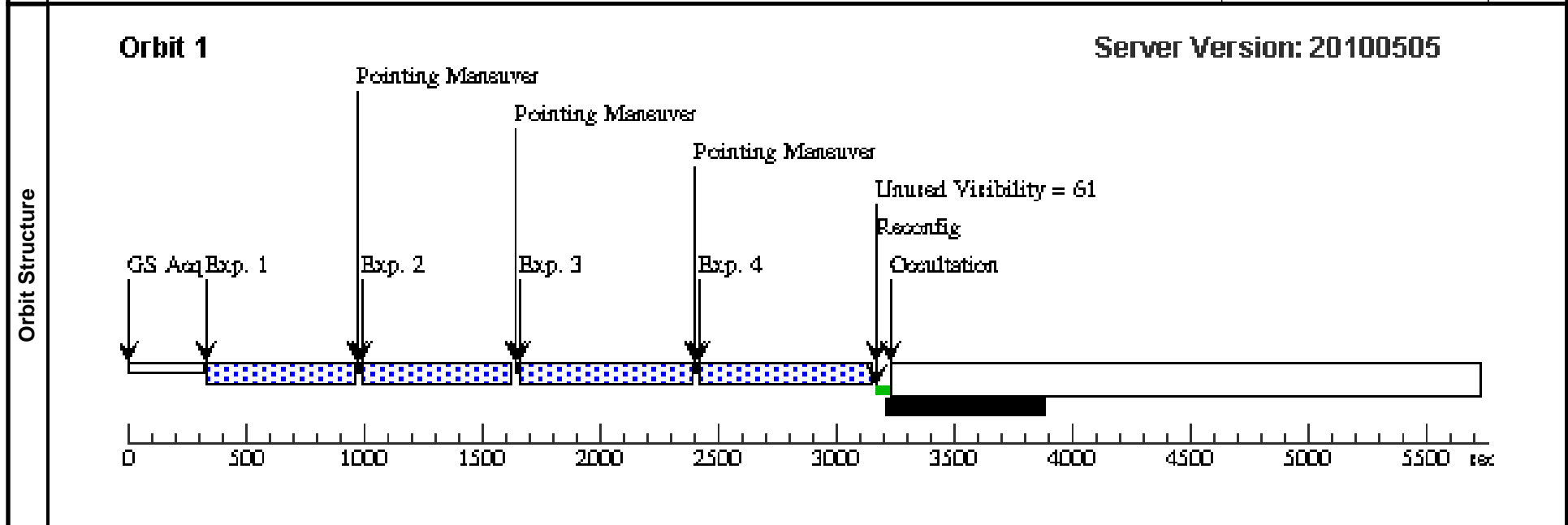
## Proposal 12167 (STScI Edit Number: 2, Created: Wednesday, July 7, 2010 8:54:25 PM EST) - Overview

We swapped one target wrt the phase I proposal. The new target (C17637, target #9) is similar in terms of redshift, mass, etc to all the other targets and to the target that was removed. It was swapped in because the spectrum we have for it has higher quality than the galaxy that was in the phase I proposal; this was an error on our part in the proposal.

<b>Visit</b>	<b>Proposal 12167, Visit 01, implementation</b>				
	<b>Diagnostic Status: No Diagnostics</b>				
	Scientific Instruments: WFC3/IR				
	Special Requirements: (none)				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	COS7712	RA: 10 00 17.7320 (150.0738833d) Dec: +02 17 52.67 (2.29796d) Equinox: J2000		V=25.0	Reference Frame: ICRS

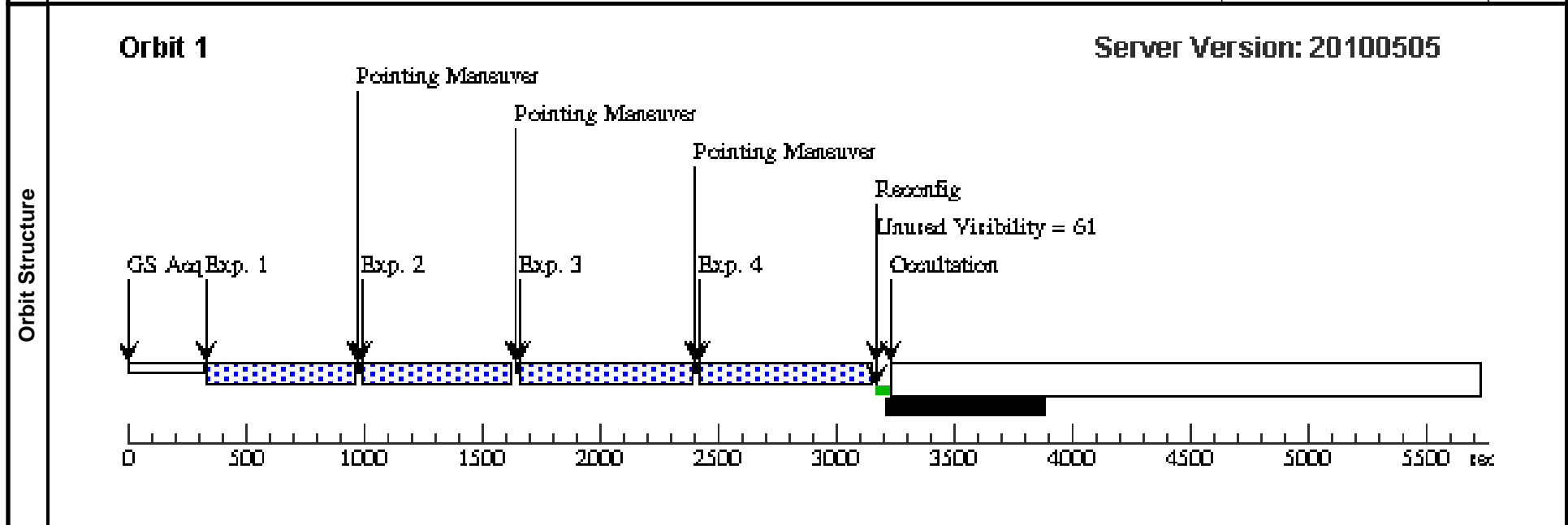
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(4) COS7712	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7	POS TARG 0.0,0.0		[==>]	[1]
	2		(4) COS7712	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7	POS TARG 0.542,0.182		[==>]	[1]
	3		(4) COS7712	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG 0.339,0.485		[==>]	[1]
	4		(4) COS7712	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG -0.203,0.303		[==>]	[1]



