



13513 - A Pilot Search for Spatially Offset AGN in Galaxy Merger Remnants

Cycle: 21, 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) SDSS-J134640.79+522836.6	WFC3/IR WFC3/UVIS	1	20-Nov-2013 21:01:17.0	yes
02	(2) SDSS-J013258.92-102707.0	WFC3/IR WFC3/UVIS	1	20-Nov-2013 21:01:29.0	yes
03	(9) SDSS-J165430.72+194615.5	WFC3/IR WFC3/UVIS	1	20-Nov-2013 21:01:39.0	yes
04	(4) SDSS-J083902.97+470756.3	WFC3/IR WFC3/UVIS	1	20-Nov-2013 21:01:49.0	yes
05	(5) SDSS-J135429.05+132757.2	WFC3/IR WFC3/UVIS	1	20-Nov-2013 21:01:58.0	yes
06	(10) SDSS-J232328.01+140530.2	WFC3/IR WFC3/UVIS	1	20-Nov-2013 21:02:08.0	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>
07	(7) SDSS-J105553.64+152027.4	WFC3/IR WFC3/UVIS	1	20-Nov-2013 21:02:17.0	yes
08	(11) SDSS-J111729.22+614015.2	WFC3/IR WFC3/UVIS	1	20-Nov-2013 21:02:26.0	yes

8 Total Orbits Used

ABSTRACT

We request Chandra/ACIS-S observations and HST imaging for a pilot study of 8 galaxies whose AGN emission lines are offset in velocity from systemic. These are candidates for offset AGN, which occur when one of the two supermassive black holes in a galaxy merger is active. We have carefully constructed our sample to remove cases where gas kinematics produce the velocity offsets, but Chandra and HST observations are necessary to confirm offset AGN as the AGN that are spatially offset from the primary galaxy centers. With the observations proposed here, we will carry out the first systematic search for offset AGN. We will use the results of this search to study the circumstances for triggering offset AGN, and to inform future searches for offset AGN.

OBSERVING DESCRIPTION

We request 8 HST orbits of WFC3 B, V, and H observations, which will reveal 1) stellar nuclei coincident with the AGN, where the relative brightnesses of the stellar nuclei will constrain the mass ratio of the galaxy merger that produced the offset AGN; 2) spatially extended [O III] 5007 emission suggesting AGN outflows as the source of the velocity offsets; 3) low surface-brightness features such as tidal tails that are signatures of recent merging activity; and 4) host galaxy stellar populations, which may reveal recent star formation triggered by a merger. HST is the only telescope with the ideal wavelength range and spatial resolution to both obtain the colors necessary for stellar population modeling and image small-scale tidal features and ~100 pc offsets of stellar nuclei at our redshift range (the WFC3 IR and UVIS pixel scales are 0.13" and 0.04", which correspond to 180 pc and 50 pc at the median redshift of our targets).

We require multiple filters in order to disentangle, both spectrally and spatially, variations in stellar populations. We bracket the stellar populations with an F438W (B) image that avoids H β emission and is sensitive to young stars and an F160W (broad H) image that will be sensitive to old stellar populations and avoid dust. In between, we use F606W (broad V) to provide a red filter and to image any spatially extended [O III] 5007 emission that may point to outflows as the source of the velocity offsets. WFC3 is the camera of choice, as it will enable us to cover the entire

wavelength range with the highest sensitivity and finest pixel scale.

