



13305 - Do mergers matter? Testing AGN triggering mechanisms from Seyferts to Quasars

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) RASS3970	WFC3/IR	1	27-Aug-2013 21:14:40.0	yes
02	(2) RASS102	WFC3/IR	1	27-Aug-2013 21:14:52.0	yes
03	(3) RASS1345	WFC3/IR	1	27-Aug-2013 21:15:03.0	yes
04	(4) RASS6193	WFC3/IR	1	27-Aug-2013 21:15:12.0	yes
05	(5) RASS194	WFC3/IR	1	27-Aug-2013 21:15:22.0	yes
06	(6) RAS6107	WFC3/IR	1	27-Aug-2013 21:15:32.0	yes
07	(7) RASS4050	WFC3/IR	1	27-Aug-2013 21:15:41.0	yes

Proposal 13305 (STScI Edit Number: 2, Created: Tuesday, August 27, 2013 8:17:58 PM EST) - Overview

<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>
08	(8) RASS126	WFC3/IR	1	27-Aug-2013 21:15:51.0	yes
09	(9) RASS6057	WFC3/IR	1	27-Aug-2013 21:16:04.0	yes
10	(10) RASS236	WFC3/IR	1	27-Aug-2013 21:16:14.0	yes
11	(11) RASS3845	WFC3/IR	1	27-Aug-2013 21:16:23.0	yes
12	(12) RASS6044	WFC3/IR	1	27-Aug-2013 21:16:32.0	yes
13	(13) RASS2019	WFC3/IR	1	27-Aug-2013 21:16:41.0	yes
14	(14) RASS6156	WFC3/IR	1	27-Aug-2013 21:16:51.0	yes
15	(15) RASS5169	WFC3/IR	1	27-Aug-2013 21:17:00.0	yes
16	(16) RASS4339	WFC3/IR	1	27-Aug-2013 21:17:09.0	yes
17	(17) RASS6135	WFC3/IR	1	27-Aug-2013 21:17:18.0	yes
18	(18) RASS6126	WFC3/IR	1	27-Aug-2013 21:17:28.0	yes
19	(19) RASS4406	WFC3/IR	1	27-Aug-2013 21:17:40.0	yes
20	(20) RASS6133	WFC3/IR	1	27-Aug-2013 21:17:50.0	yes

20 Total Orbits Used

ABSTRACT

One of the most important open question in Active Galactic Nuclei (AGN) physics to date is how they are triggered. It is commonly assumed that mergers are the dominant triggering process for luminous quasars, while lower luminosity AGN are triggered by different, less extreme processes. However, evidence that merger triggering sets in at high AGN luminosities is currently lacking. In a recently completed study, we have analyzed the morphologies of low-redshift ($z=0.5-0.7$) AGN in CDFS compared to control using quantitative morphological measures. The study was specifically designed to address the question if the importance of merger triggering rises with AGN luminosity. We found no such trends as well as no enhanced merger features compared to control. However, the AGN luminosities in our current sample do not reach the highest luminosities at which merger triggering is believed to be prevalent, and such data can not be found in the archives. We therefore request WFC3 F160W imaging of 20 bona-fide quasars to expand our current study to quasar luminosity ranges and determine if merger triggering indeed sets in at the high luminosity end of the quasar population. The study is designed as a statistical test of the null hypothesis that mergers do not trigger AGN. In case we can not reject the null hypothesis, this would imply that mergers are not responsible for triggering the vast majority of AGN, posing a serious problem to current

theoretical models of galaxy evolution. However, if we can reject the null hypothesis and do find an enhancement of merger features over control in this sample, our results would finally determine at which AGN luminosity mergers start to matter.

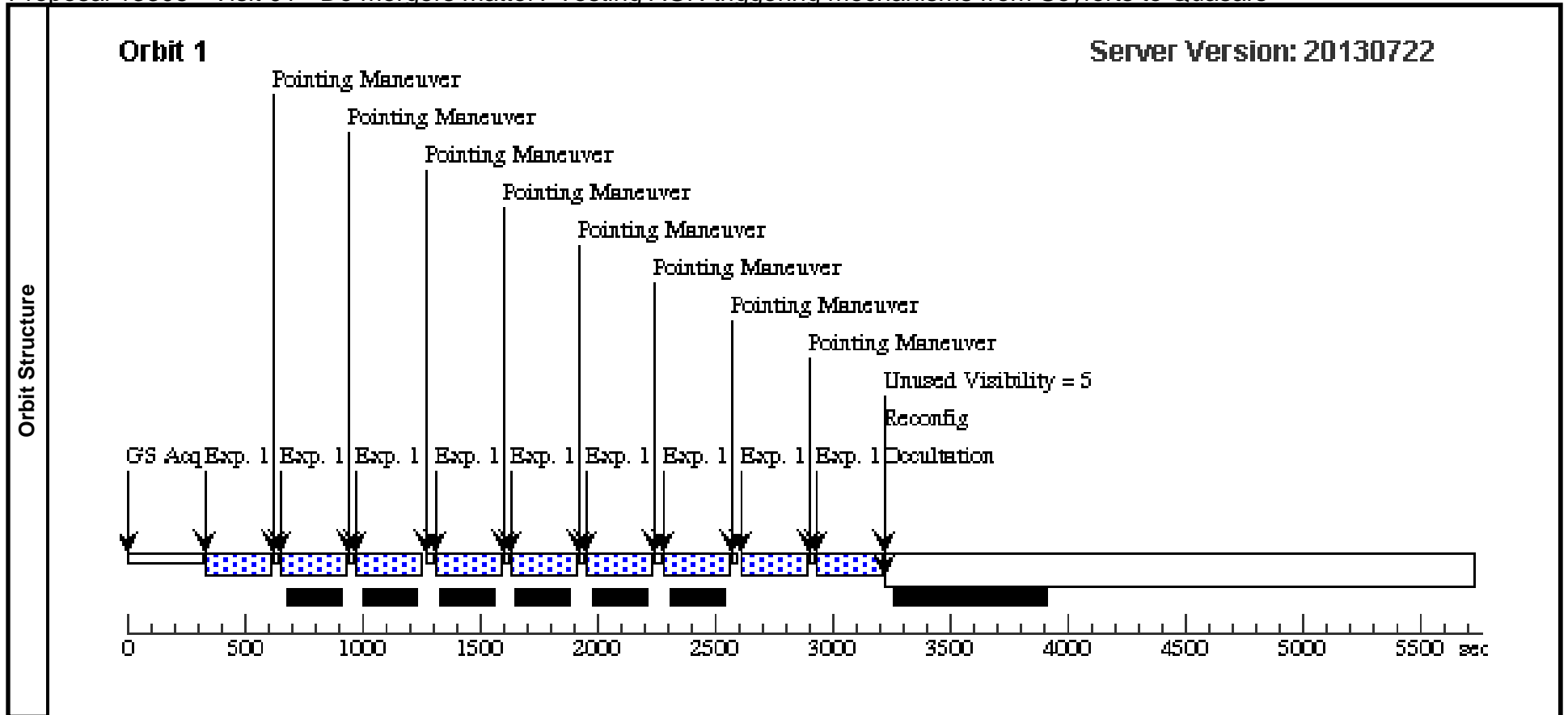
OBSERVING DESCRIPTION

All exposure times were estimated using the online ETC. Imaging data will be used to measure morphology. We aim to resolve typical features of mergers, such as tidal tails with high S/N. At the same time, we have to account for the fact that the central AGN is bright and therefore will saturate and additionally cause persistence in long exposures. We estimate the brightness of the AGN by extrapolating the observed z-band magnitudes for our objects to F160W assuming a power law spectrum with slope -1. This gives us saturation times between 30-250s for objects with z-band magnitudes between 16-19 (AB). Choosing such short exposure times would however cause significant overheads. Therefore, we propose to use the following observing strategy: we will use STEP50 ramp sampling (Chapter 7.7 of the WFC3 instrument handbook) with a total exposure time of ~250s. Such sampling will give us ~3-6 reads before the central point source saturates and a total of 10 samplings per exposure. The first ~6 reads can be used to accurately model the point source, while we can simultaneously achieve good SN in the faint extended features. Since the saturation will cause persistence, we use dither steps large enough to move the hosting galaxy and close environment of the position of the persistence. Since studies of AGN in close pairs indicate that tidal triggering is usually strong for projected separations below 100kpc, we will use dither steps large enough to leave this area unharmed by the persistence. At the redshift of our objects, this corresponds to ~14". A custom 9 point dither pattern is used. Additional subpixel dithering is used to achieve better sampling of the PSF. The object is not centered on the chip but placed on an area with minimal detector defects. With all overheads, this observing strategy yields a net exposure time of ~2200s per orbit, distributed over nine exposures. This setup yields minimal overheads.

Proposal 13305 - Visit 01 - Do mergers matter? Testing AGN triggering mechanisms from Seyferts to Quasars

