



11606 - Dynamical Hypermassive Black Hole Masses

Cycle: 17, 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) NGC-4782	STIS/CCD	3	07-Jul-2009 21:12:48.0	yes
02	(1) NGC-4782	STIS/CCD	1	07-Jul-2009 21:12:56.0	yes
03	(1) NGC-4782	STIS/CCD	1	07-Jul-2009 21:13:03.0	yes
04	(2) NGC-7720-NUC	STIS/CCD	3	07-Jul-2009 21:13:11.0	yes
05	(2) NGC-7720-NUC	STIS/CCD	1	07-Jul-2009 21:13:17.0	yes
06	(2) NGC-7720-NUC	STIS/CCD	1	07-Jul-2009 21:13:20.0	yes
07	(3) MESSIER-060-NUC	STIS/CCD	3	07-Jul-2009 21:13:32.0	yes
08	(3) MESSIER-060-NUC	STIS/CCD	1	07-Jul-2009 21:13:37.0	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>
09	(3) MESSIER-060-NUC	STIS/CCD	1	07-Jul-2009 21:13:41.0	yes
10	(4) NGC-1399-NUC	STIS/CCD	3	07-Jul-2009 21:13:48.0	yes
11	(4) NGC-1399-NUC	STIS/CCD	1	07-Jul-2009 21:13:53.0	yes
12	(4) NGC-1399-NUC	STIS/CCD	1	07-Jul-2009 21:13:57.0	yes
13	(5) UGC-01841-NUC	STIS/CCD	3	07-Jul-2009 21:14:04.0	yes
14	(5) UGC-01841-NUC	STIS/CCD	1	07-Jul-2009 21:14:13.0	yes
15	(5) UGC-01841-NUC	STIS/CCD	1	07-Jul-2009 21:14:16.0	yes

25 Total Orbits Used

ABSTRACT

We will use STIS spectra to derive the masses of 5 hypermassive black holes (HMBHs). From the observed scaling relations defined by less massive spheroids, these objects are expected to reside at the nuclei of host galaxies with stellar velocity dispersions greater than 320 km/s. These 5 targets have confirmed regular gas distributions on the scales of the black hole sphere of influence. It is essential that the sphere of influence is resolved for accurate determinations of black hole mass (0.1"). These scales cannot be effectively observed from the ground. Only two HMBHs have had their masses modeled so far; it is impossible to draw any general conclusions about the connections between HMBH mass and their massive host galaxies. With these 5 targets we will determine whether these HMBHs deviate from the scaling relations defined by less massive spheroids. A larger sample will allow us to firmly anchor the high mass end of the correlation between black hole mass and stellar velocity dispersion, and other scaling relations. Therefore we are also conducting a SNAPSHOT program with which we expect to detect a further 24 HMBH candidates for STIS observation in future Cycles. At the completion of this project we will have populated the high mass end of the scaling relations with the sample sizes enjoyed by less massive spheroids.

OBSERVING DESCRIPTION

The 25 orbits are split equally across 5 targets. Each target is a (giant) Elliptical galaxy with a large velocity dispersion. In each orbit we will use different slit positions to map a 2D region at the nuclear region of each target. We are targeting regular gas disks surrounding the central Black Hole and therefore will cover the H-alpha region of the spectrum.

We use 3 visits per target. At the central slit position we require maximum spatial resolution, so we will use the 52x0.1 arcsec slit and G750M grating. In the first visit for each target (3 orbits) the central 0.1 slit will be flanked by two offset 0.2 slit observations (1 orbit per slit position). At the two off nuclear slit positions, as the line brightnesses drop off rapidly, we will use the wider 52x0.2 arcsec slit in order to provide the best compromise between resolution and throughput. The two subsequent visits will acquire the nucleus of the target and use the 0.1 slit. However, the slits will be orientated +/- ~60 degrees from the first visit. This technique ensures one slit position will be close to the disk position angle.

We will be using the longest possible exposures, so all will be CR-SPLIT. In addition, we will make one non-integer dither along the slit, by 4.5 pixels, in order to enable a proper rejection of hot pixels and to deal with the possible undulation issue due to undersampling.

To minimize the overheads per target/orbit/visit our observing strategy is as follows:

- 1) GS-ACQ
- 2) ACQ
- 3) Offset to slit position OFF1
- 4) 4 exposures with 52x0.2 (2 crsplits and 1 dither).
1 orbit used.
- 5) GS-ReACQ
- 6) Peak-up on nucleus
- 7) 4 exposures with 52x0.1
2 orbits used.
- 8) GS-RAc
- 9) 4 exposures with 52x0.2

3 orbits used

10) GS-ACQ

11) ACQ

12) Peak-up

13) 4 exposures with 52x0.1

4 orbits used

14) GS-ACQ

15) ACQ

16) Peak-up

17) 4 exposures with 52x0.1

5 orbits used.

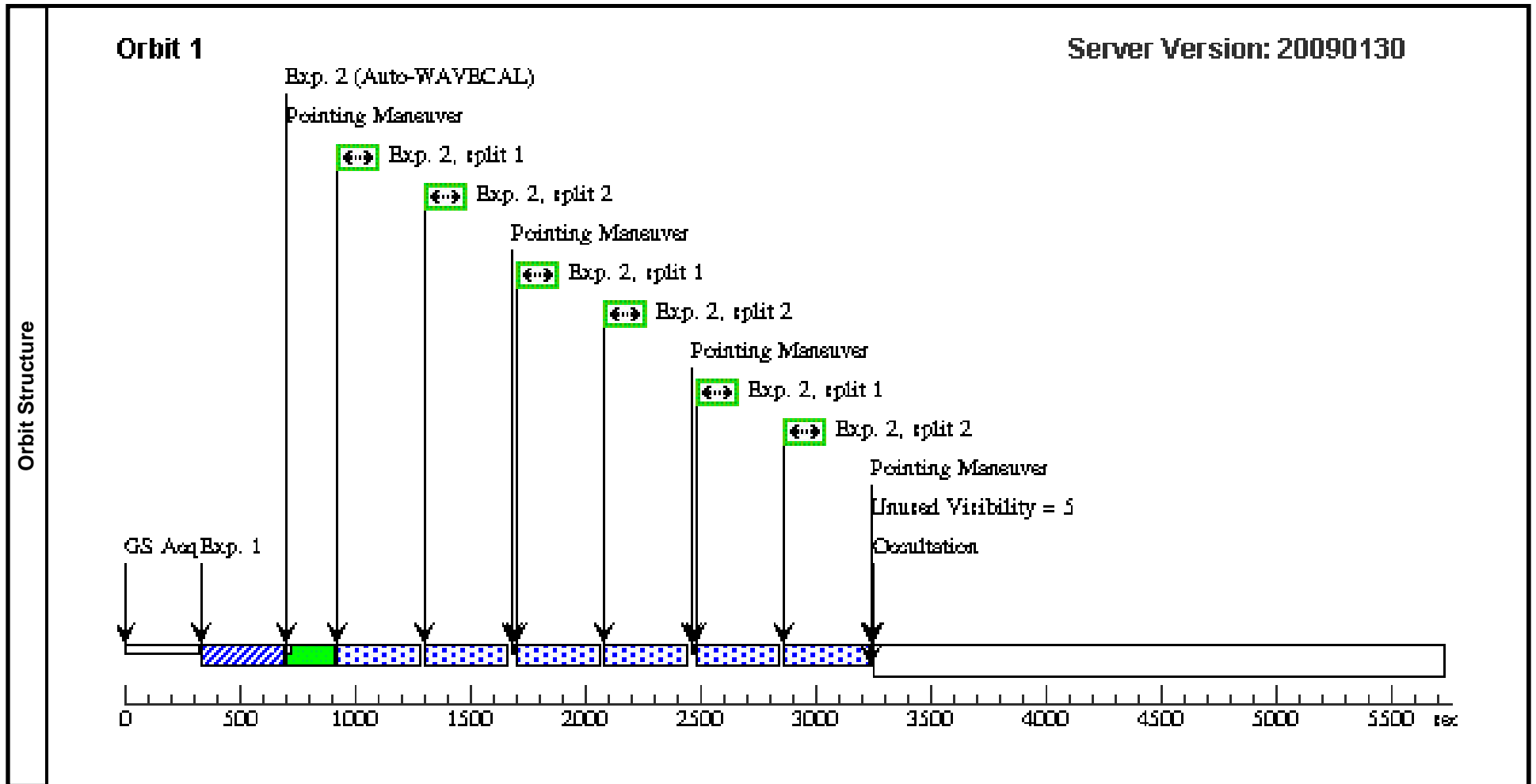
Proposal 11606 - Visit 01 - Dynamical Hypermassive Black Hole Masses

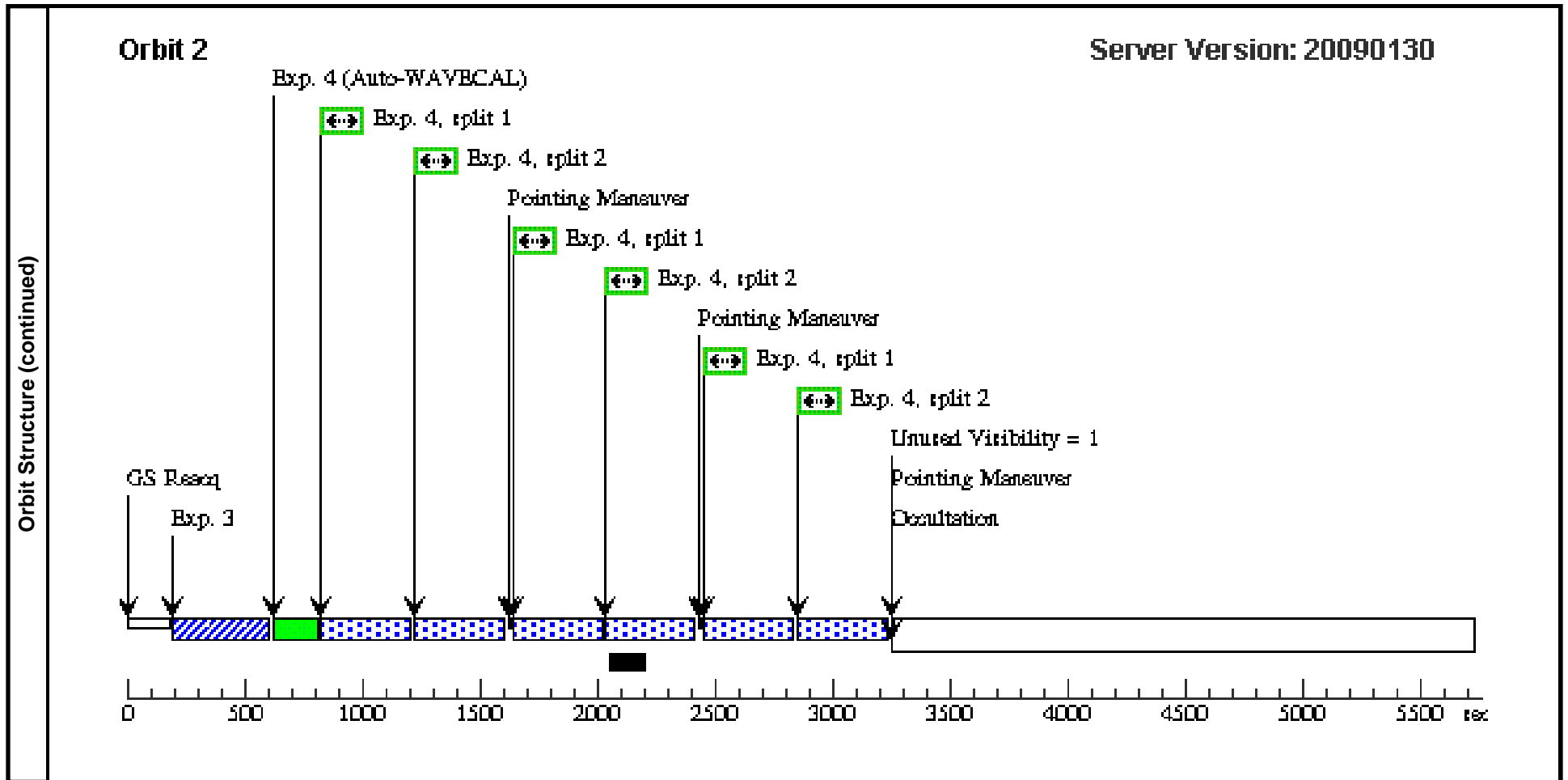
Wed Jul 08 01:14:20 GMT 2009

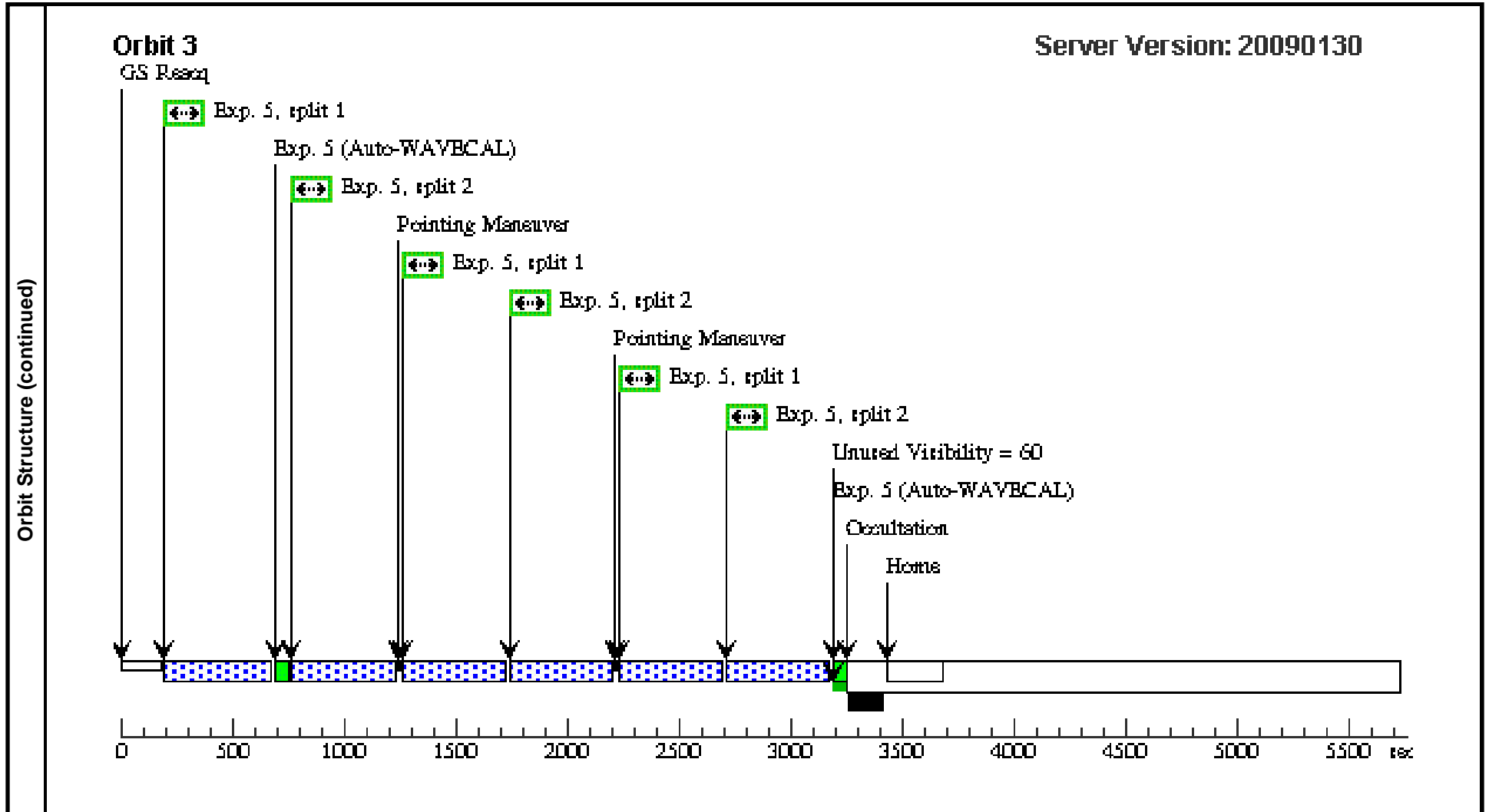
Visit	Proposal 11606, Visit 01, implementation Diagnostic Status: Warning Scientific Instruments: STIS/CCD Special Requirements: PCS MODE FINE Comments: 3 orbits this visit. O1 - 0.2E aperture, ACQ followed by offset -0.2x postargs. O2 - 0.1E aperture, ACQ-PEAK, no offset. O3 - 0.2E aperture, 0.2x postargs. The "Warning: Pattern position outside aperture" is due to an applied postarg after target acquisition. The observations are designed this way to reduce overheads in O2.									
	Diagnosics (Visit 01) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 01) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG						(2), (4), (5)	
		Purpose=DITHER	Pattern Orientation=90.0							
		Number Of Points=3	Angle Between Sides=							
		Point Spacing=0.35546	Center Pattern=false							
		Line Spacing=								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-4782	RA: 12 54 35.8600 (193.6494167d) Dec: -12 34 8.60 (-12.56906d) Equinox: J2000		V=12.7+/-0.1	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the NED database.									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(1) NGC-4782	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; SE;	CHECKBOX=7.0; DIFFUSE-CENTER=FLUX-CENTROID	GS ACQ SCENARIO BASE1B3		30.0 Secs [==>]	[1]
	2	(1) NGC-4782	STIS/CCD, ACCUM, 52X0.2E1	G750M 6768 A	BINAXIS1=2; BINAXIS2=2; CR-SPLIT=2	POS TARG -0.2,0.0	Pattern 1, Exps 2-2 (1)		700.0 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]	[1]