<b>Visit</b>	<b>Proposal 12167, Visit 02, implementation</b>				
	<b>Diagnostic Status: No Diagnostics</b>				
	Scientific Instruments: WFC3/IR				
	Special Requirements: (none)				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	COS7296	RA: 10 00 6.9550 (150.0289792d) Dec: +02 17 33.60 (2.29267d) Equinox: J2000		V=26.0	Reference Frame: ICRS

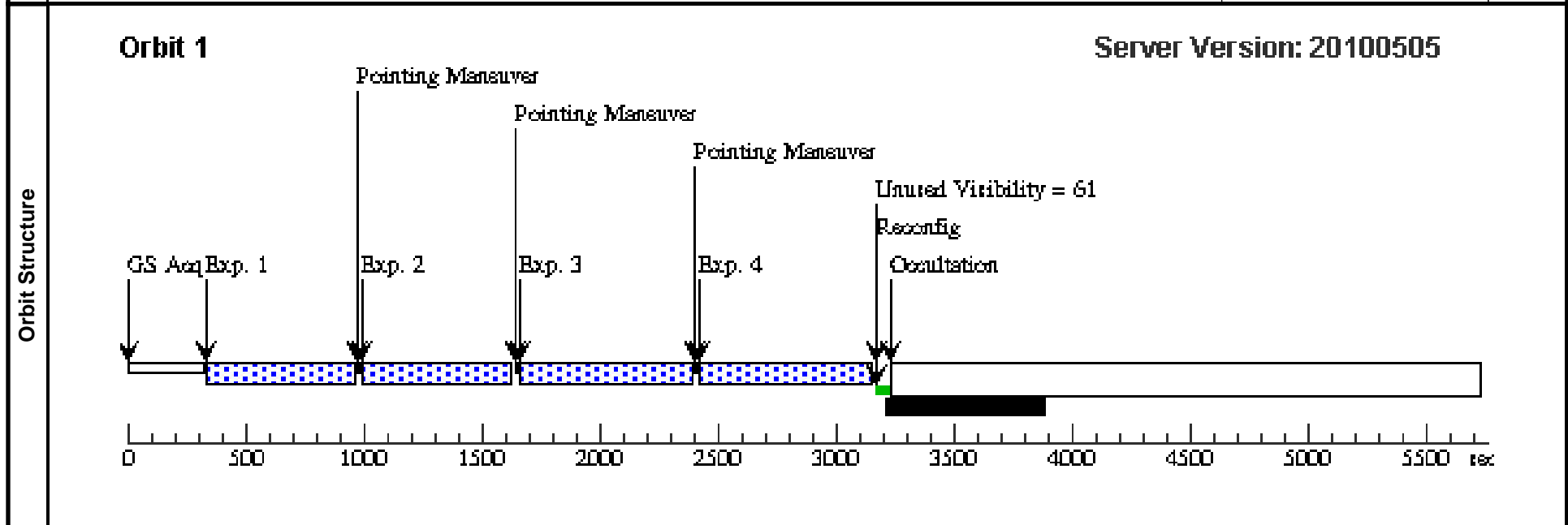
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) COS7296	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7	POS TARG 0.0,0.0		[==>]	[1]
	2		(1) COS7296	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7	POS TARG 0.542,0.182		[==>]	[1]
	3		(1) COS7296	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG 0.339,0.485		[==>]	[1]
	4		(1) COS7296	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG -0.203,0.303		[==>]	[1]



<b>Visit</b>	<b>Proposal 12167, Visit 03, implementation</b>				
	<b>Diagnostic Status: No Diagnostics</b>				
	Scientific Instruments: WFC3/IR				
	Special Requirements: (none)				

<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(3)	COS10580	RA: 09 59 31.9850 (149.8832708d) Dec: +02 20 48.27 (2.34674d) Equinox: J2000		V=26.0	Reference Frame: ICRS