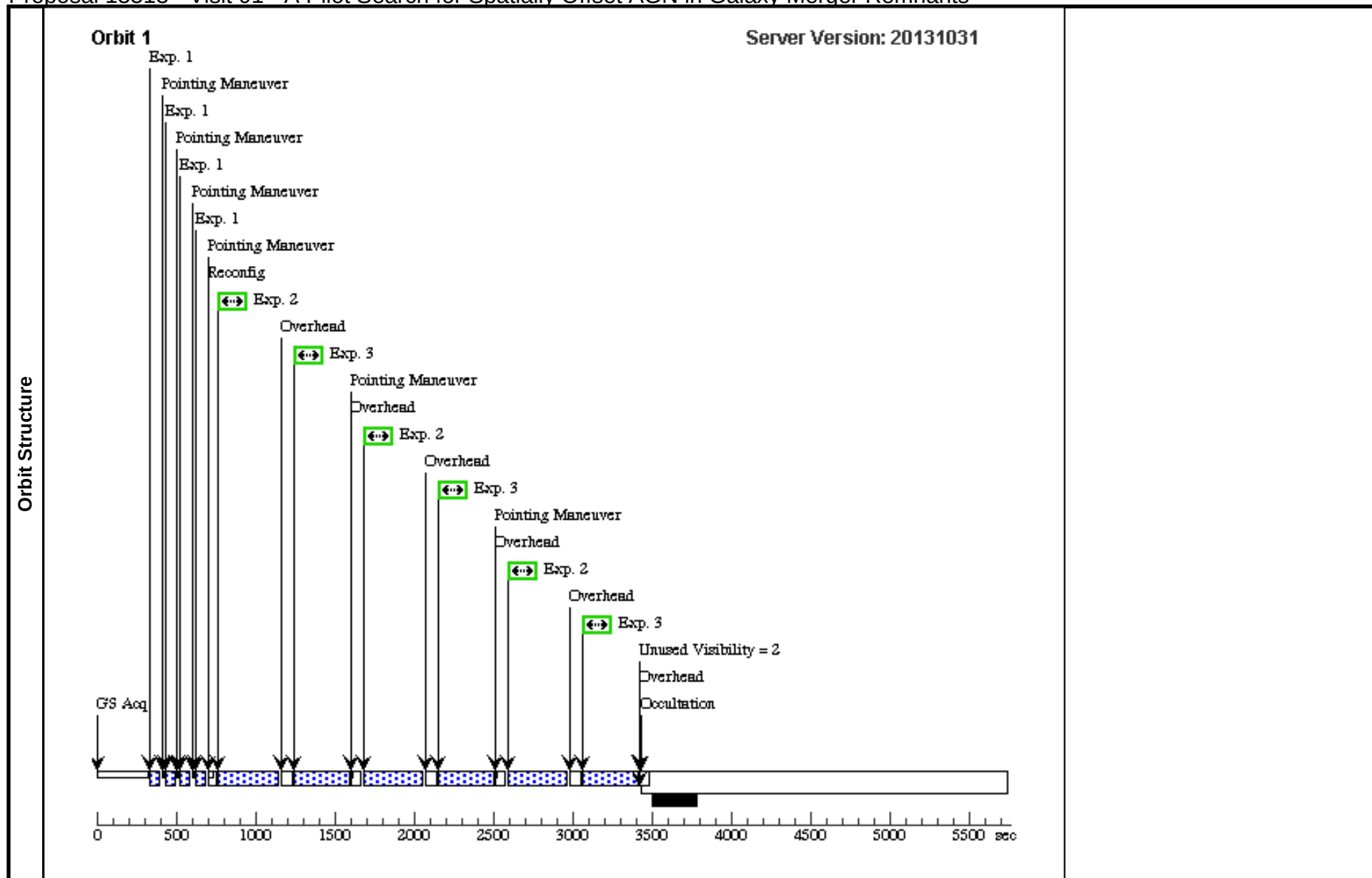
We request one orbit (~51 min) per target, which will provide the exposure times needed to reveal merger-remnant signatures of the host galaxies. Using the WFC3 IR and UVIS Exposure Time Calculators, we estimated our science exposure times for the stellar nuclei accompanying the AGN by 1) the assumption that the companion stellar nucleus is two magnitudes fainter than the total primary galaxy (as in Comerford et al. 2009); 2) the assumption that the mass ratio, which is unknown, could be as small as 10:1; and 3) the requirement that each stellar nucleus be detected at a signal-to-noise ratio >20 . These exposure times also ensure signal-to-noise ratios ~ 5 in a 9×9 pixel box for typical host galaxy tidal features with an I_{AB} surface brightness of 24 mag/arcsec^2 (see, e.g., Forbes et al. 2003). They will also enable robust measurements of the host galaxy stellar populations.

The exposure times for each filter are $3 \times 350 \text{ sec}$ for F438W, $3 \times 300 \text{ sec}$ for F606W, and $4 \times 30 \text{ sec}$ for F160W. For each target, there will be 16.5 min of overheads (6 min for guide-star acquisition, 7 min for readout, 2.5 min for dithering, and 1 min to change from IR to UVIS) and the total time spent on science exposures and overheads is 51 min.

In the UVIS, we will use a three-point dither pattern to facilitate cosmic-ray and hot-pixel removal. In the IR, we will use the WFC3-IR-DITHER-BOX in order to properly sample the PSF. We will use subarrays ($1k \times 1k$ for UVIS and IRSUB512 for IR) to avoid buffer dumps, and our readout mode (STEP25 with NSAMP=6) will prevent saturation.

