10181 - ACS/NICMOS Imaging of Bright Lyman Break Galaxy Candidates from SDSS

Cycle: 13, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

Name	*Institution*	*E-Mail*
Ms. Misty C. Bentz (PI)	**The Ohio State University Research Foundation**	**bentz@astronomy.ohio-state.edu**
Dr. Richard W. Pogge (CoI)	The Ohio State University Research Foundation	pogge.1@osu.edu
Dr. Patrick S. Osmer (CoI)	The Ohio State University Research Foundation	posmer@astronomy.ohio-state.edu

VISITS

Visit	*Targets*	*Configurations*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(1) SDSSJ024343.77-082109.9	ACS/WFC	2	08-Nov-2005 21:00:53.0	yes
02	(2) SDSSJ114756.00-025023.5	ACS/WFC	2	08-Nov-2005 21:01:02.0	yes
03	(3) SDSSJ134026.44+634433.2	ACS/WFC	2	08-Nov-2005 21:01:09.0	yes
04	(4) SDSSJ143223.10-000116.4	ACS/WFC	2	08-Nov-2005 21:01:17.0	yes
05	(5) SDSSJ144424.55+013457.0	ACS/WFC	2	08-Nov-2005 21:01:23.0	yes
06	(6) SDSSJ155359.96+005641.3	ACS/WFC	2	08-Nov-2005 21:01:29.0	yes
07	(1) SDSSJ024343.77-082109.9	NIC2	1	08-Nov-2005 21:01:33.0	yes
08	(2) SDSSJ114756.00-025023.5	NIC2	1	08-Nov-2005 21:01:36.0	yes
09	(3) SDSSJ134026.44+634433.2	NIC2	1	08-Nov-2005 21:01:39.0	yes

Visit	*Targets*	*Configurations*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
10	(4) SDSSJ143223.10-000116.4	NIC2	1	08-Nov-2005 21:01:42.0	yes
11	(5) SDSSJ144424.55+013457.0	NIC2	1	08-Nov-2005 21:01:45.0	yes
12	(6) SDSSJ155359.96+005641.3	NIC2	1	08-Nov-2005 21:01:48.0	yes

18 Total Orbits Used

ABSTRACT

The recent surprising discovery of six unusually bright (r~20 mag) Lyman break galaxy (LBG) candidates with z=2.45-2.80 in the Sloan Digital Sky Survey (SDSS) raises a number of questions that only HST can address. Specifically, what is the true nature of these objects, and what role if any is played by gravitational lensing? We propose to use the superior resolution and sensitivity of ACS and NICMOS to obtain deep images of these objects and their environments. Compared to SDSS images, HST will allow us to determine their morphologies (extended, point-source, or lensed), the appearance of their environments (rich or poor), and to detect any faint foreground groups or clusters that might be responsible for lensing these objects. All outcomes would be intruiging. If the objects are lensed, it increases from 1 (MS1512-cB58) to 7 the number of normal LBGs bright enough to study individually. If they are instead unlensed point sources, they will represent a new class of previously unidentified absorption-line quasars. Finally, if they are unlensed and extended star-forming galaxies, they are at least 4mag brighter than L_* LBGs, thus making them the most luminous star-forming objects yet seen, representing a heretofore unknown extreme population of objects.

OBSERVING DESCRIPTION

For each of the six candidate Lyman break galaxies we will obtain two sets of deep images: broad-band ACS images in the F625W (SDSS r) filter, which will be centered at 1800 Angstroms in the rest-frame ultraviolet of these galaxies, and broad-band NICMOS images in the near-infrared F160W (H) filter, centered at 4500 Angstroms in the rest-frame visual. The r filter is chosen specifically to take advantage of the maximum throughput of the optics at 6300 Angstroms in order to get deep images of the fields in the rest-frame UV and any foreground groups or clusters. The H filter will take advantage of the visible spectrum being redshifted into the infrared and will be the best way to study the hosts and companions of our targets. Additionally, the two filters will provide simple color measurements that will aid in the detection of any lens images, which should be

the same color as the source to a first approximation.

The higher sensitivity of the ACS WFC is more important in this case than the resolution that would be afforded by the HRC. Additionally, the maximum throughput of the optics in the F625W (SDSS r) filter will be exploited to search for extremely faint foreground objects or companions to the targets that might have gone undetected in the original SDSS images. An individual exposure of 960 seconds would allow a solid 4 sigma detection of an object with a surface brightness of 23.5 mag arcsec^-2, which is three magnitudes fainter than our targets, without allowing point sources of 20 mag to saturate. Additionally, a set of exposures totaling 4.5 ks, which will be possible over the span of the two orbits we are requesting per object, would gain a 5 sigma detection of objects with a surface brightness of 24.5 mag arcsec^-2. Seitz et al. (1998) have already shown that HST is capable of producing similar results using the slightly inferior WFPC2 to image the gravitationally-lensed Lyman break galaxy MS 1512-cB58, albeit with three orbits per filter rather than two.

The high sensitivity of NICMOS will be important in imaging the morphologies of the targets and other faint companions. As has been shown with gravitational lensing programs, a single orbit with the F160W (H) filter and NIC2 camera will frequently reveal the host galaxies (about 60% of the time) where the emission is rest-frame optical, and is capable of imaging to surface brightnesses of 22 mag arsec^-2 in a single orbit (C. Kochanek/CASTLES, priv. comm.). Another advantage of using NICMOS to image host galaxies is that the pixels do not bleed if they are saturated, so bright nuclei and host galaxies can be imaged in the same exposure. We will use the NIC2 camera in MULTIACCUM mode in order to produce the best sensitivity and image quality.

The targeted objects and their expected environments are extremely faint, therefore we will employ one of the standard drizzling techniques for ACS in order to maximize cosmic ray rejection and the removal of image artifacts.

Visit

Proposal 10181, Visit 01 Wed Nov 09 02:01:50 GMT 2005

Diagnostic Status: Warning

Scientific Instruments: ACS/WFC

Special Requirements: (none)

Diagnostics

(Visit 01) Warning: VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=5 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false		(1)

Fixed Targets

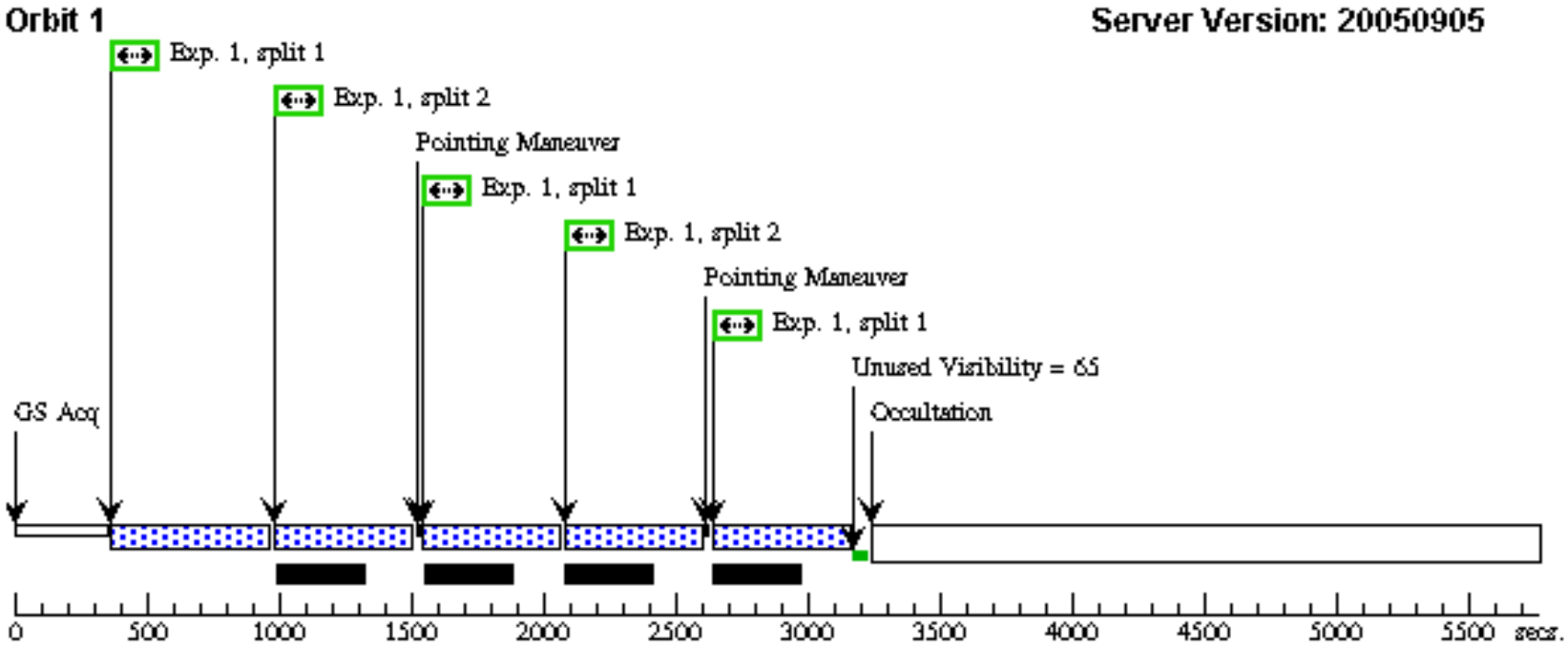
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	SDSSJ024343.77-082109.9	RA: 02 43 43.6900 (40.9320417d) Dec: -08 21 9.86 (-8.35274d) Equinox: J2000 Plate Id: 00DW	Redshift: 2.59	V=20.55+/-0.1 g = 20.793, r = 20.403, i = 20.084	Coordinate Source: GSC_SURVEY_PLATE

