



## 10591 - ACS Observations of the Galaxies in A Giant Ly-alpha Nebula at z~2.7

Cycle: 14, Proposal Category: GO

(Availability Mode: SUPPORTED)

### INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
<b>Dr. Arjun Dey (PI)</b>	<b>National Optical Astronomy Observatories, AURA</b>	<b>dey@noao.edu</b>
Mr. Chao Bian (CoI)	California Institute of Technology	chb@astro.caltech.edu
Dr. Katherine Brand (CoI) (Contact)	National Optical Astronomy Observatories, AURA	kbrand@noao.edu
Dr. Mark Brodwin (CoI)	Jet Propulsion Laboratory	Mark.Brodwin@jpl.nasa.gov
Dr. Michael J. I. Brown (CoI)	Princeton University	mbrown@astro.princeton.edu
Dr. Frederic Chaffee (CoI)	California Association for Research in Astronomy (C ARA)	fchaffee@keck.hawaii.edu
Dr. Vandana Desai (CoI)	California Institute of Technology	vandesai@gmail.com
Dr. Peter Eisenhardt (CoI)	Jet Propulsion Laboratory	prme@kromos.jpl.nasa.gov
Dr. Emeric Le Floc'h (CoI)	University of Arizona	elefloch@as.arizona.edu
Dr. Grant Hill (CoI)	California Association for Research in Astronomy (C ARA)	ghill@keck.hawaii.edu
Dr. James Houck (CoI)	Cornell University	jrhl3@cornell.edu
Dr. Buell T. Jannuzi (CoI)	National Optical Astronomy Observatories, AURA	bjannuzi@noao.edu
Dr. Marcia J. Rieke (CoI)	University of Arizona	mrieke@as.arizona.edu
Dr. Baruch T. Soifer (CoI)	California Institute of Technology	bts@irastro.caltech.edu
Dr. Daniel W. Weedman (CoI)	The Pennsylvania State University	weedman@astro.psu.edu

### VISITS

## Proposal 10591 - Overview

<i>Visit</i>	<i>Targets</i>	<i>Configurations</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) OBJ-1434110+331733	ACS/WFC	3	23-Nov-2005 21:25:29.0	yes
02	(1) OBJ-1434110+331733	ACS/WFC	5	23-Nov-2005 21:25:38.0	yes
03	(1) OBJ-1434110+331733	ACS/WFC	3	23-Nov-2005 21:25:45.0	yes
04	(1) OBJ-1434110+331733	NIC2	3	23-Nov-2005 21:25:51.0	yes
05	(1) OBJ-1434110+331733	NIC2	3	23-Nov-2005 21:25:54.0	yes
06	(1) OBJ-1434110+331733	NIC2	3	23-Nov-2005 21:25:57.0	yes
07	(1) OBJ-1434110+331733	NIC2	3	23-Nov-2005 21:25:59.0	yes

23 Total Orbits Used

### **ABSTRACT**

Giant Ly-alpha nebulae appear to be sites of ongoing massive galaxy formation, as evidenced by their association with very luminous, young, star-forming galaxies and large galaxy overdensities. However the origin of the extended gas and the source of ionization remain mysterious. We have discovered a ~200 kpc size nebula which appears to contain a number of embedded sources, including a very obscured, luminous mid-infrared source and a Lyman break galaxy. We propose to obtain deep ACS and NICMOS images of this nebula in order to:

- (i) determine the spatial morphology of the Ly-alpha emission on sub-kpc scales;
- (ii) precisely locate the known continuum sources within the nebula;
- (ii) determine their morphologies;
- (iii) detect the source of ionizing photons at the very center of the nebula;
- (iv) constrain the ionizing luminosity contributed by a possible distributed population of faint, compact continuum sources in the nebula; and
- (v) by SED fitting of population synthesis models, constrain the ages of the ionizing sources with the aim of determining the timescale of the galaxy formation process in the nebula.

## **OBSERVING DESCRIPTION**

We will be observing a large Ly $\alpha$  nebula with HST for 23 orbits. Our observations are split into 11 orbits with ACS WFC (3 orbits for a broad-band observation through the F606W filter, 5 orbits through the narrow-band FR462N ramp filter centered at 4448Å and 3 orbits through the narrow-band FR601N ramp filter centered at 5998Å) and 12 orbits with NICMOS NIC2 (6 orbits each through the broad-band F110W and F160W filters). The primary goals of the ACS observations are to (i) precisely locate the bright continuum sources in the nebula relative to the peaks in the line emission, (ii) determine the number and distribution of the fainter ionizing sources, through a comparison of Ly-alpha, HeII and deep continuum imaging, and (iii) to measure the morphologies of the brighter objects in the field that are associated with the nebula. The primary goal of the NICMOS observations is to constrain the SED of the continuum sources detected in the ACS observations and provide confirmation that these faint sources truly are associated with the nebula.

The details of the observing for each instrument and filter are below:

### 1. ACS/WFC Imaging F606W - 3 orbits

We will take 6 exposures - 2 exposures per orbit (approximately 1300s per exposure). We will use the default ACS-WFC dither box for the first 4 exposures centered on aperture WFC1, and use similar offsets (in different directions) for the remaining 2 exposures. We have no orientation restrictions for these exposures.

### 2. ACS-WFC Ramp filter FR462N (center @ 4448Å) - 5 orbits

We will take 10 exposures - 2 exposures per orbit (approximately 1300s per exposure). We will use the compact ACS-WFC dither box for the first 4 exposures and then perform another 4 exposures with the same dither pattern but with the pattern centered. The remaining 2 exposures are with similar positional offsets but in different directions. We require the orientation to be between 270 and 360 degrees.

## Proposal 10591 - Overview

### 3. ACS/WFC Ramp filter F601N (center at 5998A) - 3 orbits

We will take 6 exposures (2 exposures per orbit). We will use the compact ACS-WFC dither box for the first 4 exposures and then offset by a similar amount in different directions for the remaining 2 exposures. We require the orientation to be between 270 and 360 degrees.

### 4. NIC2 Imaging F110W - 6 orbits

We will obtain 6 exposures (1 exposure per orbit). We will use the NIC-spiral dither pattern with 0.6375 point spacing beginning at nic2-fix. We will run the instrument in MULTIACCUM mode with SPARS256 and Nsamp=13. We will restrict the orientation to 230-130 to ensure no part of our extended source falls on the coronagraphic hole.

