



## 11626 - Searching for the Upper Mass Limit in NGC 3603, the Nearest Giant H II Region

Cycle: 17, Proposal Category: GO

(Availability Mode: SUPPORTED)

### INVESTIGATORS

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### VISITS

Proposal 11626 (STScI Edit Number: 0, Created: Tuesday, June 17, 2008 8:17:12 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>
01	(13) N3603-306 (14) N3603-307 (15) N3603-308 (16) N3603-309 (17) N3603-310 (26) N3603-129 (27) N3603-316 (28) N3603-317 (29) N3603-139 (42) N3603-OFFSET (43) N3603-CENTER	STIS/CCD	5	17-Jun-2008 21:09:36.0	yes
02	(12) N3603-111 (19) N3603-311 (20) N3603-312 (21) N3603-125 (22) N3603-135 (23) N3603-314 (24) N3603-315 (25) N3603-128 (32) N3603-319 (42) N3603-OFFSET (43) N3603-CENTER	STIS/CCD	5	17-Jun-2008 21:10:24.0	yes

Proposal 11626 (STScI Edit Number: 0, Created: Tuesday, June 17, 2008 8:17:12 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>
03	(18) N3603-120 (30) N3603-318 (31) N3603-137 (33) N3603-141 (42) N3603-OFFSET (43) N3603-CENTER (44) N3603-33A (45) N3603-33B	STIS/CCD	4	17-Jun-2008 21:11:04.0	yes
04	(1) N3603-A1 (2) N3603-B (3) N3603-A2 (4) N3603-301 (5) N3603-42 (6) N3603-302 (7) N3603-A3 (8) N3603-303 (9) N3603-38 (10) N3603-40 (11) N3603-304 (42) N3603-OFFSET (43) N3603-CENTER	STIS/CCD	5	17-Jun-2008 21:12:22.0	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>
05	(1) N3603-A1 (2) N3603-B (3) N3603-A2 (4) N3603-301 (5) N3603-42 (6) N3603-302 (7) N3603-A3 (8) N3603-303 (9) N3603-38 (10) N3603-40 (11) N3603-304 (42) N3603-OFFSET (43) N3603-CENTER	STIS/CCD	4	17-Jun-2008 21:13:39.0	yes
06	(1) N3603-A1 (2) N3603-B (3) N3603-A2 (4) N3603-301 (5) N3603-42 (6) N3603-302 (7) N3603-A3 (8) N3603-303 (9) N3603-38 (10) N3603-40 (11) N3603-304 (42) N3603-OFFSET (43) N3603-CENTER	STIS/CCD	5	17-Jun-2008 21:16:57.0	yes

28 Total Orbits Used

## **ABSTRACT**

What is the mass of the highest mass star? 100 $M_{\odot}$ ? 150 $M_{\odot}$ ? 200 $M_{\odot}$ ? Or higher? Theory gives us little guidance as to what physics sets the upper mass limit, presuming one exists. Is it due to limitations in the highest masses that can coalesce? Or is it due to stability issues in such a behemoth? Observationally, the upper mass limit is poorly constrained at present, with the strongest evidence coming from the K-band luminosity function of the Arches cluster near the Galactic Center. Here we propose to investigate this question by determining the Initial Mass Function of NGC 3603, the nearest giant H II region. This cluster is known to contain a wealth of O3 and hydrogen-rich Wolf-Rayets, the most luminous and massive of stars. By constructing an accurate H-R diagram for the cluster, we will construct a present day mass function using newly computed high mass evolutionary tracks, and convert this to an initial mass function using the inferred ages. This will allow us to see whether or not there is a true deficit of high mass stars, evidence of an upper mass cutoff. At the same time we are likely to establish good masses for the highest mass stars ever determined. We have laid the groundwork for this project using the Magellan 6.5-m telescope and the excellent seeing found on Las Campanas, plus analysis of archival ACS/HRS frames, but we now need to obtain spectra of the stars unobservable from the ground. This can only be done with HST and a refurbished STIS.

## **OBSERVING DESCRIPTION**

We will be taking spectra of many stars in the NGC 3603 cluster, which fortuitously lies at a declination where it often is in a CVZ. The field is relatively crowded' usually there are other equally bright stars within 0.5-1" of any given target. We will use the 0.2" slit, and so our observing strategy is to do a single ACQ at the start of each visit, using a bright, isolated star about 1' away from the targets. Doing individual ACQs would be not only costly in terms of observing time, but the crowding would complicate the situation. We will begin and end each visit with a short direct image in order to help look for eclipsing binaries.

## **CALIBRATION JUSTIFICATION**

NGC 3603 is a rich, crowded cluster of O-type stars that fortunately lies smack in the middle of a CVZ, and we plan to fully utilize this. In general, our observing strategy is to do a single ACQ for each 4 or 5 orbit visit, and take spectra of multiple stars (with a single wavelength setting) throughout the visit. (We will occasionally redo the ACQ.) We begin and end each visit with a short, unfiltered direct image.