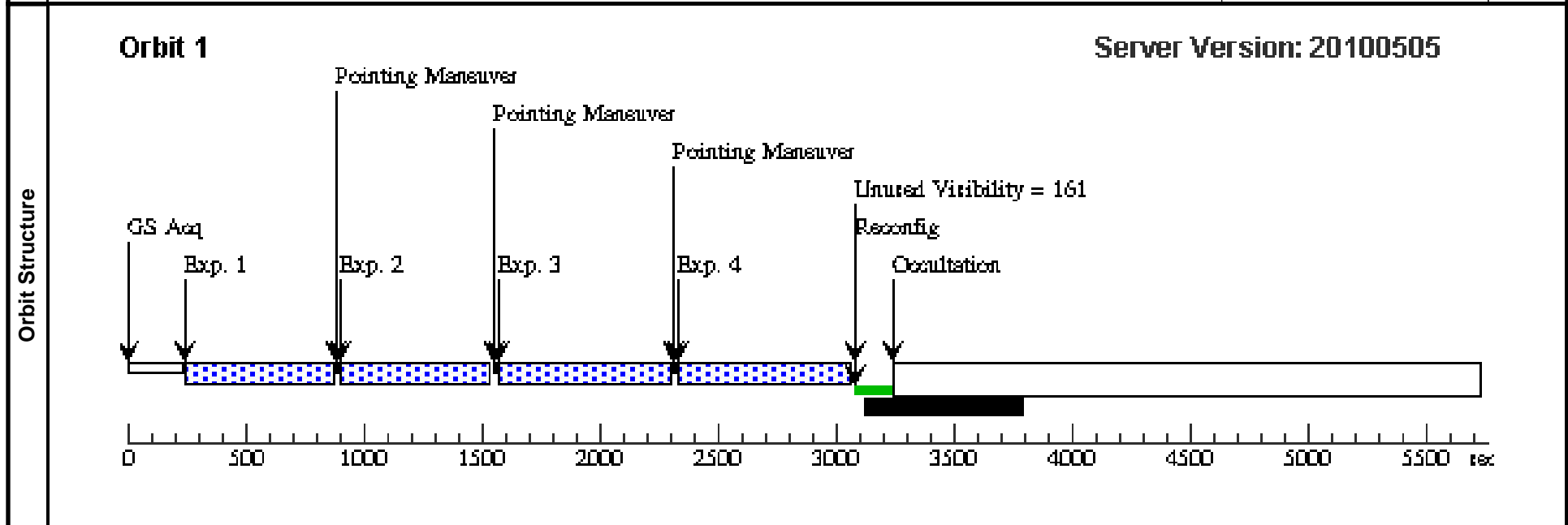
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1		(3) COS10580	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7	POS TARG 0.0,0.0		[==>]	[1]
	2		(3) COS10580	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7	POS TARG 0.542,0.182		[==>]	[1]
	3		(3) COS10580	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG 0.339,0.485		[==>]	[1]
	4		(3) COS10580	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG -0.203,0.303		[==>]	[1]



<b>Visit</b>	<b>Proposal 12167, Visit 04, implementation</b>				
	<b>Diagnostic Status: No Diagnostics</b>				
	Scientific Instruments: WFC3/IR				
	Special Requirements: (none)				

<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(5)	UDS34024	RA: 02 18 31.8410 (34.6326708d) Dec: -05 13 50.71 (-5.23075d) Equinox: J2000		V=26.0	Reference Frame: ICRS

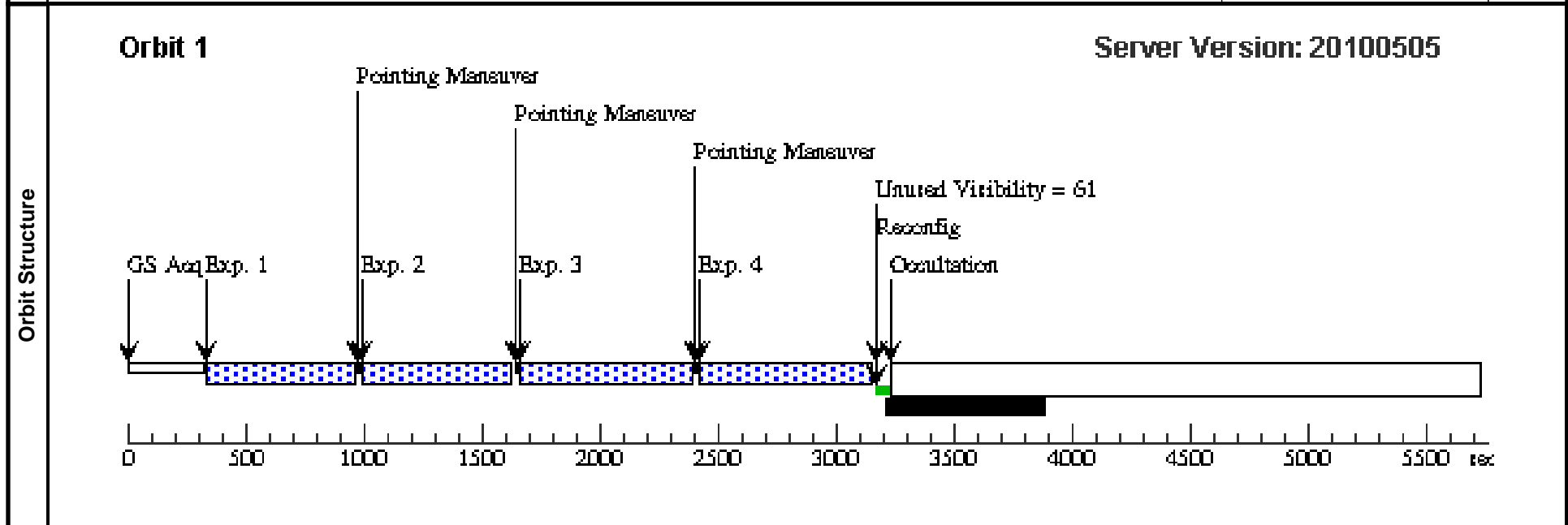
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1		(5) UDS34024	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7	POS TARG 0.0,0.0; GS ACQ SCENARI O SINGLE		[==>]	[1]
	2		(5) UDS34024	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7	POS TARG 0.542,0. 182		[==>]	[1]
	3		(5) UDS34024	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG 0.339,0. 485		[==>]	[1]
	4		(5) UDS34024	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG -0.203,0 .303		[==>]	[1]