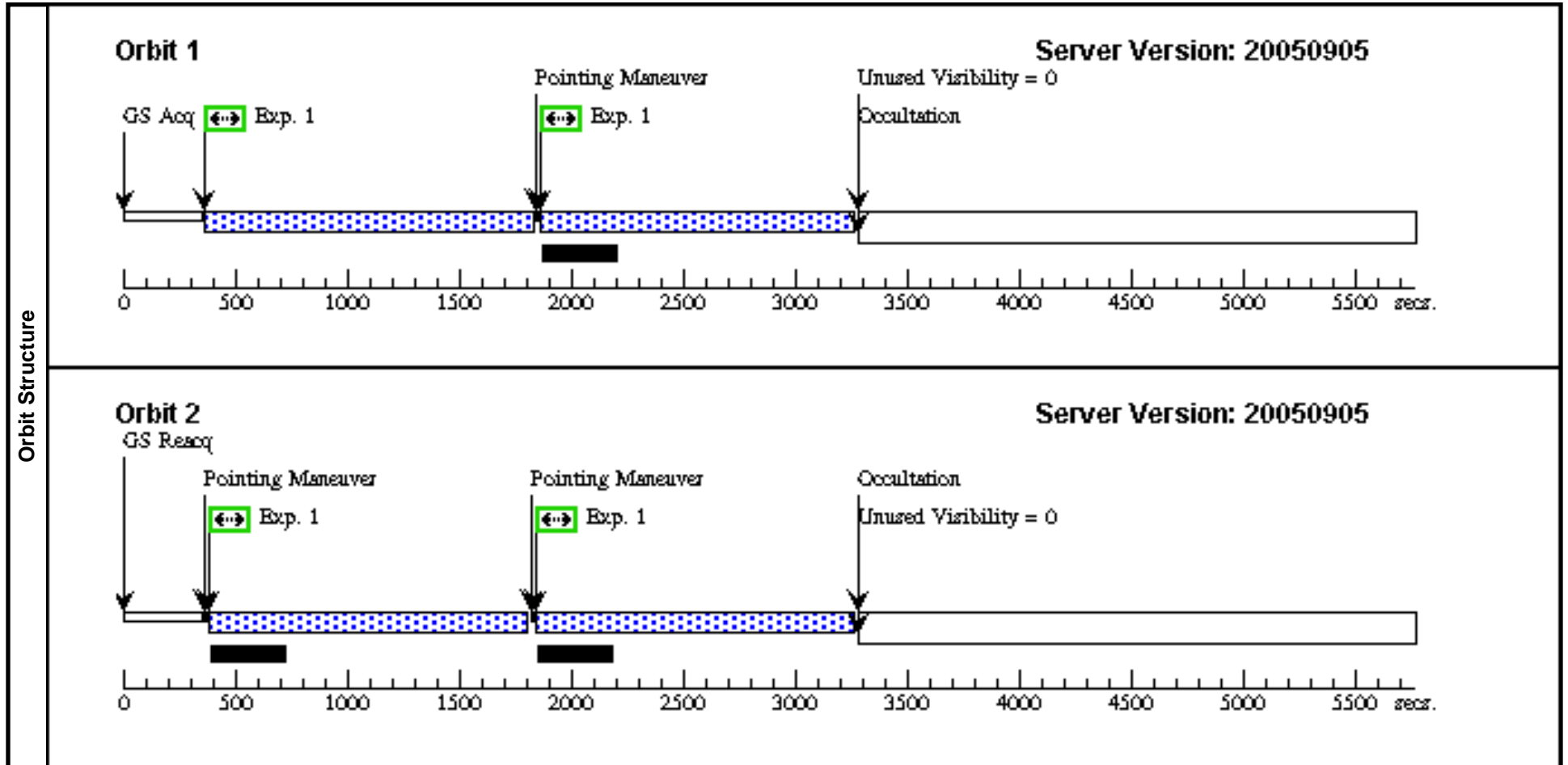
### 5. NIC2 Imaging F160W - 6 orbits

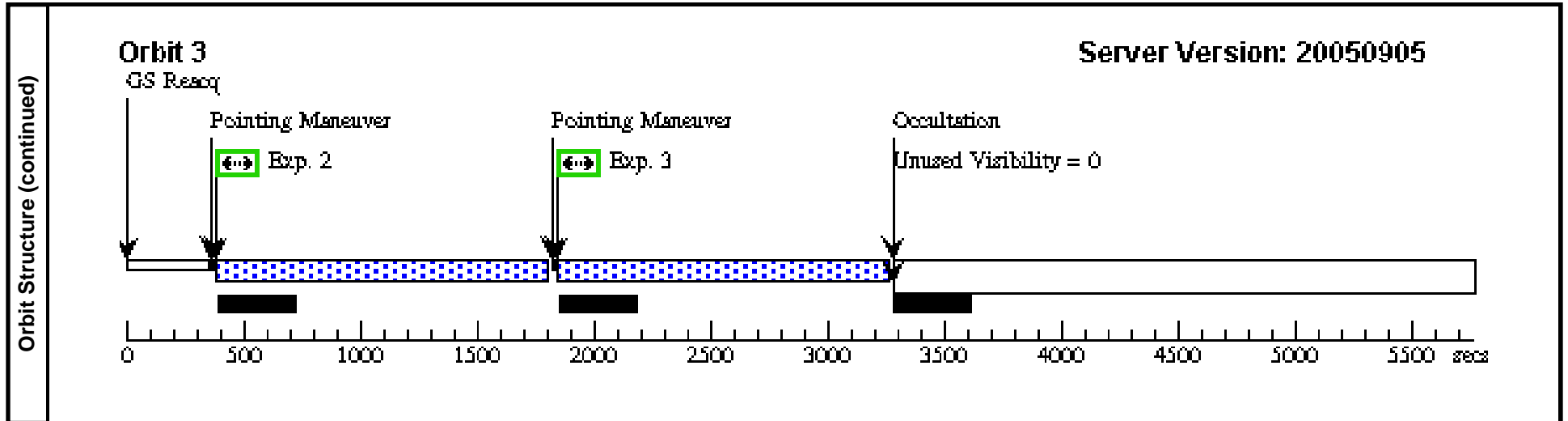
We will obtain 6 exposures (1 exposure per orbit). We will use the NIC-spiral dither pattern with 0.6375 point spacing beginning at nic2-fix. We will run the instrument in MULTIACCUM mode with SPARS256 and NSAMP=13. We will restrict the orientation to 230-130 degrees to ensure no part of our extended source falls on the coronagraphic hole.

Proposal 10591 - Visit 01 - ACS Observations of the Galaxies in A Giant Ly-alpha Nebula at z~2.7

Thu Nov 24 02:26:01 GMT 2005

Visit	<b>Proposal 10591, Visit 01</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: (none)									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(4)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.265 Line Spacing=0.187	Coordinate Frame=POS-TARG Pattern Orientation=20.7 Angle Between Sides=69.1 Center Pattern=false					(1)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	OBJ-1434110+331733	RA: 14 34 10.9770 (218.5457375d) Dec: +33 17 30.87 (33.29191d) Equinox: J2000 Plate Id: (?)	Redshift: 2.656	V=27.0 F-LINE(5998)=4.07+/-0.04E-17, F-LINE(4448)=2E-15	Coordinate Source: NOAO Deep Wide-Field Survey				
	<i>Comments: We have carried out a comparison between the NDWFS coordinates and GSC2.2 coordinates for 98 stars in the field of the Lya nebula. We found the median offsets between the two frames to be (deltaRA, deltaDEC) = (0.022,-0.063) arcsec (in the sense that the NDWFS astrometric system is east and south of the GSC2.2 astrometric system. This difference is so small that we chose not to apply any correction to the NDWFS astrometry.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	ACS/WFC-F606W	(1) OBJ-1434110+331733	ACS/WFC, ACCUM, WFC1	F606W	CR-SPLIT=NO		Pattern 1-1 (4)	1000.0 Secs	
									[==>1262.0 Secs (Pattern 1)]	[1]
									[==>1280.0 Secs (Pattern 2)]	[2]
									[==>1302.0 Secs (Pattern 3)]	[3]
								[==>1302.0 Secs (Pattern 4)]	[3]	
2	ACS/WFC-F606W	(1) OBJ-1434110+331733	ACS/WFC, ACCUM, WFC1	F606W	CR-SPLIT=NO	POS TARG -0.124,-0.14			1200.0 Secs	
								[==>1302.0 Secs ]	[3]	
3	ACS/WFC-F606W	(1) OBJ-1434110+331733	ACS/WFC, ACCUM, WFC1	F606W	CR-SPLIT=NO	POS TARG -0.248,0.094			1200.0 Secs	
								[==>1302.0 Secs ]	[3]	