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Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	3	(1) NGC-4782	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR					5.0 Secs [==>]	[2]
	4	(1) NGC-4782	STIS/CCD, ACCUM, 52X0.1E1	G750M 6768 A	CR-SPLIT=2	POS TARG 0.0,0.0	Pattern 1, Exps 4-4 (1)		700.0 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]	[2]
	5	(1) NGC-4782	STIS/CCD, ACCUM, 52X0.2E1	G750M 6768 A	BINAXIS1=2; BINAXIS2=2; CR-SPLIT=2	POS TARG 0.2,0.0	Pattern 1, Exps 5-5 (1)		895.0 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]	[3]



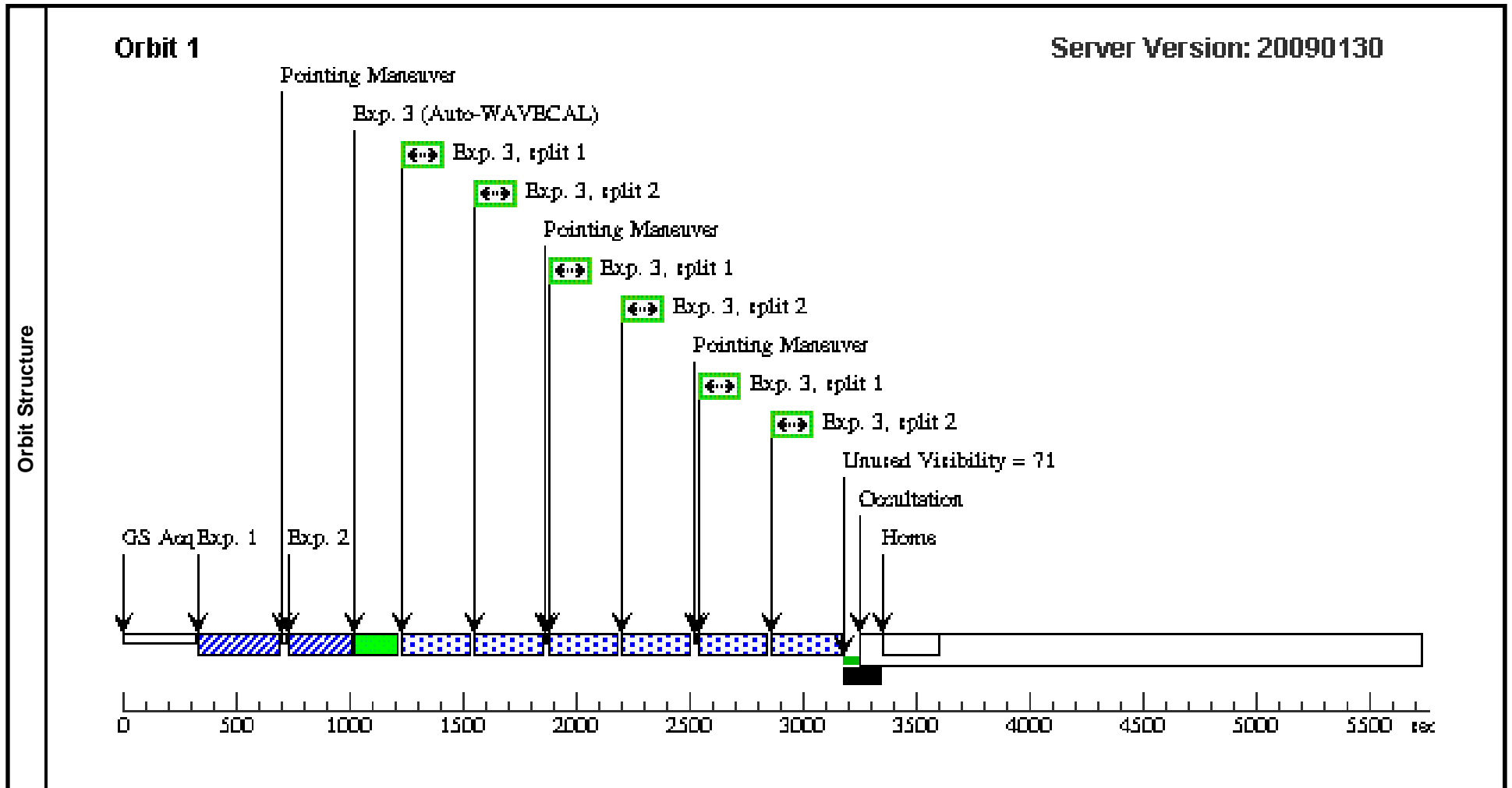




Proposal 11606 - Visit 02 - Dynamical Hypermassive Black Hole Masses

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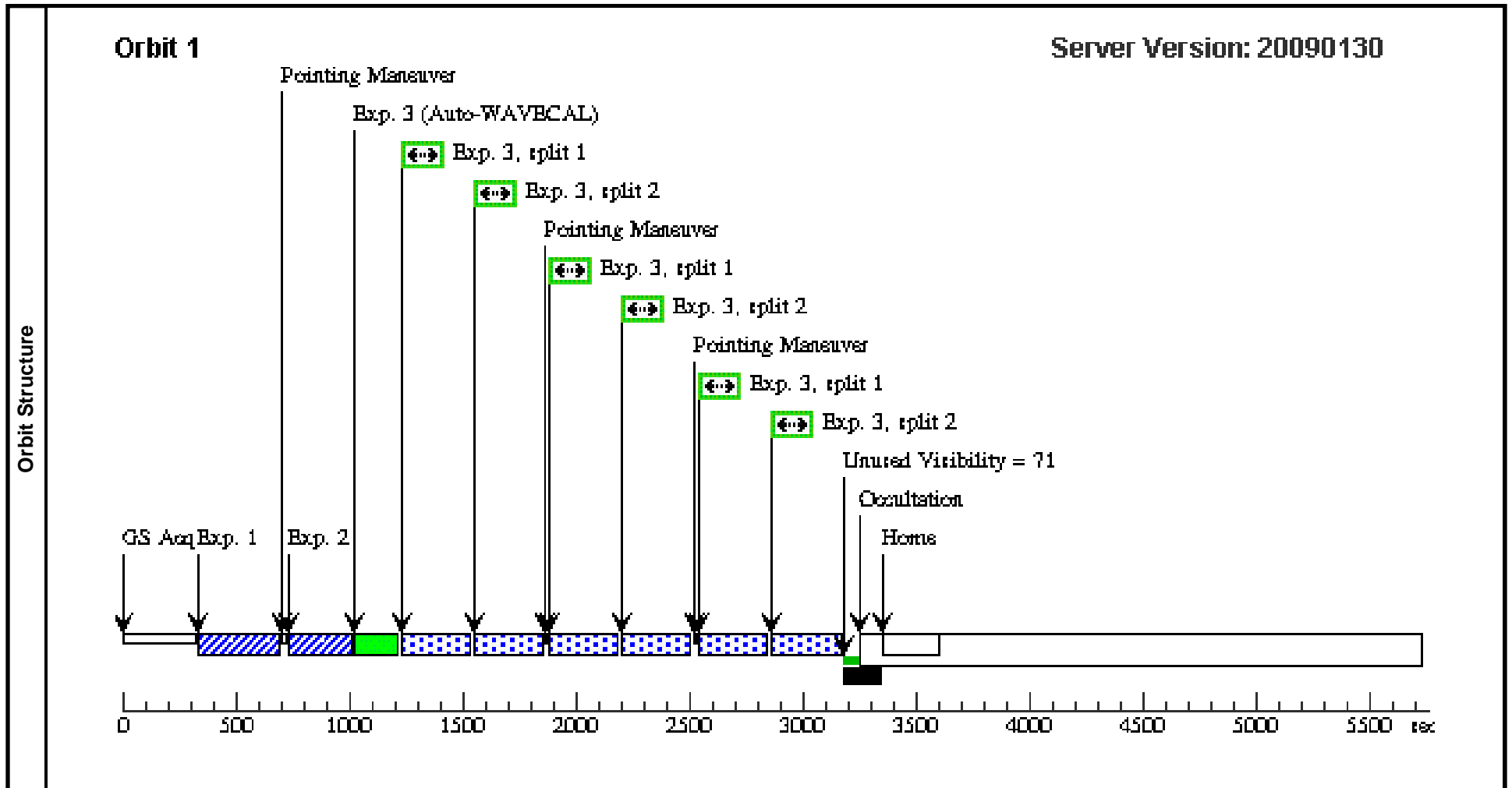
Visit	Proposal 11606, Visit 02, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: PCS MODE FINE; ORIENT 30D TO 60D FROM 01																																								
	Patterns	# Primary Pattern (1) Pattern Type=STIS-ALONG-SLIT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=90.0 Number Of Points=3 Angle Between Sides= Point Spacing=0.35546 Center Pattern=false Line Spacing=	Secondary Pattern	Exposures (3)																																					
Fixed Targets	# Name Target Coordinates Targ. Coord. Corrections Fluxes Miscellaneous (1) NGC-4782 RA: 12 54 35.8600 (193.6494167d) Dec: -12 34 8.60 (-12.56906d) Equinox: J2000 Comments: This object was generated by the targetselector and retrieved from the NED database.																																								
Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>(1) NGC-4782</td> <td>STIS/CCD, ACQ, F28X50LP</td> <td>MIRROR</td> <td>ACQTYPE=DIFFUSE; CHECKBOX=7; DIFFUSE-CENTER=FLUX-CENTROID</td> <td>GS ACQ SCENARIO BASE1B3</td> <td></td> <td>30.0 Secs [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td></td> <td>(1) NGC-4782</td> <td>STIS/CCD, ACQ/PEAK, 52X0.1E1</td> <td>MIRROR</td> <td></td> <td></td> <td></td> <td>5.0 Secs [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td></td> <td>(1) NGC-4782</td> <td>STIS/CCD, ACCUM, 52X0.1E1</td> <td>G750M 6768 A</td> <td>CR-SPLIT=2</td> <td></td> <td>Pattern 1, Exps 3-3 (1)</td> <td>540.0 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	1		(1) NGC-4782	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=7; DIFFUSE-CENTER=FLUX-CENTROID	GS ACQ SCENARIO BASE1B3		30.0 Secs [==>]	[1]	2		(1) NGC-4782	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				5.0 Secs [==>]	[1]	3		(1) NGC-4782	STIS/CCD, ACCUM, 52X0.1E1	G750M 6768 A	CR-SPLIT=2		Pattern 1, Exps 3-3 (1)	540.0 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]	[1]
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit																																
1		(1) NGC-4782	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=7; DIFFUSE-CENTER=FLUX-CENTROID	GS ACQ SCENARIO BASE1B3		30.0 Secs [==>]	[1]																																
2		(1) NGC-4782	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				5.0 Secs [==>]	[1]																																
3		(1) NGC-4782	STIS/CCD, ACCUM, 52X0.1E1	G750M 6768 A	CR-SPLIT=2		Pattern 1, Exps 3-3 (1)	540.0 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]	[1]																																



Proposal 11606 - Visit 03 - Dynamical Hypermassive Black Hole Masses

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Visit	Proposal 11606, Visit 03, implementation Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: ORIENT 120D TO 150D FROM 01									
	Patterns	#	Primary Pattern	Secondary Pattern		Exposures				
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	NGC-4782	RA: 12 54 35.8600 (193.6494167d) Dec: -12 34 8.60 (-12.56906d) Equinox: J2000		V=12.7+/-0.1	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) NGC-4782	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=7; DIFFUSE-CENTER=FLUX-CENTROID	GS ACQ SCENARIO BASE1B3		30.0 Secs [==>]	[1]
	2		(1) NGC-4782	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				5.0 Secs [==>]	[1]
	3		(1) NGC-4782	STIS/CCD, ACCUM, 52X0.1E1	G750M 6768 A	CR-SPLIT=2		Pattern 1, Exps 3-3 (1)	540.0 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]	[1]