<b>Visit</b>	<b>Proposal 12167, Visit 05, implementation</b>				
	<b>Diagnostic Status: No Diagnostics</b>				
	Scientific Instruments: WFC3/IR				
	Special Requirements: (none)				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(6)	COS939924	RA: 10 02 35.6400 (150.6485000d) Dec: +02 09 14.46 (2.15402d) Equinox: J2000		V=26.0	Reference Frame: ICRS

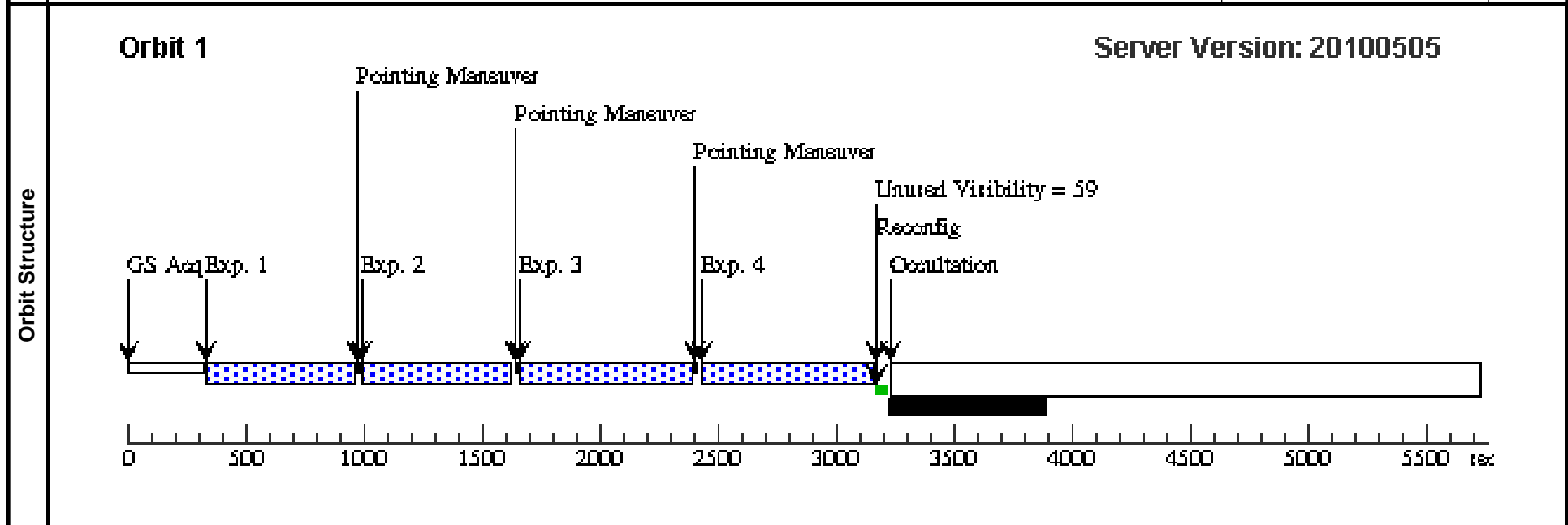
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(6) COS939924	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7	POS TARG 0.0,0.0		[==>]	[1]
	2		(6) COS939924	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7	POS TARG 0.542,0.182		[==>]	[1]
	3		(6) COS939924	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG 0.339,0.485		[==>]	[1]
	4		(6) COS939924	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG -0.203,0.303		[==>]	[1]



<b>Visit</b>	<b>Proposal 12167, Visit 06, implementation</b>				
	<b>Diagnostic Status: No Diagnostics</b>				
	Scientific Instruments: WFC3/IR				
	Special Requirements: (none)				

<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(7)	C20866-3-P1	RA: 09 59 14.7024 (149.8112600d) Dec: +02 32 56.65 (2.54907d) Equinox: J2000		V=26.0	Reference Frame: ICRS