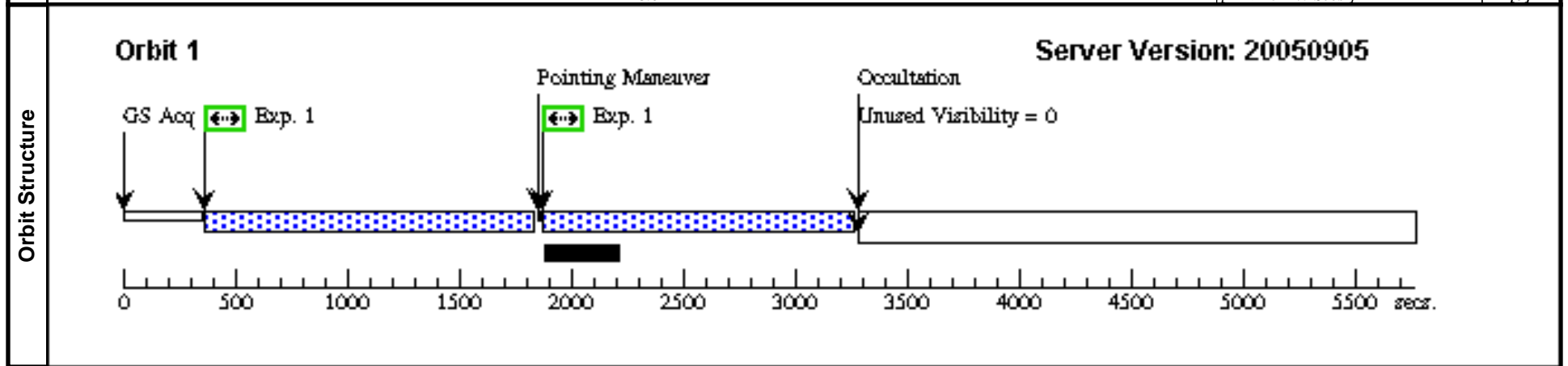
Proposal 10591 - Visit 02 - ACS Observations of the Galaxies in A Giant Ly-alpha Nebula at z~2.7