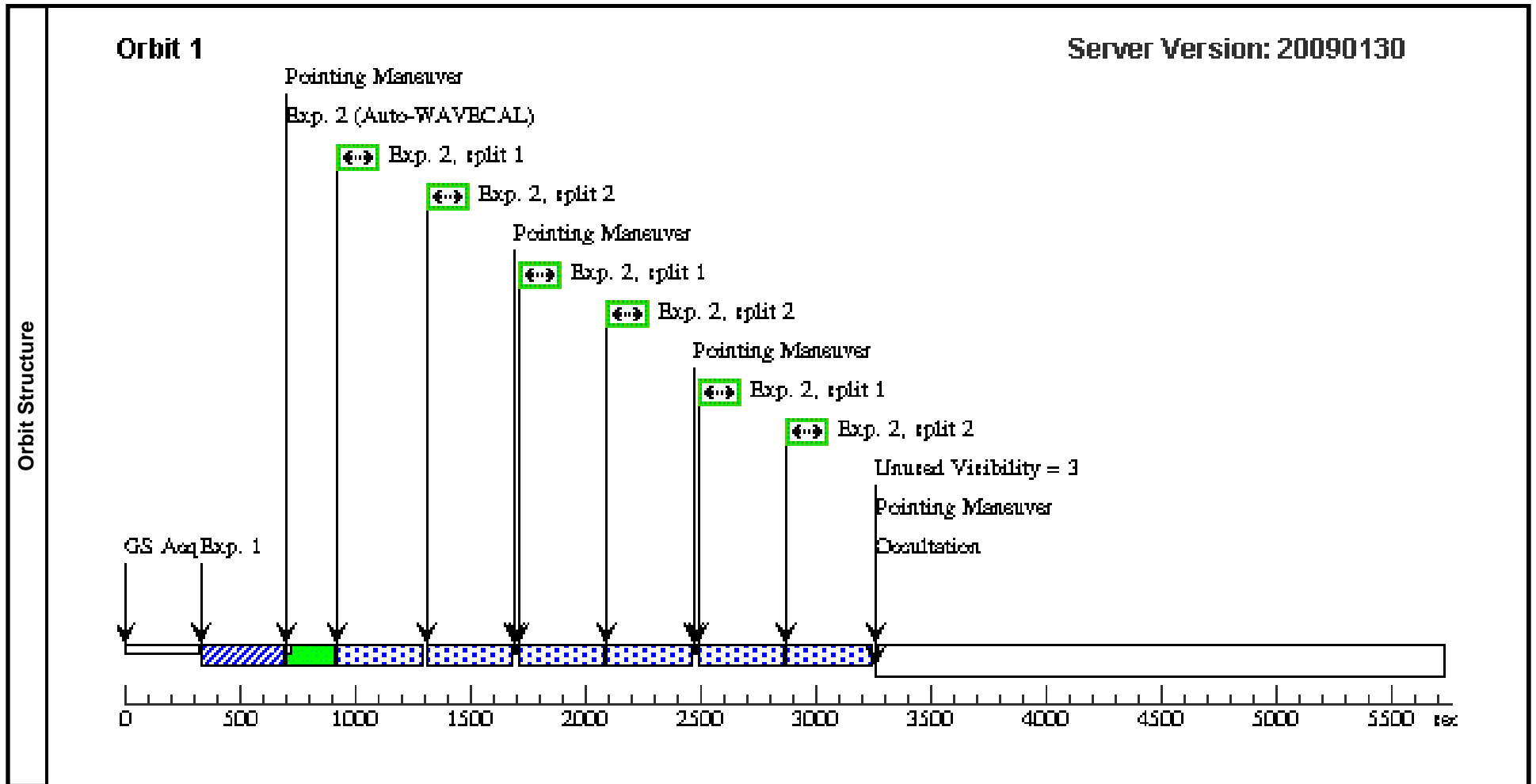
Proposal 11606 - Visit 04 - Dynamical Hypermassive Black Hole Masses

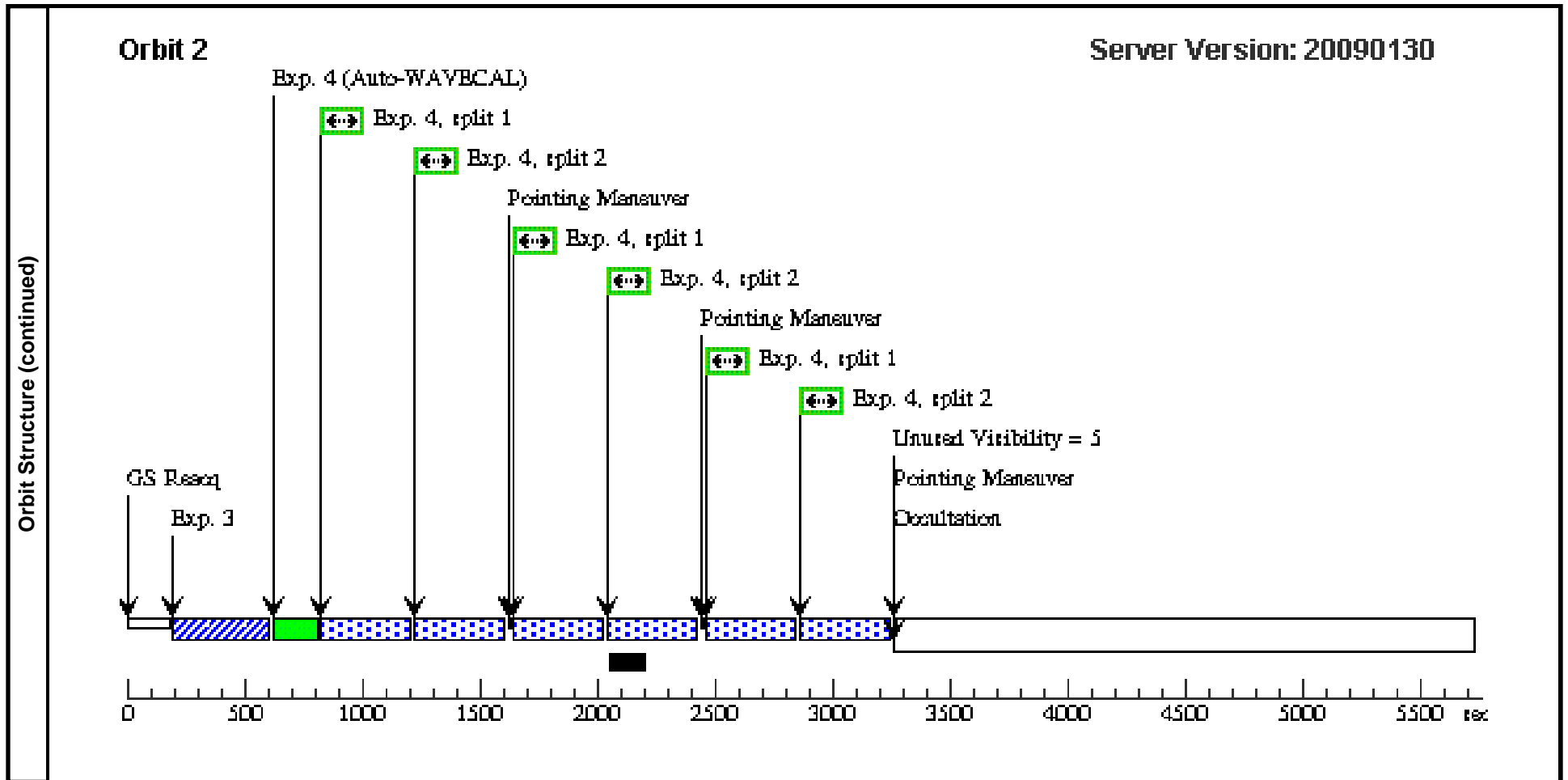
Wed Jul 08 01:14:22 GMT 2009

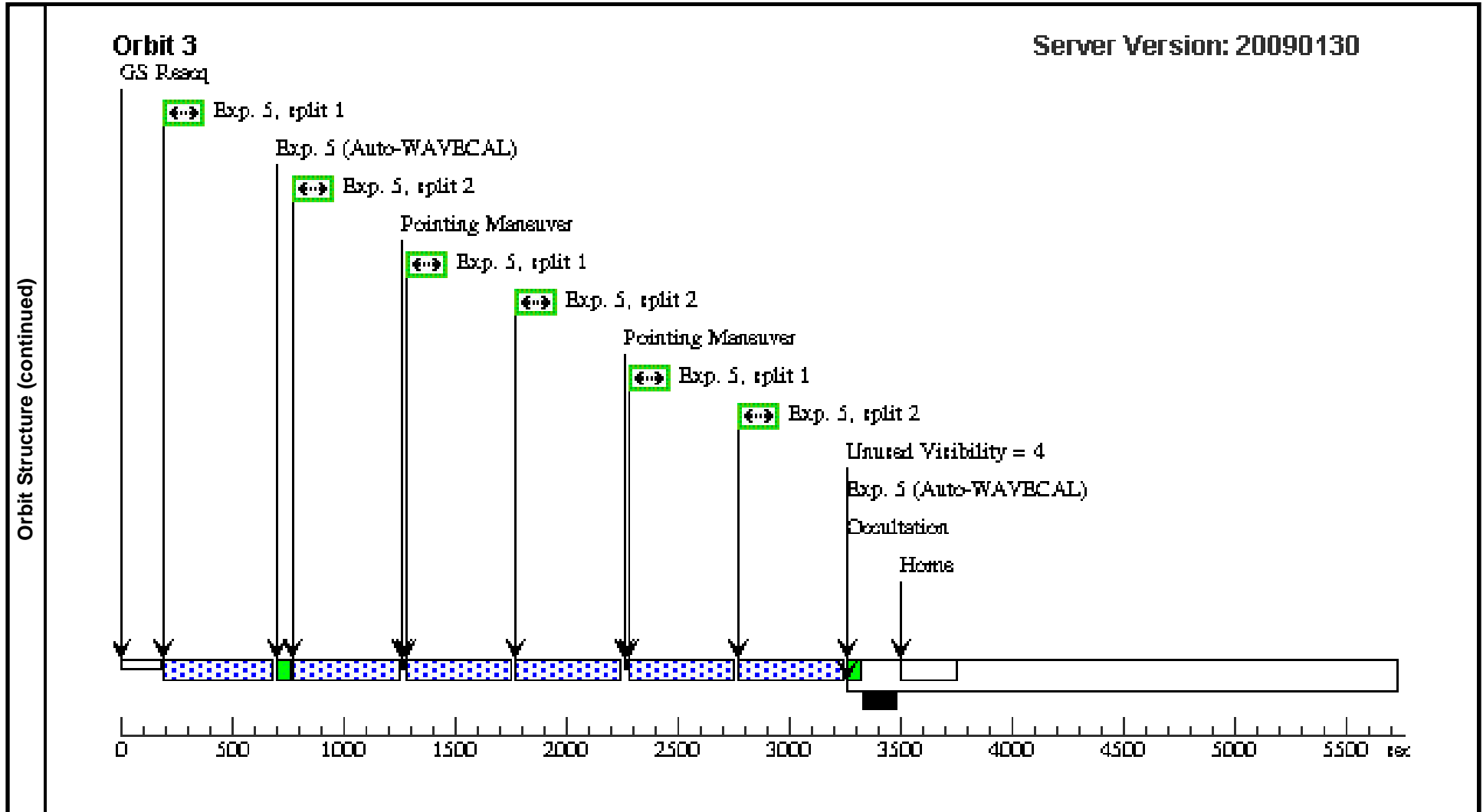
Visit	<p>Proposal 11606, Visit 04, scheduling</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/CCD</p> <p>Special Requirements: PCS MODE FINE</p> <p><i>Comments: 3 orbits this visit.</i></p> <p><i>O1 - 0.2E aperture, ACQ followed by offset -0.2x postargs.</i></p> <p><i>O2 - 0.1E aperture, ACQ-PEAK, no offset.</i></p> <p><i>O3 - 0.2E aperture, 0.2x postargs.</i></p> <p><i>The "Warning: Pattern position outside aperture" is due to an applied postarg after target acquisition. The observations are designed this way to reduce overheads in O2.</i></p>									
	<p>(Visit 04) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE</p> <p>(Visit 04) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE</p>									
Diagnosics										
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG						(2), (4), (5)	
		Purpose=DITHER	Pattern Orientation=90.0							
		Number Of Points=3	Angle Between Sides=							
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		Line Spacing=								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	NGC-7720-NUC	RA: 23 38 29.3056 (354.6221067d) Dec: +27 01 53.02 (27.03139d) Equinox: J2000		V=13.65+/-0.08	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(2) NGC-7720-NUC	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; SE;	CHECKBOX=7.0; DIFFUSE-CENTER=FLUX-CENTROID			30.0 Secs [==>]	[1]
	2	(2) NGC-7720-NUC	STIS/CCD, ACCUM, 52X0.2E1	G750M 6768 A	BINAXIS1=2; BINAXIS2=2; CR-SPLIT=2	POS TARG -0.2,0.0	Pattern 1, Exps 2-2 (1)		706.0 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]	[1]

Proposal 11606 - Visit 04 - Dynamical Hypermassive Black Hole Masses

Exposures (continued)	#	Label	Target	Config, Mode, Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	3	(2) NGC-7720-NUC	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR					5.0 Secs [==>]	[2]
	4	(2) NGC-7720-NUC	STIS/CCD, ACCUM, 52X0.1E1	G750M 6768 A	CR-SPLIT=2	POS TARG 0.0,0.0	Pattern 1, Exps 4-4 (1)	704.0 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]	[2]	
5	(2) NGC-7720-NUC	STIS/CCD, ACCUM, 52X0.2E1	G750M 6768 A	BINAXIS1=2; BINAXIS2=2; CR-SPLIT=2	POS TARG 0.2,0.0	Pattern 1, Exps 5-5 (1)	919.0 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]	[3]		