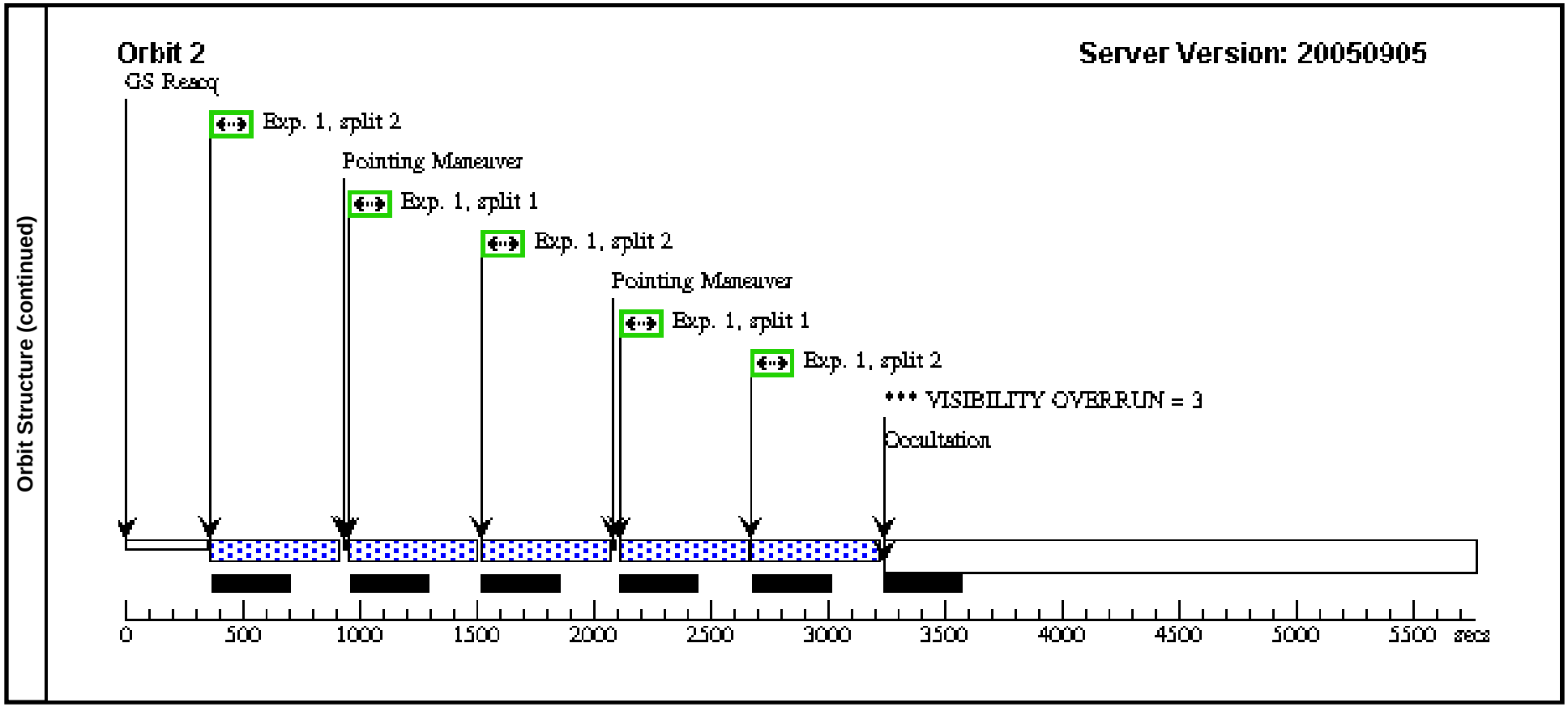
Comments: Object too faint for Moffat fit on GSC plate. Coordinates determined by centering crosshair in ds9.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	J0243(r)	(1) SDSSJ024343.77-082109.9	ACS/WFC, ACCUM, WFC	F625W			Pattern 1-1 (1)	4500.0 Secs	
								[==>400.0 Secs (Pattern 1, Split 1)]	
								[==>400.0 Secs (Pattern 1, Split 2)]	
								[==>400.0 Secs (Pattern 2, Split 1)]	***[1]***
								[==>400.0 Secs (Pattern 2, Split 2)]	
								[==>400.0 Secs (Pattern 3, Split 1)]	
								[==>430.0 Secs (Pattern 3, Split 2)]	
								[==>430.0 Secs (Pattern 4, Split 1)]	
								[==>430.0 Secs (Pattern 4, Split 2)]	***[2]***
								[==>430.0 Secs (Pattern 5, Split 1)]	
								[==>430.0 Secs (Pattern 5, Split 2)]	

Orbit Structure




Orbit Structure (continued)
Orbit 2
Server Version: 20050905
GS Reacq
Exp. 1, split 2
Pointing Maneuver
Exp. 1, split 1
Exp. 1, split 2
Pointing Maneuver
Exp. 1, split 1
Exp. 1, split 2
*** VISIBILITY OVERRUN = 3
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs

Visit

Proposal 10181, Visit 02 Wed Nov 09 02:01:52 GMT 2005

Diagnostic Status: Warning

Scientific Instruments: ACS/WFC

Special Requirements: (none)

Diagnostics

(Visit 02) Warning: VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=5 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false		(1)

Fixed Targets

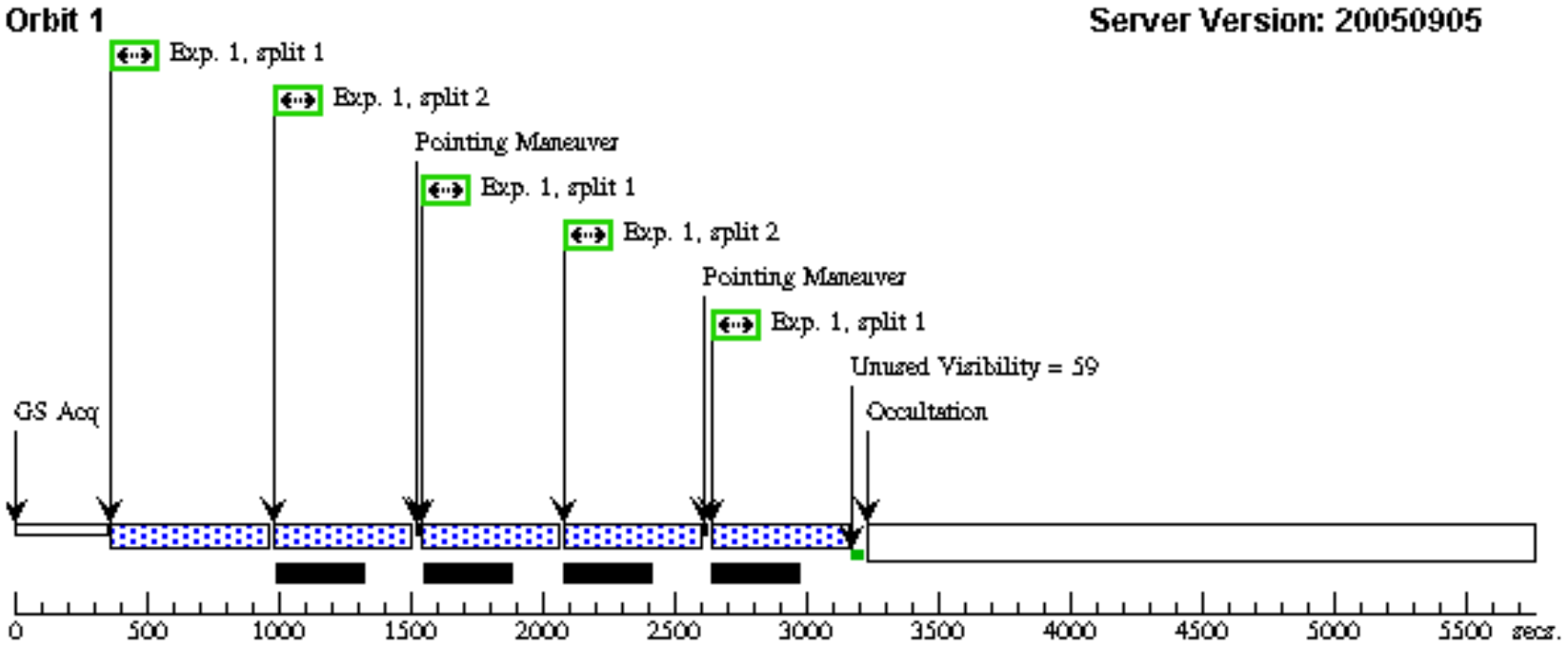
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	SDSSJ114756.00-025023.5	RA: 11 47 56.0300 (176.9834583d) Dec: -02 50 25.40 (-2.84039d) Equinox: J2000 Plate Id: 02ND	Redshift: 2.56	V=20.32+/-0.1 g = 20.995, r = 19.825, i =19.293, J = 17.29, J-K = 1.71	Coordinate Source: GSC_SURVEY_PLATE

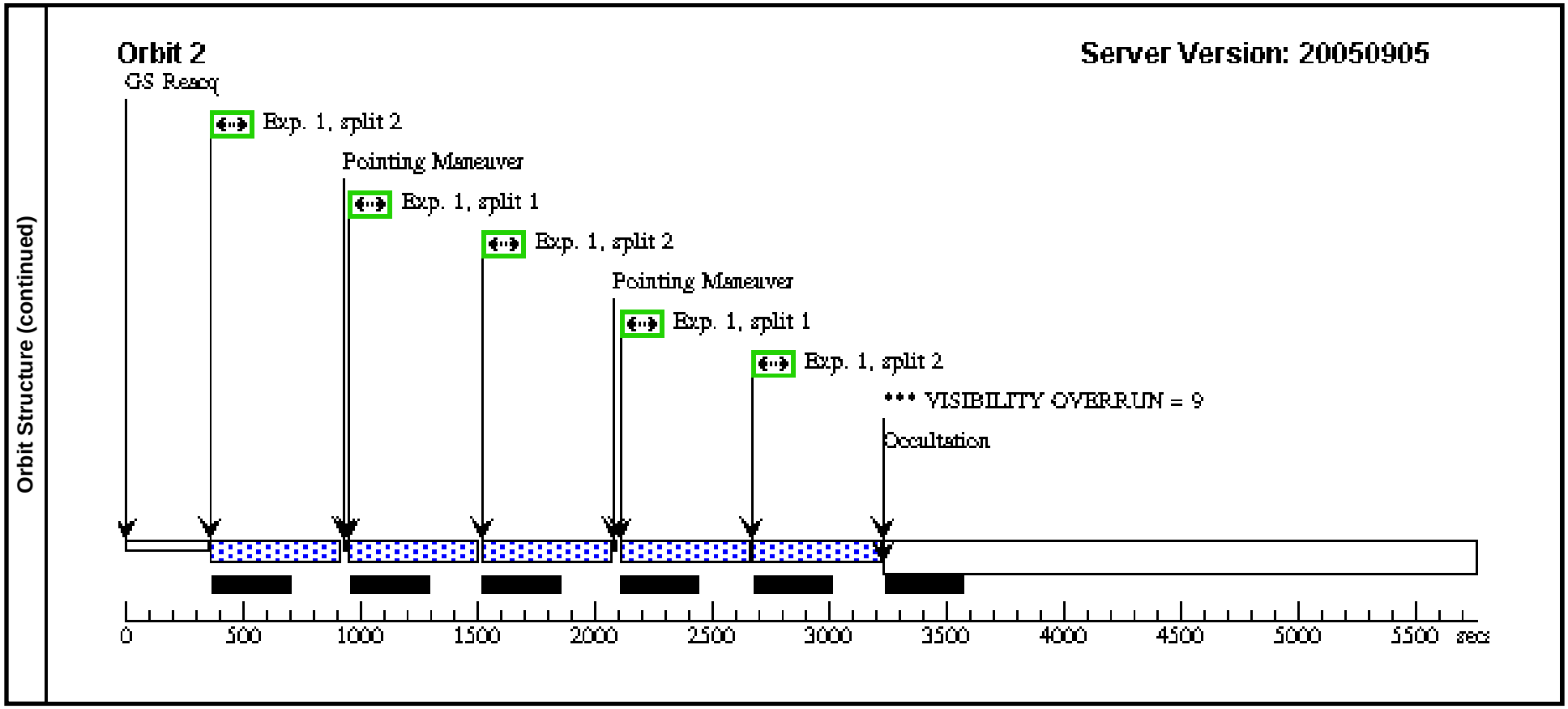
Comments: Object too faint for Moffat fit on GSC plate. Coordinates determined by centering crosshair in ds9.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	J1147(r)	(2) SDSSJ114756.00-025023.5	ACS/WFC, ACCUM, WFC	F625W			Pattern 1-1 (1)	4500.0 Secs	
								[==>400.0 Secs (Pattern 1, Split 1)]	
								[==>400.0 Secs (Pattern 1, Split 2)]	
								[==>400.0 Secs (Pattern 2, Split 1)]	***[1]***
								[==>400.0 Secs (Pattern 2, Split 2)]	
								[==>400.0 Secs (Pattern 3, Split 1)]	
								[==>430.0 Secs (Pattern 3, Split 2)]	
								[==>430.0 Secs (Pattern 4, Split 1)]	
								[==>430.0 Secs (Pattern 4, Split 2)]	***[2]***
								[==>430.0 Secs (Pattern 5, Split 1)]	
								[==>430.0 Secs (Pattern 5, Split 2)]	