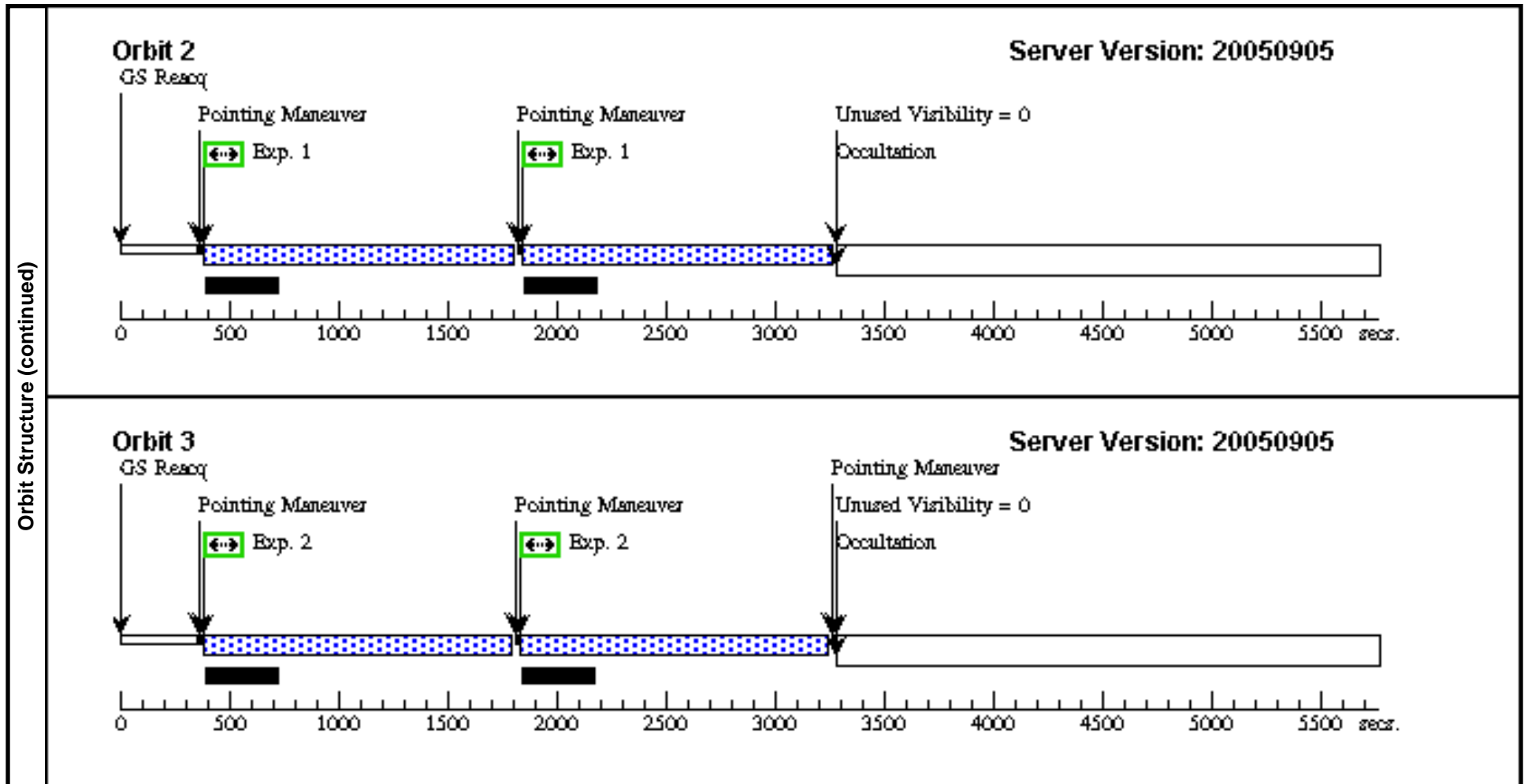
Thu Nov 24 02:26:02 GMT 2005

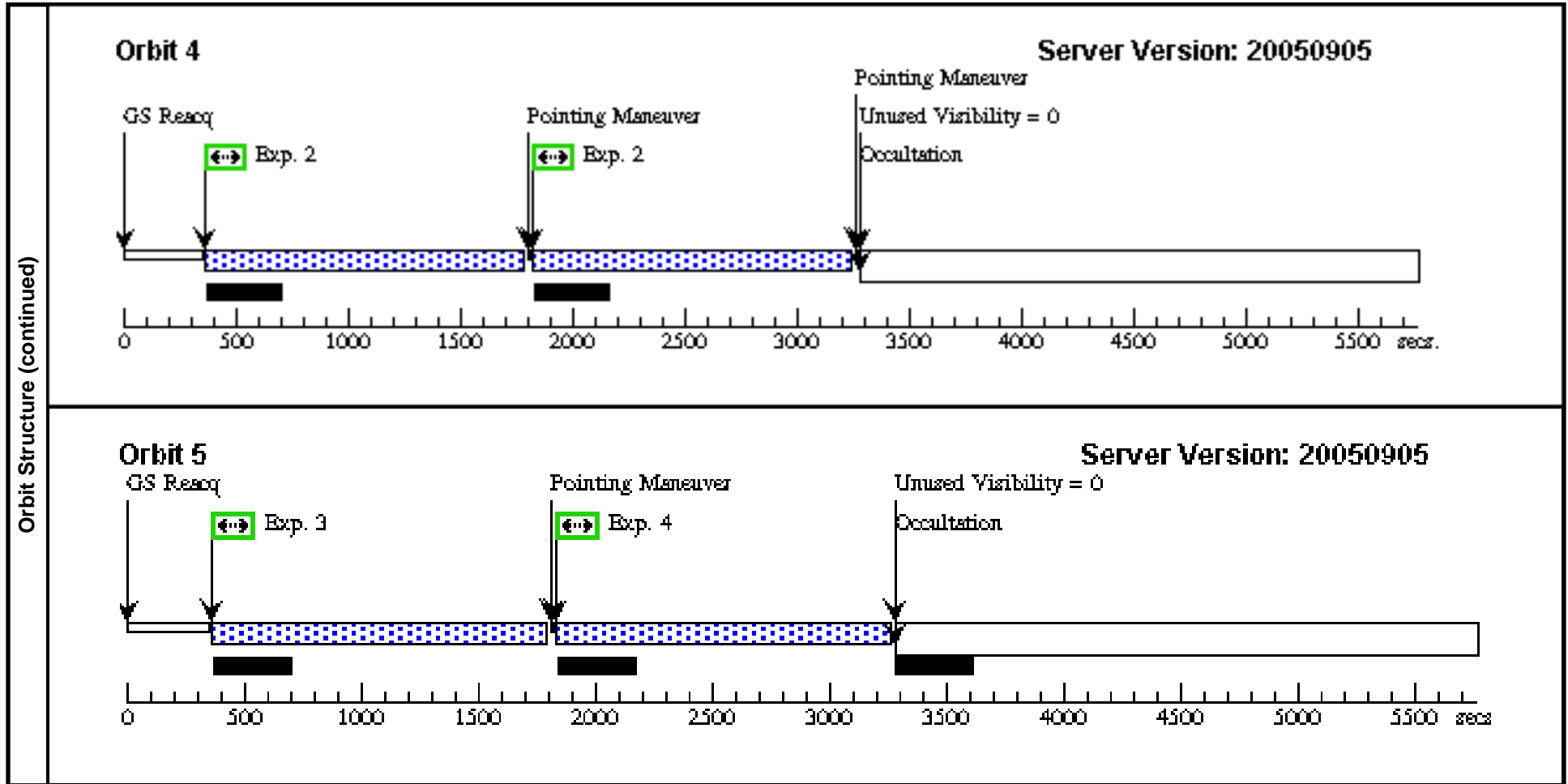
Visit	<b>Proposal 10591, Visit 02</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: ACS/WFC Special Requirements: ORIENT 270.0D TO 360.0 D									
	Diagnostics	(ACS/WFC-FR462N (02.001)) Warning: POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (ACS/WFC-FR462N (02.002)) Warning: POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (ACS/WFC-FR462N (02.003)) Warning: POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (ACS/WFC-FR462N (02.004)) Warning: POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.								
Patterns		#	Primary Pattern				Secondary Pattern			
	(2)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.104 Line Spacing=0.053	Coordinate Frame=POS-TARG Pattern Orientation=18.8 Angle Between Sides=80.8 Center Pattern=false							(1)
(3)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.104 Line Spacing=0.053	Coordinate Frame=POS-TARG Pattern Orientation=18.8 Angle Between Sides=80.8 Center Pattern=true								(2)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	OBJ-1434110+331733	RA: 14 34 10.9770 (218.5457375d) Dec: +33 17 30.87 (33.29191d) Equinox: J2000 Plate Id: (?)	Redshift: 2.656	V=27.0 F-LINE(5998)=4.07+/-0.04E-17, F-LINE(4448)=2E-15	Coordinate Source: NOAO Deep Wide-Field Survey				
<i>Comments: We have carried out a comparison between the NDWFS coordinates and GSC2.2 coordinates for 98 stars in the field of the Lya nebula. We found the median offsets between the two frames to be (deltaRA, deltaDEC) = (0.022,-0.063) arcsec (in the sense that the NDWFS astrometric system is east and south of the GSC2.2 astrometric system. This difference is so small that we chose not to apply any correction to the NDWFS astrometry.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	ACS/WFC-FR462N	(1) OBJ-1434110+331733	ACS/WFC, ACCUM, WFC	FR462N 4448.0 A	CR-SPLIT=NO		Pattern 1-1 (2)	1400.0 Secs [==>1271.0 Secs (Pattern 1)] [==>1271.0 Secs (Pattern 2)] [==>1302.0 Secs (Pattern 3)] [==>1302.0 Secs (Pattern 4)]	[1] [2]

Proposal 10591 - Visit 02 - ACS Observations of the Galaxies in A Giant Ly-alpha Nebula at z~2.7

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
2	ACS/WFC-FR462N	(1) OBJ-1434110+33 1733	ACS/WFC, ACCUM, WFC	FR462N 4448.0 A	CR-SPLIT=NO	POS TARG 0.023,0	Pattern 2-2 (3)	1400.0 Secs	
								[==>1292.0 Secs (Pattern 1)]	[3]
								[==>1292.0 Secs (Pattern 2)]	
								[==>1302.0 Secs (Pattern 3)]	[4]
3	ACS/WFC-FR462N	(1) OBJ-1434110+33 1733	ACS/WFC, ACCUM, WFC	FR462N 4448.0 A	CR-SPLIT=NO	POS TARG -0.099,0 .033	1300.0 Secs		
							[==>1312.0 Secs ]	[5]	
4	ACS/WFC-FR462N	(1) OBJ-1434110+33 1733	ACS/WFC, ACCUM, WFC	FR462N 4448.0 A	CR-SPLIT=NO	POS TARG -0.099,0 .08	1300.0 Secs		
							[==>1312.0 Secs ]	[5]	