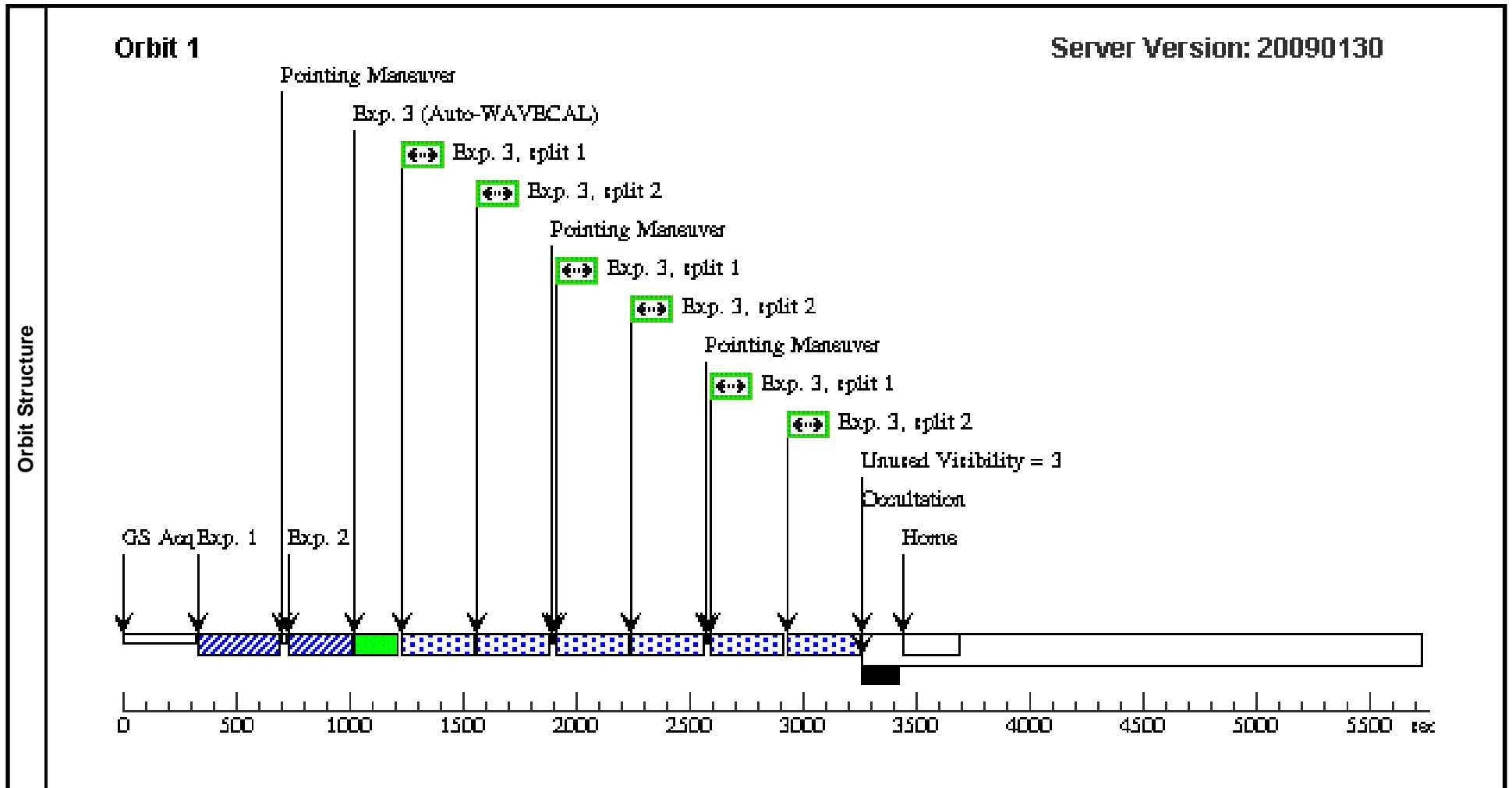




Proposal 11606 - Visit 05 - Dynamical Hypermassive Black Hole Masses

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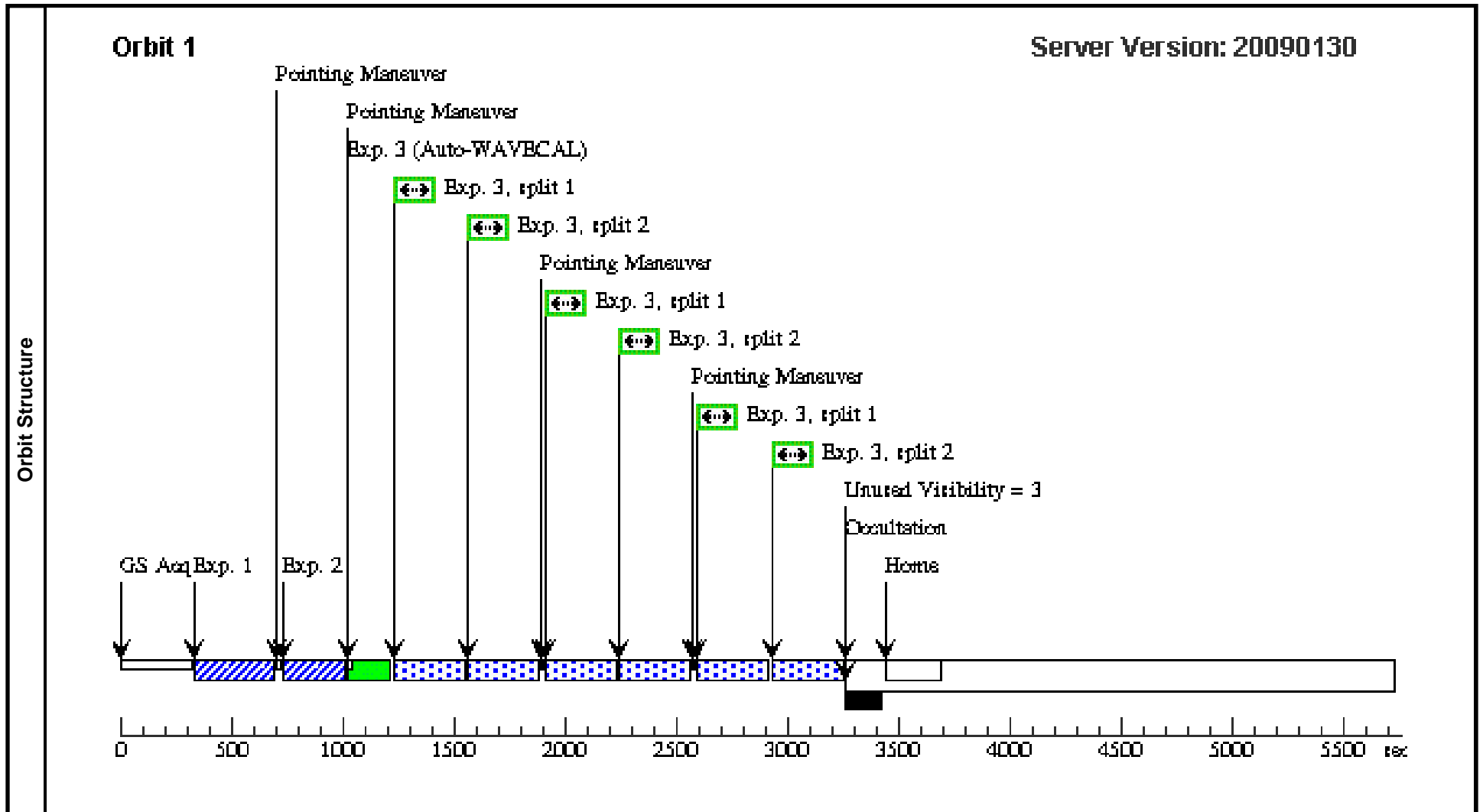
Visit	Proposal 11606, Visit 05, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: PCS MODE FINE; ORIENT 50D TO 70D FROM 04								
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Fixed Targets	# Name Target Coordinates Targ. Coord. Corrections Fluxes Miscellaneous (2) NGC-7720-NUC RA: 23 38 29.3056 (354.6221067d) Dec: +27 01 53.02 (27.03139d) Equinox: J2000 Comments: This object was generated by the targetselector and retrieved from the NED database.								
Exposures	# Label Target Config,Mode,Aperture Spectral Els. Opt. Params. Special Reqs. Groups Exp. Time/[Actual Dur.] Orbit								
	1	(2) NGC-7720-NUC	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=7; DIFFUSE-CENTER=FLUX-CENTROID			30.0 Secs [==>]	[1]
	2	(2) NGC-7720-NUC	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				5.0 Secs [==>]	[1]
	3	(2) NGC-7720-NUC	STIS/CCD, ACCUM, 52X0.1E1	G750M 6768 A	CR-SPLIT=2		Pattern 1, Exps 3-3 (1)	567.0 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]	[1]



Proposal 11606 - Visit 06 - Dynamical Hypermassive Black Hole Masses

Wed Jul 08 01:14:24 GMT 2009

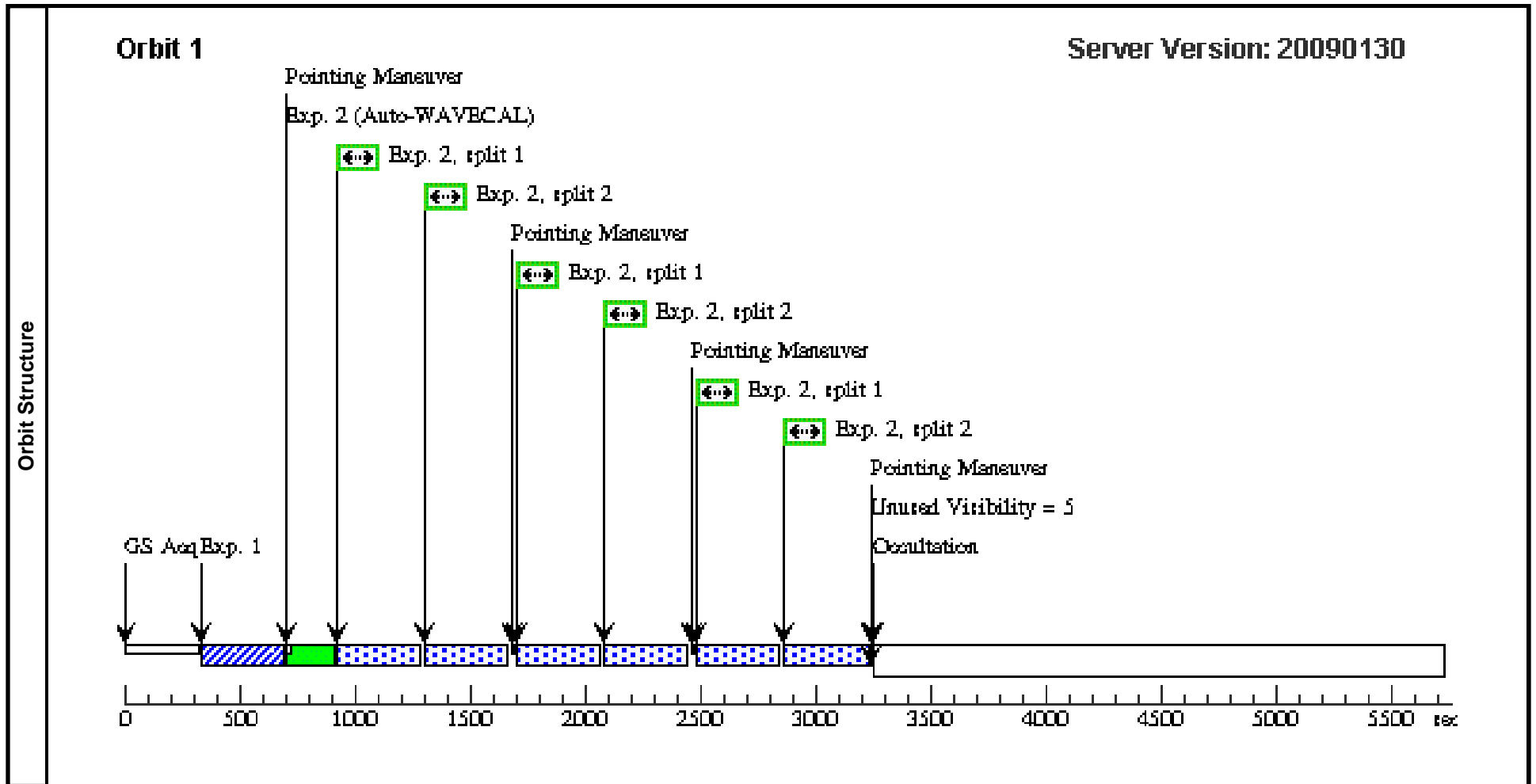
Visit	Proposal 11606, Visit 06, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: ORIENT 110D TO 130D FROM 04				
	Patterns	# Primary Pattern	Secondary Pattern		Exposures
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Fixed Targets	# Name Target Coordinates Targ. Coord. Corrections Fluxes Miscellaneous				
	(2) NGC-7720-NUC RA: 23 38 29.3056 (354.6221067d) Dec: +27 01 53.02 (27.03139d) Equinox: J2000 Comments: This object was generated by the targetselector and retrieved from the NED database.				
Exposures	# Label Target Config,Mode,Aperture Spectral Els. Opt. Params. Special Reqs. Groups Exp. Time/[Actual Dur.] Orbit				
	1 (2) NGC-7720-NUC STIS/CCD, ACQ, F28X50LP MIRROR ACQTYPE=DIFFUSE; CHECKBOX=7; DIFFUSE-CENTER=FLUX-CENTROID			30.0 Secs [==>]	[1]
	2 (2) NGC-7720-NUC STIS/CCD, ACQ/PEAK, 52X0.1E1 MIRROR			5.0 Secs [==>]	[1]
	3 (2) NGC-7720-NUC STIS/CCD, ACCUM, 52X0.1 G750M CR-SPLIT=2 Pattern 1, Exps 3-3 (1) 6768 A			567.0 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]	[1]