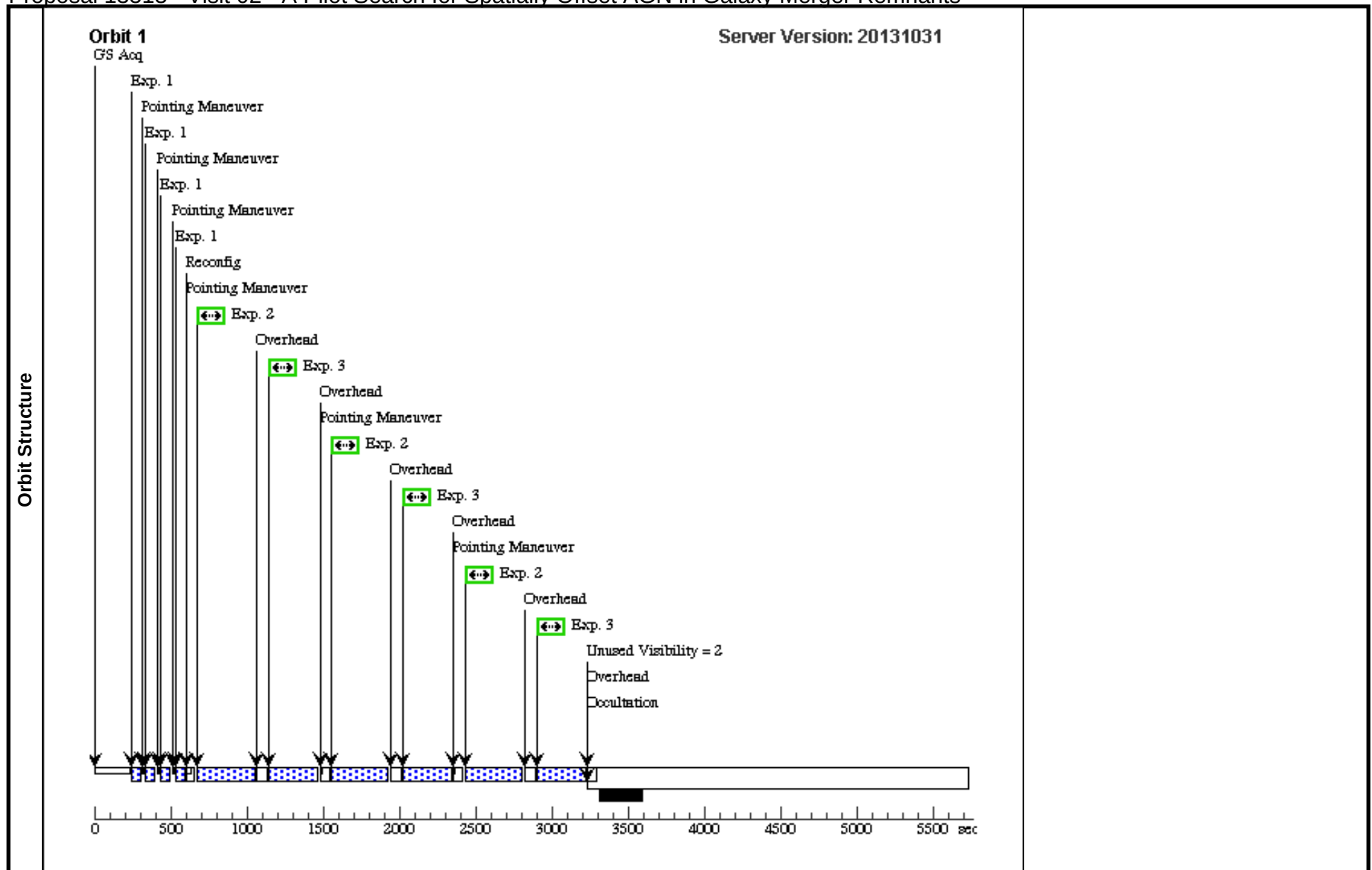
Proposal 13513 - Visit 01 - A Pilot Search for Spatially Offset AGN in Galaxy Merger Remnants

Visit	Proposal 13513, Visit 01, implementation										Thu Nov 21 02:02:35 GMT 2013
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: WFC3/IR, WFC3/UVIS										
	Special Requirements: (none)										
Patterns	#	Primary Pattern					Secondary Pattern				Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false						(2-3)
	(2)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365			Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false						(1)
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(1)	SDSS-J134640.79+522836.6	RA: 13 46 40.8000 (206.6700000d) Dec: +52 28 36.60 (52.47683d) Equinox: J2000				V=14.8		Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	F160W	(1) SDSS-J134640.79+522836.6	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=6; SAMP-SEQ=STEP25		Pattern 2, Exps 1-1 in Visit 01 (2)	36.754642 Secs (147.019 Secs)		
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]
	2	F438W	(1) SDSS-J134640.79+522836.6	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F438W	FLASH=7		Pattern 1, Exps 2-3 in Visit 01 (1)	350 Secs (1050 Secs)		
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]		[1]
	3	F606W	(1) SDSS-J134640.79+522836.6	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F606W			Pattern 1, Exps 2-3 in Visit 01 (1)	332 Secs (996 Secs)		
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]		[1]