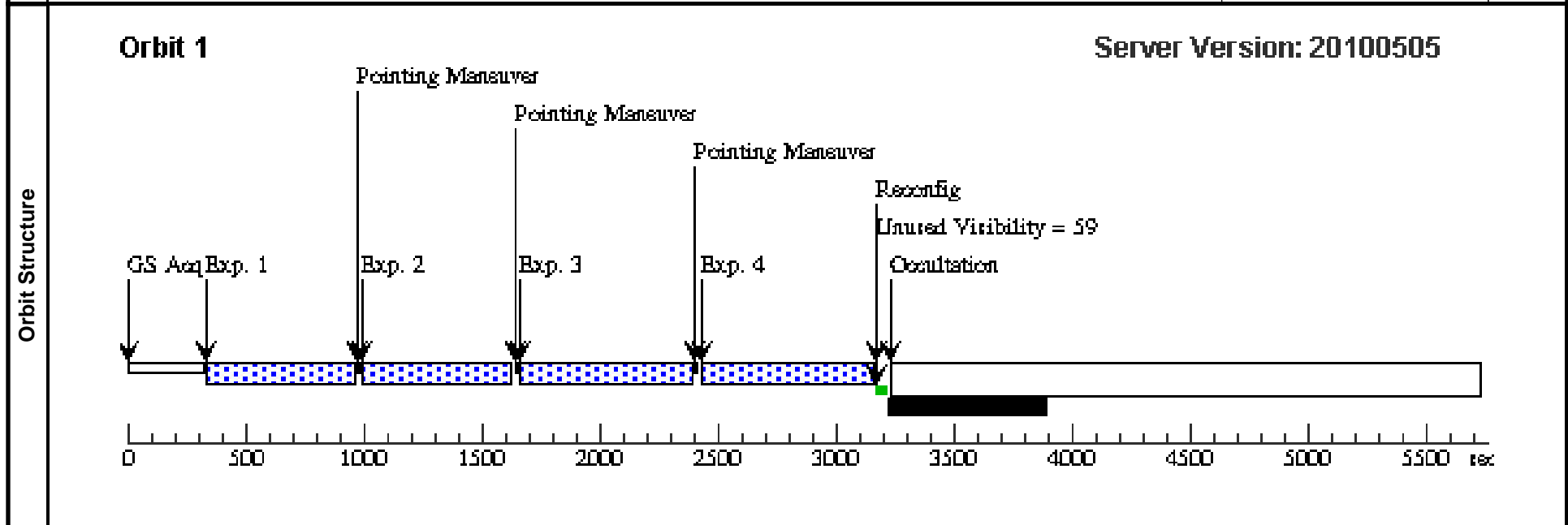
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1		(7) C20866-3-P1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7	POS TARG 0.0,0.0		[==>]	[1]
	2		(7) C20866-3-P1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7	POS TARG 1.355,0. 424		[==>]	[1]
	3		(7) C20866-3-P1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG 0.881,1. 212		[==>]	[1]
	4		(7) C20866-3-P1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG -0.474,0 .788		[==>]	[1]



<b>Visit</b>	<b>Proposal 12167, Visit 07, implementation</b>				
	<b>Diagnostic Status: No Diagnostics</b>				
	Scientific Instruments: WFC3/IR				
	Special Requirements: (none)				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(8)	C20683-2-P1	RA: 09 59 1.0632 (149.7544300d) Dec: +02 32 14.76 (2.53743d) Equinox: J2000		V=26.0	Reference Frame: ICRS

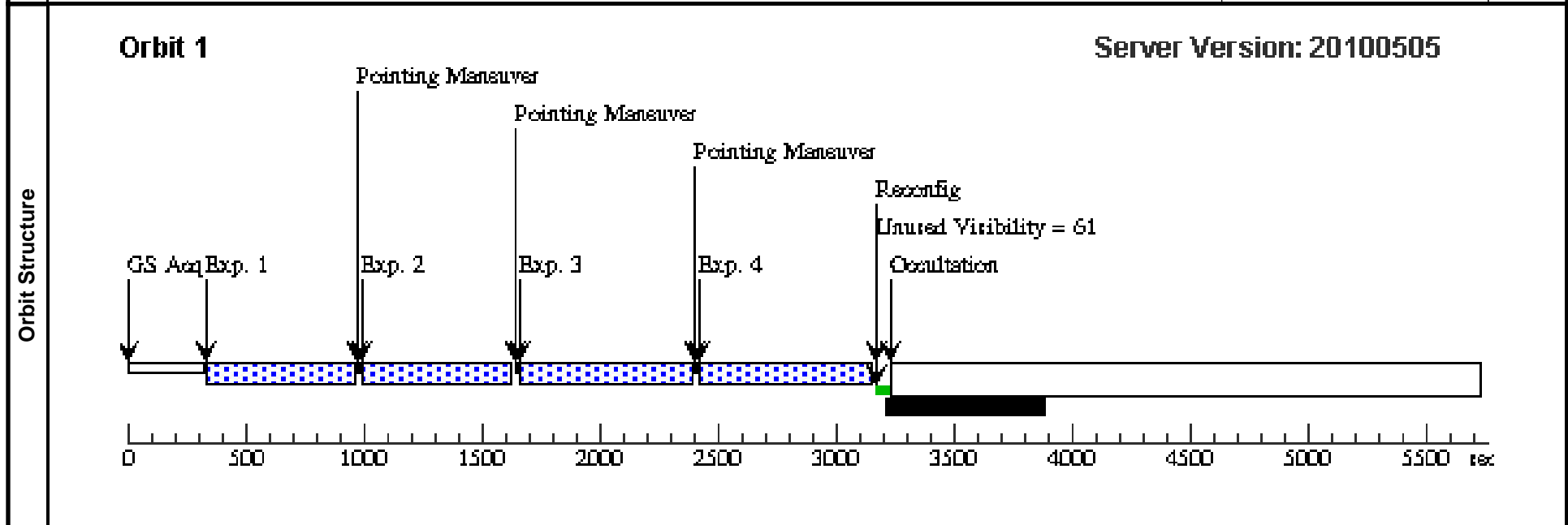
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(8) C20683-2-P1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7	POS TARG 0.0,0.0		[==>]	[1]
	2		(8) C20683-2-P1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7	POS TARG 1.355,0. 424		[==>]	[1]
	3		(8) C20683-2-P1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG 0.881,1. 212		[==>]	[1]
	4		(8) C20683-2-P1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG -0.474,0. .788		[==>]	[1]