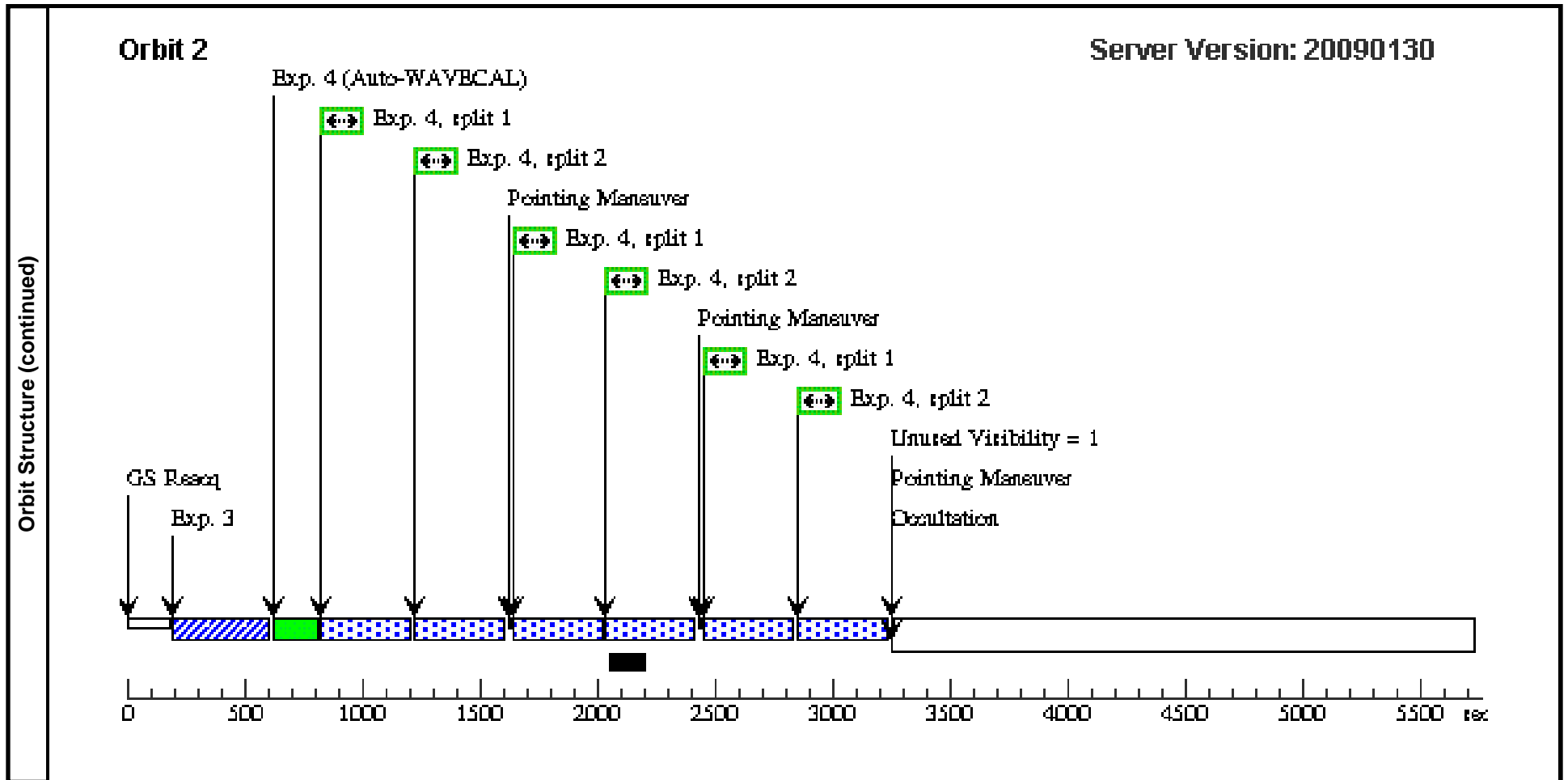


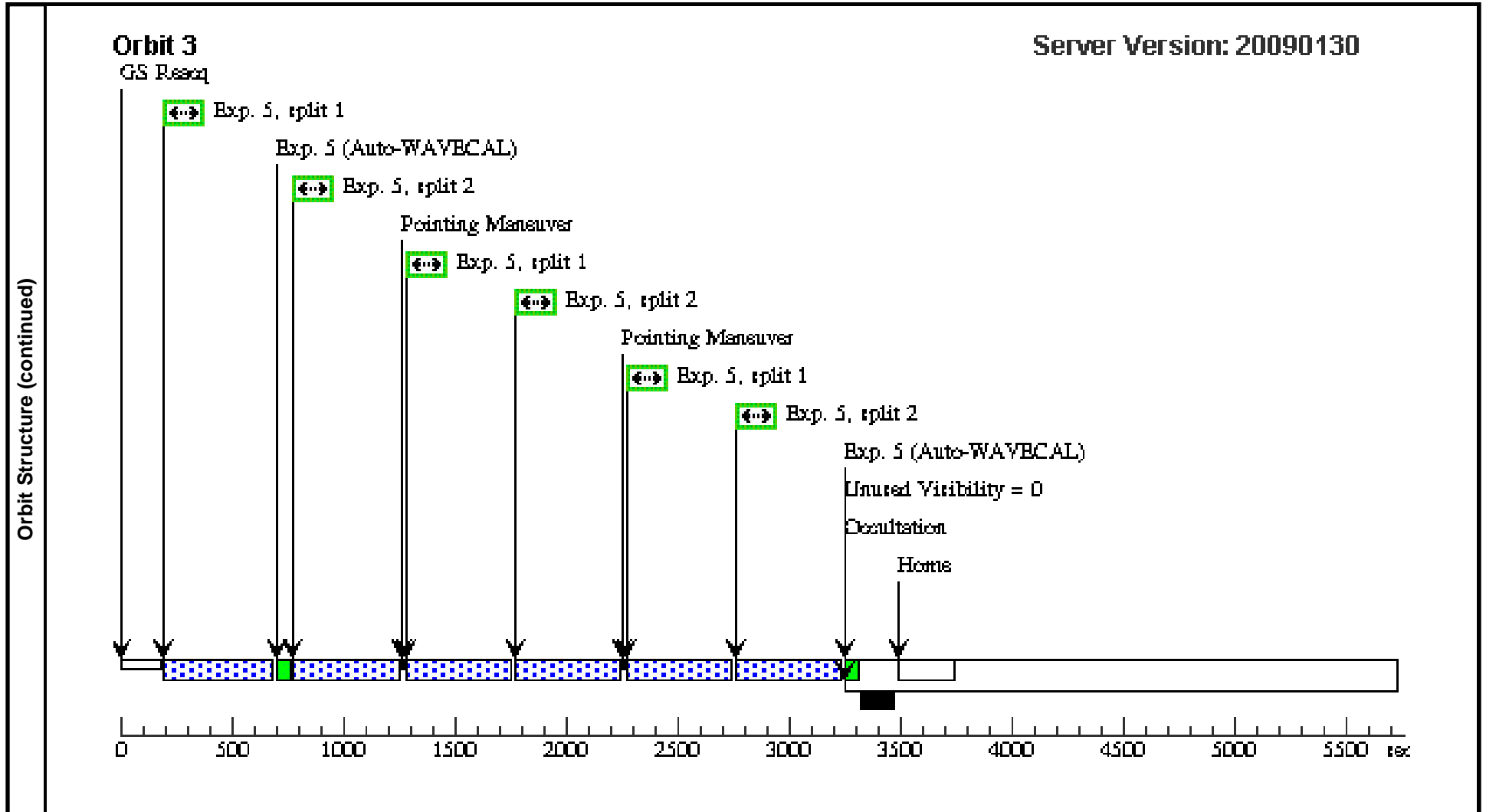
Visit	Proposal 11606, Visit 07, scheduling Diagnostic Status: Warning Scientific Instruments: STIS/CCD Special Requirements: PCS MODE FINE Comments: 3 orbits this visit. O1 - 0.2E aperture, ACQ followed by offset -0.2x postargs. O2 - 0.1E aperture, ACQ-PEAK, no offset. O3 - 0.2E aperture, 0.2x postargs. The "Warning: Pattern position outside aperture" is due to an applied postarg after target acquisition. The observations are designed this way to reduce overheads in O2.									
	Diagnosics (Visit 07) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 07) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=STIS-ALONG-SLIT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=90.0 Number Of Points=3 Angle Between Sides= Point Spacing=0.35546 Center Pattern=false Line Spacing=					(2), (4), (5)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	MESSIER-060-NUC	RA: 12 43 40.0001 (190.9166671d) Dec: +11 33 8.24 (11.55229d) Equinox: J2000		V=10.28+/-0.08	Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the NED database.										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(3) MESSIER-060-N UC	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; SE;	GS ACQ SCENARIO BASE1B3	CHECKBOX=7.0; DIFFUSE-CENTER=FLUX-CENTROID		30.0 Secs [==>]	[1]
2	(3) MESSIER-060-N UC	STIS/CCD, ACCUM, 52X0.2E1	G750M 6768 A	BINAXIS1=2; BINAXIS2=2; CR-SPLIT=2	POS TARG -0.2,0.0	Pattern 1, Exps 2-2 (1)		700.0 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]	[1]	

Proposal 11606 - Visit 07 - Dynamical Hypermassive Black Hole Masses

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	3	(3) MESSIER-060-N UC	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR					5.0 Secs [==>]	[2]
	4	(3) MESSIER-060-N UC	STIS/CCD, ACCUM, 52X0.1E1	G750M 6768 A	CR-SPLIT=2	POS TARG 0.0,0.0	Pattern 1, Exps 4-4 (1)	700.0 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]	[2]	
	5	(3) MESSIER-060-N UC	STIS/CCD, ACCUM, 52X0.2E1	G750M 6768 A	BINAXIS1=2; BINAXIS2=2; CR-SPLIT=2	POS TARG 0.2,0.0	Pattern 1, Exps 5-5 (1)	915.0 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]	[3]	



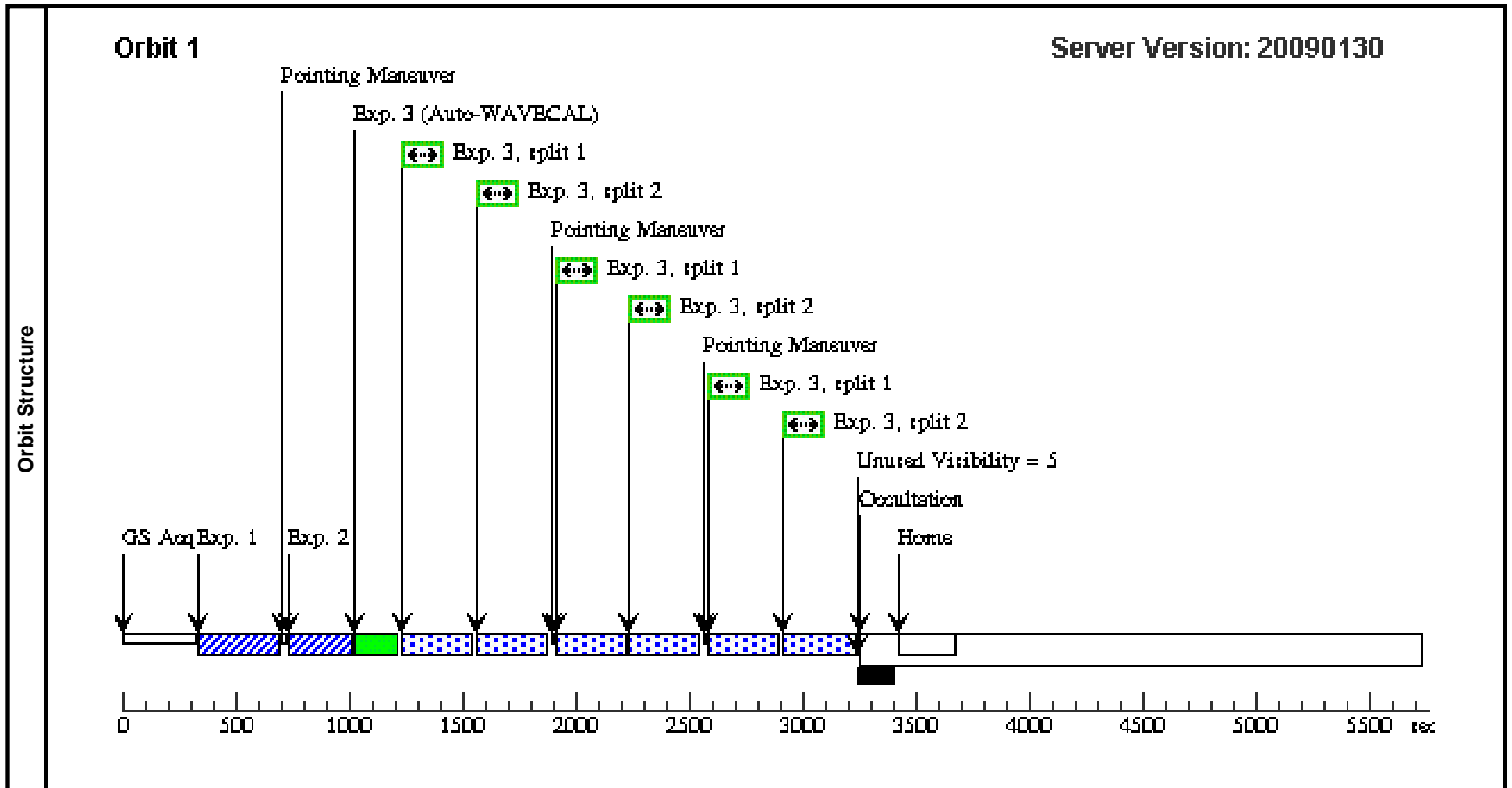




Proposal 11606 - Visit 08 - Dynamical Hypermassive Black Hole Masses

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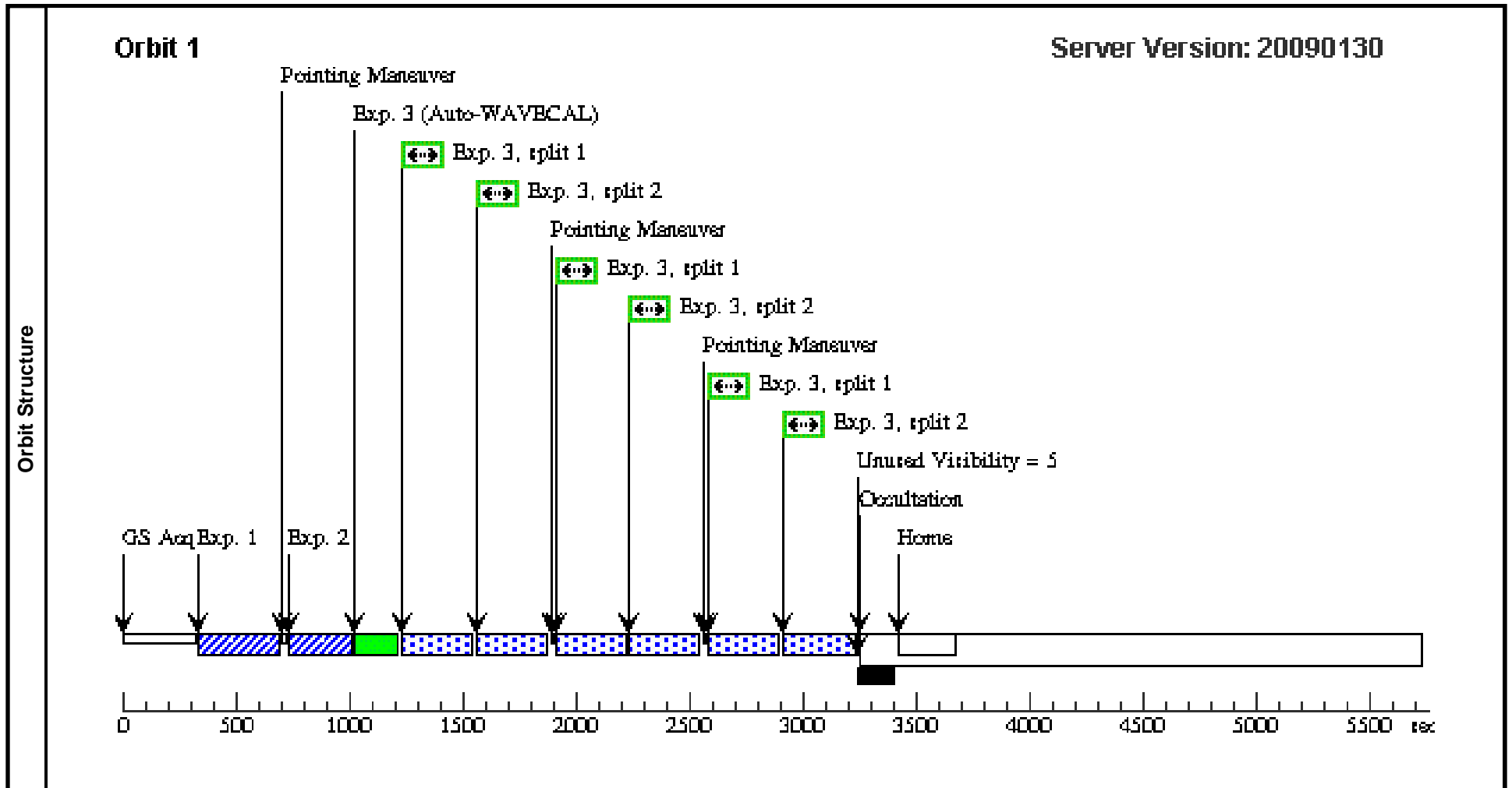
Visit	Proposal 11606, Visit 08, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: PCS MODE FINE; ORIENT 30D TO 40D FROM 07																																								
	Patterns	# Primary Pattern (1) Pattern Type=STIS-ALONG-SLIT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=90.0 Number Of Points=3 Angle Between Sides= Point Spacing=0.35546 Center Pattern=false Line Spacing=	Secondary Pattern	Exposures (3)																																					
Fixed Targets	# Name Target Coordinates Targ. Coord. Corrections Fluxes Miscellaneous (3) MESSIER-060-NUC RA: 12 43 40.0001 (190.9166671d) Dec: +11 33 8.24 (11.55229d) Equinox: J2000 Comments: This object was generated by the targetselector and retrieved from the NED database.	V=10.28+/-0.08 Reference Frame: ICRS																																							
Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>(3) MESSIER-060-N UC</td> <td>STIS/CCD, ACQ, F28X50LP</td> <td>MIRROR</td> <td>ACQTYPE=DIFFUSE; CHECKBOX=7; DIFFUSE-CENTER=FLUX-CENTROID</td> <td>GS ACQ SCENARIO BASE1B3</td> <td></td> <td>30.0 Secs [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td></td> <td>(3) MESSIER-060-N UC</td> <td>STIS/CCD, ACQ/PEAK, 52X0.1E1</td> <td>MIRROR</td> <td></td> <td></td> <td></td> <td>5.0 Secs [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td></td> <td>(3) MESSIER-060-N UC</td> <td>STIS/CCD, ACCUM, 52X0.1E1</td> <td>G750M 6768 A</td> <td>CR-SPLIT=2</td> <td></td> <td>Pattern 1, Exps 3-3 (1)</td> <td>562.0 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	1		(3) MESSIER-060-N UC	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=7; DIFFUSE-CENTER=FLUX-CENTROID	GS ACQ SCENARIO BASE1B3		30.0 Secs [==>]	[1]	2		(3) MESSIER-060-N UC	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				5.0 Secs [==>]	[1]	3		(3) MESSIER-060-N UC	STIS/CCD, ACCUM, 52X0.1E1	G750M 6768 A	CR-SPLIT=2		Pattern 1, Exps 3-3 (1)	562.0 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]	[1]
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit																																
1		(3) MESSIER-060-N UC	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=7; DIFFUSE-CENTER=FLUX-CENTROID	GS ACQ SCENARIO BASE1B3		30.0 Secs [==>]	[1]																																
2		(3) MESSIER-060-N UC	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				5.0 Secs [==>]	[1]																																
3		(3) MESSIER-060-N UC	STIS/CCD, ACCUM, 52X0.1E1	G750M 6768 A	CR-SPLIT=2		Pattern 1, Exps 3-3 (1)	562.0 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]	[1]																																