Orbit Structure




Orbit Structure (continued)
Orbit 2
Server Version: 20050905
GS Reacq
Exp. 1, split 2
Pointing Maneuver
Exp. 1, split 1
Exp. 1, split 2
Pointing Maneuver
Exp. 1, split 1
Exp. 1, split 2
*** VISIBILITY OVERRUN = 9
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 10181, Visit 03 Wed Nov 09 02:01:52 GMT 2005

Diagnostic Status: No Diagnostics

Scientific Instruments: ACS/WFC

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=5 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false		(1)

Fixed Targets

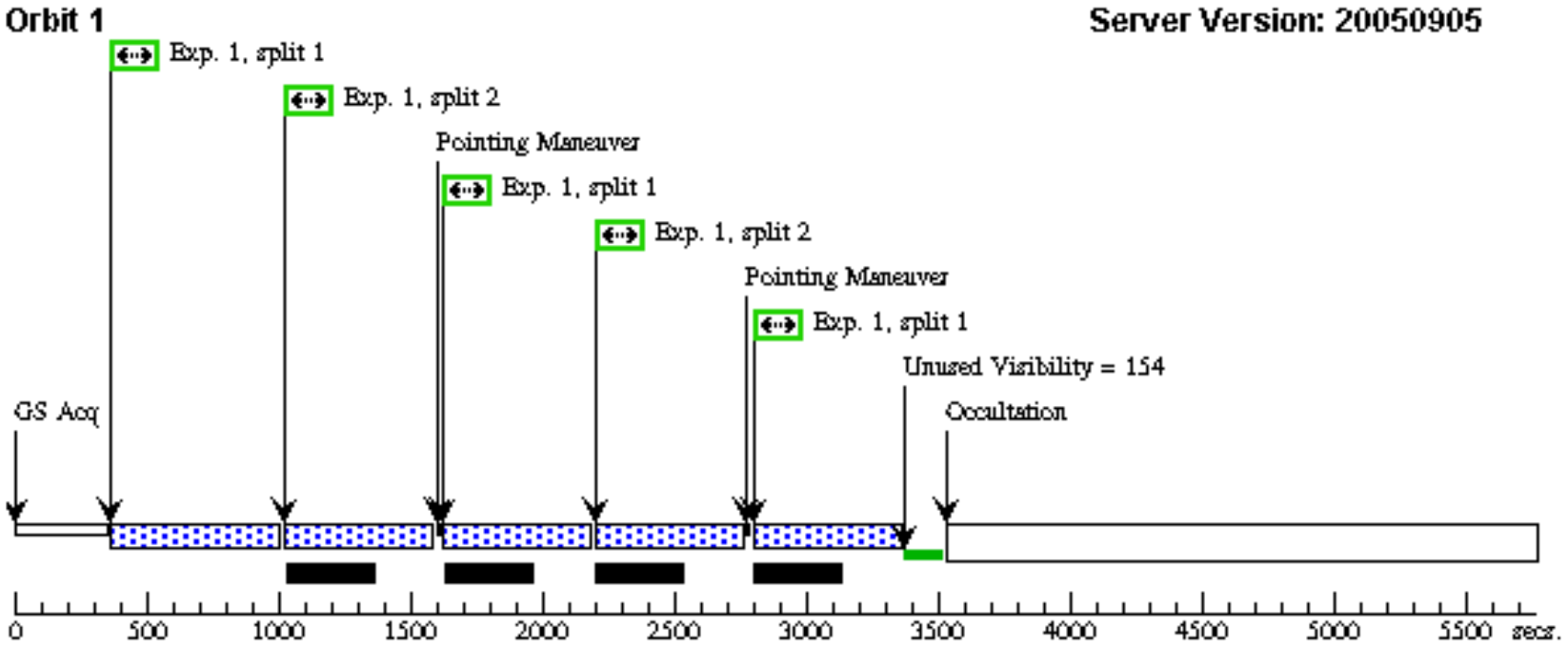
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	SDSSJ134026.44+634433.2	RA: 13 40 26.5800 (205.1107500d) Dec: +63 44 32.06 (63.74224d) Equinox: J2000 Plate Id: 01BR	Redshift: 2.79	V=20.11+/-0.1 g = 20.512, r = 19.823, i =19.358	Coordinate Source: GSC_SURVEY_PLATE

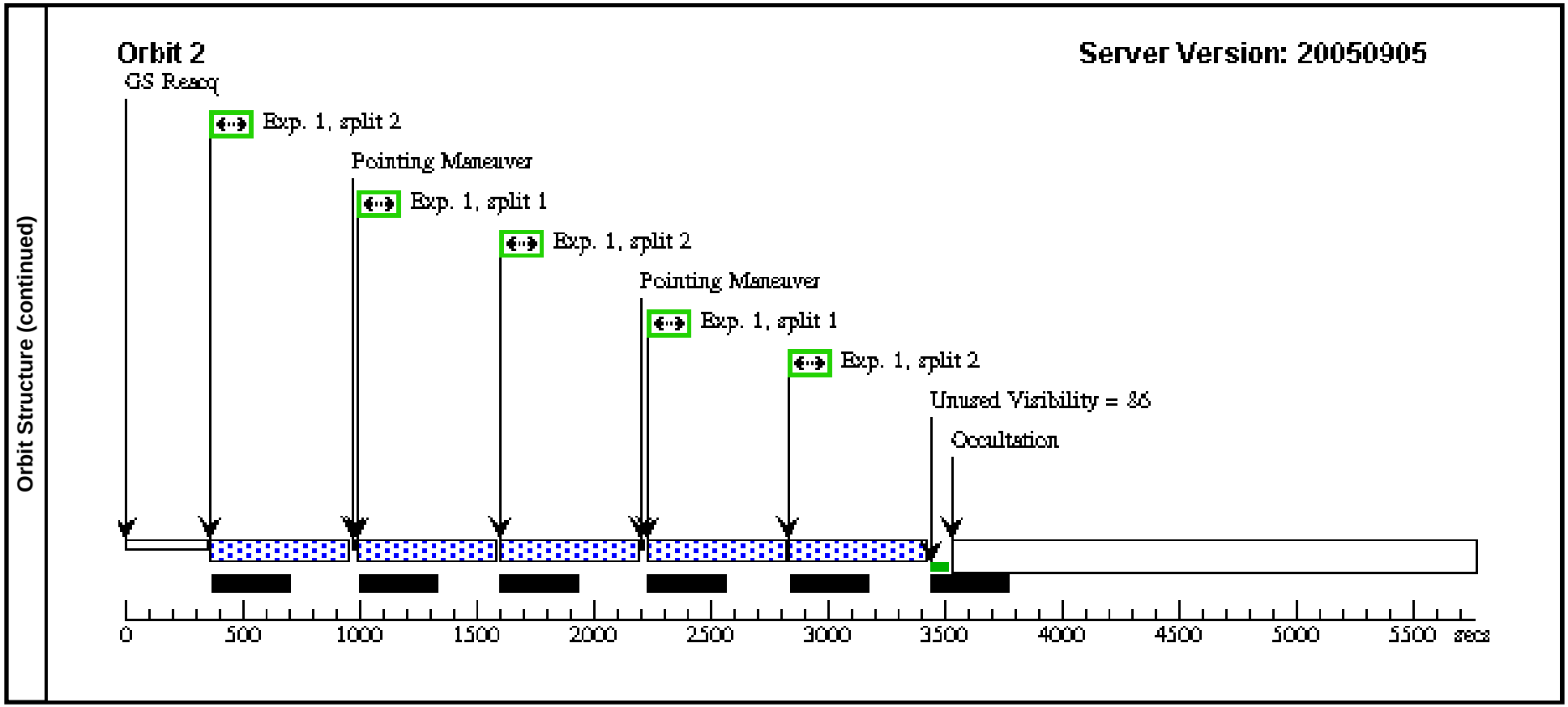
Comments: Object too faint for Moffat fit on GSC plate. Coordinates determined by centering crosshair in ds9.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	J1340(r)	(3) SDSSJ134026.44+634433.2	ACS/WFC, ACCUM, WFC	F625W			Pattern 1-1 (1)	4700.0 Secs	
								[==>440.0 Secs (Pattern 1, Split 1)]	
								[==>440.0 Secs (Pattern 1, Split 2)]	
								[==>440.0 Secs (Pattern 2, Split 1)]	***[1]***
								[==>440.0 Secs (Pattern 2, Split 2)]	
								[==>440.0 Secs (Pattern 3, Split 1)]	
								[==>470.0 Secs (Pattern 3, Split 2)]	
								[==>470.0 Secs (Pattern 4, Split 1)]	
								[==>470.0 Secs (Pattern 4, Split 2)]	***[2]***
								[==>470.0 Secs (Pattern 5, Split 1)]	
								[==>470.0 Secs (Pattern 5, Split 2)]	