Wed Aug 28 01:17:59 GMT 2013

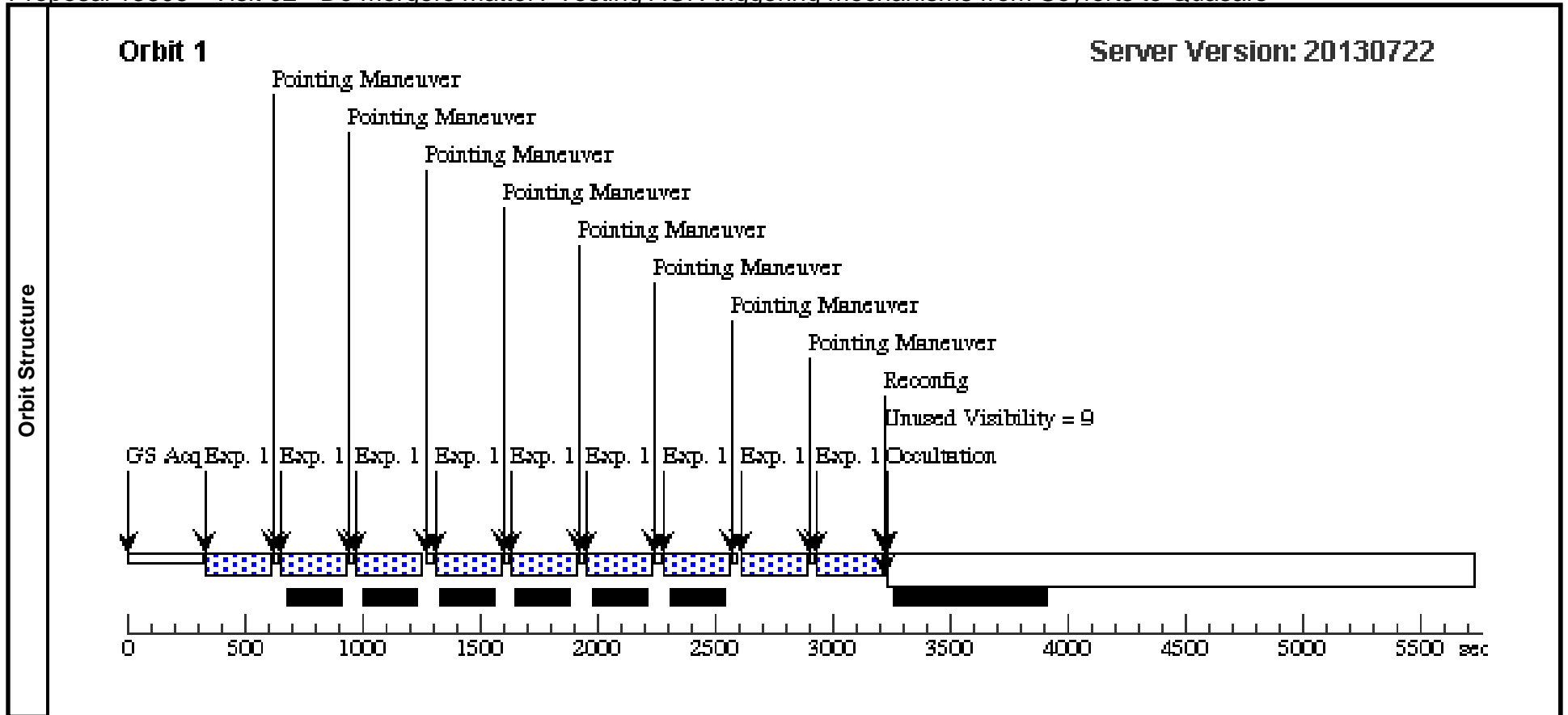
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	RASS3970	RA: 13 49 34.3200 (207.3930000d) Dec: -00 41 2.90 (-.68414d) Equinox: J2000	Redshift: 0.515	V=17.81+/-0.1	Reference Frame: ICRS				
	<i>Comments: Object is variable</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) RASS3970	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=10; SAMP-SEQ=STEP5 0		Pattern 4, Exps 1-1 in Visit 01 (4)	249.23203 Secs (2243.088 Secs)	[1]
									[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 1,3)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 2,3)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 3,3)]	



Proposal 13305 - Visit 02 - Do mergers matter? Testing AGN triggering mechanisms from Seyferts to Quasars

Wed Aug 28 01:18:01 GMT 2013

Visit	Proposal 13305, Visit 02, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	RASS102	RA: 00 57 29.1360 (14.3714000d) Dec: -09 32 58.42 (-9.54956d) Equinox: J2000		V=18.33+/-0.1	Reference Frame: ICRS				
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(2) RASS102	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=10; SAMP-SEQ=STEP5 0		Pattern 4, Exps 1-1 i n Visit 02 (4)	249.23203 Secs (2243.088 Secs)	[1]
									[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 1,3)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 2,3)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 3,3)]	



Proposal 13305 - Visit 03 - Do mergers matter? Testing AGN triggering mechanisms from Seyferts to Quasars

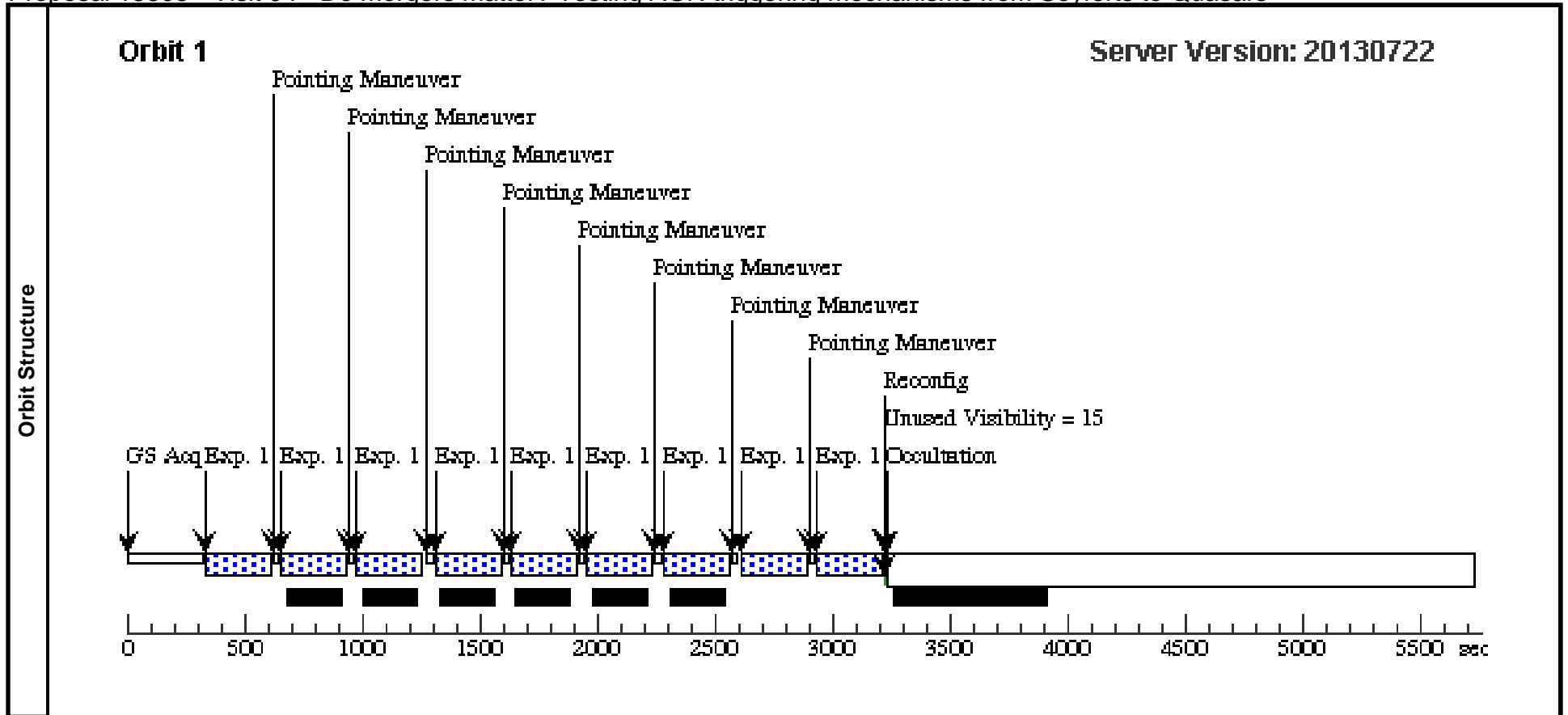
Wed Aug 28 01:18:02 GMT 2013

Visit	Proposal 13305, Visit 03, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	RASS1345	RA: 09 56 25.9200 (149.1080000d) Dec: -00 03 53.10 (-.06475d) Equinox: J2000 <i>Comments: Object is variable</i>	Redshift: 0.513	V=18.63+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) RASS1345	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=10; SAMP-SEQ=STEP5 0			Pattern 4, Exps 1-1 i n Visit 03 (4)	249.23203 Secs (2243.088 Secs) [=>(Pattern 1,1)] [=>(Pattern 1,2)] [=>(Pattern 1,3)] [=>(Pattern 2,1)] [=>(Pattern 2,2)] [=>(Pattern 2,3)] [=>(Pattern 3,1)] [=>(Pattern 3,2)] [=>(Pattern 3,3)]

Proposal 13305 - Visit 04 - Do mergers matter? Testing AGN triggering mechanisms from Seyferts to Quasars

Wed Aug 28 01:18:03 GMT 2013

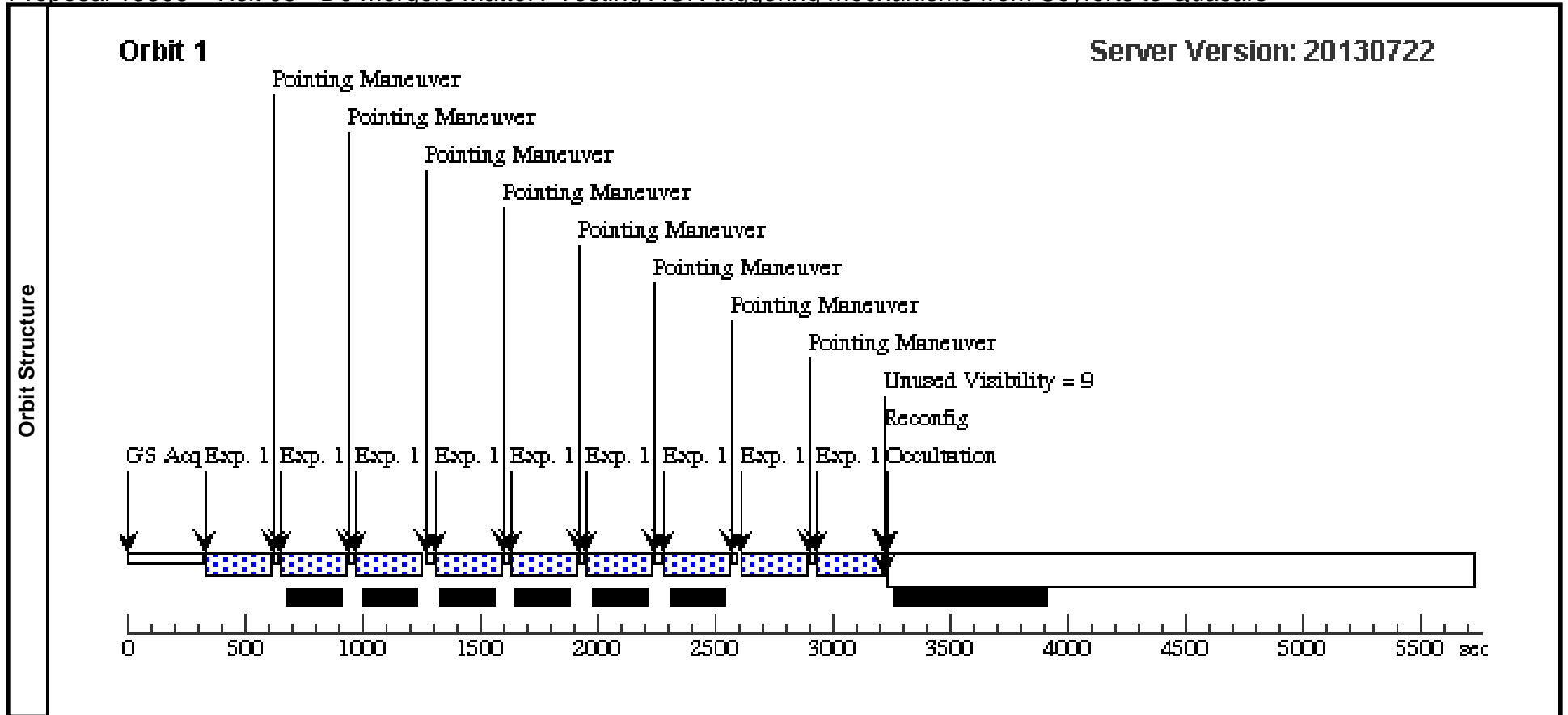
Visit	Proposal 13305, Visit 04, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	RASS6193	RA: 23 31 23.2800 (352.8470000d) Dec: -10 52 13.80 (-10.87050d) Equinox: J2000	Redshift: 0.611	V=19.32+/-0.1	Reference Frame: ICRS				
	<i>Comments: Object is variable</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(4) RASS6193	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=10; SAMP-SEQ=STEP5 0			Pattern 4, Exps 1-1 i n Visit 04 (4)	249.23203 Secs (2243.088 Secs) [==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 1,3)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 2,3)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 3,3)]