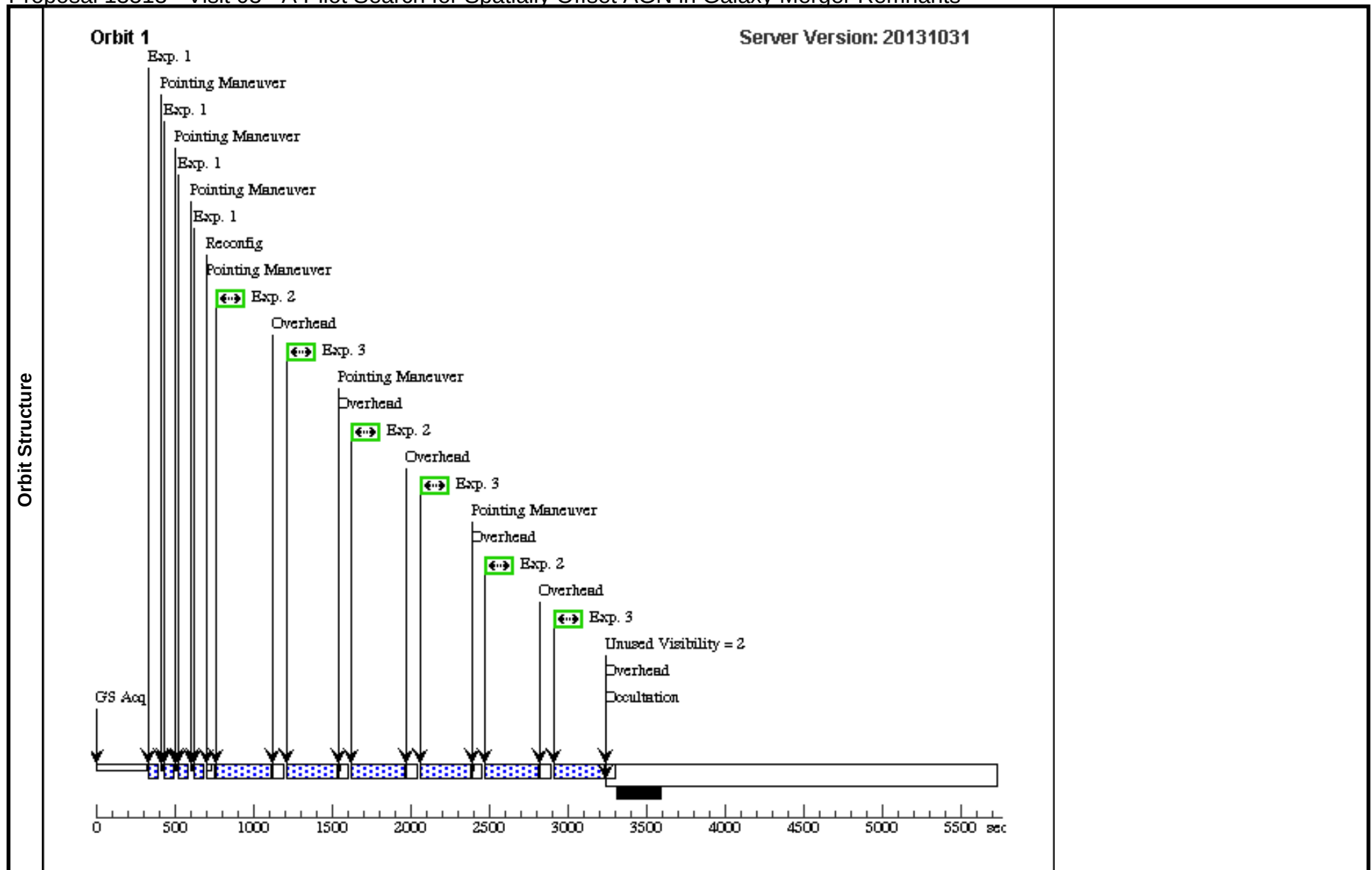
Proposal 13513 - Visit 02 - A Pilot Search for Spatially Offset AGN in Galaxy Merger Remnants

Visit	Proposal 13513, Visit 02, implementation										Thu Nov 21 02:02:37 GMT 2013
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: WFC3/IR, WFC3/UVIS										
	Special Requirements: (none)										
Patterns	#	Primary Pattern					Secondary Pattern				Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing=			Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false						(2-3)
	(2)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365			Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false						(1)
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(2)	SDSS-J013258.92-102707.0	RA: 01 32 58.9000 (23.2454167d) Dec: -10 27 7.00 (-10.45194d) Equinox: J2000				V=14.3		Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	F160W	(2) SDSS-J013258.92-102707.0	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=6; SAMP-SEQ=STEP25	GS ACQ SCENARIO SINGLE	Pattern 2, Exps 1-1 in Visit 02 (2)	36.754642 Secs (147.019 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]
	2	F438W	(2) SDSS-J013258.92-102707.0	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F438W	FLASH=7		Pattern 1, Exps 2-3 in Visit 02 (1)	349 Secs (1047 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]		[1]
	3	F606W	(2) SDSS-J013258.92-102707.0	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F606W			Pattern 1, Exps 2-3 in Visit 02 (1)	300 Secs (900 Secs) [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]		[1]