Orbit Structure




Orbit Structure (continued)
Orbit 2
Server Version: 20050905
GS Reacq
Exp. 1, split 2
Pointing Maneuver
Exp. 1, split 1
Exp. 1, split 2
Pointing Maneuver
Exp. 1, split 1
Exp. 1, split 2
Unused Visibility = 86
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs

Visit

Proposal 10181, Visit 04 Wed Nov 09 02:01:53 GMT 2005

Diagnostic Status: No Diagnostics

Scientific Instruments: ACS/WFC

Special Requirements: (none)

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=5 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false		(1)

Fixed Targets

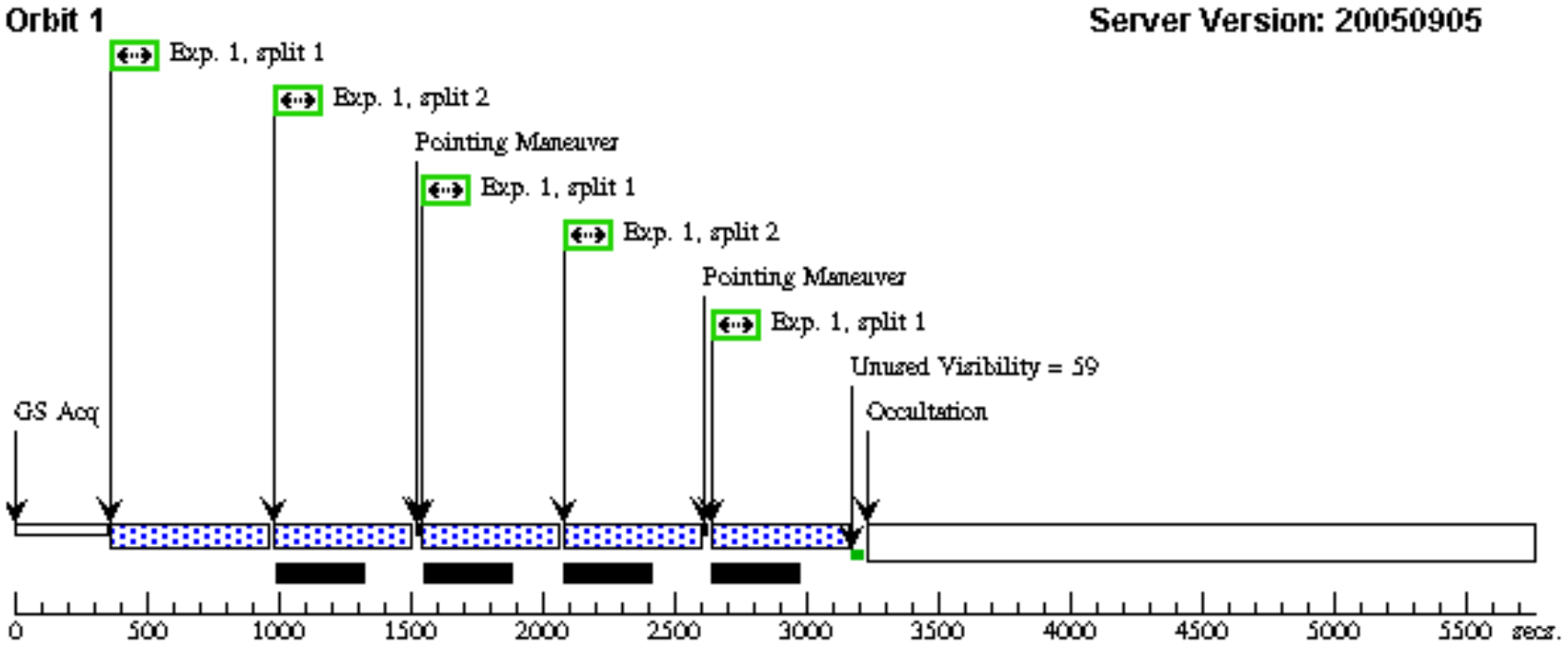
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	SDSSJ143223.10-000116.4	RA: 14 32 23.0500 (218.0960417d) Dec: -00 01 17.32 (-.02148d) Equinox: J2000 Plate Id: 00H1	Redshift: 2.47	V=20.76+/-0.1 g = 21.129, r = 20.514, i = 20.115, J = 18.55, J-K = 1.90	Coordinate Source: GSC_SURVEY_PLATE

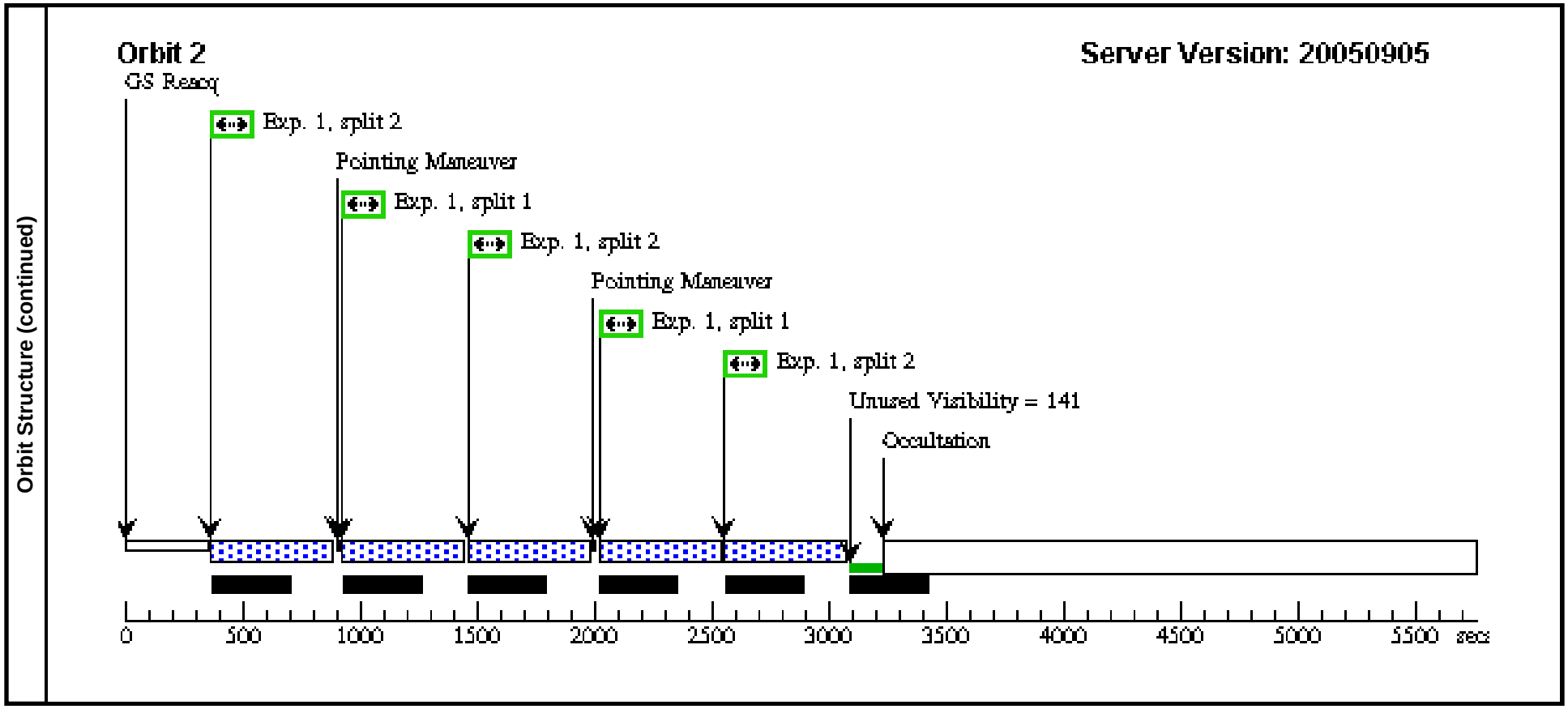
Comments: Object too faint for Moffat fit on GSC plate. Coordinates determined by centering crosshair in ds9.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	J1432(r)	(4) SDSSJ143223.10-000116.4	ACS/WFC, ACCUM, WFC	F625W			Pattern 1-1 (1)	4500.0 Secs	
								[==>400.0 Secs (Pattern 1, Split 1)]	
								[==>400.0 Secs (Pattern 1, Split 2)]	
								[==>400.0 Secs (Pattern 2, Split 1)]	***[1]***
								[==>400.0 Secs (Pattern 2, Split 2)]	
								[==>400.0 Secs (Pattern 3, Split 1)]	
								[==>400.0 Secs (Pattern 3, Split 2)]	
								[==>400.0 Secs (Pattern 4, Split 1)]	
								[==>400.0 Secs (Pattern 4, Split 2)]	***[2]***
								[==>400.0 Secs (Pattern 5, Split 1)]	
								[==>400.0 Secs (Pattern 5, Split 2)]	

Orbit Structure




Orbit Structure (continued)
Orbit 2
Server Version: 20050905
GS Reacq
Exp. 1, split 2
Pointing Maneuver
Exp. 1, split 1
Exp. 1, split 2
Pointing Maneuver
Exp. 1, split 1
Exp. 1, split 2
Unused Visibility = 141
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 10181, Visit 05 Wed Nov 09 02:01:54 GMT 2005

Diagnostic Status: Warning

Scientific Instruments: ACS/WFC

Special Requirements: (none)

Diagnostics

(Visit 05) Warning: VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=5 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false		(1)