Proposal 13305 - Visit 05 - Do mergers matter? Testing AGN triggering mechanisms from Seyferts to Quasars

Wed Aug 28 01:18:04 GMT 2013

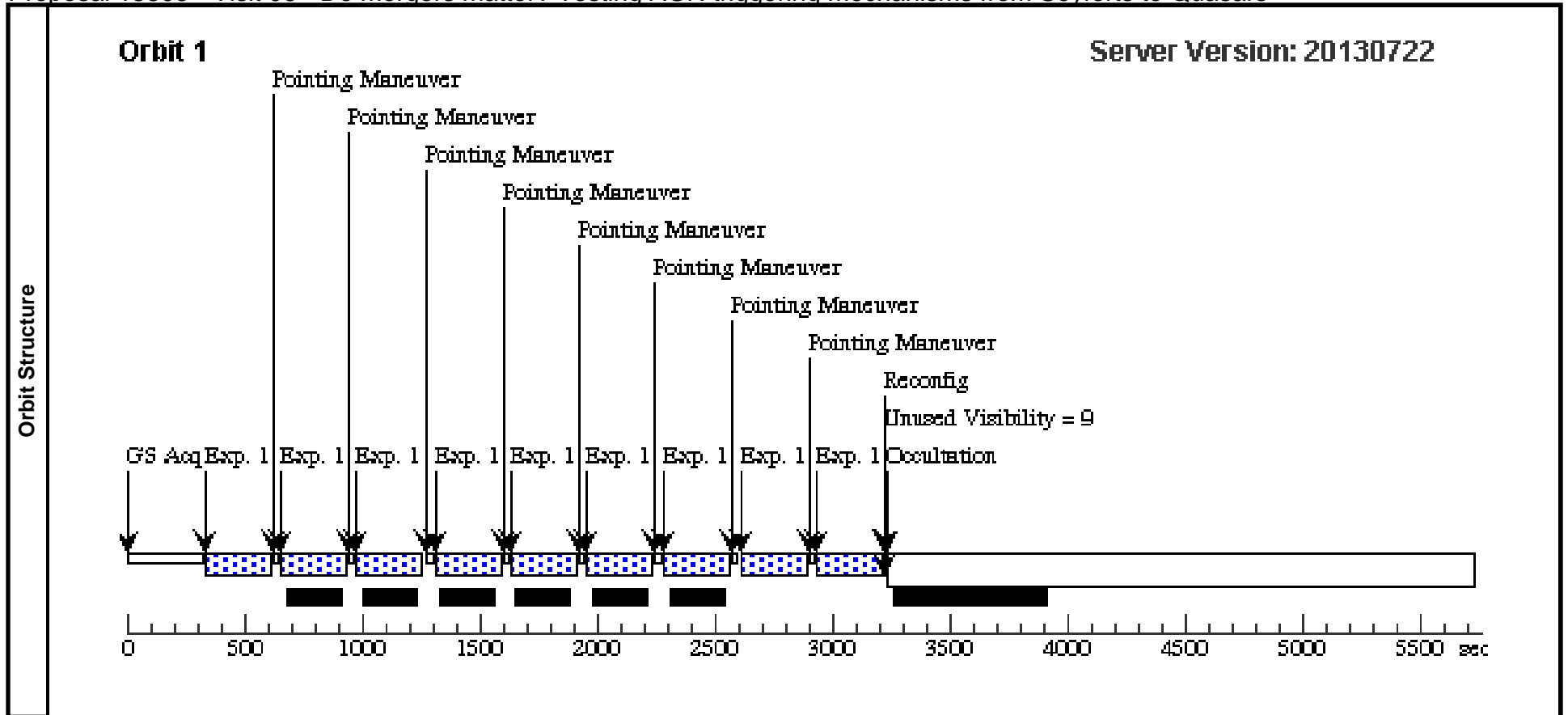
Visit	Proposal 13305, Visit 05, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	RASS194	RA: 02 04 35.1840 (31.1466000d) Dec: -09 31 54.91 (-9.53192d) Equinox: J2000 <i>Comments: Object is variable</i>	Redshift: 0.624	V=18.0+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(5) RASS194	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=10; SAMP-SEQ=STEP5 0			Pattern 4, Exps 1-1 i n Visit 05 (4)	249.23203 Secs (2243.088 Secs) [==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 1,3)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 2,3)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 3,3)]



Proposal 13305 - Visit 06 - Do mergers matter? Testing AGN triggering mechanisms from Seyferts to Quasars

Wed Aug 28 01:18:05 GMT 2013

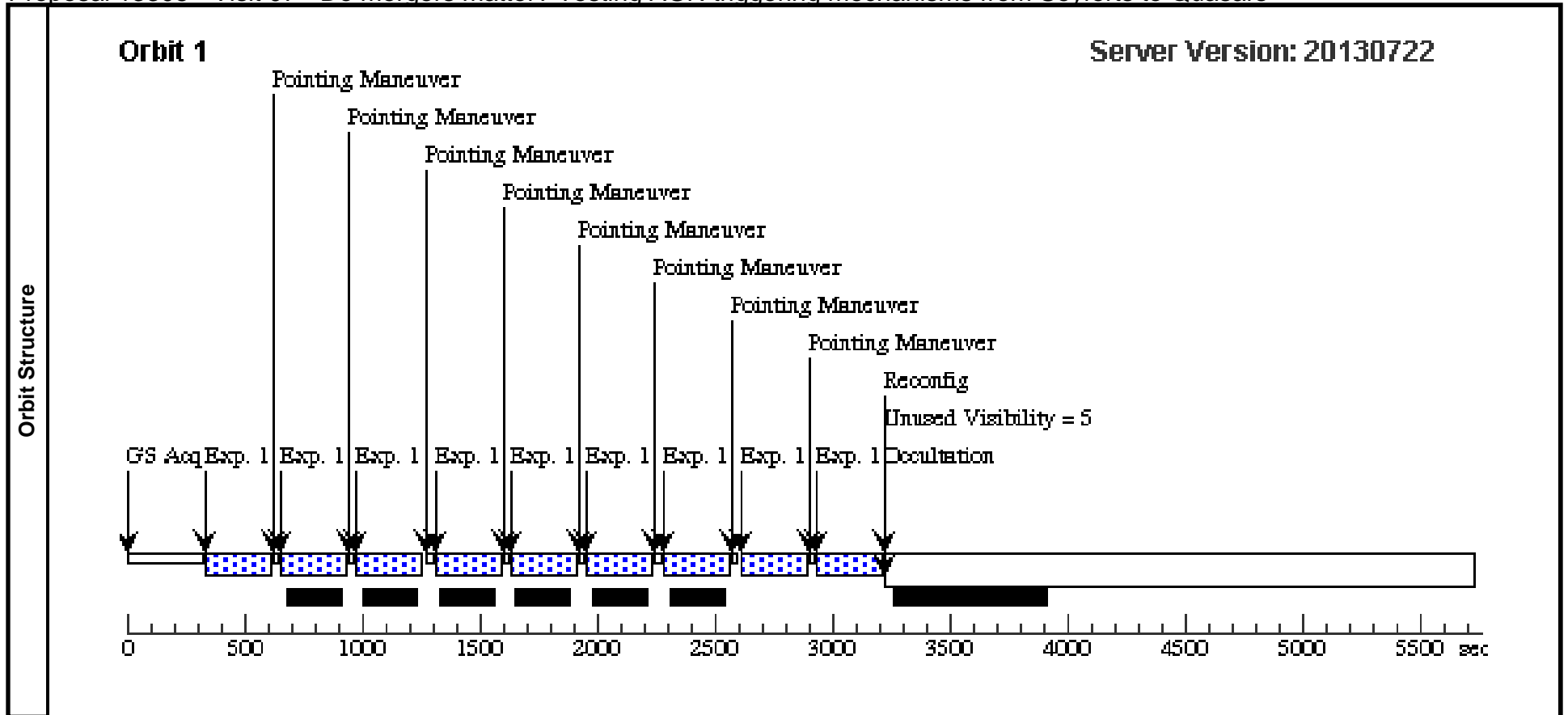
Visit	Proposal 13305, Visit 06, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	RAS6107	RA: 21 50 14.6400 (327.5610000d) Dec: -06 53 14.39 (-6.88733d) Equinox: J2000	Redshift: 0.589	V=16.62+/-0.1	Reference Frame: ICRS				
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(6) RAS6107	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=10; SAMP-SEQ=STEP5 0		Pattern 4, Exps 1-1 i n Visit 06 (4)	249.23203 Secs (2243.088 Secs) [==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 1,3)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 2,3)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 3,3)]	[1]



Proposal 13305 - Visit 07 - Do mergers matter? Testing AGN triggering mechanisms from Seyferts to Quasars