<b>Visit</b>	<b>Proposal 12167, Visit 08, implementation</b>				
	<b>Diagnostic Status: No Diagnostics</b>				
	Scientific Instruments: WFC3/IR				
	Special Requirements: (none)				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(9)	C17637	RA: 10 00 40.8400 (150.1701667d) Dec: +02 28 52.20 (2.48117d) Equinox: J2000		V=26.0	Reference Frame: ICRS

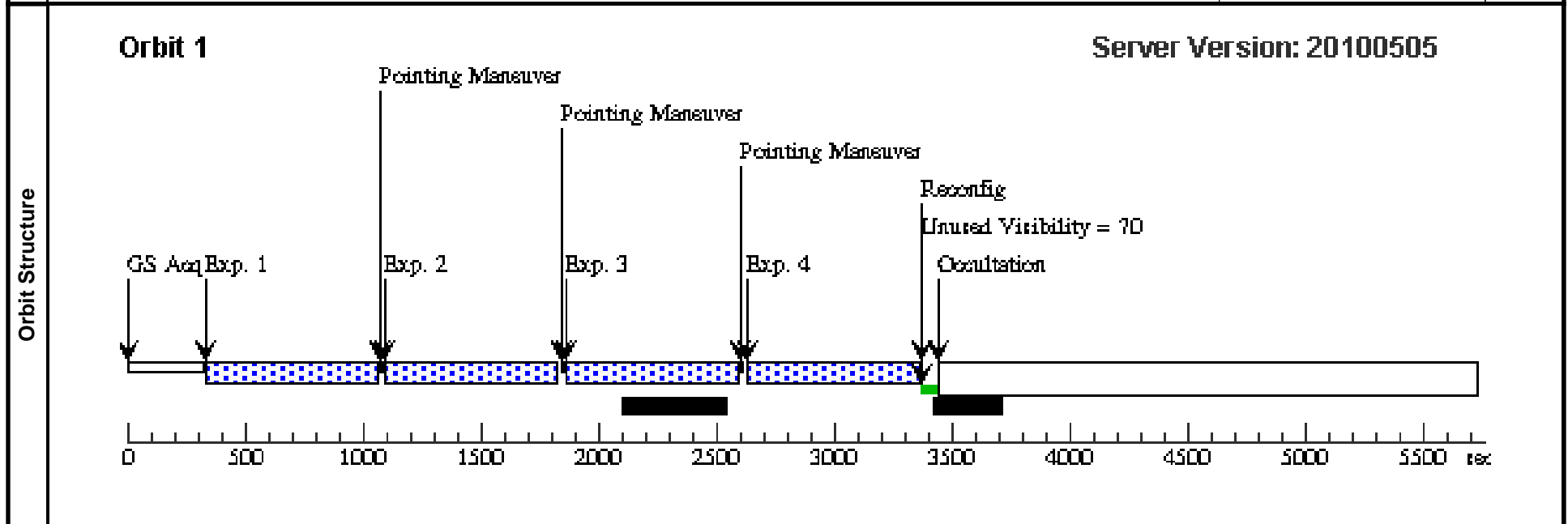
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(9) C17637	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7	POS TARG 0.0,0.0		[==>]	[1]
	2		(9) C17637	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7	POS TARG 0.542,0. 182		[==>]	[1]
	3		(9) C17637	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG 0.339,0. 485		[==>]	[1]
	4		(9) C17637	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG -0.203,0 .303		[==>]	[1]



<b>Visit</b>	<b>Proposal 12167, Visit 09, implementation</b>				
	<b>Diagnostic Status: No Diagnostics</b>				
	Scientific Instruments: WFC3/IR				
	Special Requirements: (none)				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(10)	A17010-2-P1-P2	RA: 14 16 55.4736 (214.2311400d) Dec: +52 42 34.32 (52.70953d) Equinox: J2000		V=26.0	Reference Frame: ICRS