<b>Visit</b>					
<b>Patterns</b>		<b>Proposal 11626, Visit 01, implementation</b>			
		<b>Diagnostic Status: No Diagnostics</b>			
		Scientific Instruments: STIS/CCD Special Requirements: CVZ			
#	<b>Primary Pattern</b>	<b>Secondary Pattern</b>	<b>Exposures</b>		
(2)	Pattern Type=STIS-CCD-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.567 Line Spacing=0.567	Coordinate Frame=POS-TARG Pattern Orientation=26.6 Angle Between Sides=143.130102 Center Pattern=false	(1), (12)		
(3)	Pattern Type=STIS-ALONG-SLIT Purpose=DITHER Number Of Points=3 Point Spacing=0.5 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=false	(3), (4), (5), (6), (7), (8), (9), (10), (11)		
#	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
(13)	N3603-306	RA: 11 15 7.7729 (168.7823871d) Dec: -61 15 35.15 (-61.25976d) Equinox: J2000		V=13.99+/-0.03 B-V=1.06	Reference Frame: ICRS
(14)	N3603-307	RA: 11 15 6.6616 (168.7777567d) Dec: -61 15 39.33 (-61.26092d) Equinox: J2000		V=14.13+/-0.03 B-V=1.01	Reference Frame: ICRS
(15)	N3603-308	RA: 11 15 6.7231 (168.7780129d) Dec: -61 15 32.40 (-61.25900d) Equinox: J2000		V=14.15+/-0.03 B-V=0.99	Reference Frame: ICRS
(16)	N3603-309	RA: 11 15 7.7557 (168.7823154d) Dec: -61 15 41.09 (-61.26141d) Equinox: J2000		V=14.26+/-0.03 B-V=1.09	Reference Frame: ICRS
(17)	N3603-310	RA: 11 15 7.2471 (168.7801962d) Dec: -61 15 37.19 (-61.26033d) Equinox: J2000		V=14.28+/-0.03 B-V=1.01	Reference Frame: ICRS
(26)	N3603-129	RA: 11 15 6.7005 (168.7779188d) Dec: -61 15 38.81 (-61.26078d) Equinox: J2000		V=14.78+/-0.03 B-V=0.99	Reference Frame: ICRS
(27)	N3603-316	RA: 11 15 7.1787 (168.7799112d) Dec: -61 15 40.31 (-61.26120d) Equinox: J2000		V=14.82+/-0.03 B-V=1.05	Reference Frame: ICRS
<b>Fixed Targets</b>					

Proposal 11626 - Visit 01 - Searching for the Upper Mass Limit in NGC 3603, the Nearest Giant H II Region

Fixed Targets (continued)	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(28)	N3603-317	RA: 11 15 7.1253 (168.7796888d) Dec: -61 15 34.50 (-61.25958d) Equinox: J2000		V=14.89+/-0.03 B-V=1.02	Reference Frame: ICRS
	(29)	N3603-139	RA: 11 15 7.6071 (168.7816962d) Dec: -61 15 32.62 (-61.25906d) Equinox: J2000		V=14.89+/-0.03 B-V=1.08	Reference Frame: ICRS
	(42)	N3603-OFFSET	RA: 11 15 9.8642 (168.7911008d) Dec: -61 15 30.45 (-61.25846d) Equinox: J2000		V=12.70+/-0.03 B-V=1.14	Reference Frame: ICRS
	(43)	N3603-CENTER	RA: 11 15 7.5890 (168.7816208d) Dec: -61 15 38.00 (-61.26056d) Equinox: J2000		V=11.30+/-0.03	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(43) N3603-CENTE R	STIS/CCD, ACCUM, 50CCD	MIRROR	CR-SPLIT=NO		Pattern 1-1 (2)	0.1 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2		(42) N3603-OFFSET	STIS/CCD, ACQ, F28X50LP	MIRROR				0.2 Secs [==>]	[1]
	3		(26) N3603-129	STIS/CCD, ACCUM, 52X0.2	G430M 4451 A	CR-SPLIT=2		Pattern 3-3 (3)	900 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]
	4		(27) N3603-316	STIS/CCD, ACCUM, 52X0.2	G430M 4451 A	CR-SPLIT=2		Pattern 4-4 (3)	975 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] [2]