Fixed Targets

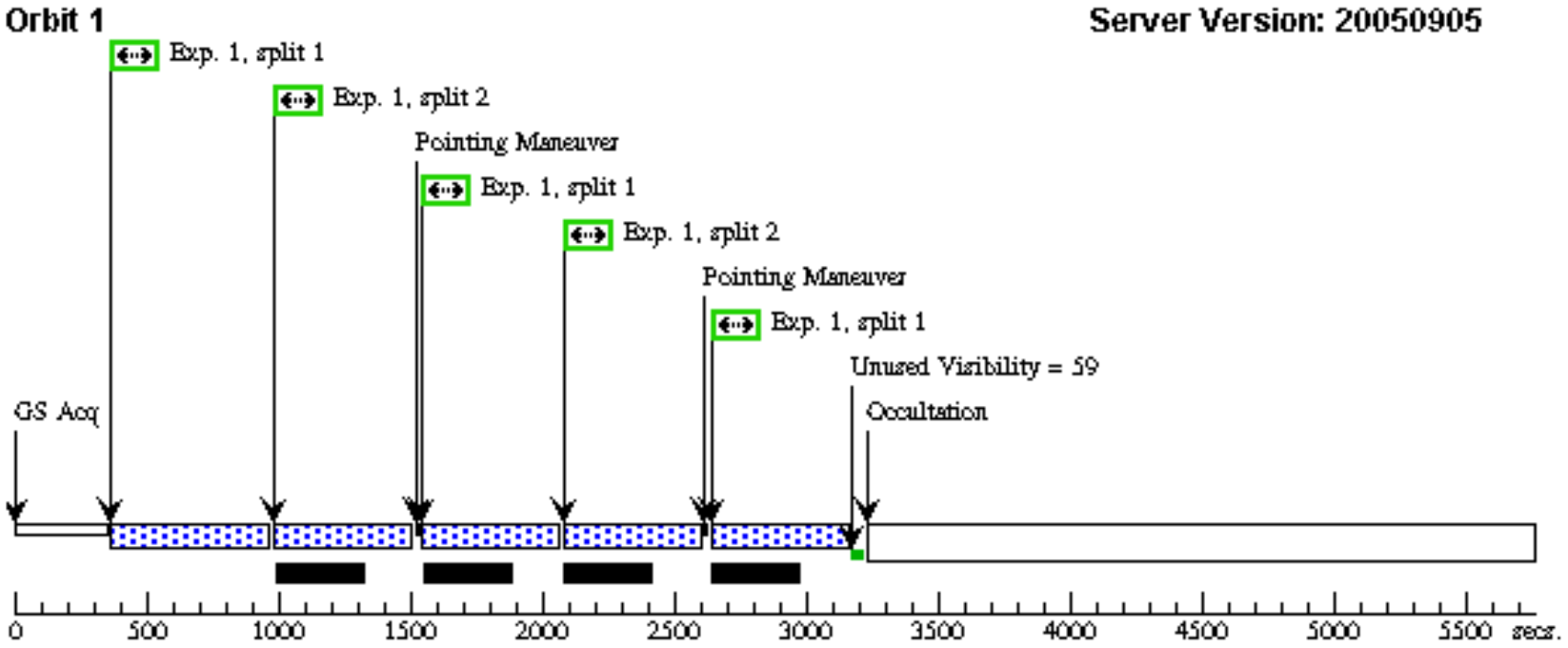
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	SDSSJ144424.55+013457.0	RA: 14 44 24.5100 (221.1021250d) Dec: +01 34 57.05 (1.58251d) Equinox: J2000 Plate Id: 00WN	Redshift: 2.66	V=20.76+/-0.1 g = 21.132, r = 20.510, i =20.077, J = 17.59, J-K = 1.07	Coordinate Source: GSC_SURVEY_PLATE

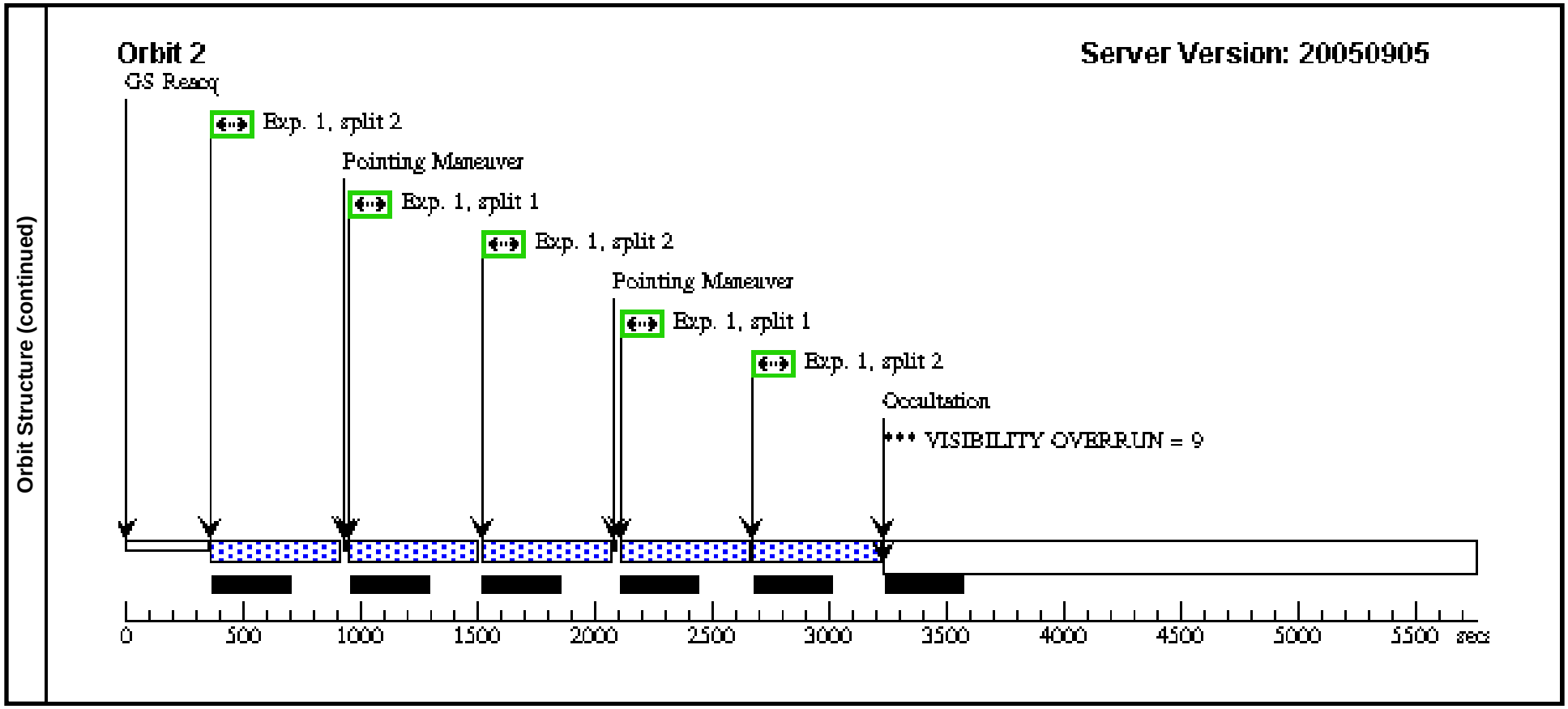
Comments: Object too faint for Moffat fit on GSC plate. Coordinates determined by centering crosshair in ds9.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	J1444(r)	(5) SDSSJ144424.55 +013457.0	ACS/WFC, ACCUM, WFC	F625W			Pattern 1-1 (1)	4500.0 Secs	
								[==>400.0 Secs (Pattern 1, Split 1)]	
								[==>400.0 Secs (Pattern 1, Split 2)]	
								[==>400.0 Secs (Pattern 2, Split 1)]	***[1]***
								[==>400.0 Secs (Pattern 2, Split 2)]	
								[==>400.0 Secs (Pattern 3, Split 1)]	
								[==>430.0 Secs (Pattern 3, Split 2)]	
								[==>430.0 Secs (Pattern 4, Split 1)]	
								[==>430.0 Secs (Pattern 4, Split 2)]	***[2]***
								[==>430.0 Secs (Pattern 5, Split 1)]	
								[==>430.0 Secs (Pattern 5, Split 2)]	

Orbit Structure




Orbit Structure (continued)
Orbit 2
Server Version: 20050905
GS Reacq
Exp. 1, split 2
Pointing Maneuver
Exp. 1, split 1
Exp. 1, split 2
Pointing Maneuver
Exp. 1, split 1
Exp. 1, split 2
Occultation
*** VISIBILITY OVERRUN = 9
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 10181, Visit 06 Wed Nov 09 02:01:54 GMT 2005

Diagnostic Status: Warning

Scientific Instruments: ACS/WFC

Special Requirements: (none)

Diagnostics

(Visit 06) Warning: VISIBILITY OVERRUN

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=5 Point Spacing=3.011 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.3 Angle Between Sides= Center Pattern=false		(1)

Fixed Targets

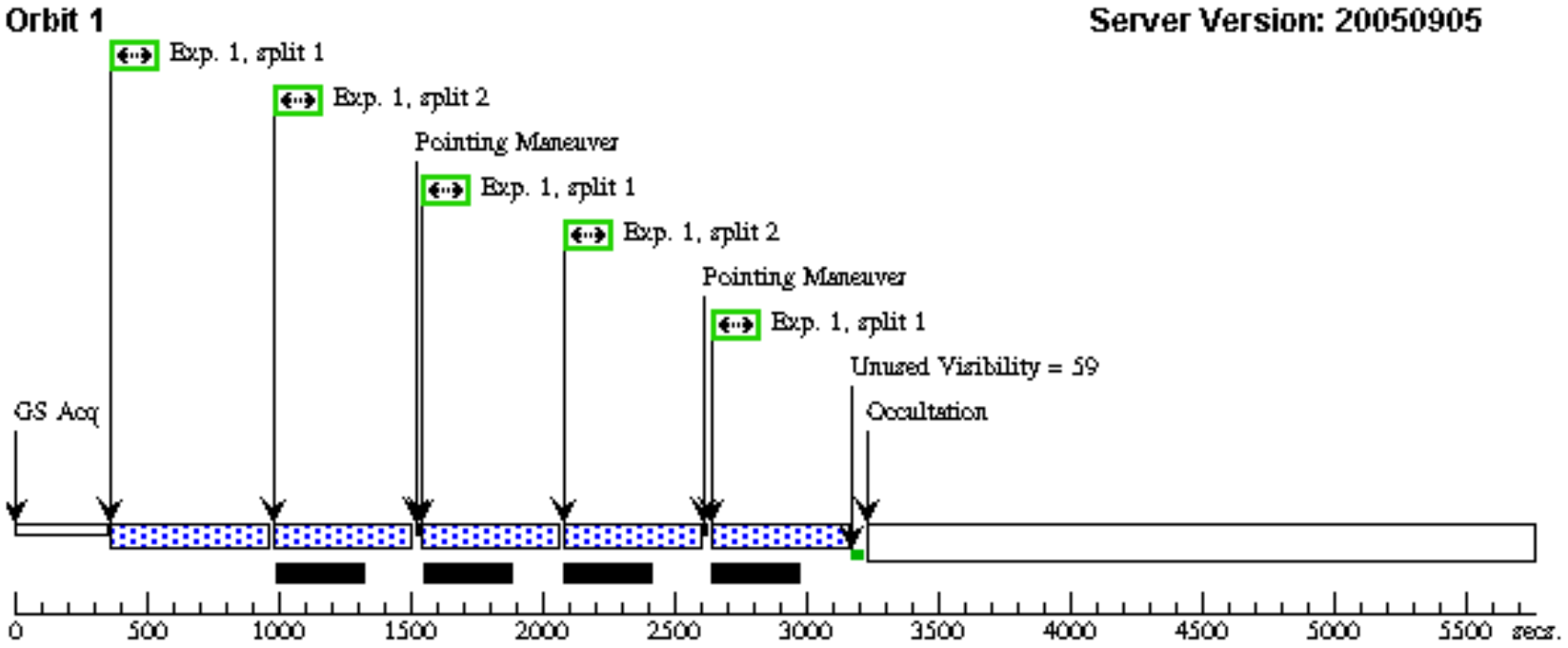
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	SDSSJ155359.96+005641.3	RA: 15 53 59.9700 (238.4998750d) Dec: +00 56 40.60 (.94461d) Equinox: J2000 Plate Id: 0082	Redshift: 2.63	V=20.43+/-0.1 g = 20.761, r = 20.199, i = 19.676, J = 18.11, J-K = 1.86	Coordinate Source: GUIDE_STAR_CATALOG