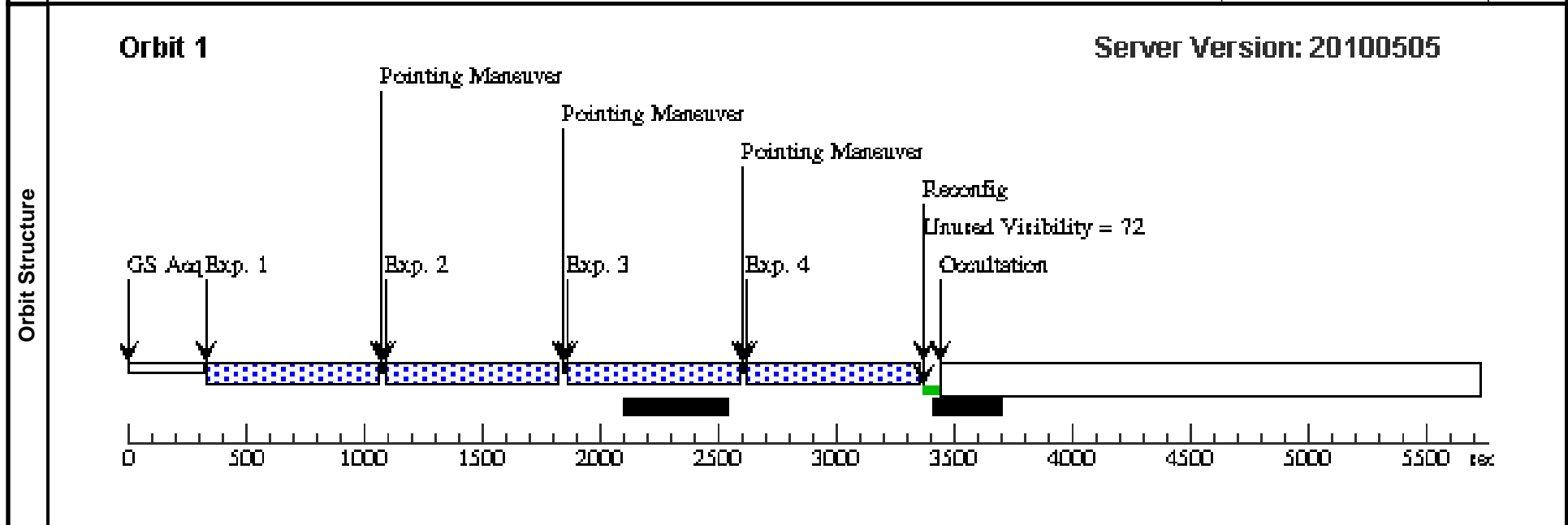
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(10) A17010-2-P1-P 2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG 0.0,0.0		[==>]	[1]
	2		(10) A17010-2-P1-P 2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG 1.355,0. 424		[==>]	[1]
	3		(10) A17010-2-P1-P 2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG 0.881,1. 212		[==>]	[1]
	4		(10) A17010-2-P1-P 2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG -0.474,0 .788		[==>]	[1]



<b>Visit</b>	<b>Proposal 12167, Visit 10, implementation</b>				
	<b>Diagnostic Status: No Diagnostics</b>				
	Scientific Instruments: WFC3/IR				
	Special Requirements: (none)				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(12)	A18507-P2	RA: 14 17 6.7248 (214.2780200d) Dec: +52 44 11.30 (52.73647d) Equinox: J2000		V=26.0	Reference Frame: ICRS

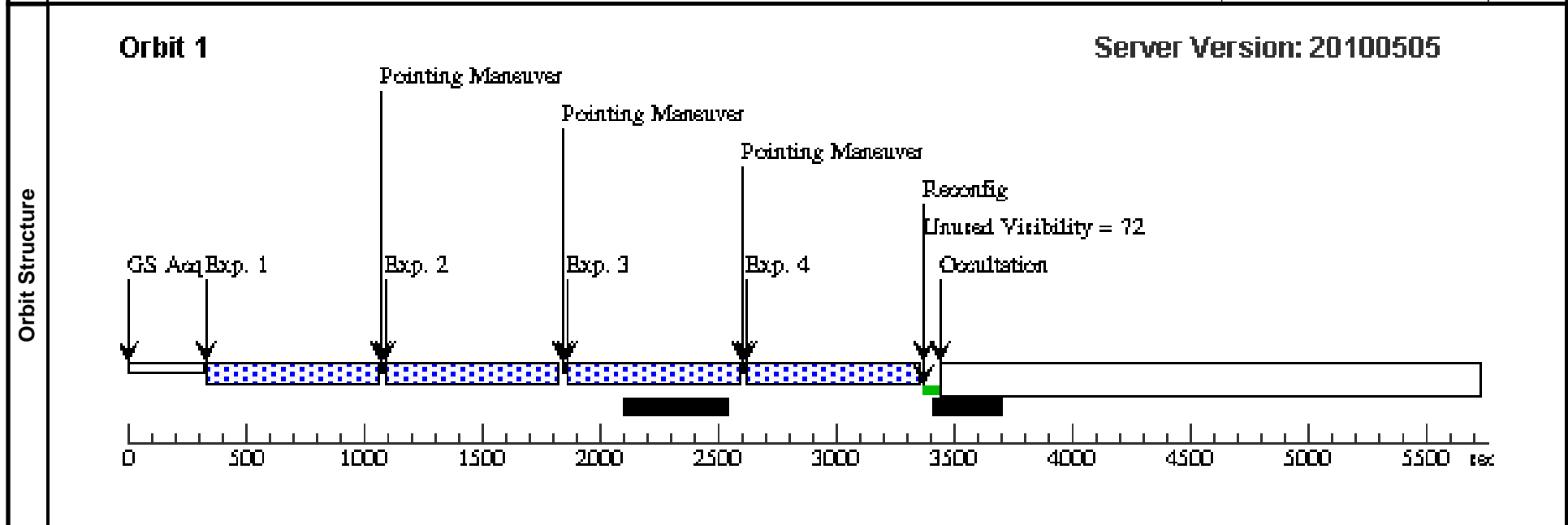
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(12) A18507-P2	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG 0.0,0.0		[==>]	[1]
	2		(12) A18507-P2	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG 0.542,0.182		[==>]	[1]
	3		(12) A18507-P2	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG 0.339,0.485		[==>]	[1]
	4		(12) A18507-P2	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG -0.203,0.303		[==>]	[1]