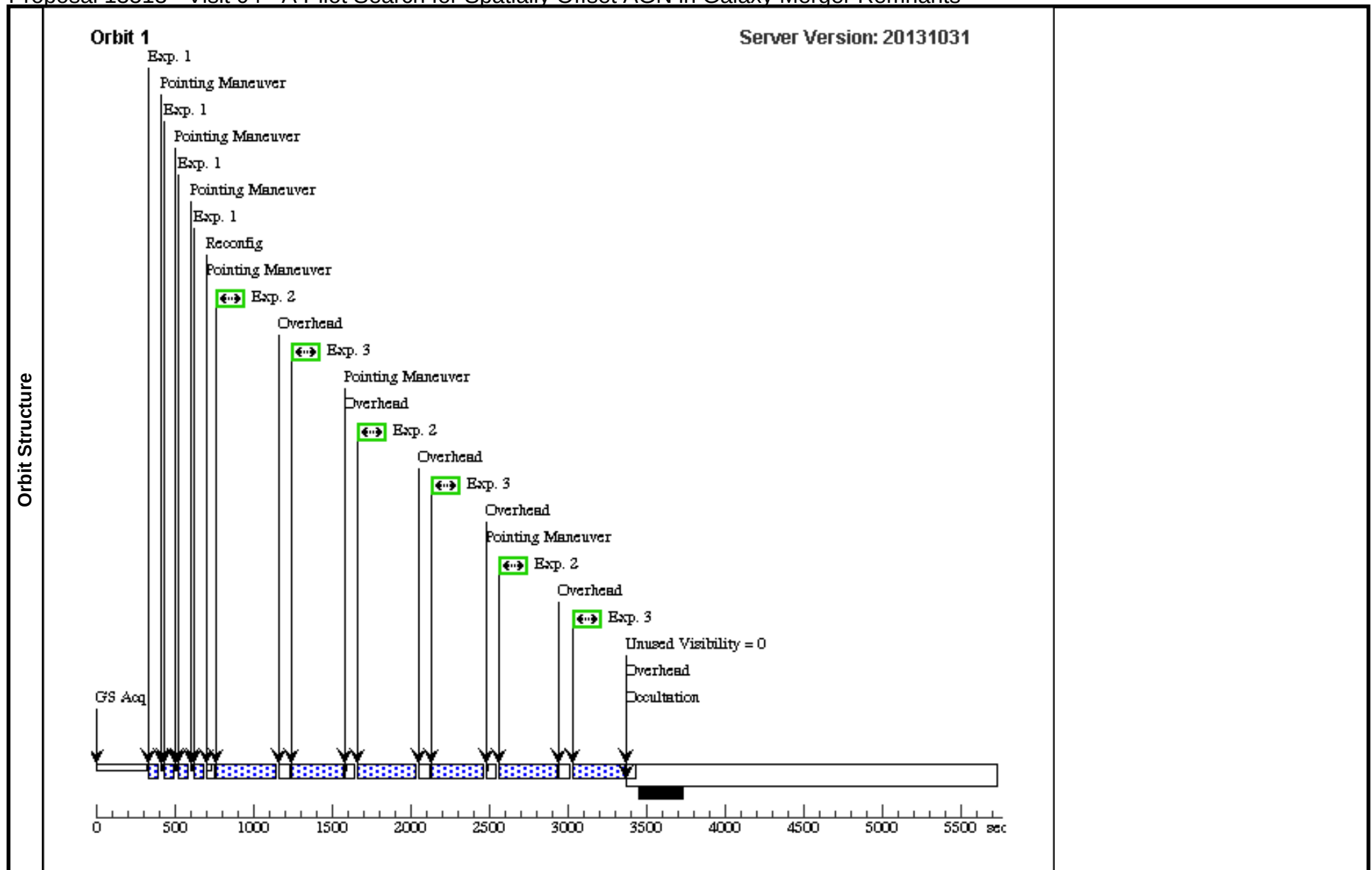
Proposal 13513 - Visit 03 - A Pilot Search for Spatially Offset AGN in Galaxy Merger Remnants

Visit	Proposal 13513, Visit 03, implementation Thu Nov 21 02:02:39 GMT 2013									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing=				Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(2-3)	
	(2)	Pattern Type=WFC3-IR-DITHER- BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365				Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false			(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(9)	SDSS- J165430.72+194615.5	RA: 16 54 30.7200 (253.6280000d) Dec: +19 46 15.50 (19.77097d) Equinox: J2000				V=14.9		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F160W	(9) SDSS-J165430.7 2+194615.5	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=6; SAMP-SEQ=STEP2 5		Pattern 2, Exps 1-1 i n Visit 03 (2)	36.754642 Secs (147.019 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]
	2	F438W	(9) SDSS-J165430.7 2+194615.5	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F438W	FLASH=8		Pattern 1, Exps 2-3 i n Visit 03 (1)	319 Secs (957 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	3	F606W	(9) SDSS-J165430.7 2+194615.5	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F606W			Pattern 1, Exps 2-3 i n Visit 03 (1)	300 Secs (900 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]