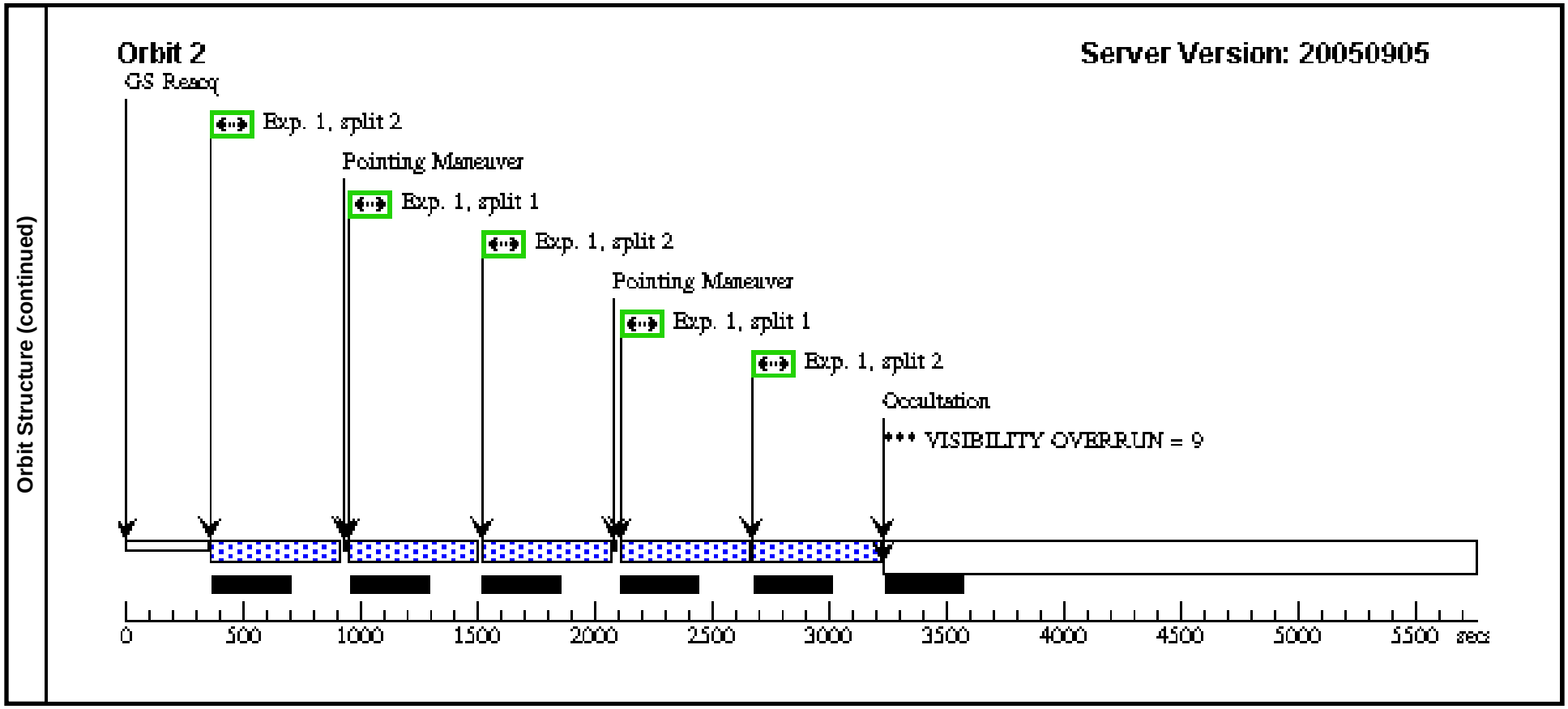
Comments: Object too faint for Moffat fit on GSC plate. Coordinates determined by centering crosshair in ds9.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	J1553(r)	(6) SDSSJ155359.96 +005641.3	ACS/WFC, ACCUM, WFC	F625W			Pattern 1-1 (1)	4500.0 Secs	
								[==>400.0 Secs (Pattern 1, Split 1)]	
								[==>400.0 Secs (Pattern 1, Split 2)]	
								[==>400.0 Secs (Pattern 2, Split 1)]	***[1]***
								[==>400.0 Secs (Pattern 2, Split 2)]	
								[==>400.0 Secs (Pattern 3, Split 1)]	
								[==>430.0 Secs (Pattern 3, Split 2)]	
								[==>430.0 Secs (Pattern 4, Split 1)]	
								[==>430.0 Secs (Pattern 4, Split 2)]	***[2]***
								[==>430.0 Secs (Pattern 5, Split 1)]	
								[==>430.0 Secs (Pattern 5, Split 2)]	

Orbit Structure




Orbit Structure (continued)
Orbit 2
Server Version: 20050905
GS Reacq
Exp. 1, split 2
Pointing Maneuver
Exp. 1, split 1
Exp. 1, split 2
Pointing Maneuver
Exp. 1, split 1
Exp. 1, split 2
Occultation
*** VISIBILITY OVERRUN = 9
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 10181, Visit 07 Wed Nov 09 02:01:55 GMT 2005

Diagnostic Status: Warning

Scientific Instruments: NIC2

Special Requirements: (none)

Diagnostics

(Visit 07) Warning: GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	Pattern Type=NIC-SPIRAL-DITH	Coordinate Frame=POS-TARG		(1)
	Purpose=DITHER	Pattern Orientation=0		
	Number Of Points=5	Angle Between Sides=		
	Point Spacing=1	Center Pattern=false		
	Line Spacing=			

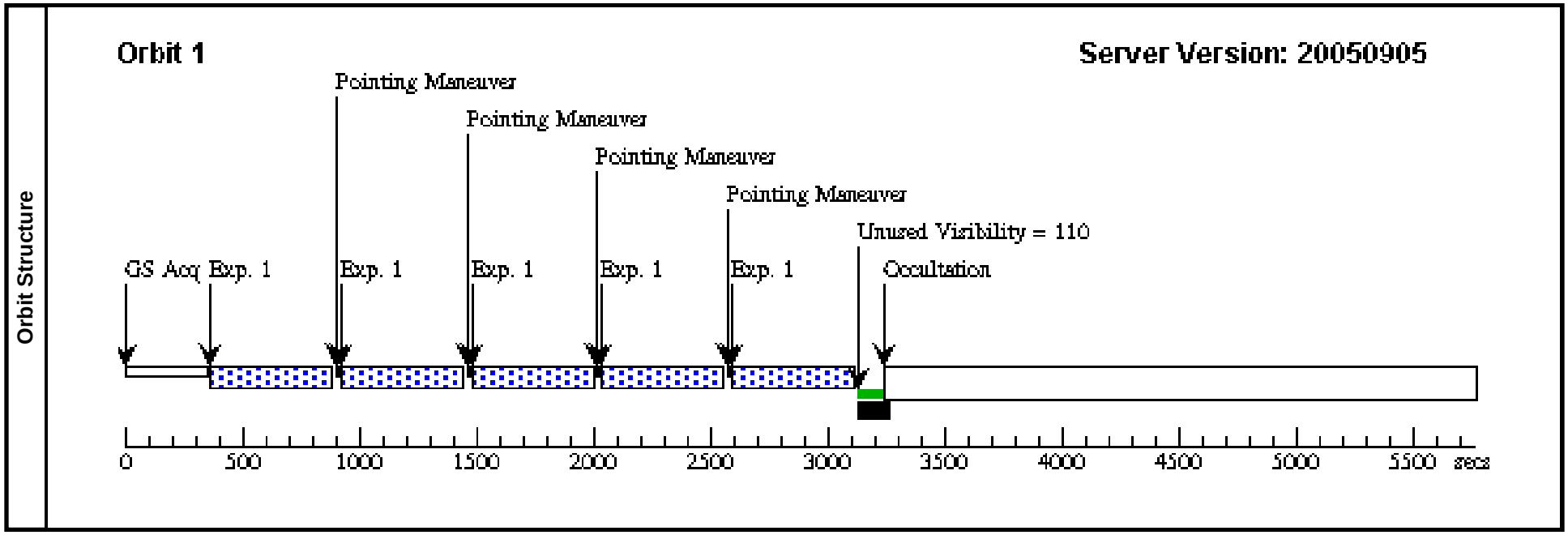
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	SDSSJ024343.77-082109.9	RA: 02 43 43.6900 (40.9320417d) Dec: -08 21 9.86 (-8.35274d) Equinox: J2000 Plate Id: 00DW	Redshift: 2.59	V=20.55+/-0.1 g = 20.793, r = 20.403, i = 20.084	Coordinate Source: GSC_SURVEY_PLATE

Comments: Object too faint for Moffat fit on GSC plate. Coordinates determined by centering crosshair in ds9.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	J0243(H)	(1) SDSSJ024343.77-082109.9	NIC2, MULTIACCUM, NIC2	F160W	CAMERA-FOCUS=DEF; SAMP-SEQ=STEP64; NSAMP=16	GS ACQ SCENARIO BASE1NDS	Pattern 1-1 (2)	*[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]* *[==>(Pattern 5)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20050905
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Unused Visibility = 110
GS Acq
Exp. 1
Exp. 1
Exp. 1
Exp. 1
Exp. 1
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs

Visit

Proposal 10181, Visit 08 Wed Nov 09 02:01:56 GMT 2005

Diagnostic Status: Warning

Scientific Instruments: NIC2

Special Requirements: (none)

Diagnostics

(Visit 08) Warning: GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	Pattern Type=NIC-SPIRAL-DITH	Coordinate Frame=POS-TARG		(1)
	Purpose=DITHER	Pattern Orientation=0		
	Number Of Points=5	Angle Between Sides=		
	Point Spacing=1	Center Pattern=false		
	Line Spacing=			