Wed Aug 28 01:18:06 GMT 2013

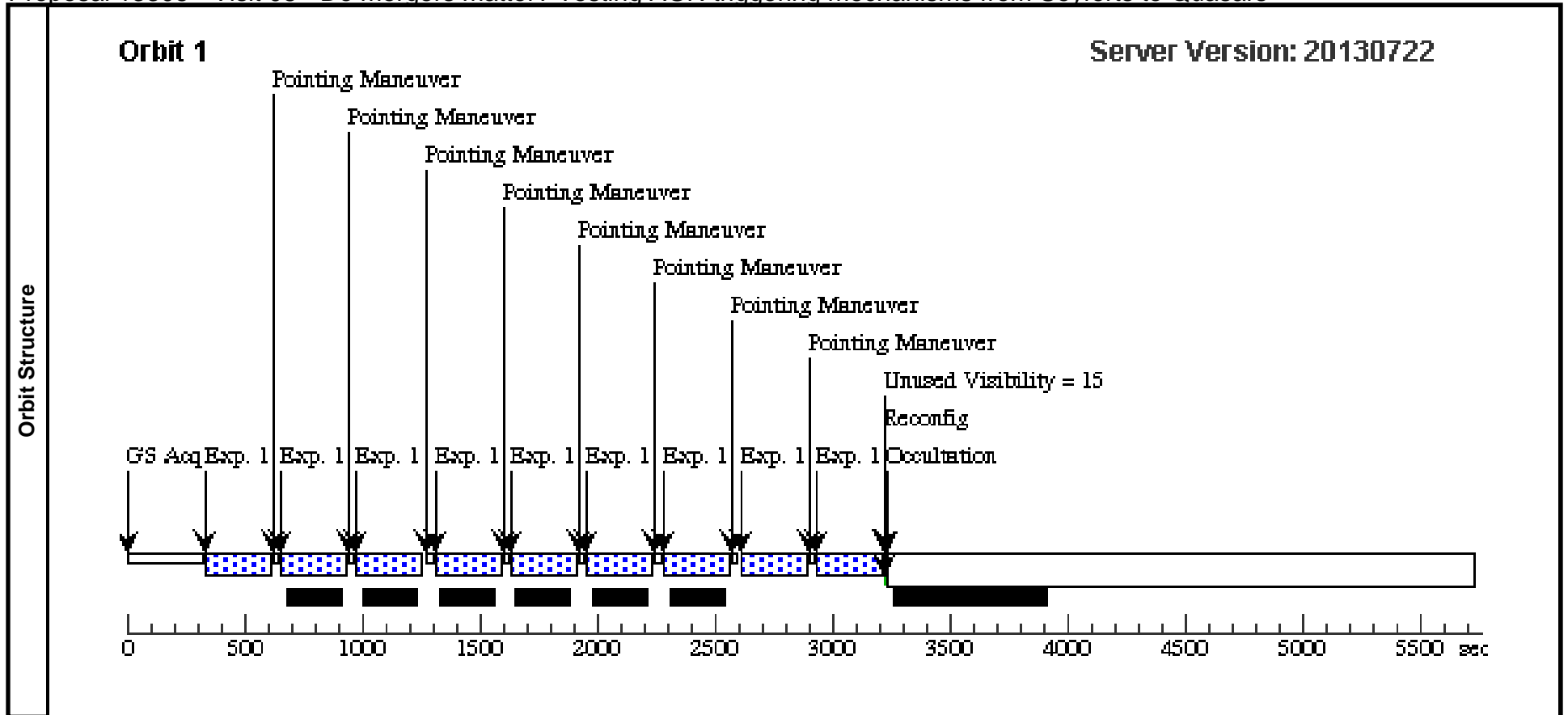
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	RASS4050	RA: 13 57 29.0400 (209.3710000d) Dec: -02 47 37.90 (-2.79386d) Equinox: J2000 <i>Comments: Object is variable</i>	Redshift: 0.6	V=17.28+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(7) RASS4050	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=10; SAMP-SEQ=STEP5 0			Pattern 4, Exps 1-1 i n Visit 07 (4)	249.23203 Secs (2243.088 Secs) [=>(Pattern 1,1)] [=>(Pattern 1,2)] [=>(Pattern 1,3)] [=>(Pattern 2,1)] [=>(Pattern 2,2)] [=>(Pattern 2,3)] [=>(Pattern 3,1)] [=>(Pattern 3,2)] [=>(Pattern 3,3)]



Proposal 13305 - Visit 08 - Do mergers matter? Testing AGN triggering mechanisms from Seyferts to Quasars

Wed Aug 28 01:18:07 GMT 2013

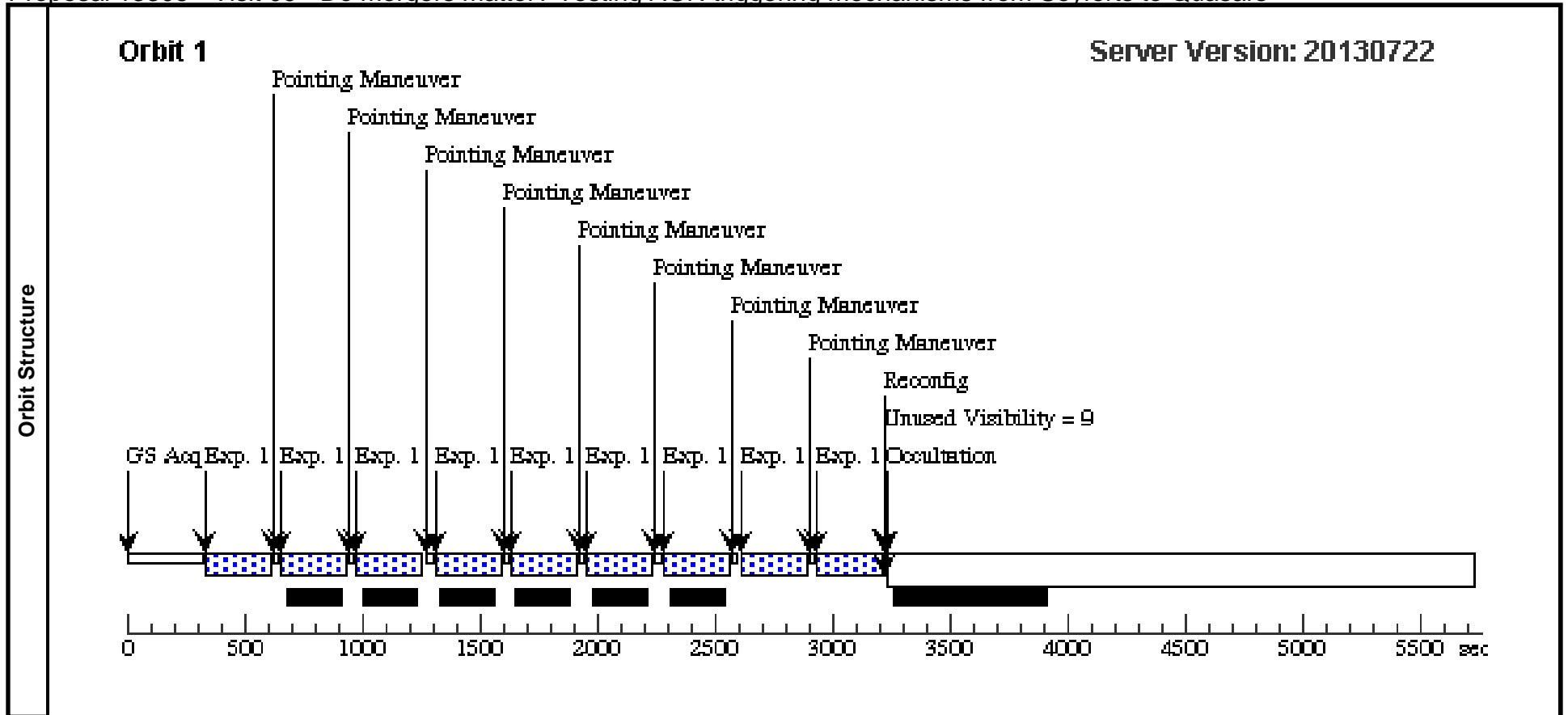
Visit	Proposal 13305, Visit 08, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	RASS126	RA: 01 17 41.8560 (19.4244000d) Dec: -10 47 17.52 (-10.78820d) Equinox: J2000 <i>Comments: Object is variable</i>	Redshift: 0.66	V=17.82+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(8) RASS126	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=10; SAMP-SEQ=STEP5 0		Pattern 4, Exps 1-1 i n Visit 08 (4)	249.23203 Secs (2243.088 Secs)	[1]
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Proposal 13305 - Visit 09 - Do mergers matter? Testing AGN triggering mechanisms from Seyferts to Quasars

Wed Aug 28 01:18:07 GMT 2013

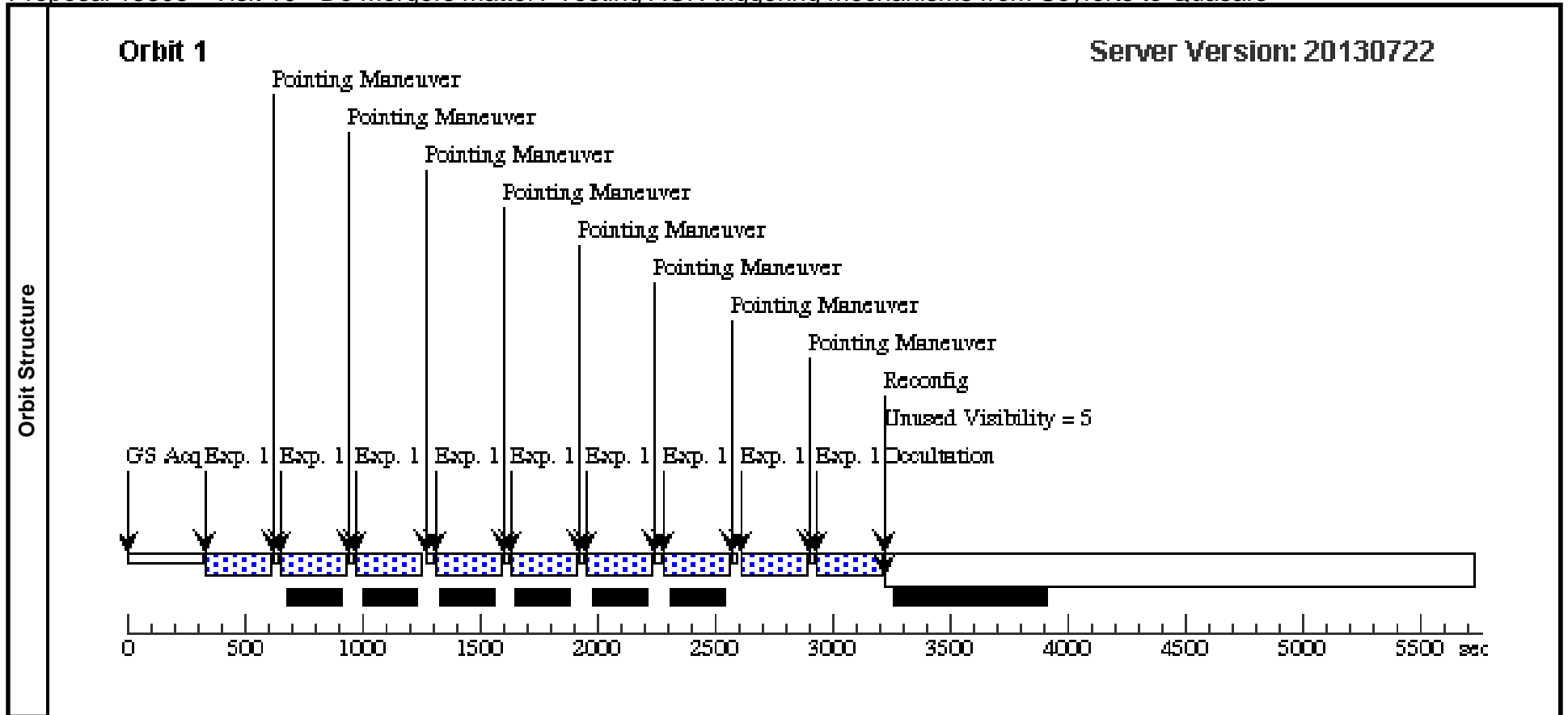
Visit	Proposal 13305, Visit 09, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	RASS6057	RA: 21 00 1.2000 (315.0050000d) Dec: -07 11 36.31 (-7.19342d) Equinox: J2000 <i>Comments: Object is variable</i>	Redshift: 0.6	V=15.32+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(9) RASS6057	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=10; SAMP-SEQ=STEP5 0			Pattern 4, Exps 1-1 in Visit 09 (4)	249.23203 Secs (2243.088 Secs) [==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 1,3)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 2,3)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 3,3)]