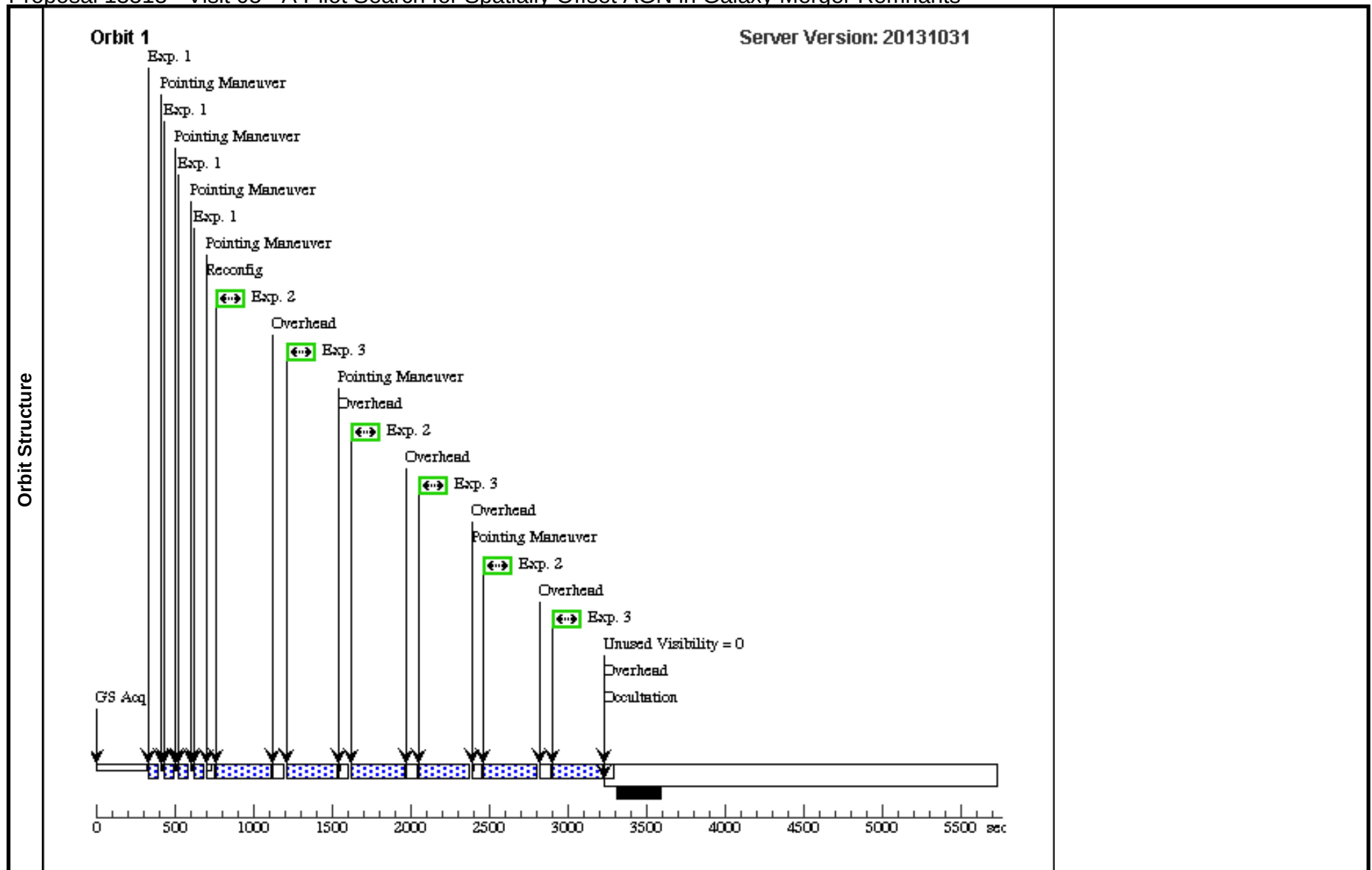
Proposal 13513 - Visit 04 - A Pilot Search for Spatially Offset AGN in Galaxy Merger Remnants

Visit	Proposal 13513, Visit 04, implementation					Thu Nov 21 02:02:40 GMT 2013						
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: WFC3/IR, WFC3/UVIS											
	Special Requirements: (none)											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures		
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false						(2-3)		
	(2)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365		Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false						(1)		
Fixed Targets	#	Name		Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(4)	SDSS-J083902.97+470756.3		RA: 08 39 3.0000 (129.7625000d) Dec: +47 07 56.30 (47.13231d) Equinox: J2000				V=15.8		Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	F160W	(4) SDSS-J083902.97+470756.3	WFC3/IR, MULTIACCUM, IRSUB512		F160W	NSAMP=6; SAMP-SEQ=STEP25		Pattern 2, Exps 1-1 in Visit 04 (2)	36.754642 Secs (147.019 Secs)		
										[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]		[1]
	2	F438W	(4) SDSS-J083902.97+470756.3	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB		F438W	FLASH=7		Pattern 1, Exps 2-3 in Visit 04 (1)	350 Secs (1050 Secs)		
										[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]		[1]
	3	F606W	(4) SDSS-J083902.97+470756.3	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB		F606W			Pattern 1, Exps 2-3 in Visit 04 (1)	315 Secs (945 Secs)		
										[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]		[1]



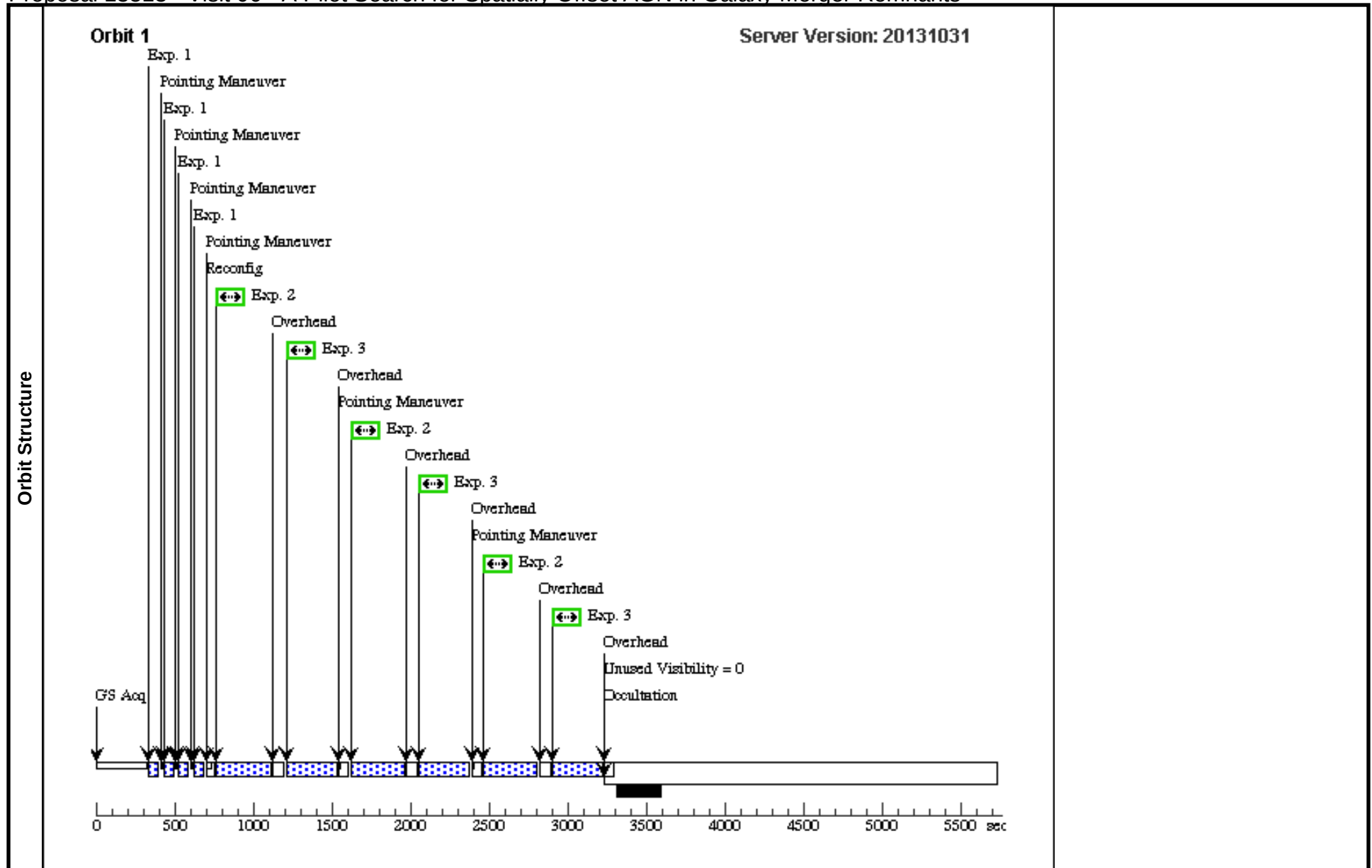
Proposal 13513 - Visit 05 - A Pilot Search for Spatially Offset AGN in Galaxy Merger Remnants