<b>Visit</b>	<b>Proposal 12167, Visit 11, implementation</b>				
	<b>Diagnostic Status: No Diagnostics</b>				
	Scientific Instruments: WFC3/IR				
	Special Requirements: (none)				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(13)	A21129-P1	RA: 14 16 46.3632 (214.1931800d) Dec: +52 47 9.50 (52.78597d) Equinox: J2000		V=26.0	Reference Frame: ICRS

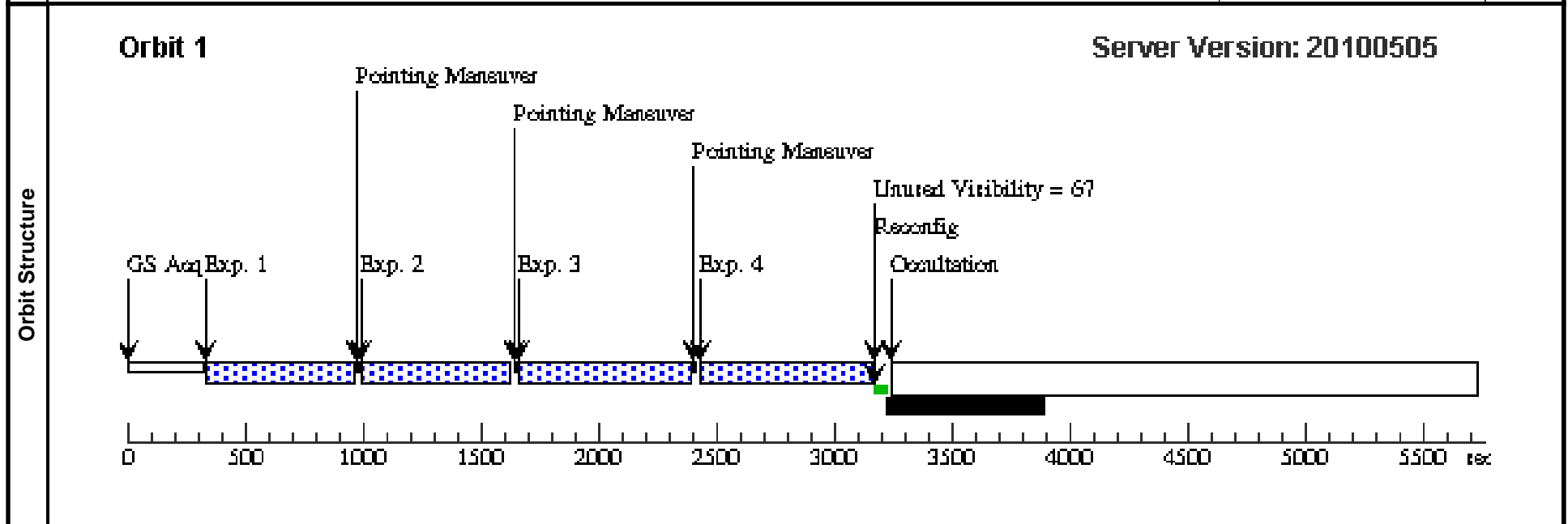
<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(13) A21129-P1	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG 0.0,0.0		[==>]	[1]
	2		(13) A21129-P1	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG 0.542,0. 182		[==>]	[1]
	3		(13) A21129-P1	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG 0.339,0. 485		[==>]	[1]
	4		(13) A21129-P1	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG -0.203,0 .303		[==>]	[1]



<b>Visit</b>	<b>Proposal 12167, Visit 12, implementation</b>				
	<b>Diagnostic Status: No Diagnostics</b>				
	Scientific Instruments: WFC3/IR				
	Special Requirements: (none)				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(14)	U53937-3-P1	RA: 02 18 19.7426 (34.5822608d) Dec: -05 03 7.89 (-5.05219d) Equinox: J2000		V=26.0	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(14) U53937-3-P1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7	POS TARG 0.0,0.0; GS ACQ SCENARI O BASE1B3		[==>]	[1]
	2		(14) U53937-3-P1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=7	POS TARG 1.355,0. 424		[==>]	[1]
	3		(14) U53937-3-P1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG 0.881,1. 212		[==>]	[1]
	4		(14) U53937-3-P1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG -0.474,0 .788		[==>]	[1]



<b>Visit</b>	<b>Proposal 12167, Visit 13, implementation</b>				
	<b>Diagnostic Status: No Diagnostics</b>				
	Scientific Instruments: WFC3/IR				
	Special Requirements: (none)				

<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(16)	U46881-P1	RA: 02 18 18.7219 (34.5780079d) Dec: -05 07 14.26 (-5.12063d) Equinox: J2000		V=26.0	Reference Frame: ICRS

<b>Exposures</b>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(16) U46881-P1	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7	POS TARG 0.0,0.0; GS ACQ SCENARI O BASE1B3		[==>]	[1]
	2		(16) U46881-P1	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=7	POS TARG 0.542,0. 182		[==>]	[1]
	3		(16) U46881-P1	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG 0.339,0. 485		[==>]	[1]
	4		(16) U46881-P1	WFC3/IR, MULTIACCUM, IR	F160W	SAMP-SEQ=SPARS 100; NSAMP=8	POS TARG -0.203,0 .303		[==>]	[1]