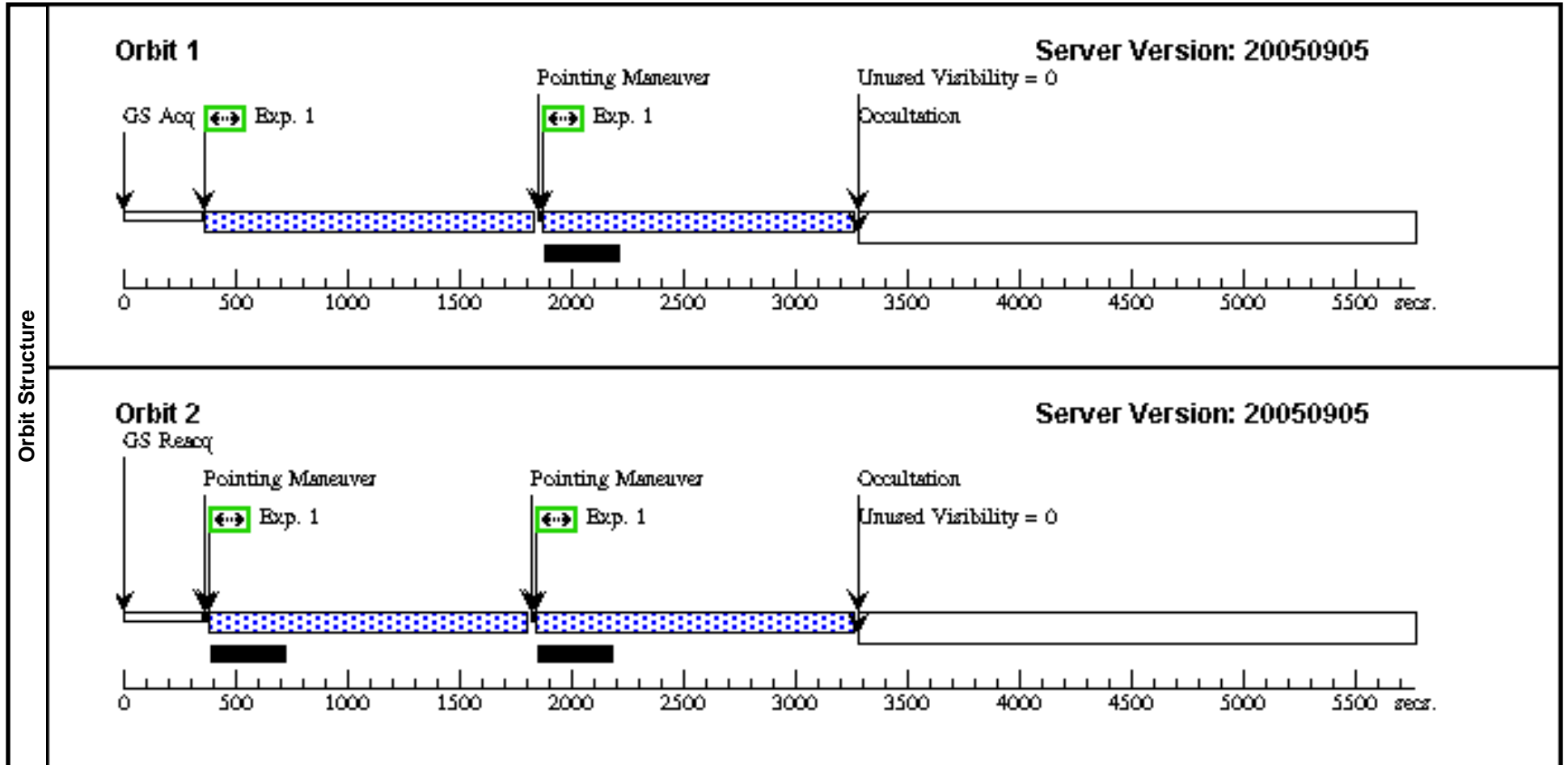


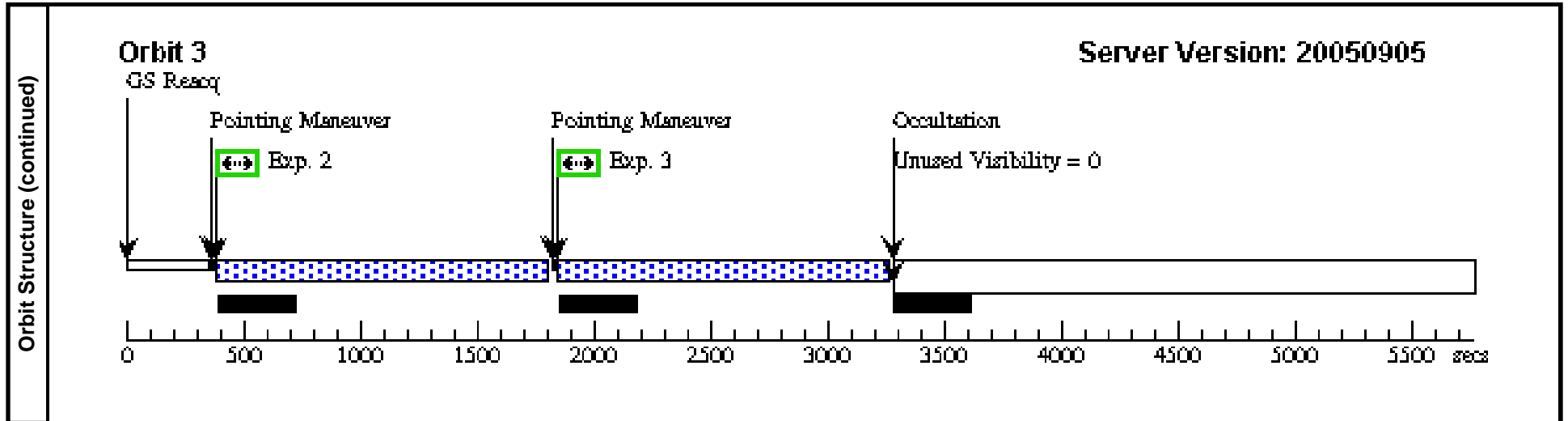


Proposal 10591 - Visit 03 - ACS Observations of the Galaxies in A Giant Ly-alpha Nebula at z~2.7

Thu Nov 24 02:26:04 GMT 2005

<b>Visit</b>	<b>Proposal 10591, Visit 03</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: ACS/WFC Special Requirements: SAME ORIENT AS 02									
	<b>Diagnosics</b> (ACS/WFC-FR601N (03.001)) Warning: POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (ACS/WFC-FR601N (03.002)) Warning: POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures. (ACS/WFC-FR601N (03.003)) Warning: POS TARG & PATTERN should be used carefully with ACS/WFPC2 ramp or WFC3 quad filters as central wavelengths & transmission efficiencies vary within the apertures.									
<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>		<b>Secondary Pattern</b>		<b>Exposures</b>				
	(2)	Pattern Type=ACS-WFC-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.104 Line Spacing=0.053	Coordinate Frame=POS-TARG Pattern Orientation=18.8 Angle Between Sides=80.8 Center Pattern=false			(1)				
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(1)	OBJ-1434110+331733	RA: 14 34 10.9770 (218.5457375d) Dec: +33 17 30.87 (33.29191d) Equinox: J2000 Plate Id: (?)	Redshift: 2.656	V=27.0 F-LINE(5998)=4.07+/-0.04E-17, F-LINE(4448)=2E-15	Coordinate Source: NOAO Deep Wide-Field Survey				
<i>Comments: We have carried out a comparison between the NDWFS coordinates and GSC2.2 coordinates for 98 stars in the field of the Lya nebula. We found the median offsets between the two frames to be (deltaRA, deltaDEC) = (0.022,-0.063) arcsec (in the sense that the NDWFS astrometric system is east and south of the GSC2.2 astrometric system. This difference is so small that we chose not to apply any correction to the NDWFS astrometry.</i>										
<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	ACS/WFC-FR601N	(1) OBJ-1434110+331733	ACS/WFC, ACCUM, WFC	FR601N 5998.0 A	CR-SPLIT=NO		Pattern 1-1 (2)	1300.0 Secs	
									[==>1271.0 Secs (Pattern 1)]	[1]
									[==>1271.0 Secs (Pattern 2)]	
									[==>1302.0 Secs (Pattern 3)]	[2]
								[==>1302.0 Secs (Pattern 4)]		
2	ACS/WFC-FR601N	(1) OBJ-1434110+331733	ACS/WFC, ACCUM, WFC	FR601N 5998.0 A	CR-SPLIT=NO	POS TARG -0.099,0.033			1300.0 Secs	
									[==>1302.0 Secs ]	[3]
3	ACS/WFC-FR601N	(1) OBJ-1434110+331733	ACS/WFC, ACCUM, WFC	FR601N 5998.0 A	CR-SPLIT=NO	POS TARG -0.099,-0.08			1300.0 Secs	
									[==>1302.0 Secs ]	[3]