Proposal 11606 - Visit 09 - Dynamical Hypermassive Black Hole Masses

Wed Jul 08 01:14:25 GMT 2009

Visit	Proposal 11606, Visit 09, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: ORIENT 140D TO 170D FROM 07					
	Patterns	# Primary Pattern (1) Pattern Type=STIS-ALONG-SLIT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=90.0 Number Of Points=3 Angle Between Sides= Point Spacing=0.35546 Center Pattern=false Line Spacing=	Secondary Pattern	Exposures (3)		
Fixed Targets	# Name Target Coordinates Targ. Coord. Corrections Fluxes Miscellaneous (3) MESSIER-060-NUC RA: 12 43 40.0001 (190.9166671d) Dec: +11 33 8.24 (11.55229d) Equinox: J2000 Comments: This object was generated by the targetselector and retrieved from the NED database.	# Label Target Config,Mode,Aperture Spectral Els. Opt. Params. Special Reqs. Groups Exp. Time/[Actual Dur.] Orbit 1 (3) MESSIER-060-N UC STIS/CCD, ACQ, F28X50LP MIRROR ACQTYPE=DIFFUSE; GS ACQ SCENARIO BASE1B3 CHECKBOX=7; DIFFUSE-CENTER=FLUX-CENTROID 30.0 Secs [==>] [1]	2 (3) MESSIER-060-N UC STIS/CCD, ACQ/PEAK, 52X0.1E1 MIRROR 5.0 Secs [==>] [1]	3 (3) MESSIER-060-N UC STIS/CCD, ACCUM, 52X0.1E1 G750M CR-SPLIT=2 Pattern 1, Exps 3-3 (1) 562.0 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)] [1]		



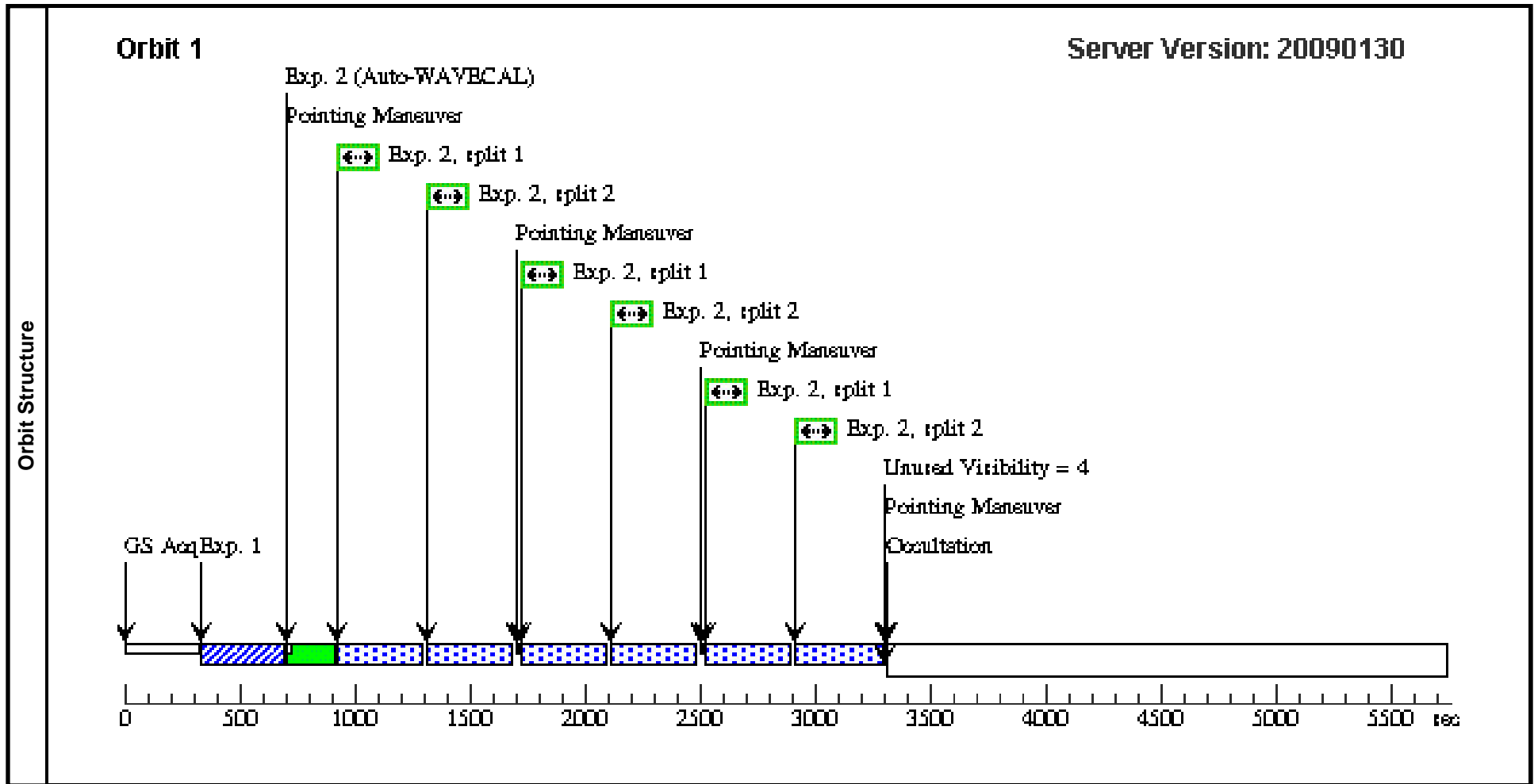
Proposal 11606 - Visit 10 - Dynamical Hypermassive Black Hole Masses

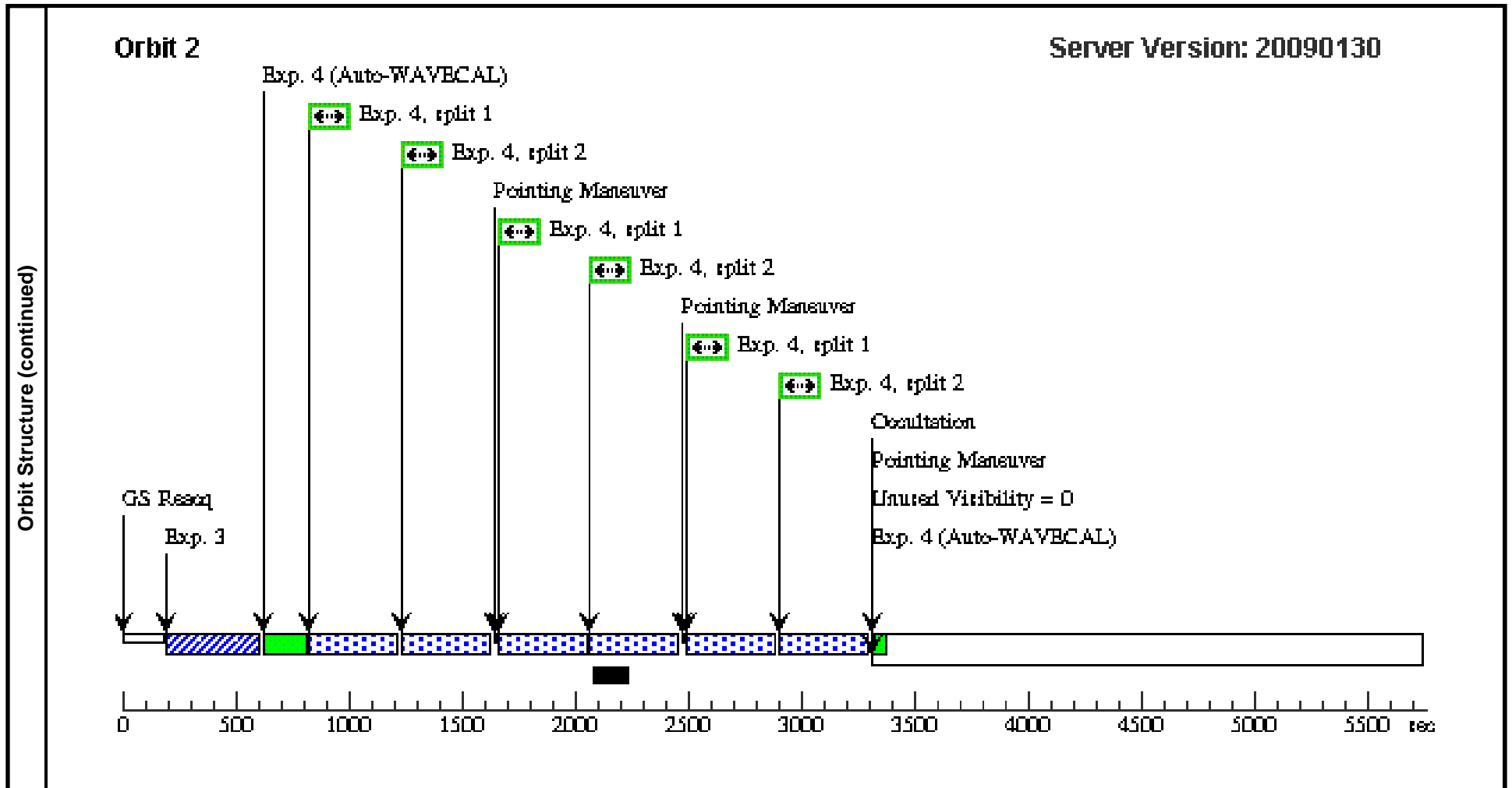
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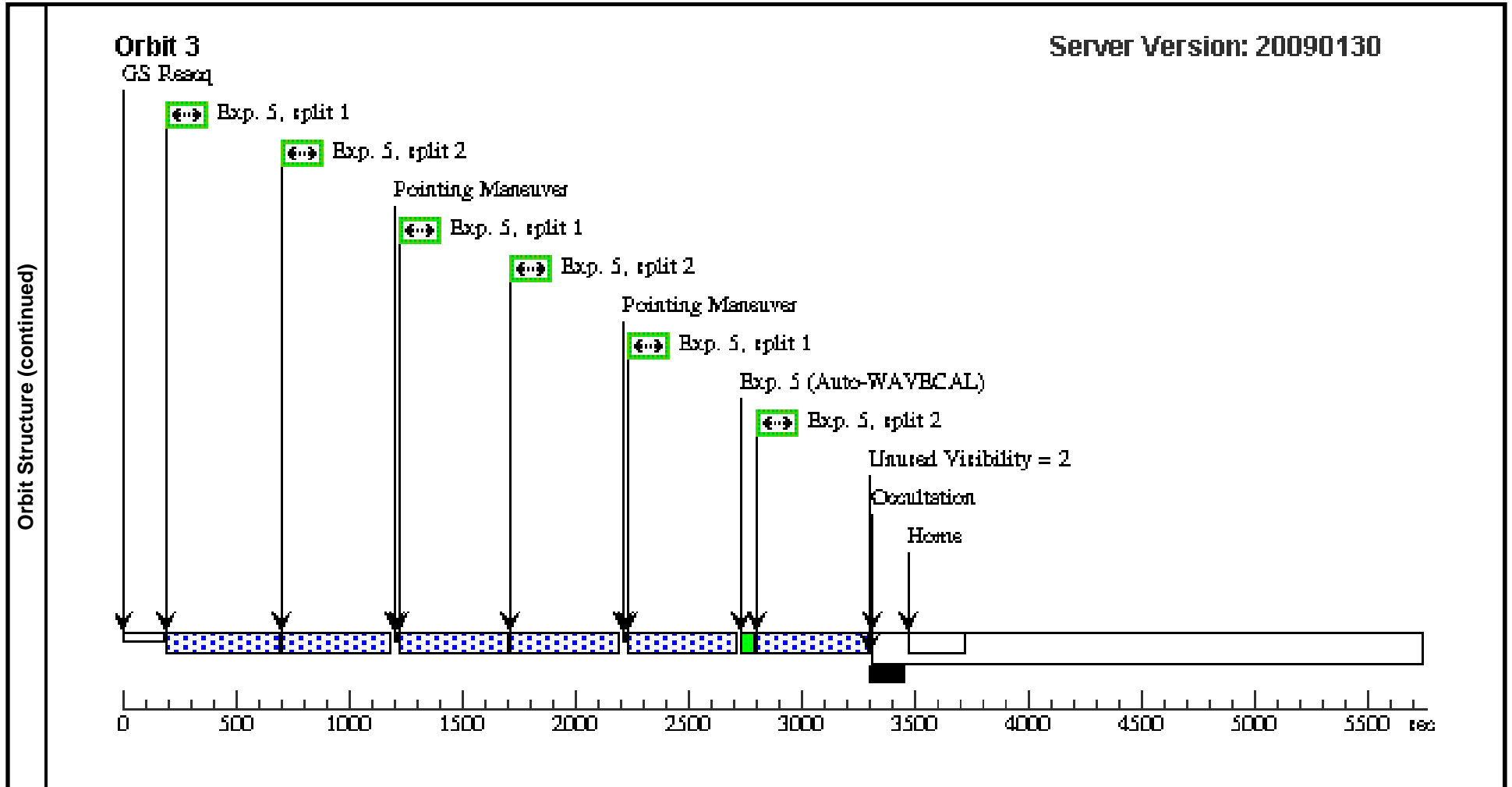
Visit	<p>Proposal 11606, Visit 10, scheduling</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: STIS/CCD</p> <p>Special Requirements: PCS MODE FINE</p> <p><i>Comments: 3 orbits this visit.</i></p> <p><i>O1 - 0.2E aperture, ACQ followed by offset -0.2x postargs.</i></p> <p><i>O2 - 0.1E aperture, ACQ-PEAK, no offset.</i></p> <p><i>O3 - 0.2E aperture, 0.2x postargs.</i></p> <p><i>The "Warning: Pattern position outside aperture" is due to an applied postarg after target acquisition. The observations are designed this way to reduce overheads in O2.</i></p>									
	<p>(Visit 10) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE</p> <p>(Visit 10) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE</p>									
Diagnosics										
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG						(2), (4), (5)	
		Purpose=DITHER	Pattern Orientation=90.0							
		Number Of Points=3	Angle Between Sides=							
		Point Spacing=0.35546	Center Pattern=false							
		Line Spacing=								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	NGC-1399-NUC	RA: 03 38 28.9748 (54.6207283d) Dec: -35 27 2.49 (-35.45069d) Equinox: J2000		V=10.65+/-0.03	Reference Frame: ICRS				
	<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(4) NGC-1399-NUC	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; SE;	CHECKBOX=7.0; DIFFUSE-CENTER=FLUX-CENTROID			30.0 Secs [==>]	[1]
	2	(4) NGC-1399-NUC	STIS/CCD, ACCUM, 52X0.2E1	G750M 6768 A	BINAXIS1=2; BINAXIS2=2; CR-SPLIT=2	POS TARG -0.2,0.0	Pattern 1, Exps 2-2 (1)		720.0 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]	[1]