Proposal 13305 - Visit 10 - Do mergers matter? Testing AGN triggering mechanisms from Seyferts to Quasars

Wed Aug 28 01:18:08 GMT 2013

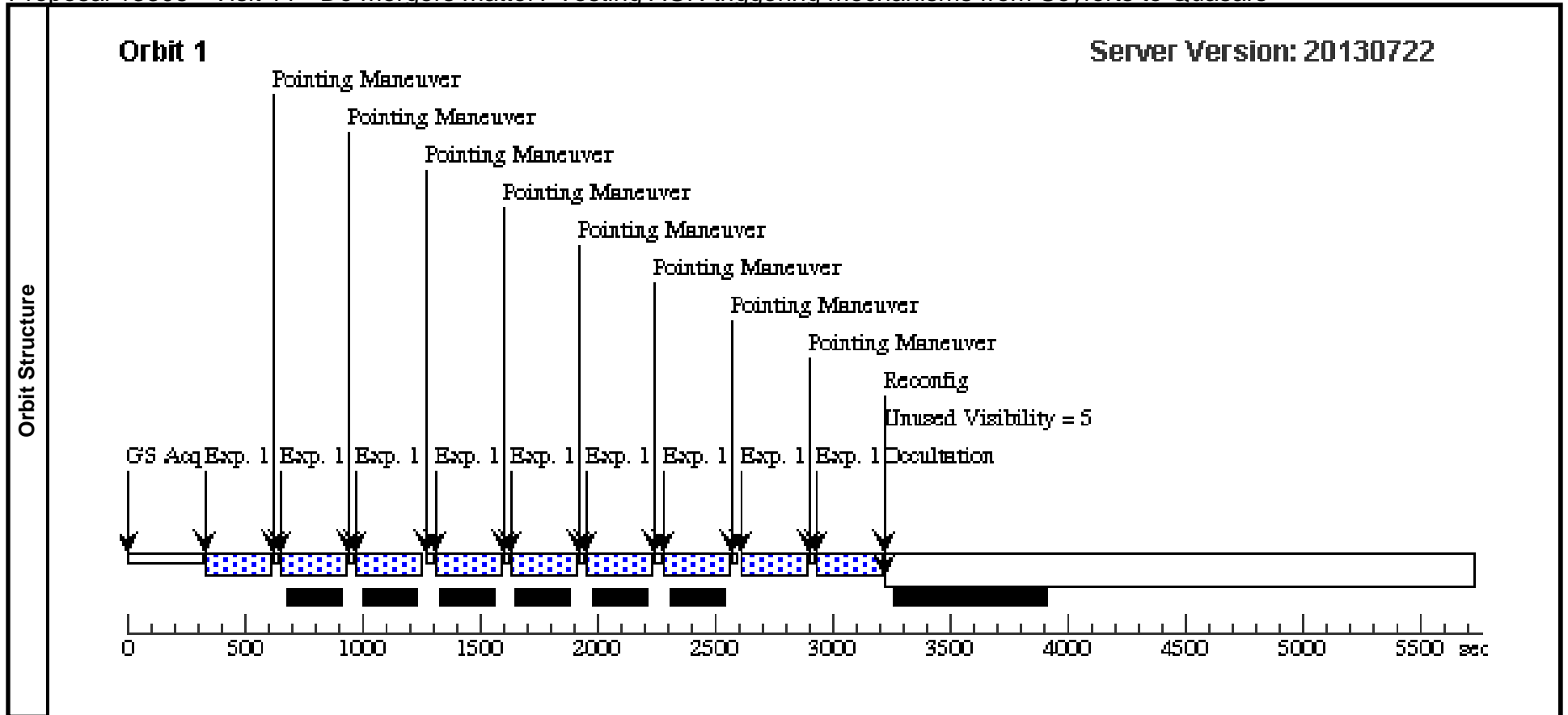
Visit	Proposal 13305, Visit 10, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	RASS236	RA: 03 03 13.0080 (45.8042000d) Dec: -00 14 57.41 (-.24928d) Equinox: J2000 <i>Comments: Object is variable</i>	Redshift: 0.7	V=18.4+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(10) RASS236	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=10; SAMP-SEQ=STEP5 0			Pattern 4, Exps 1-1 i n Visit 10 (4)	249.23203 Secs (2243.088 Secs) [==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 1,3)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 2,3)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 3,3)]



Proposal 13305 - Visit 11 - Do mergers matter? Testing AGN triggering mechanisms from Seyferts to Quasars

Wed Aug 28 01:18:09 GMT 2013

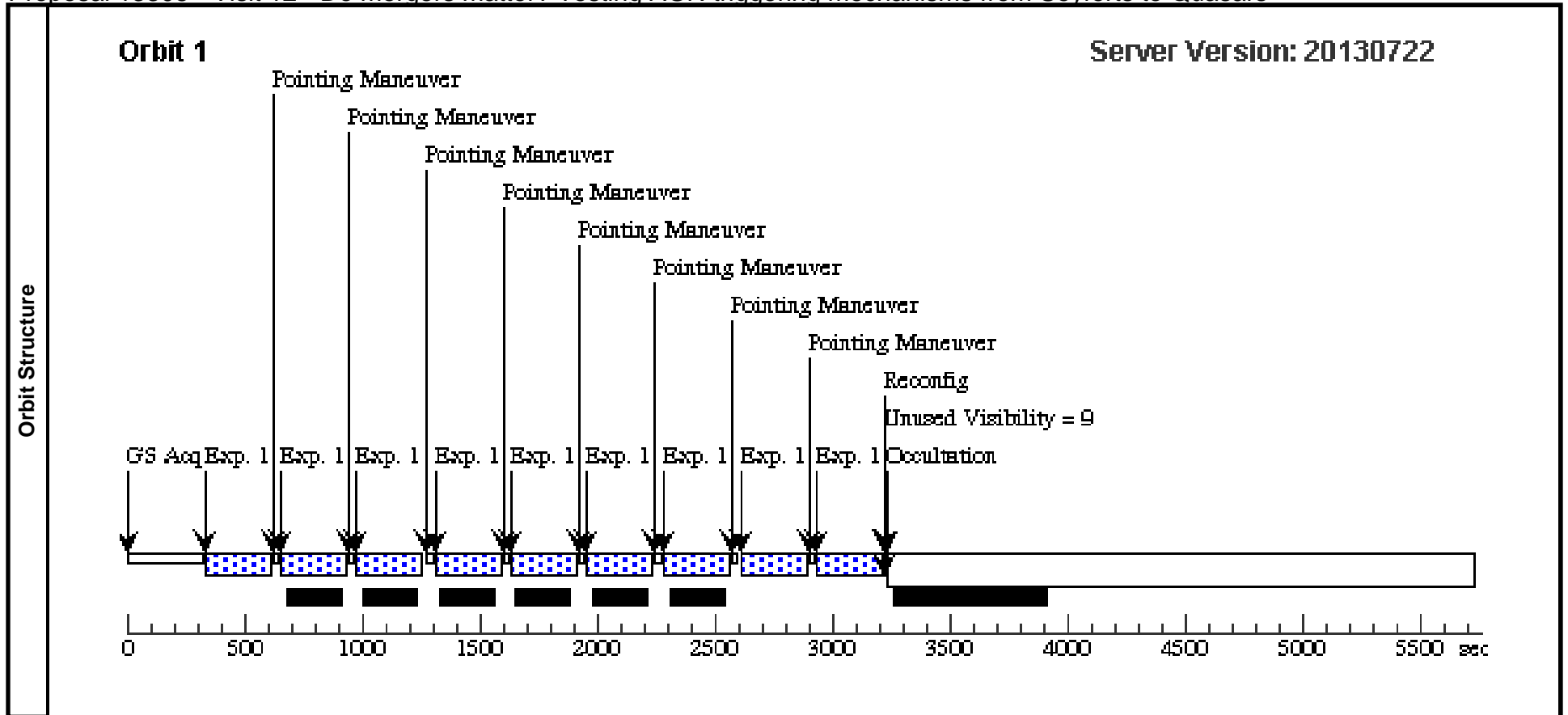
Visit	Proposal 13305, Visit 11, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(4)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=3 Point Spacing=12.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=12.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=131.788 Angle Between Sides= Center Pattern=false	(1)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(11)	RASS3845	RA: 13 40 54.2400 (205.2260000d) Dec: -03 07 50.70 (-3.13075d) Equinox: J2000 <i>Comments: Object is variable</i>	Redshift: 0.533	V=19.52+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(11) RASS3845	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=10; SAMP-SEQ=STEP5 0			Pattern 4, Exps 1-1 i n Visit 11 (4)	249.23203 Secs (2243.088 Secs) [==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 1,3)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 2,3)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 3,3)]



Proposal 13305 - Visit 12 - Do mergers matter? Testing AGN triggering mechanisms from Seyferts to Quasars