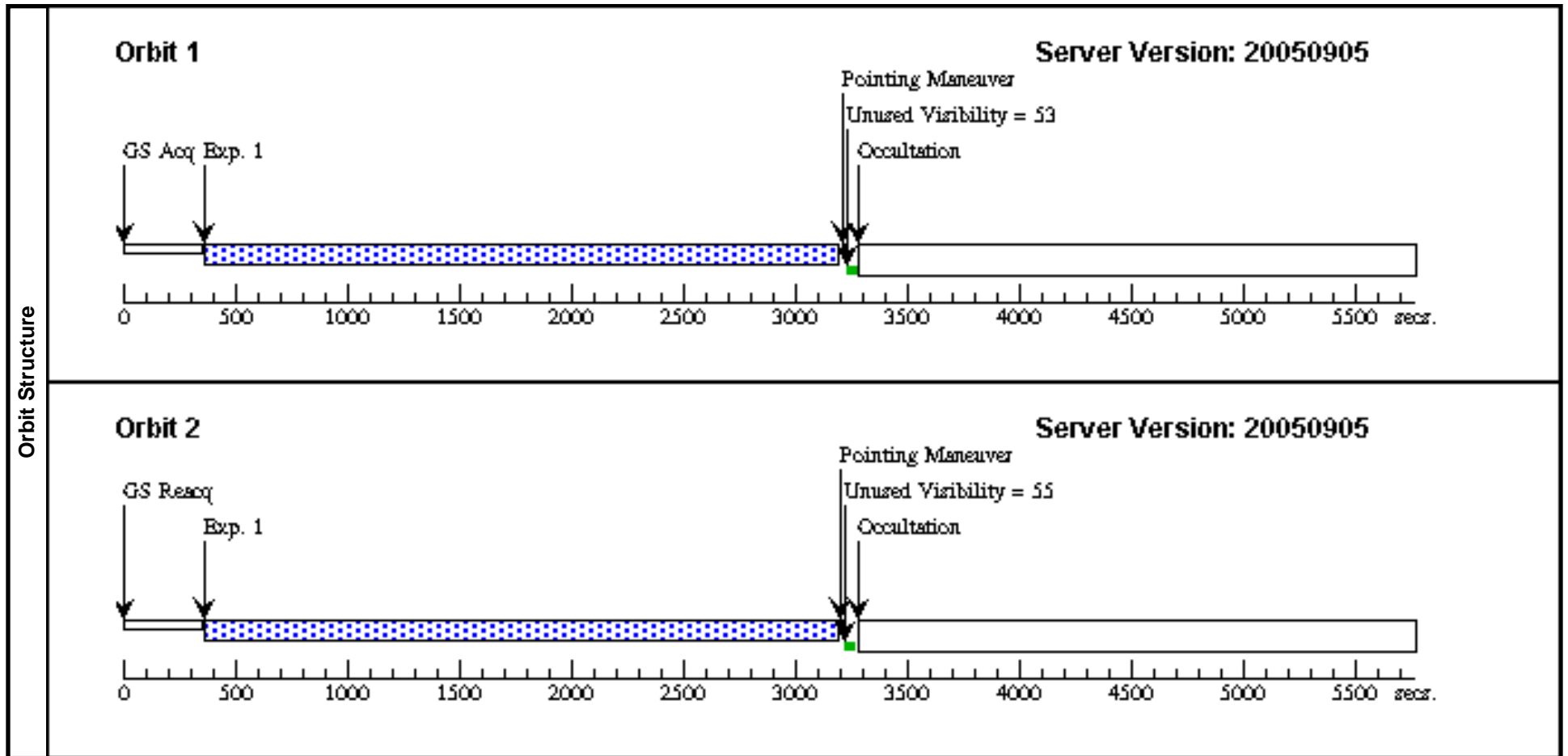


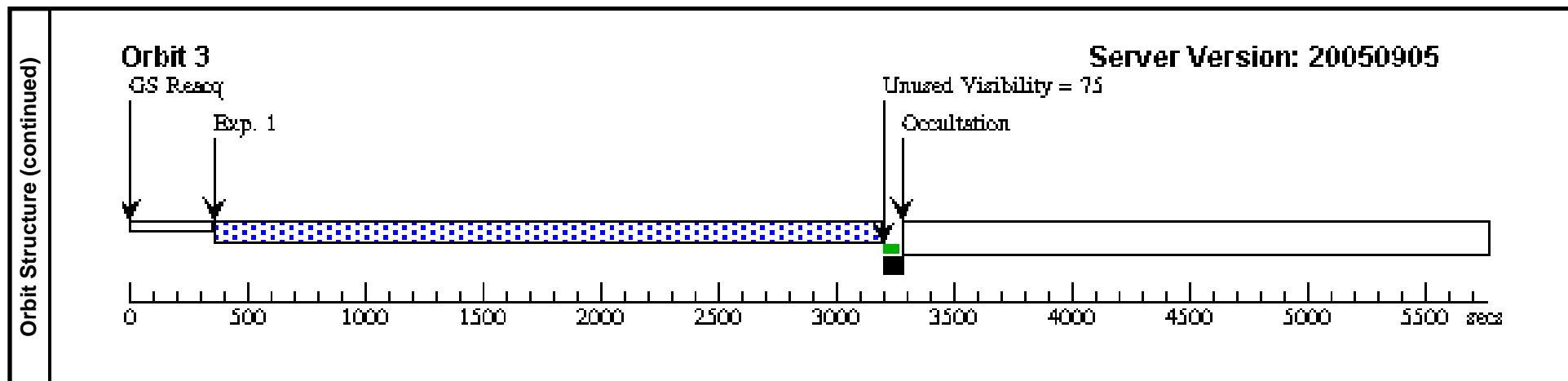


Proposal 10591 - Visit 04 - ACS Observations of the Galaxies in A Giant Ly-alpha Nebula at z~2.7

Thu Nov 24 02:26:04 GMT 2005

<b>Visit</b>	<b>Proposal 10591, Visit 04</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: NIC2 Special Requirements: ORIENT 230.0D TO 130.0 D									
	<b>Diagnostics</b>	(Visit 04) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 04) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 04) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE								
<b>Patterns</b>		<b>#</b>	<b>Primary Pattern</b>			<b>Secondary Pattern</b>			<b>Exposures</b>	
	(1)	Pattern Type=NIC-SPIRAL-DITH      Coordinate Frame=POS-TARG Purpose=DITHER                      Pattern Orientation=0 Number Of Points=3                  Angle Between Sides= Point Spacing=0.637                  Center Pattern=false Line Spacing=						(1)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(1)	OBJ-1434110+331733	RA: 14 34 10.9770 (218.5457375d) Dec: +33 17 30.87 (33.29191d) Equinox: J2000 Plate Id: (?)	Redshift: 2.656	V=27.0 F-LINE(5998)=4.07+/-0.04E-17, F-LINE(4448)=2E-15	Coordinate Source: NOAO Deep Wide-Field Survey				
<i>Comments: We have carried out a comparison between the NDWFS coordinates and GSC2.2 coordinates for 98 stars in the field of the Lya nebula. We found the median offsets between the two frames to be (deltaRA, deltaDEC) = (0.022,-0.063) arcsec (in the sense that the NDWFS astrometric system is east and south of the GSC2.2 astrometric system. This difference is so small that we chose not to apply any correction to the NDWFS astrometry.</i>										
<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	NIC-F110W	(1) OBJ-1434110+33 1733	NIC2, MULTIACCUM, NIC2-FIX	F110W	NSAMP=13; SAMP-SEQ=SPARS 256	GS ACQ SCENARI O BASE1TNS	Pattern 1-1 (1)	[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	[2]
									[=>(Pattern 3)]	[3]