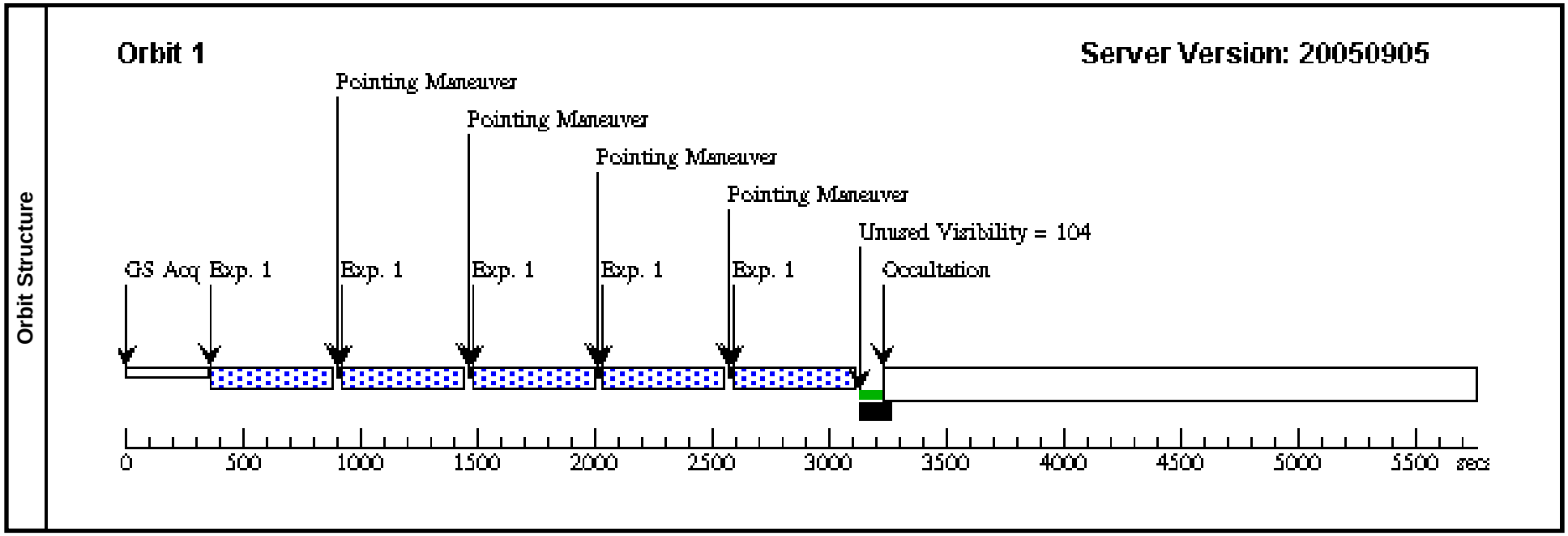
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	SDSSJ114756.00-025023.5	RA: 11 47 56.0300 (176.9834583d) Dec: -02 50 25.40 (-2.84039d) Equinox: J2000 Plate Id: 02ND	Redshift: 2.56	V=20.32+/-0.1 g = 20.995, r = 19.825, i =19.293, J = 17.29, J-K = 1.71	Coordinate Source: GSC_SURVEY_PLATE

Comments: Object too faint for Moffat fit on GSC plate. Coordinates determined by centering crosshair in ds9.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	J1147(H)	(2) SDSSJ114756.00-025023.5	NIC2, MULTIACCUM, NIC2	F160W	CAMERA-FOCUS=DEF; SAMP-SEQ=STEP64; NSAMP=16	GS ACQ SCENARIO BASE1NDS	Pattern 1-1 (2)	*[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]* *[==>(Pattern 5)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20050905
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Unused Visibility = 104
GS Acq
Exp. 1
Exp. 1
Exp. 1
Exp. 1
Exp. 1
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 10181, Visit 09 Wed Nov 09 02:01:56 GMT 2005

Diagnostic Status: Warning

Scientific Instruments: NIC2

Special Requirements: (none)

Diagnostics

(Visit 09) Warning: GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(3)	Pattern Type=NIC-SPIRAL-DITH	Coordinate Frame=POS-TARG		(1)
	Purpose=DITHER	Pattern Orientation=0		
	Number Of Points=7	Angle Between Sides=		
	Point Spacing=1	Center Pattern=false		
	Line Spacing=			

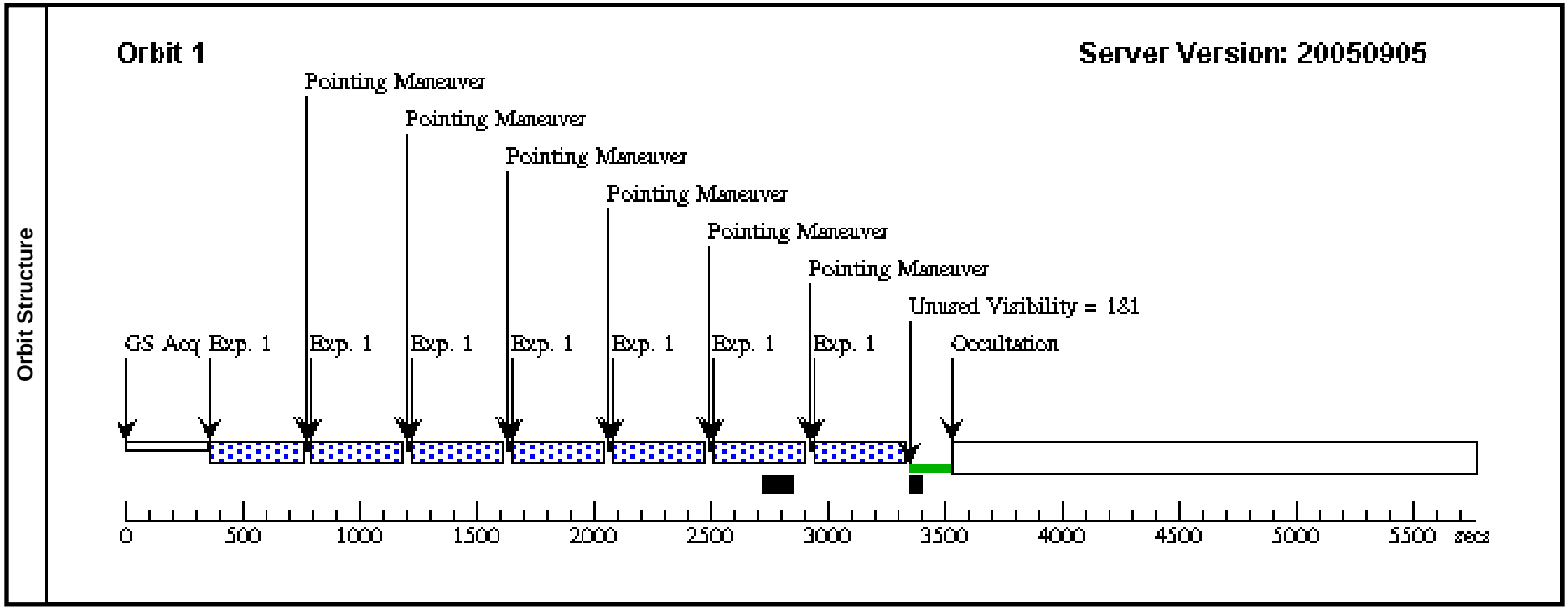
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	SDSSJ134026.44+634433.2	RA: 13 40 26.5800 (205.1107500d) Dec: +63 44 32.06 (63.74224d) Equinox: J2000 Plate Id: 01BR	Redshift: 2.79	V=20.11+/-0.1 g = 20.512, r = 19.823, i =19.358	Coordinate Source: GSC_SURVEY_PLATE

Comments: Object too faint for Moffat fit on GSC plate. Coordinates determined by centering crosshair in ds9.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	J1340(H)	(3) SDSSJ134026.44+634433.2	NIC2, MULTIACCUM, NIC2	F160W	CAMERA-FOCUS=DEF; SAMP-SEQ=STEP64; NSAMP=14	GS ACQ SCENARIO BASE1NDS	Pattern 1-1 (3)	*[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]* *[==>(Pattern 5)]* *[==>(Pattern 6)]* *[==>(Pattern 7)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20050905
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Unused Visibility = 181
GS Acq
Exp. 1
Exp. 1
Exp. 1
Exp. 1
Exp. 1
Exp. 1
Exp. 1
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs

Visit

Proposal 10181, Visit 10 Wed Nov 09 02:01:56 GMT 2005

Diagnostic Status: Warning

Scientific Instruments: NIC2

Special Requirements: (none)

Diagnostics

(Visit 10) Warning: GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	Pattern Type=NIC-SPIRAL-DITH	Coordinate Frame=POS-TARG		(1)
	Purpose=DITHER	Pattern Orientation=0		
	Number Of Points=5	Angle Between Sides=		
	Point Spacing=1	Center Pattern=false		
	Line Spacing=			

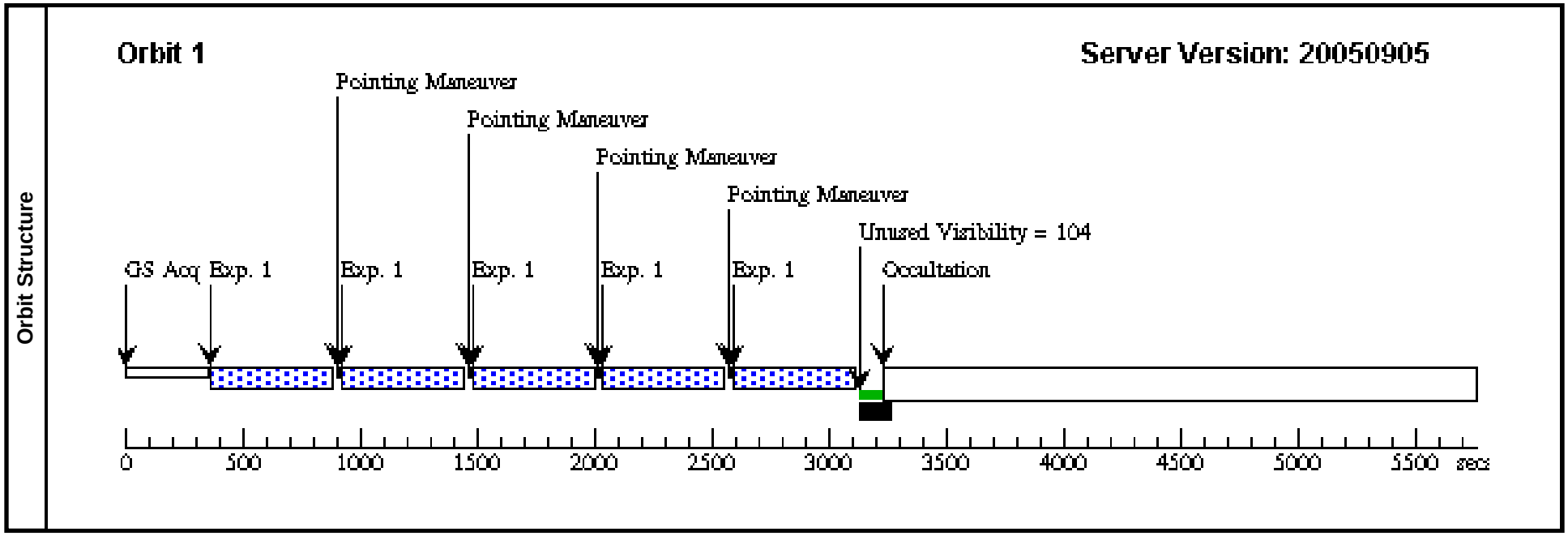
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	SDSSJ143223.10-000116.4	RA: 14 32 23.0500 (218.0960417d) Dec: -00 01 17.32 (-.02148d) Equinox: J2000 Plate Id: 00H1	Redshift: 2.47	V=20.76+/-0.1 g = 21.129, r = 20.514, i = 20.115, J = 18.55, J-K = 1.90	Coordinate Source: GSC_SURVEY_PLATE