Wed Aug 28 01:18:10 GMT 2013

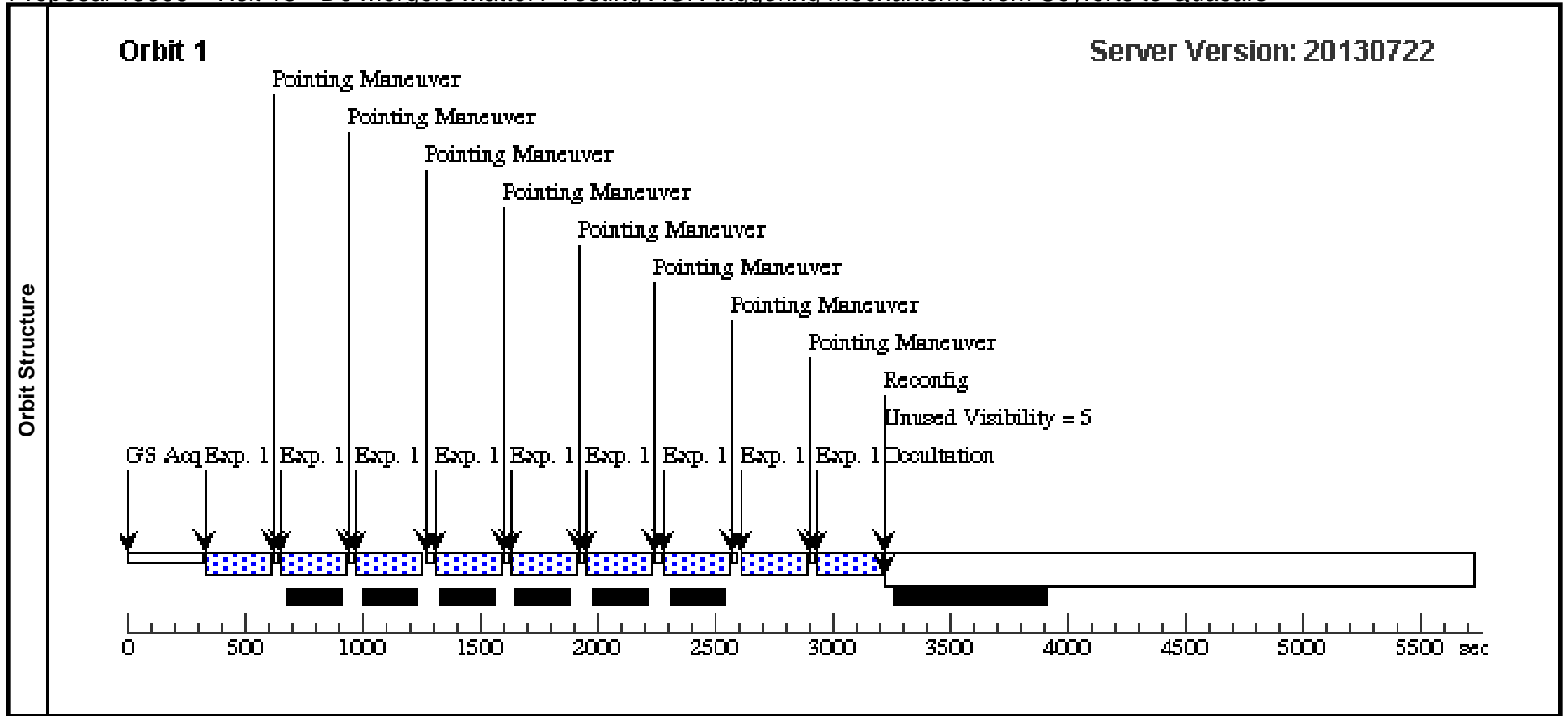
Visit	Proposal 13305, Visit 12, scheduled Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(4)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=3 Point Spacing=12.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=12.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=131.788 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	RASS6044	RA: 20 37 25.2000 (309.3550000d) Dec: -05 37 46.88 (-5.62969d) Equinox: J2000	Redshift: 0.681	V=17.54+/-0.1	Reference Frame: ICRS				
	<i>Comments: Object is variable</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(12) RASS6044	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=10; SAMP-SEQ=STEP5 0		Pattern 4, Exps 1-1 i n Visit 12 (4)	249.23203 Secs (2243.088 Secs) [==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 1,3)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 2,3)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 3,3)]	[1]



Proposal 13305 - Visit 13 - Do mergers matter? Testing AGN triggering mechanisms from Seyferts to Quasars

Wed Aug 28 01:18:10 GMT 2013

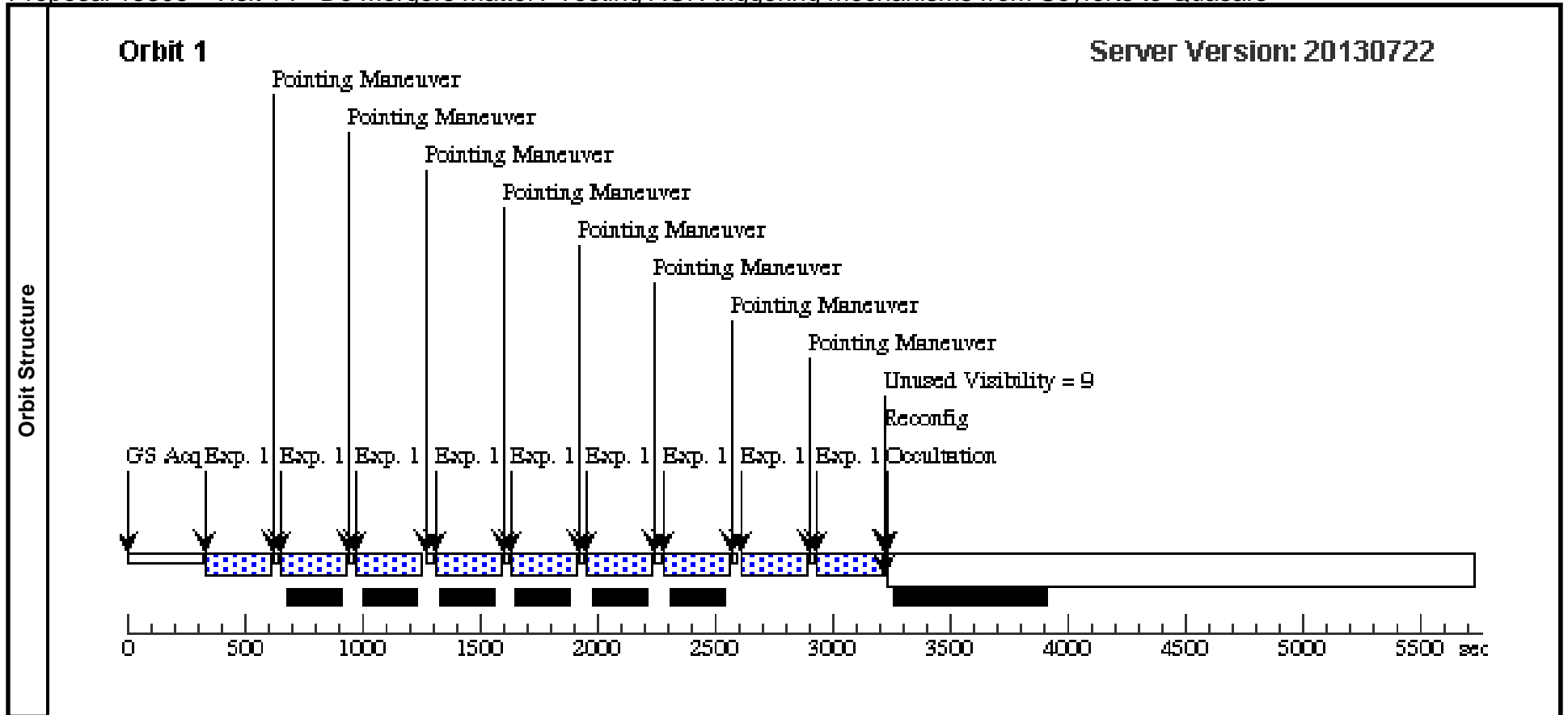
Visit	Proposal 13305, Visit 13, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
Patterns	#	Primary Pattern		Secondary Pattern		Exposures				
	(4)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=3 Point Spacing=12.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=12.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=131.788 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(13)	RASS2019	RA: 10 53 42.2400 (163.4260000d) Dec: -00 14 20.11 (-.23892d) Equinox: J2000 <i>Comments: Object is variable</i>	Redshift: 0.676	V=18.93+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(13) RASS2019		WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=10; SAMP-SEQ=STEP5 0	GS ACQ SCENARI O BASE1B3	Pattern 4, Exps 1-1 i n Visit 13 (4)	249.23203 Secs (2243.088 Secs)	[1]
									[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 1,3)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 2,3)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 3,3)]	



Proposal 13305 - Visit 14 - Do mergers matter? Testing AGN triggering mechanisms from Seyferts to Quasars

Wed Aug 28 01:18:11 GMT 2013

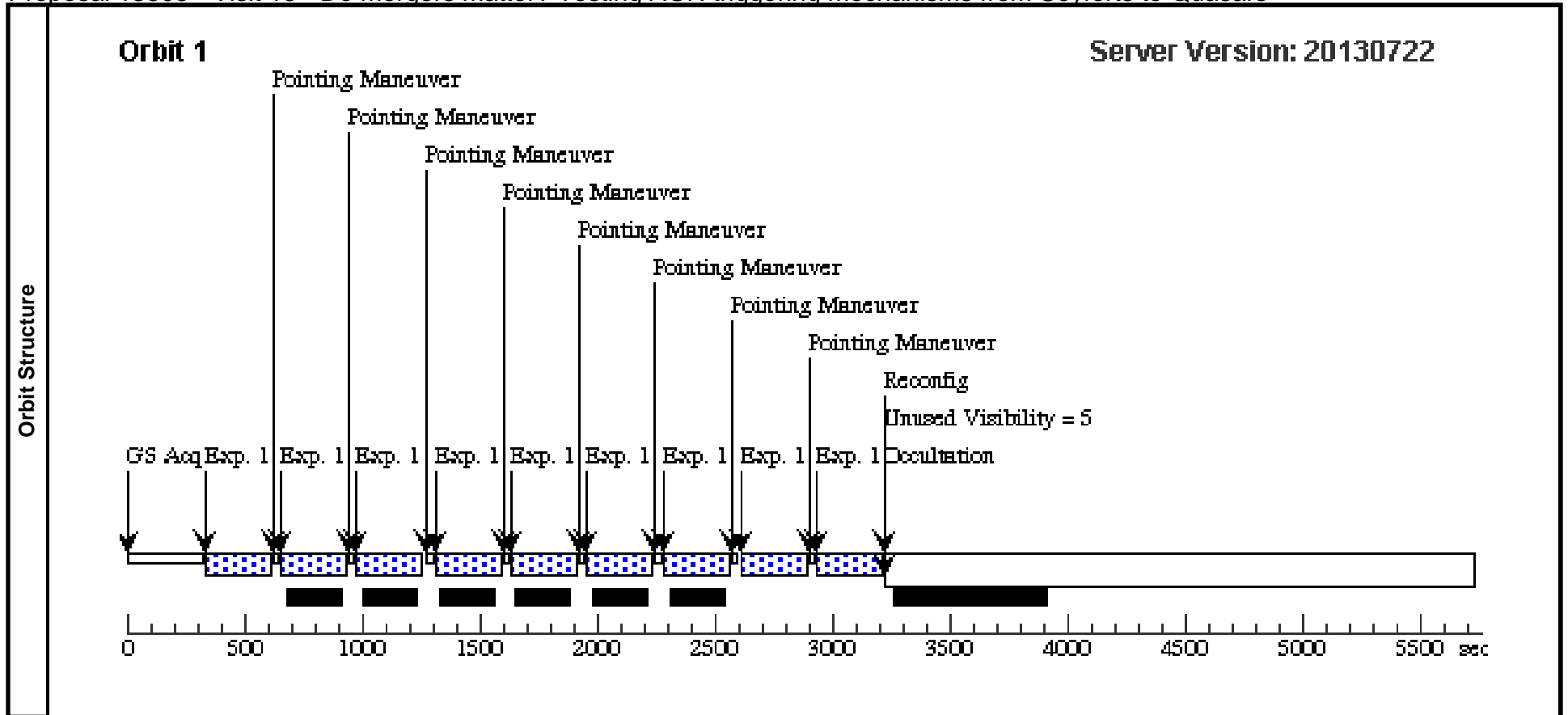
Visit	Proposal 13305, Visit 14, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(4)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=3 Point Spacing=12.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=12.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=131.788 Angle Between Sides= Center Pattern=false	(1)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(14)	RASS6156	RA: 22 59 6.4800 (344.7770000d) Dec: -08 22 29.50 (-8.37486d) Equinox: J2000 <i>Comments: Object is variable</i>	Redshift: 0.688	V=19.22+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(14) RASS6156	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=10; SAMP-SEQ=STEP5 0			Pattern 4, Exps 1-1 i n Visit 14 (4)	249.23203 Secs (2243.088 Secs) [==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 1,3)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 2,3)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 3,3)]