Visit	Proposal 13513, Visit 05, implementation Thu Nov 21 02:02:41 GMT 2013									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing=				Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(2-3)	
	(2)	Pattern Type=WFC3-IR-DITHER- BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365				Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false			(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(5)	SDSS-J135429.05+132757.2	RA: 13 54 29.1000 (208.6212500d) Dec: +13 27 57.20 (13.46589d) Equinox: J2000				V=17.4		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F160W	(5) SDSS-J135429.05+132757.2	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=6; SAMP-SEQ=STEP2 5		Pattern 2, Exps 1-1 in Visit 05 (2)	36.754642 Secs (147.019 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]
	2	F438W	(5) SDSS-J135429.05+132757.2	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F438W	FLASH=8		Pattern 1, Exps 2-3 in Visit 05 (1)	318 Secs (954 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	3	F606W	(5) SDSS-J135429.05+132757.2	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F606W			Pattern 1, Exps 2-3 in Visit 05 (1)	300 Secs (900 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]



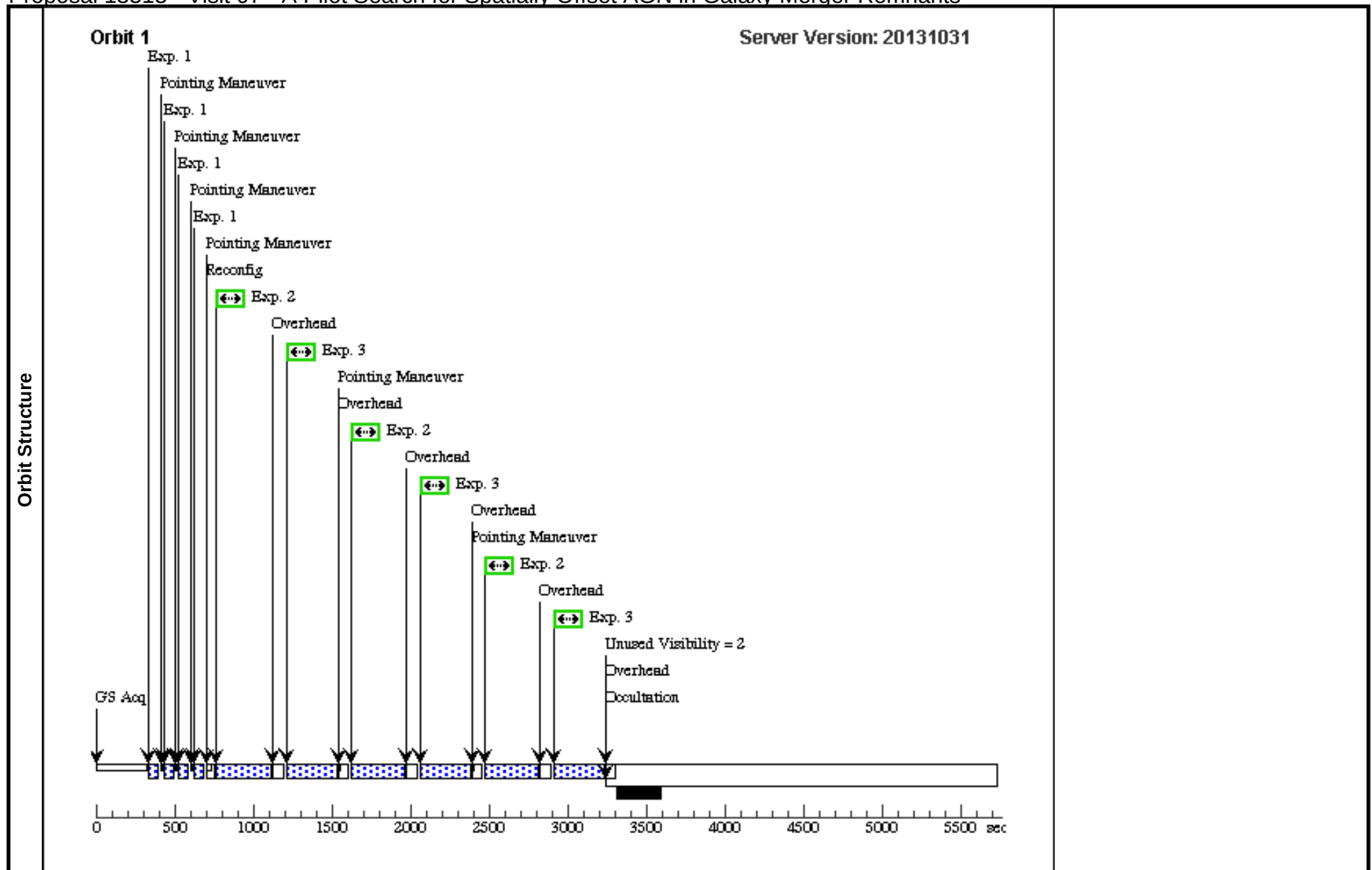
Proposal 13513 - Visit 06 - A Pilot Search for Spatially Offset AGN in Galaxy Merger Remnants