Comments: Object too faint for Moffat fit on GSC plate. Coordinates determined by centering crosshair in ds9.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	J1432(H)	(4) SDSSJ143223.10-000116.4	NIC2, MULTIACCUM, NIC2	F160W	CAMERA-FOCUS=DEF; SAMP-SEQ=STEP64; NSAMP=16	GS ACQ SCENARIO BASE1NDS	Pattern 1-1 (2)	*[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]* *[==>(Pattern 5)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20050905
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Unused Visibility = 104
GS Acq
Exp. 1
Exp. 1
Exp. 1
Exp. 1
Exp. 1
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 10181, Visit 11 Wed Nov 09 02:01:57 GMT 2005

Diagnostic Status: Warning

Scientific Instruments: NIC2

Special Requirements: (none)

Diagnostics

(Visit 11) Warning: GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	Pattern Type=NIC-SPIRAL-DITH	Coordinate Frame=POS-TARG		(1)
	Purpose=DITHER	Pattern Orientation=0		
	Number Of Points=5	Angle Between Sides=		
	Point Spacing=1	Center Pattern=false		
	Line Spacing=			

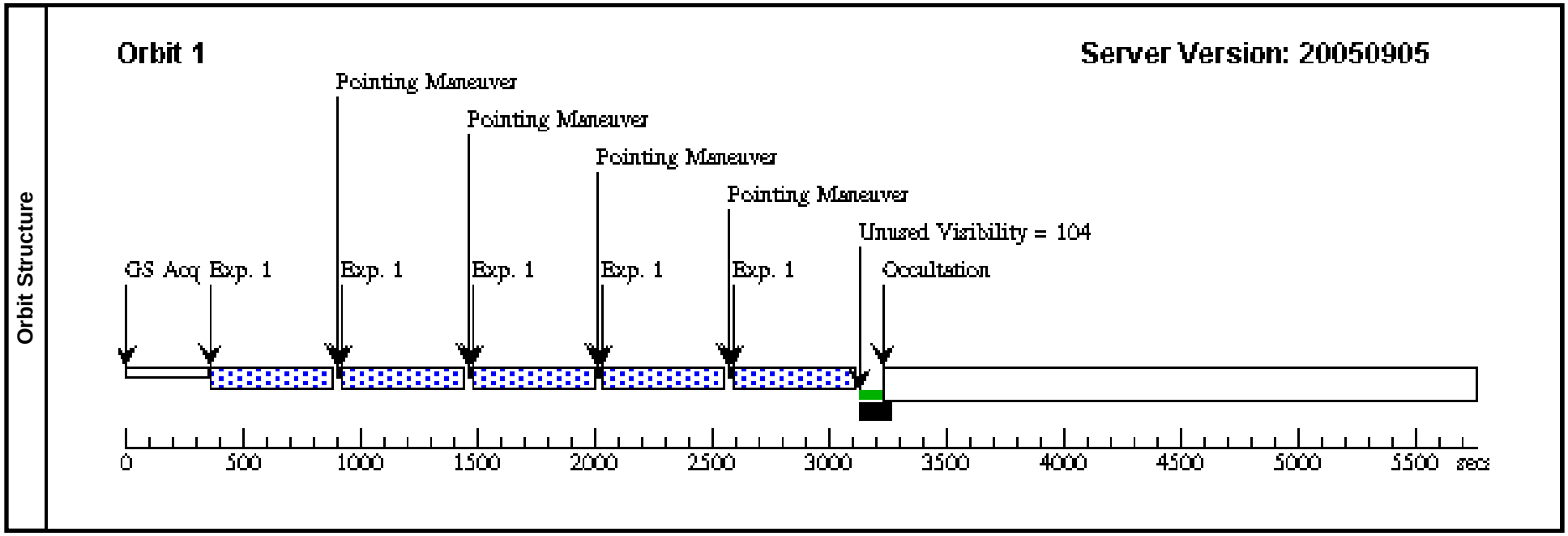
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	SDSSJ144424.55+013457.0	RA: 14 44 24.5100 (221.1021250d) Dec: +01 34 57.05 (1.58251d) Equinox: J2000 Plate Id: 00WN	Redshift: 2.66	V=20.76+/-0.1 g = 21.132, r = 20.510, i =20.077, J = 17.59, J-K = 1.07	Coordinate Source: GSC_SURVEY_PLATE

Comments: Object too faint for Moffat fit on GSC plate. Coordinates determined by centering crosshair in ds9.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	J1444(H)	(5) SDSSJ144424.55 +013457.0	NIC2, MULTIACCUM, NIC2	F160W	CAMERA-FOCUS= DEF; SAMP-SEQ=STEP64; NSAMP=16	GS ACQ SCENARIO BASE1NDS	Pattern 1-1 (2)	*[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]* *[==>(Pattern 5)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20050905
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Unused Visibility = 104
GS Acq
Exp. 1
Exp. 1
Exp. 1
Exp. 1
Exp. 1
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 10181, Visit 12 Wed Nov 09 02:01:57 GMT 2005

Diagnostic Status: Warning

Scientific Instruments: NIC2

Special Requirements: (none)

Diagnostics

(Visit 12) Warning: GS ACQ SCENARIO REQUESTED INCONSISTENT WITH VISIT GYRO MODE

Patterns

#	Primary Pattern		Secondary Pattern	Exposures
(2)	Pattern Type=NIC-SPIRAL-DITH	Coordinate Frame=POS-TARG		(1)
	Purpose=DITHER	Pattern Orientation=0		
	Number Of Points=5	Angle Between Sides=		
	Point Spacing=1	Center Pattern=false		
	Line Spacing=			

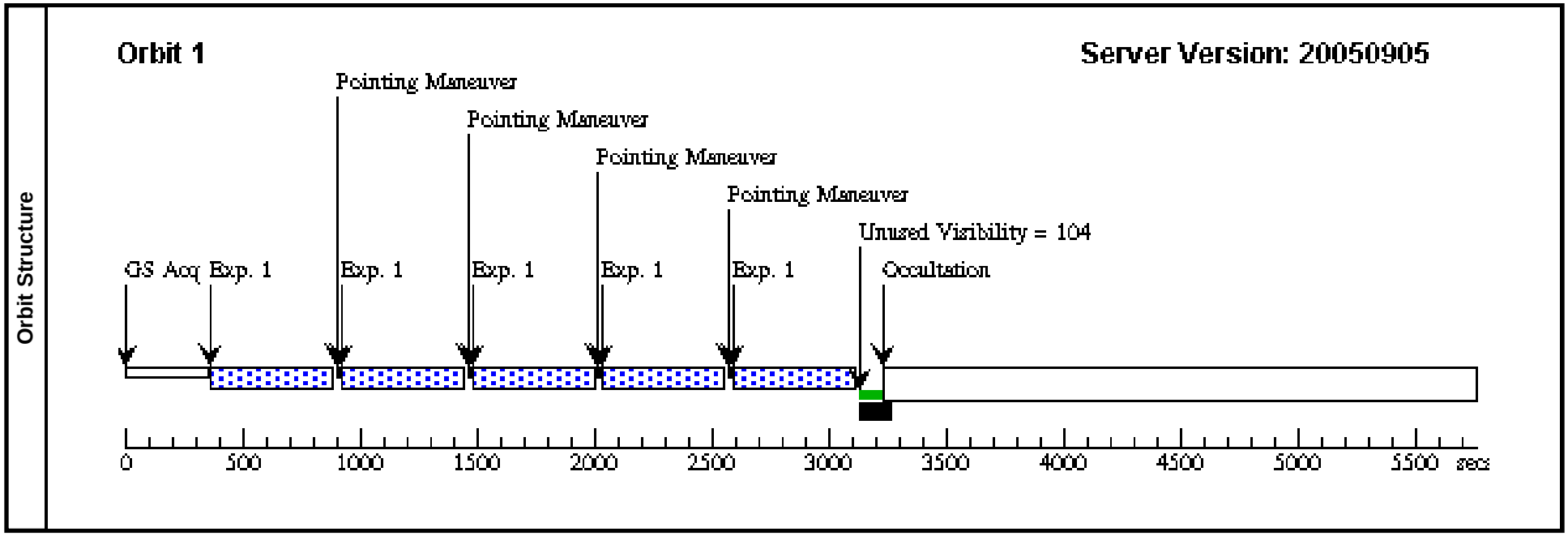
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	SDSSJ155359.96+005641.3	RA: 15 53 59.9700 (238.4998750d) Dec: +00 56 40.60 (.94461d) Equinox: J2000 Plate Id: 0082	Redshift: 2.63	V=20.43+/-0.1 g = 20.761, r = 20.199, i = 19.676, J = 18.11, J-K = 1.86	Coordinate Source: GUIDE_STAR_CATALOG

Comments: Object too faint for Moffat fit on GSC plate. Coordinates determined by centering crosshair in ds9.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	J1553(H)	(6) SDSSJ155359.96+005641.3	NIC2, MULTIACCUM, NIC2	F160W	CAMERA-FOCUS=DEF; SAMP-SEQ=STEP64; NSAMP=16	GS ACQ SCENARIO BASE1NDS	Pattern 1-1 (2)	*[==>(Pattern 1)]* *[==>(Pattern 2)]* *[==>(Pattern 3)]* *[==>(Pattern 4)]* *[==>(Pattern 5)]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20050905
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Unused Visibility = 104
GS Acq
Exp. 1
Exp. 1
Exp. 1
Exp. 1
Exp. 1
Occultation
0
500
1000
1500
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3000
3500
4000
4500
5000
5500
sec