Proposal 13305 - Visit 15 - Do mergers matter? Testing AGN triggering mechanisms from Seyferts to Quasars

Wed Aug 28 01:18:12 GMT 2013

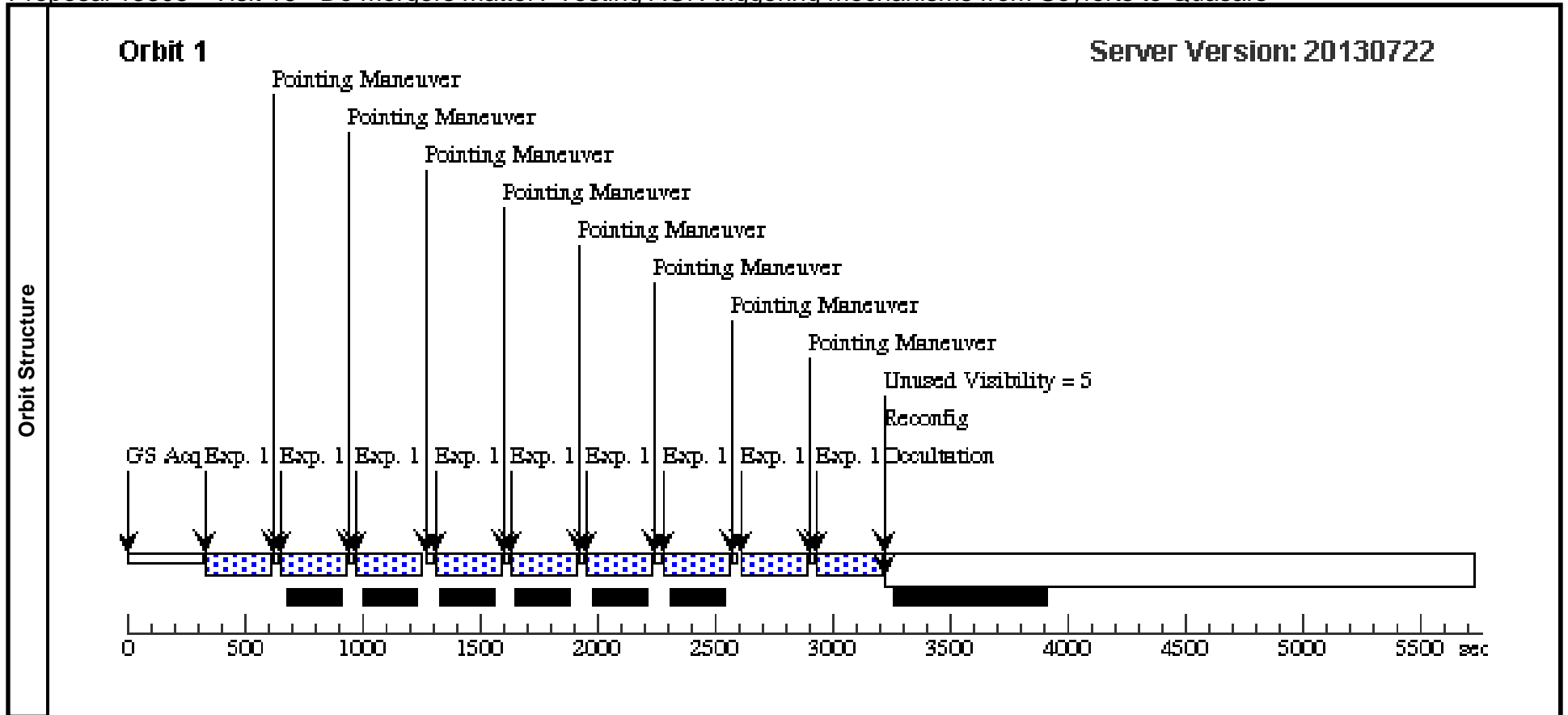
Visit	Proposal 13305, Visit 15, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(4)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=3 Point Spacing=12.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=12.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=131.788 Angle Between Sides= Center Pattern=false	(1)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(15)	RASS5169	RA: 15 35 41.2800 (233.9220000d) Dec: -00 16 21.68 (-.27269d) Equinox: J2000 <i>Comments: Object is variable</i>	Redshift: 0.671	V=19.32	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(15) RASS5169	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=10; SAMP-SEQ=STEP5 0			Pattern 4, Exps 1-1 i n Visit 15 (4)	249.23203 Secs (2243.088 Secs) [=>(Pattern 1,1)] [=>(Pattern 1,2)] [=>(Pattern 1,3)] [=>(Pattern 2,1)] [=>(Pattern 2,2)] [=>(Pattern 2,3)] [=>(Pattern 3,1)] [=>(Pattern 3,2)] [=>(Pattern 3,3)]



Proposal 13305 - Visit 16 - Do mergers matter? Testing AGN triggering mechanisms from Seyferts to Quasars

Wed Aug 28 01:18:12 GMT 2013

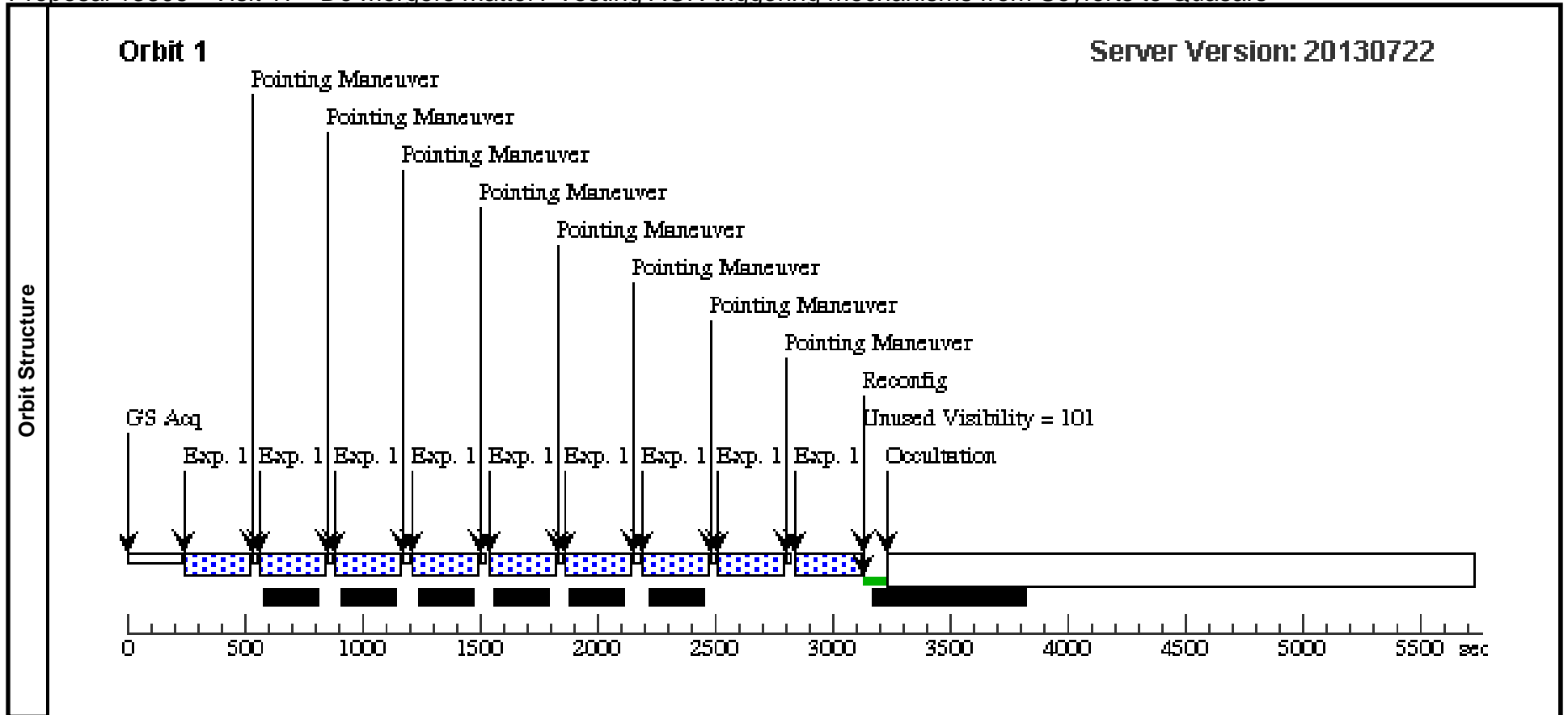
Visit	Proposal 13305, Visit 16, scheduled Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern				Secondary Pattern			
(4)		Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=3 Point Spacing=12.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=12.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=131.788 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(16)	RASS4339	RA: 14 22 36.0000 (215.6500000d) Dec: -01 52 11.21 (-1.86978d) Equinox: J2000	Redshift: 0.666		V=18.96+/-0.1	Reference Frame: ICRS			
	<i>Comments: Object is variable</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(16) RASS4339		WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=10; SAMP-SEQ=STEP5 0		Pattern 4, Exps 1-1 i n Visit 16 (4)	249.23203 Secs (2243.088 Secs) [==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 1,3)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 2,3)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 3,3)]	[1]



Proposal 13305 - Visit 17 - Do mergers matter? Testing AGN triggering mechanisms from Seyferts to Quasars