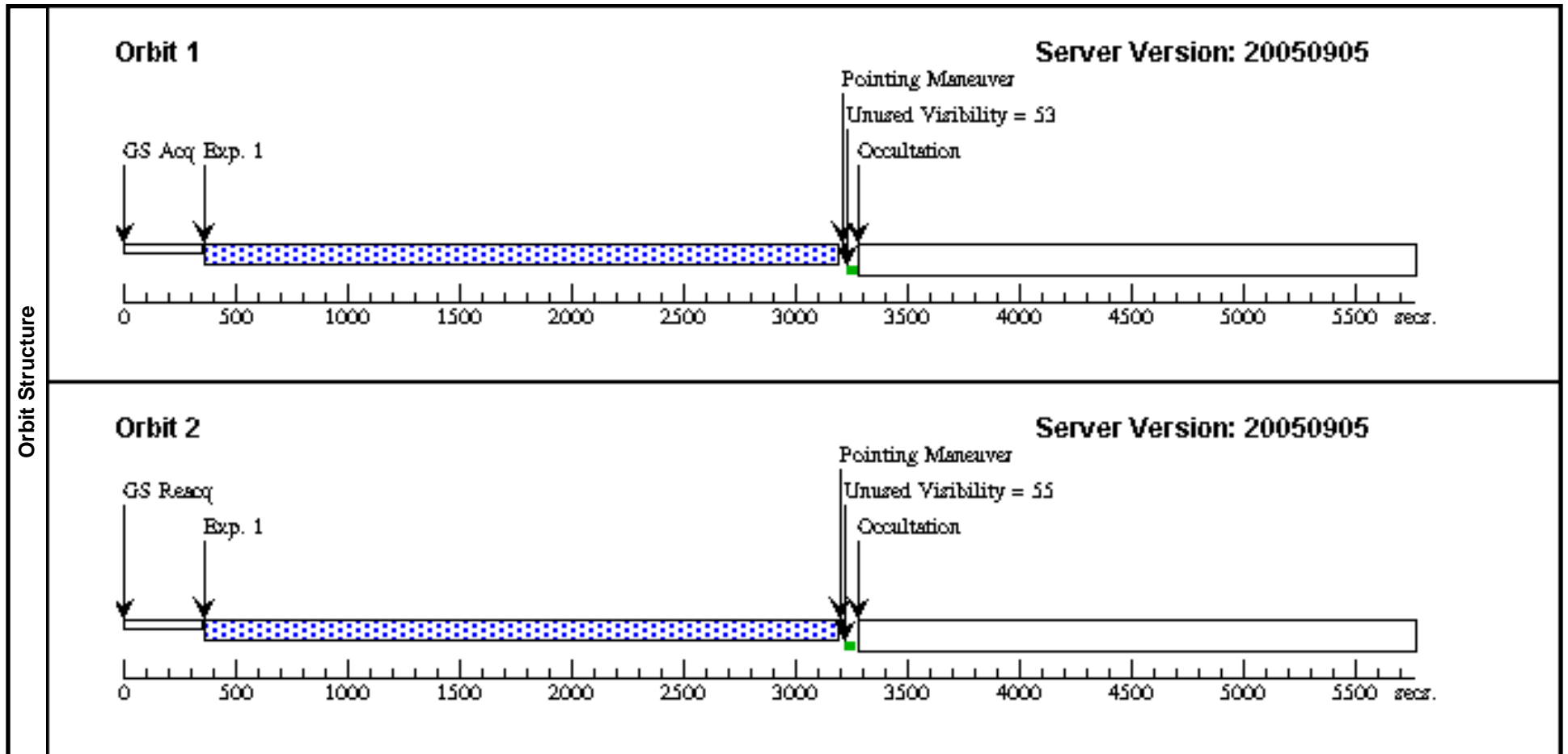


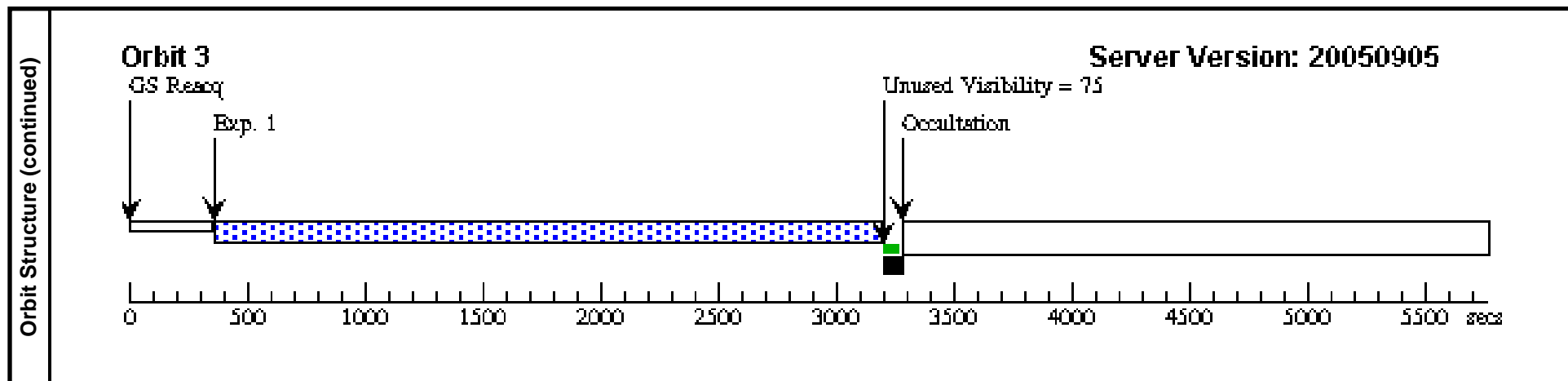


Proposal 10591 - Visit 05 - ACS Observations of the Galaxies in A Giant Ly-alpha Nebula at z~2.7

Thu Nov 24 02:26:05 GMT 2005

<b>Visit</b>	<b>Proposal 10591, Visit 05</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: NIC2 Special Requirements: SAME ORIENT AS 04									
	<b>Diagnostics</b>	(Visit 05) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 05) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 05) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE								
<b>Patterns</b>		<b>#</b>	<b>Primary Pattern</b>			<b>Secondary Pattern</b>			<b>Exposures</b>	
	(5)	Pattern Type=NIC-SPIRAL-DITH      Coordinate Frame=POS-TARG Purpose=DITHER                      Pattern Orientation=180 Number Of Points=3                  Angle Between Sides= Point Spacing=0.637                  Center Pattern=false Line Spacing=						(1)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(1)	OBJ-1434110+331733	RA: 14 34 10.9770 (218.5457375d) Dec: +33 17 30.87 (33.29191d) Equinox: J2000 Plate Id: (?)	Redshift: 2.656	V=27.0 F-LINE(5998)=4.07+/-0.04E-17, F-LINE(4448)=2E-15	Coordinate Source: NOAO Deep Wide-Field Survey				
<i>Comments: We have carried out a comparison between the NDWFS coordinates and GSC2.2 coordinates for 98 stars in the field of the Lya nebula. We found the median offsets between the two frames to be (deltaRA, deltaDEC) = (0.022,-0.063) arcsec (in the sense that the NDWFS astrometric system is east and south of the GSC2.2 astrometric system. This difference is so small that we chose not to apply any correction to the NDWFS astrometry.</i>										
<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	NIC-F110W	(1) OBJ-1434110+33 1733	NIC2, MULTIACCUM, NIC2-FIX	F110W	NSAMP=13; SAMP-SEQ=SPARS 256	POS TARG 0,0.6375 ; GS ACQ SCENARI O BASE1TNS	Pattern 1-1 (5)	[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	[2]
									[=>(Pattern 3)]	[3]