Proposal 11606 - Visit 10 - Dynamical Hypermassive Black Hole Masses

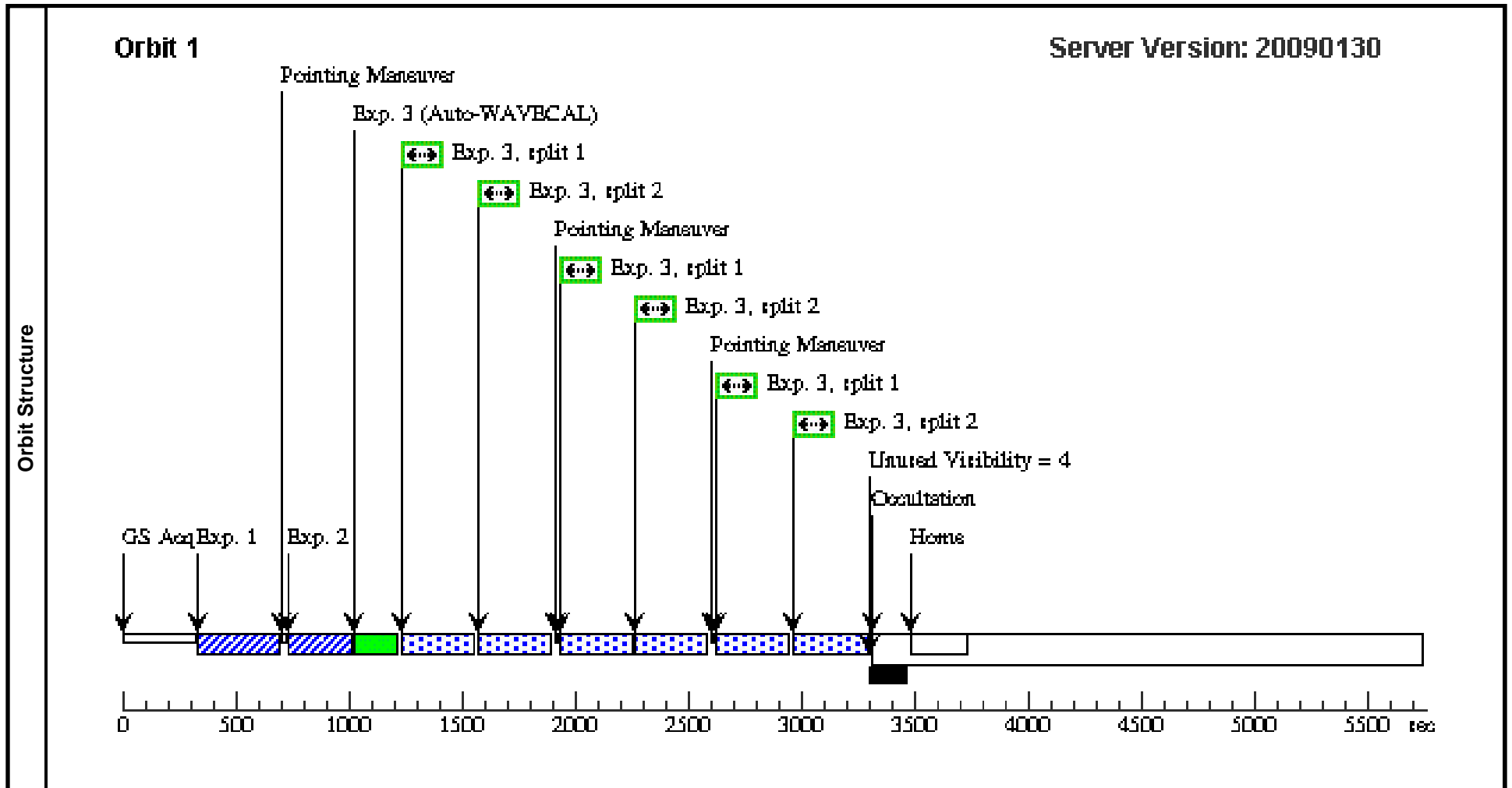
Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	3	(4) NGC-1399-NUC	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR					5.0 Secs	
	4	(4) NGC-1399-NUC	STIS/CCD, ACCUM, 52X0.1E1	G750M 6768 A	CR-SPLIT=2	POS TARG 0.0,0.0	Pattern 1, Exps 4-4 (1)	720.0 Secs	[==>] [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]	[2]
5	(4) NGC-1399-NUC	STIS/CCD, ACCUM, 52X0.2E1	G750M 6768 A	BINAXIS1=2; BINAXIS2=2; CR-SPLIT=2	POS TARG 0.2,0.0	Pattern 1, Exps 5-5 (1)	934.0 Secs	[==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]	[3]	







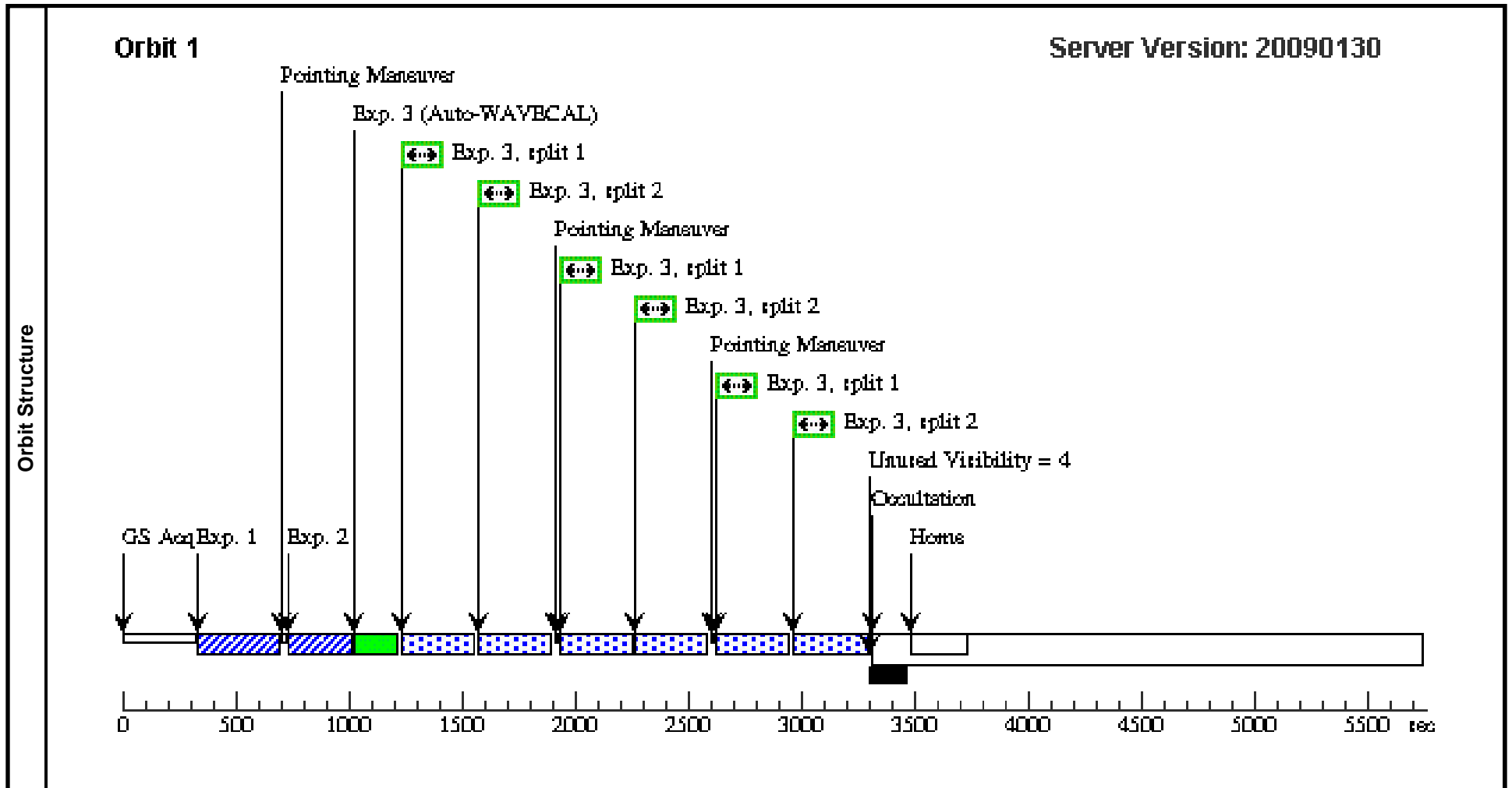
Visit	Proposal 11606, Visit 11, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: PCS MODE FINE; ORIENT 50D TO 70D FROM 10									
	Patterns	#	Primary Pattern	Secondary Pattern		Exposures				
(1)		Pattern Type=STIS-ALONG-SLIT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=90.0 Number Of Points=3 Angle Between Sides= Point Spacing=0.35546 Center Pattern=false Line Spacing=			(3)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	NGC-1399-NUC	RA: 03 38 28.9748 (54.6207283d) Dec: -35 27 2.49 (-35.45069d) Equinox: J2000		V=10.65+/-0.03	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(4) NGC-1399-NUC	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; SE; CHECKBOX=7; DIFFUSE-CENTER=FLUX-CENTROID				30.0 Secs [==>]	[1]
	2	(4) NGC-1399-NUC	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR					5.0 Secs [==>]	[1]
	3	(4) NGC-1399-NUC	STIS/CCD, ACCUM, 52X0.1E1	G750M 6768 A	CR-SPLIT=2			Pattern 1, Exps 3-3 (1)	582.0 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]	[1]



Proposal 11606 - Visit 12 - Dynamical Hypermassive Black Hole Masses

Wed Jul 08 01:14:27 GMT 2009

Visit	Proposal 11606, Visit 12, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: ORIENT 110D TO 130D FROM 10								
	Patterns	# Primary Pattern (1) Pattern Type=STIS-ALONG-SLIT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=90.0 Number Of Points=3 Angle Between Sides= Point Spacing=0.35546 Center Pattern=false Line Spacing=	Secondary Pattern	Exposures (3)					
Fixed Targets	# Name Target Coordinates Targ. Coord. Corrections Fluxes Miscellaneous (4) NGC-1399-NUC RA: 03 38 28.9748 (54.6207283d) Dec: -35 27 2.49 (-35.45069d) Equinox: J2000 Comments: This object was generated by the targetselector and retrieved from the NED database.								
Exposures	# Label Target Config,Mode,Aperture Spectral Els. Opt. Params. Special Reqs. Groups Exp. Time/[Actual Dur.] Orbit								
	1	(4) NGC-1399-NUC	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; CHECKBOX=7; DIFFUSE-CENTER=FLUX-CENTROID			30.0 Secs [==>]	[1]
	2	(4) NGC-1399-NUC	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				5.0 Secs [==>]	[1]
	3	(4) NGC-1399-NUC	STIS/CCD, ACCUM, 52X0.1E1	G750M 6768 A	CR-SPLIT=2		Pattern 1, Exps 3-3 (1)	582.0 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]	[1]



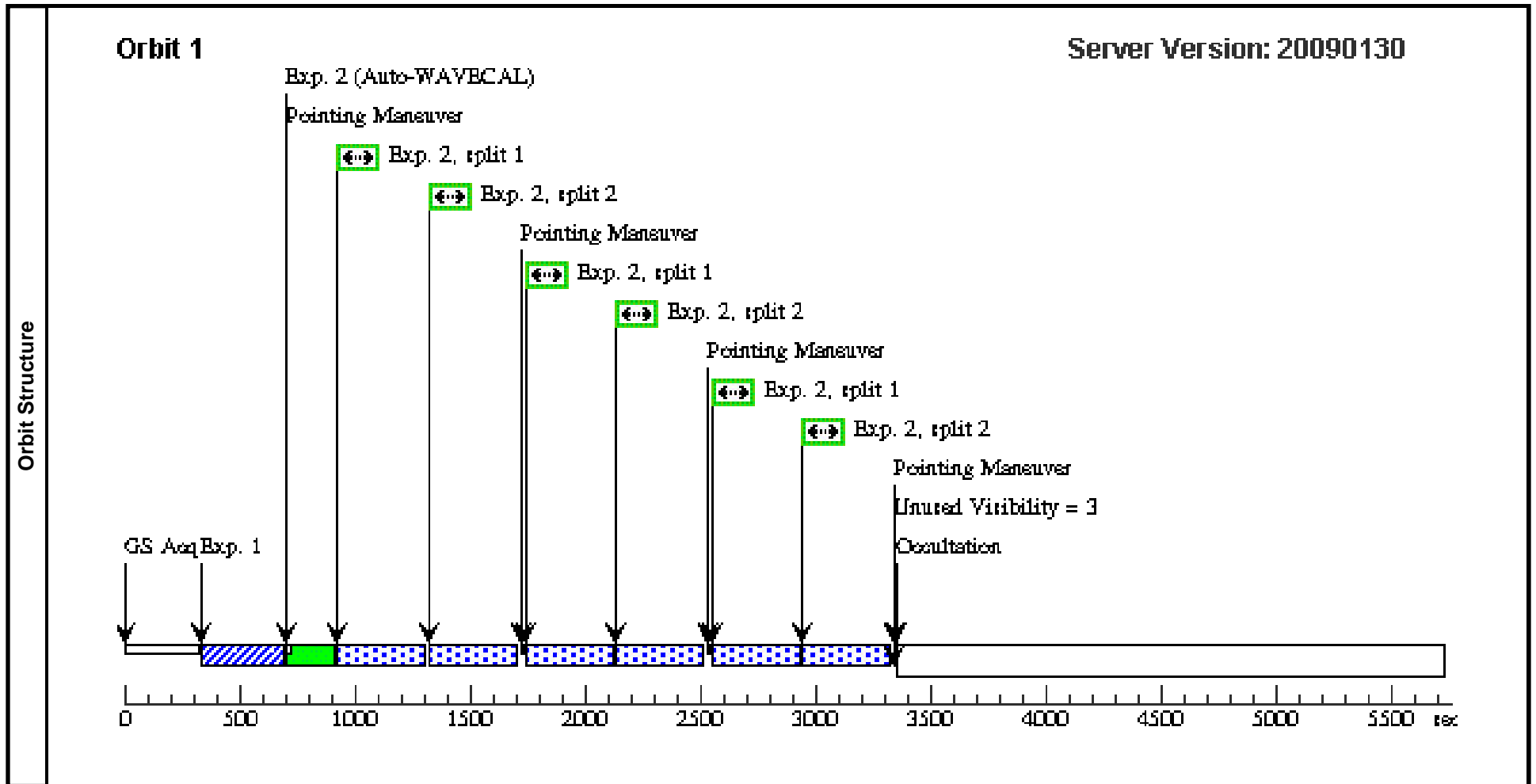
Proposal 11606 - Visit 13 - Dynamical Hypermassive Black Hole Masses