Wed Aug 28 01:18:13 GMT 2013

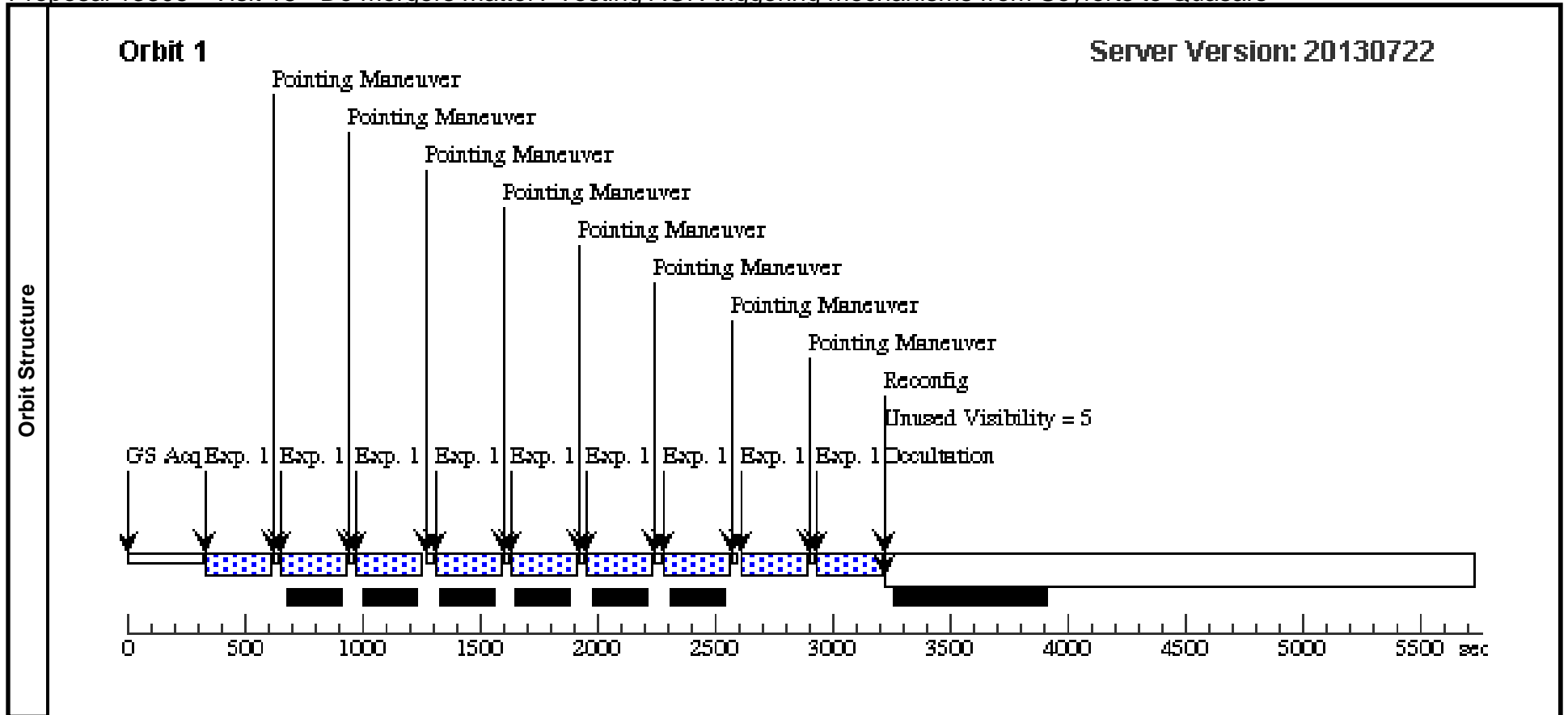
Visit	Proposal 13305, Visit 17, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(4)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=3 Point Spacing=12.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=12.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=131.788 Angle Between Sides= Center Pattern=false	(1)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(17)	RASS6135	RA: 22 30 10.5600 (337.5440000d) Dec: -08 10 17.90 (-8.17164d) Equinox: J2000	Redshift: 0.62	V=18.47	Reference Frame: ICRS				
	<i>Comments: Object is variable</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(17) RASS6135	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=10; SAMP-SEQ=STEP5 0	GS ACQ SCENARI O SINGLE	Pattern 4, Exps 1-1 i n Visit 17 (4)	249.23203 Secs (2243.088 Secs)	[1]
									[=>(Pattern 1,1)] [=>(Pattern 1,2)] [=>(Pattern 1,3)] [=>(Pattern 2,1)] [=>(Pattern 2,2)] [=>(Pattern 2,3)] [=>(Pattern 3,1)] [=>(Pattern 3,2)] [=>(Pattern 3,3)]	



Proposal 13305 - Visit 18 - Do mergers matter? Testing AGN triggering mechanisms from Seyferts to Quasars

Wed Aug 28 01:18:14 GMT 2013

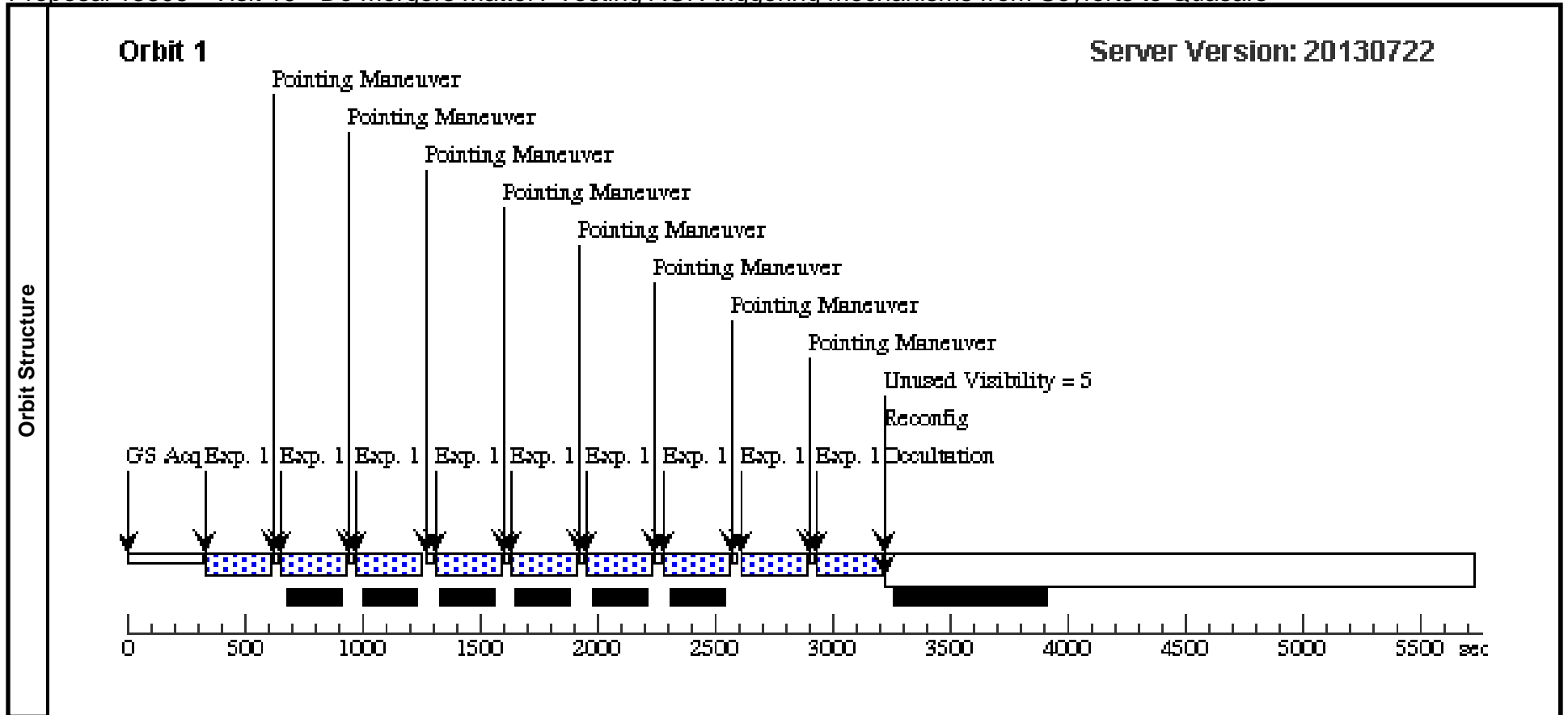
Visit	Proposal 13305, Visit 18, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(4)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=3 Point Spacing=12.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=12.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=131.788 Angle Between Sides= Center Pattern=false	(1)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(18)	RASS6126	RA: 22 09 8.1600 (332.2840000d) Dec: -00 55 58.80 (-.93300d) Equinox: J2000 <i>Comments: Object is variable</i>	Redshift: 0.53	V=19.03+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(18) RASS6126	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=10; SAMP-SEQ=STEP5 0	GS ACQ SCENARI O BASE1B3	Pattern 4, Exps 1-1 i n Visit 18 (4)	249.23203 Secs (2243.088 Secs)	[1]



Proposal 13305 - Visit 19 - Do mergers matter? Testing AGN triggering mechanisms from Seyferts to Quasars

Wed Aug 28 01:18:14 GMT 2013

Visit	Proposal 13305, Visit 19, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(4)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=3 Point Spacing=12.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=12.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=131.788 Angle Between Sides= Center Pattern=false	(1)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(19)	RASS4406	RA: 14 26 58.5600 (216.7440000d) Dec: -00 20 56.40 (-.34900d) Equinox: J2000	Redshift: 0.627	V=16.82	Reference Frame: ICRS				
	<i>Comments: Object is variable</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(19) RASS4406	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=10; SAMP-SEQ=STEP5 0	GS ACQ SCENARI O BASE1B3	Pattern 4, Exps 1-1 i n Visit 19 (4)	249.23203 Secs (2243.088 Secs)	[1]
									[==>(Pattern 1,1)] [==>(Pattern 1,2)] [==>(Pattern 1,3)] [==>(Pattern 2,1)] [==>(Pattern 2,2)] [==>(Pattern 2,3)] [==>(Pattern 3,1)] [==>(Pattern 3,2)] [==>(Pattern 3,3)]	



Proposal 13305 - Visit 20 - Do mergers matter? Testing AGN triggering mechanisms from Seyferts to Quasars

Wed Aug 28 01:18:15 GMT 2013

Visit	Proposal 13305, Visit 20, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR Special Requirements: (none)									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(4)	Pattern Type=WFC3-IR-DITHER-BLOB Purpose=DITHER Number Of Points=3 Point Spacing=12.183 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=41.859 Angle Between Sides= Center Pattern=true	Pattern Type=WFC3-IR-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=12.605 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=131.788 Angle Between Sides= Center Pattern=false	(1)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(20)	RASS6133	RA: 22 28 52.5600 (337.2190000d) Dec: -07 53 46.61 (-7.89628d) Equinox: J2000 <i>Comments: Object is variable</i>	Redshift: 0.638	V=18.54+/-0.1	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(20) RASS6133	WFC3/IR, MULTIACCUM, IR	F160W	NSAMP=10; SAMP-SEQ=STEP5 0	GS ACQ SCENARI O BASE1B3	Pattern 4, Exps 1-1 i n Visit 20 (4)	249.23203 Secs (2243.088 Secs)	[1]