Visit	Proposal 13513, Visit 06, implementation				Thu Nov 21 02:02:42 GMT 2013					
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: WFC3/IR, WFC3/UVIS									
	Special Requirements: (none)									
Patterns	#	Primary Pattern			Secondary Pattern			Exposures		
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false				(2-3)		
	(2)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365		Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false				(1)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	SDSS-J232328.01+140530.2	RA: 23 23 28.0100 (350.8667083d) Dec: +14 05 30.20 (14.09172d) Equinox: J2000		V=16.5	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F160W	(10) SDSS-J232328.01+140530.2	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=6; SAMP-SEQ=STEP25		Pattern 2, Exps 1-1 in Visit 06 (2)	36.754642 Secs (147.019 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2	F438W	(10) SDSS-J232328.01+140530.2	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F438W	FLASH=8		Pattern 1, Exps 2-3 in Visit 06 (1)	318 Secs (954 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]
	3	F606W	(10) SDSS-J232328.01+140530.2	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F606W			Pattern 1, Exps 2-3 in Visit 06 (1)	300 Secs (900 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)]	[1]



Proposal 13513 - Visit 07 - A Pilot Search for Spatially Offset AGN in Galaxy Merger Remnants

Visit	Proposal 13513, Visit 07, implementation Thu Nov 21 02:02:43 GMT 2013									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing=				Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(2-3)	
	(2)	Pattern Type=WFC3-IR-DITHER- BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365				Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false			(1)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(7)	SDSS-J105553.64+152027.4	RA: 10 55 53.6000 (163.9733333d) Dec: +15 20 27.40 (15.34094d) Equinox: J2000				V=15.9		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F160W	(7) SDSS-J105553.64+152027.4	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=6; SAMP-SEQ=STEP2 5		Pattern 2, Exps 1-1 in Visit 07 (2)	36.754642 Secs (147.019 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]
	2	F438W	(7) SDSS-J105553.64+152027.4	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F438W	FLASH=8		Pattern 1, Exps 2-3 in Visit 07 (1)	319 Secs (957 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	3	F606W	(7) SDSS-J105553.64+152027.4	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F606W			Pattern 1, Exps 2-3 in Visit 07 (1)	300 Secs (900 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]



Proposal 13513 - Visit 08 - A Pilot Search for Spatially Offset AGN in Galaxy Merger Remnants

Visit	Proposal 13513, Visit 08, implementation Thu Nov 21 02:02:44 GMT 2013									
	Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)									
Patterns	#	Primary Pattern				Secondary Pattern				Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing=				Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false				(2-3)
	(2)	Pattern Type=WFC3-IR-DITHER- BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365				Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false				(1)
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(11)	SDSS-J111729.22+614015.2	RA: 11 17 29.2200 (169.3717500d) Dec: +61 40 15.20 (61.67089d) Equinox: J2000				V=16.2		Reference Frame: ICRS	
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F160W	(11) SDSS-J111729.22+614015.2	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=6; SAMP-SEQ=STEP25	GS ACQ SCENARI O BASE1B3	Pattern 2, Exps 1-1 i n Visit 08 (2)	36.754642 Secs (147.019 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]
	2	F438W	(11) SDSS-J111729.22+614015.2	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F438W	FLASH=7		Pattern 1, Exps 2-3 i n Visit 08 (1)	355 Secs (1065 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
	3	F606W	(11) SDSS-J111729.22+614015.2	WFC3/UVIS, ACCUM, UVIS2-M1K1C-SUB	F606W			Pattern 1, Exps 2-3 i n Visit 08 (1)	354 Secs (1062 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]