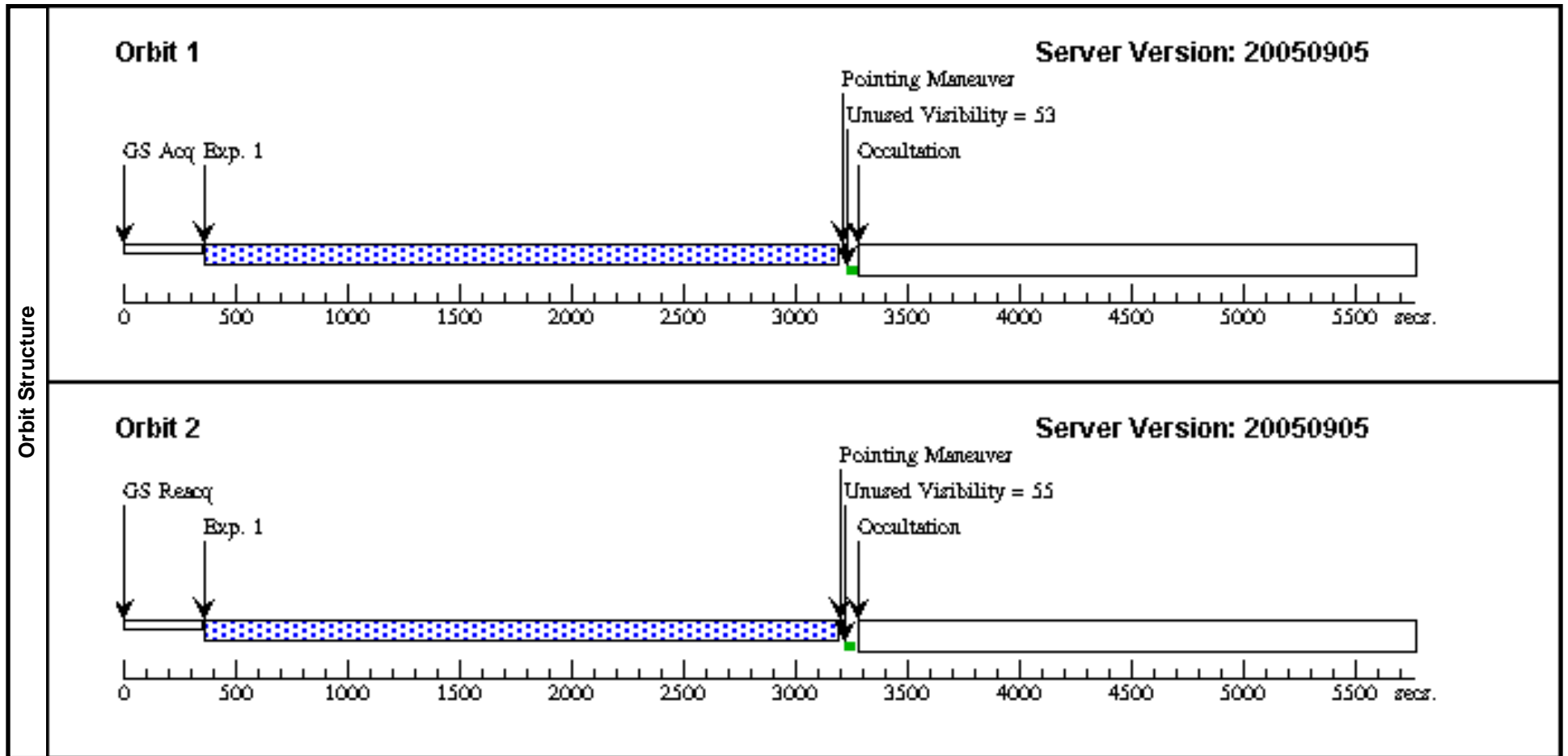


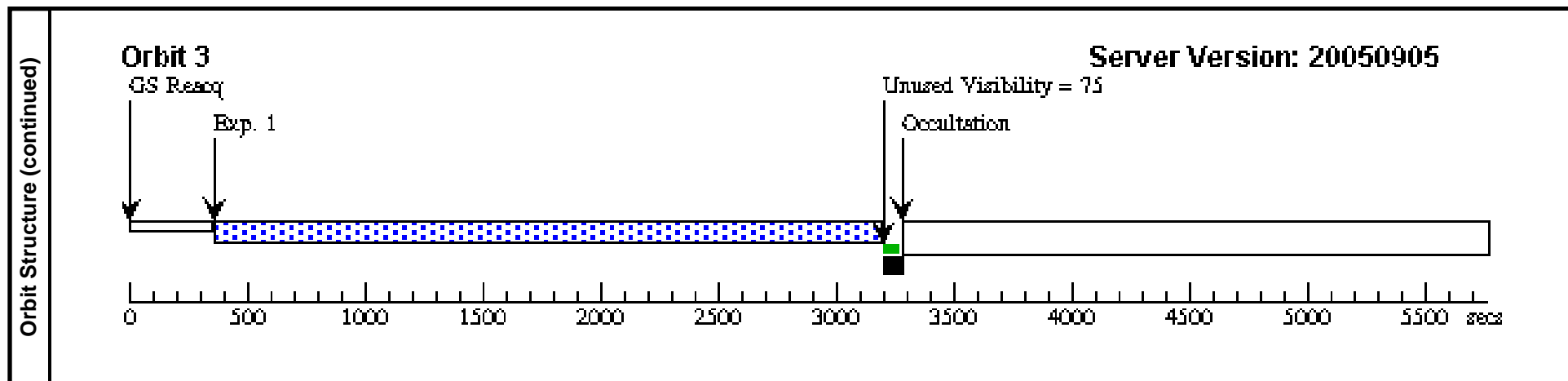


Proposal 10591 - Visit 06 - ACS Observations of the Galaxies in A Giant Ly-alpha Nebula at z~2.7

Thu Nov 24 02:26:05 GMT 2005

<b>Visit</b>	<b>Proposal 10591, Visit 06</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: NIC2 Special Requirements: SAME ORIENT AS 04									
	<b>Diagnostics</b>	(Visit 06) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 06) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 06) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE								
<b>Patterns</b>		<b>#</b>	<b>Primary Pattern</b>			<b>Secondary Pattern</b>			<b>Exposures</b>	
	(1)	Pattern Type=NIC-SPIRAL-DITH      Coordinate Frame=POS-TARG Purpose=DITHER                      Pattern Orientation=0 Number Of Points=3                  Angle Between Sides= Point Spacing=0.637                  Center Pattern=false Line Spacing=						(1)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(1)	OBJ-1434110+331733	RA: 14 34 10.9770 (218.5457375d) Dec: +33 17 30.87 (33.29191d) Equinox: J2000 Plate Id: (?)	Redshift: 2.656	V=27.0 F-LINE(5998)=4.07+/-0.04E-17, F-LINE(4448)=2E-15	Coordinate Source: NOAO Deep Wide-Field Survey				
<i>Comments: We have carried out a comparison between the NDWFS coordinates and GSC2.2 coordinates for 98 stars in the field of the Lya nebula. We found the median offsets between the two frames to be (deltaRA, deltaDEC) = (0.022,-0.063) arcsec (in the sense that the NDWFS astrometric system is east and south of the GSC2.2 astrometric system. This difference is so small that we chose not to apply any correction to the NDWFS astrometry.</i>										
<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	NIC-F160W	(1) OBJ-1434110+33 1733	NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=13; SAMP-SEQ=SPARS 256	GS ACQ SCENARI O BASE1TNS	Pattern 1-1 (1)	[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	[2]
									[=>(Pattern 3)]	[3]





Proposal 10591 - Visit 07 - ACS Observations of the Galaxies in A Giant Ly-alpha Nebula at z~2.7

Thu Nov 24 02:26:06 GMT 2005

<b>Visit</b>	<b>Proposal 10591, Visit 07</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: NIC2 Special Requirements: SAME ORIENT AS 04									
	<b>Diagnostics</b>	(Visit 07) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 07) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE (Visit 07) Warning: COORDINATE-SOURCE OF OTHER-SOURCE FOR SMALL APERTURE								
<b>Patterns</b>		<b>#</b>	<b>Primary Pattern</b>			<b>Secondary Pattern</b>			<b>Exposures</b>	
	(5)	Pattern Type=NIC-SPIRAL-DITH      Coordinate Frame=POS-TARG Purpose=DITHER                      Pattern Orientation=180 Number Of Points=3                  Angle Between Sides= Point Spacing=0.637                  Center Pattern=false Line Spacing=						(1)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(1)	OBJ-1434110+331733	RA: 14 34 10.9770 (218.5457375d) Dec: +33 17 30.87 (33.29191d) Equinox: J2000 Plate Id: (?)	Redshift: 2.656	V=27.0 F-LINE(5998)=4.07+/-0.04E-17, F-LINE(4448)=2E-15	Coordinate Source: NOAO Deep Wide-Field Survey				
<i>Comments: We have carried out a comparison between the NDWFS coordinates and GSC2.2 coordinates for 98 stars in the field of the Lya nebula. We found the median offsets between the two frames to be (deltaRA, deltaDEC) = (0.022,-0.063) arcsec (in the sense that the NDWFS astrometric system is east and south of the GSC2.2 astrometric system. This difference is so small that we chose not to apply any correction to the NDWFS astrometry.</i>										
<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	NIC-F160W	(1) OBJ-1434110+33 1733	NIC2, MULTIACCUM, NIC2-FIX	F160W	NSAMP=13; SAMP-SEQ=SPARS 256	POS TARG 0,0.6375 ; GS ACQ SCENARI O BASE1TNS	Pattern 1-1 (5)	[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	[2]
									[=>(Pattern 3)]	[3]