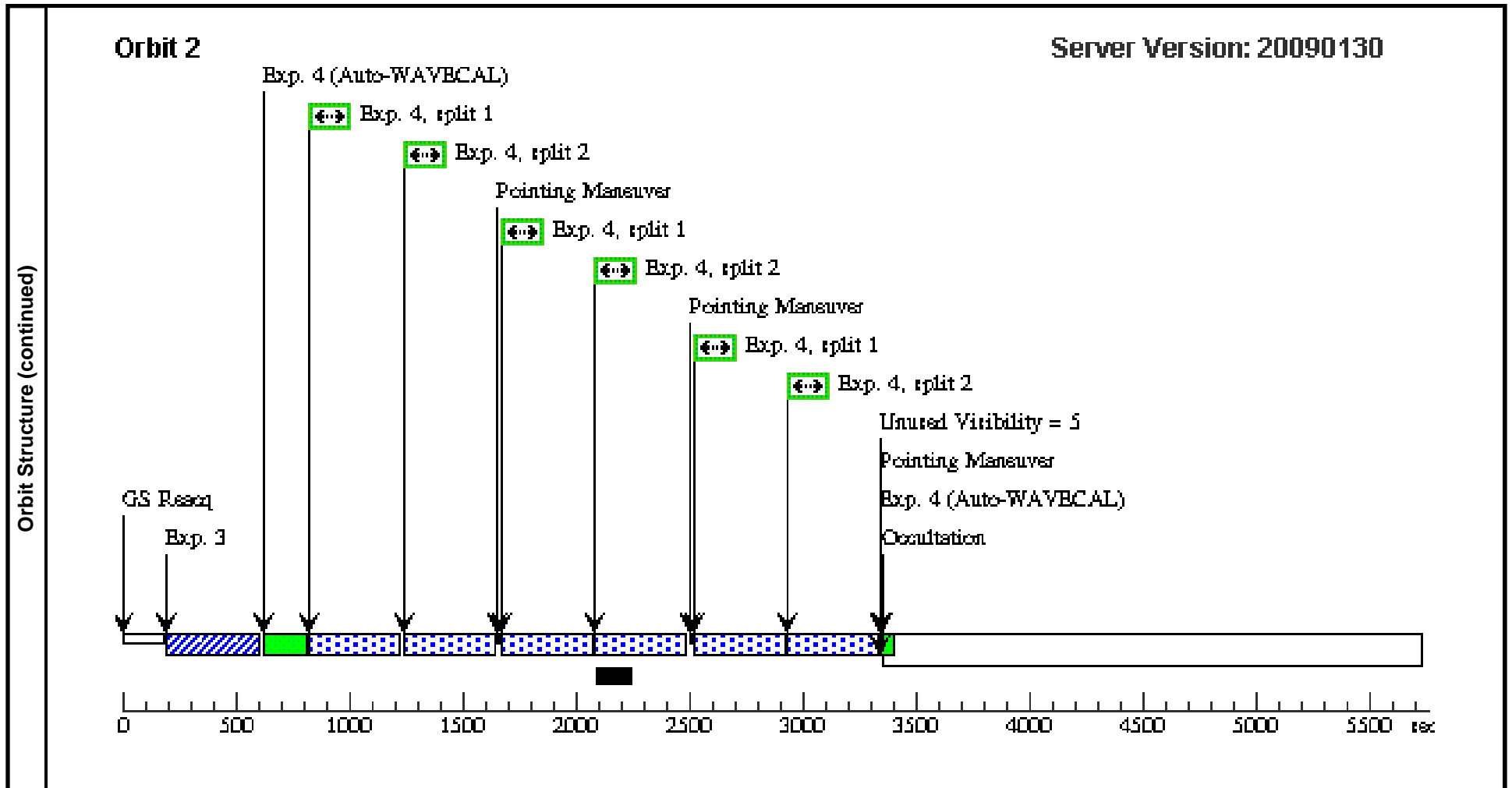
Wed Jul 08 01:14:27 GMT 2009

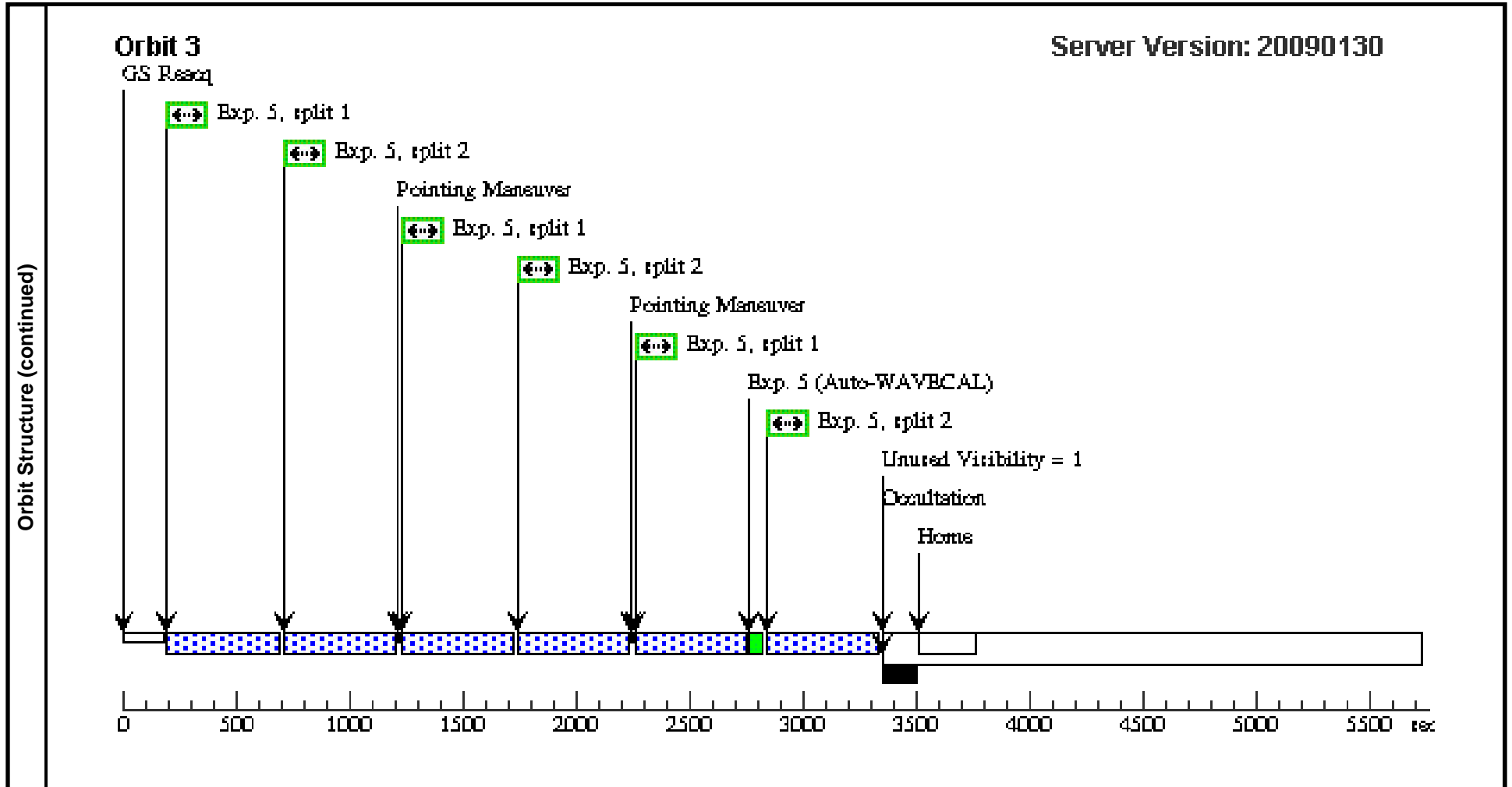
Visit	Proposal 11606, Visit 13, scheduling Diagnostic Status: Warning Scientific Instruments: STIS/CCD Special Requirements: PCS MODE FINE Comments: 3 orbits this visit. O1 - 0.2E aperture, ACQ followed by offset -0.2x postargs. O2 - 0.1E aperture, ACQ-PEAK, no offset. O3 - 0.2E aperture, 0.2x postargs. The "Warning: Pattern position outside aperture" is due to an applied postarg after target acquisition. The observations are designed this way to reduce overheads in O2.									
	Diagnosics (Visit 13) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE (Visit 13) Warning (Orbit Planner): PATTERN POSITION OUTSIDE APERTURE									
Patterns	#	Primary Pattern				Secondary Pattern			Exposures	
	(1)	Pattern Type=STIS-ALONG-SLIT	Coordinate Frame=POS-TARG						(2), (4), (5)	
		Purpose=DITHER	Pattern Orientation=90.0							
		Number Of Points=3	Angle Between Sides=							
		Point Spacing=0.35546	Center Pattern=false							
		Line Spacing=								
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	UGC-01841-NUC	RA: 02 23 11.5149 (35.7979788d) Dec: +42 59 31.25 (42.99201d) Equinox: J2000		V=14.0+/-0.3	Reference Frame: ICRS				
	Comments: This object was generated by the targetselector and retrieved from the NED database.									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(5) UGC-01841-NUC	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; SE;	CHECKBOX=7.0;		30.0 Secs	
			C				DIFFUSE-CENTER=FLUX-CENTROID		[==>]	[1]
	2		(5) UGC-01841-NUC	STIS/CCD, ACCUM, 52X0.2E1	G750M 6768 A	BINAXIS1=2;	POS TARG -0.2,0.0	Pattern 1, Exps 2-2 (1)	734.0 Secs	
			C			CR-SPLIT=2			[==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]	[1]

Proposal 11606 - Visit 13 - Dynamical Hypermassive Black Hole Masses

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures (continued)	3		(5) UGC-01841-NU C	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				5.0 Secs [==>]	[2]
	4		(5) UGC-01841-NU C	STIS/CCD, ACCUM, 52X0.1E1	G750M 6768 A	CR-SPLIT=2	POS TARG 0.0,0.0	Pattern 1, Exps 4-4 (1)	732.0 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]	[2]
	5		(5) UGC-01841-NU C	STIS/CCD, ACCUM, 52X0.2E1	G750M 6768 A	BINAXIS1=2; BINAXIS2=2; CR-SPLIT=2	POS TARG 0.2,0.0	Pattern 1, Exps 5-5 (1)	948.0 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]	[3]



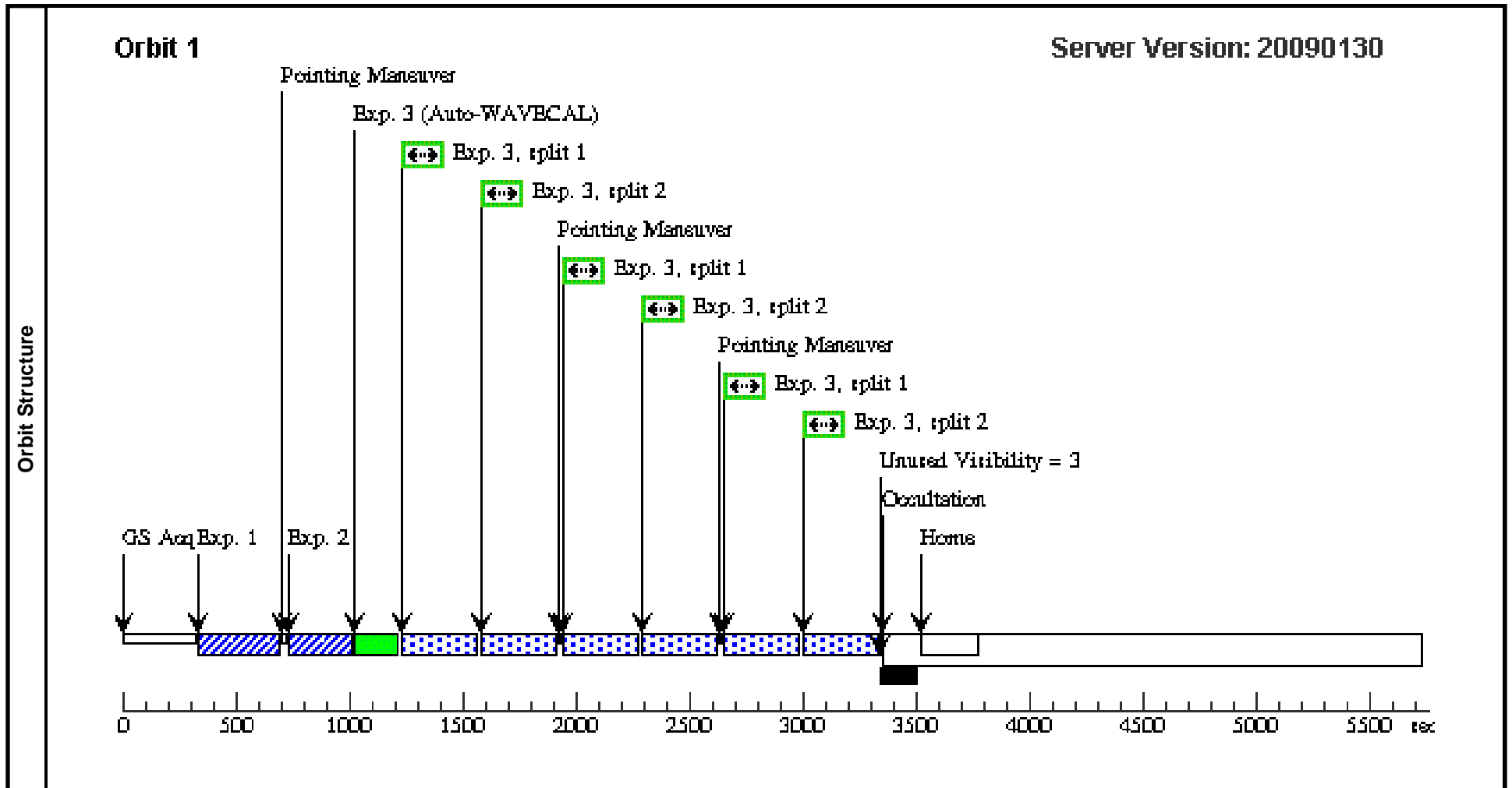




Proposal 11606 - Visit 14 - Dynamical Hypermassive Black Hole Masses

Wed Jul 08 01:14:28 GMT 2009

Visit	Proposal 11606, Visit 14, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: PCS MODE FINE; ORIENT 50D TO 70D FROM 13									
	Patterns	#	Primary Pattern	Secondary Pattern		Exposures				
(1)		Pattern Type=STIS-ALONG-SLIT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=90.0 Number Of Points=3 Angle Between Sides= Point Spacing=0.35546 Center Pattern=false Line Spacing=			(3)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	UGC-01841-NUC	RA: 02 23 11.5149 (35.7979788d) Dec: +42 59 31.25 (42.99201d) Equinox: J2000		V=14.0+/-0.3	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(5) UGC-01841-NUC	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; SE;	CHECKBOX=7; DIFFUSE-CENTER=FLUX-CENTROID		30.0 Secs [==>]	[1]
	2		(5) UGC-01841-NUC	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				5.0 Secs [==>]	[1]
	3		(5) UGC-01841-NUC	STIS/CCD, ACCUM, 52X0.1E1	G750M 6768 A	CR-SPLIT=2		Pattern 1, Exps 3-3 (1)	595.0 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]	[1]



Proposal 11606 - Visit 15 - Dynamical Hypermassive Black Hole Masses

Wed Jul 08 01:14:28 GMT 2009

Visit	Proposal 11606, Visit 15, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: ORIENT 110D TO 130D FROM 13									
	Patterns	#	Primary Pattern	Secondary Pattern			Exposures			
(1)		Pattern Type=STIS-ALONG-SLIT Coordinate Frame=POS-TARG Purpose=DITHER Pattern Orientation=90.0 Number Of Points=3 Angle Between Sides= Point Spacing=0.35546 Center Pattern=false Line Spacing=				(3)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	UGC-01841-NUC	RA: 02 23 11.5149 (35.7979788d) Dec: +42 59 31.25 (42.99201d) Equinox: J2000		V=14.0+/-0.3	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the NED database.</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(5) UGC-01841-NUC	STIS/CCD, ACQ, F28X50LP	MIRROR	ACQTYPE=DIFFUSE; SE;	CHECKBOX=7; DIFFUSE-CENTER=FLUX-CENTROID		30.0 Secs [==>]	[1]
	2		(5) UGC-01841-NUC	STIS/CCD, ACQ/PEAK, 52X0.1E1	MIRROR				5.0 Secs [==>]	[1]
	3		(5) UGC-01841-NUC	STIS/CCD, ACCUM, 52X0.1E1	G750M 6768 A	CR-SPLIT=2		Pattern 1, Exps 3-3 (1)	595.0 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)]	[1]