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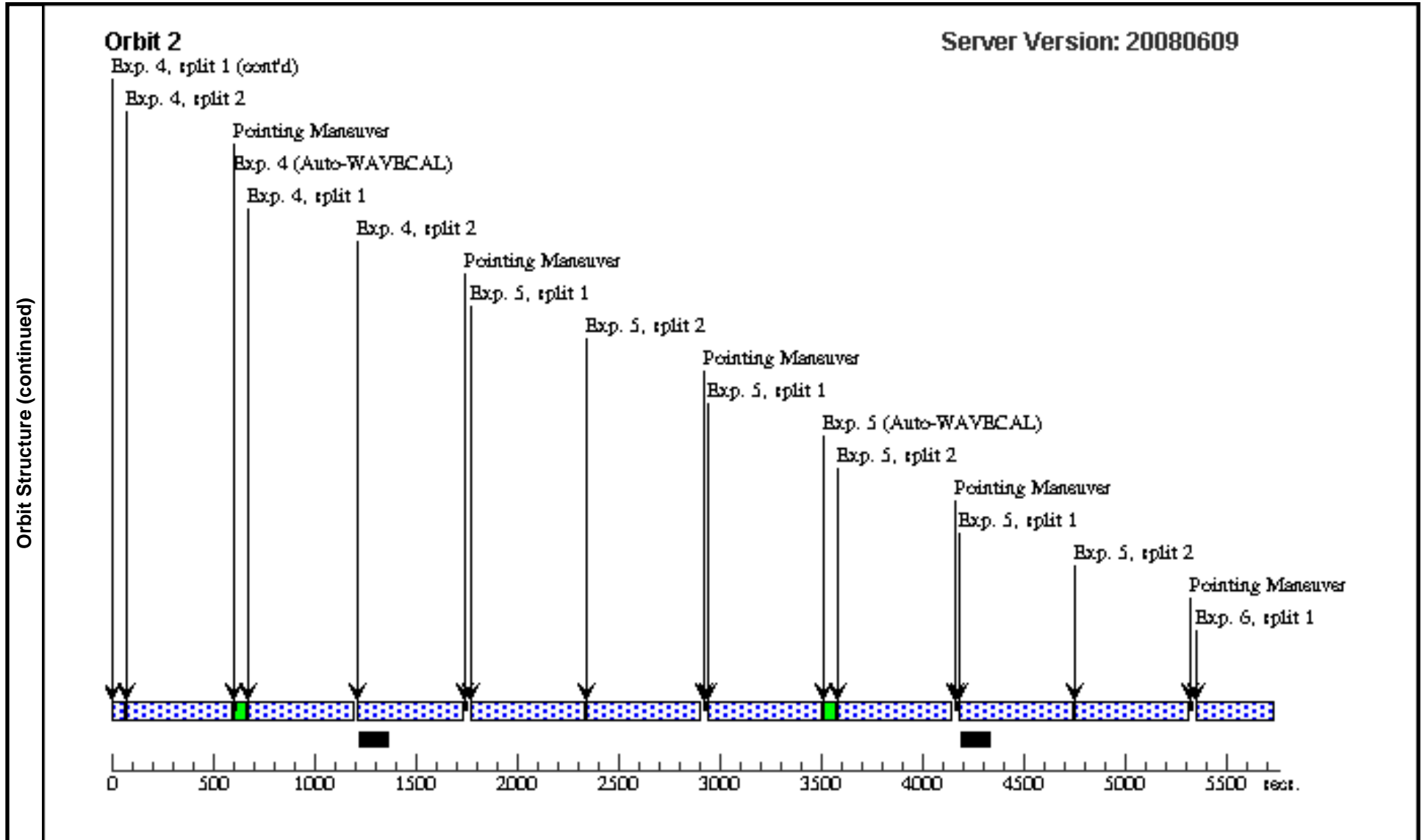
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
5	(28) N3603-317		STIS/CCD, ACCUM, 52X0.2	G430M 4451 A	CR-SPLIT=2		Pattern 5-5 (3)	1050 Secs	[2]
								[==>(Pattern 1, Split 1)]	
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								[==>(Pattern 2, Split 1)]	
								[==>(Pattern 2, Split 2)]	
[==>(Pattern 3, Split 1)]									
[==>(Pattern 3, Split 2)]									
6	(29) N3603-139		STIS/CCD, ACCUM, 52X0.2	G430M 4451 A	CR-SPLIT=2		Pattern 6-6 (3)	1050 Secs	[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)]									
7	(17) N3603-310		STIS/CCD, ACCUM, 52X0.2	G430M 4451 A	CR-SPLIT=2		Pattern 7-7 (3)	800 Secs	[3]
								[==>(Pattern 1, Split 1)]	
								[==>(Pattern 1, Split 2)]	
								[==>(Pattern 2, Split 1)]	
								[==>(Pattern 2, Split 2)]	
[==>(Pattern 3, Split 1)]									
[==>(Pattern 3, Split 2)]									
8	(16) N3603-309		STIS/CCD, ACCUM, 52X0.2	G430M 4451 A	CR-SPLIT=2		Pattern 8-8 (3)	800 Secs	[4]
								[==>(Pattern 1, Split 1)]	
								[==>(Pattern 1, Split 2)]	
								[==>(Pattern 2, Split 1)]	
								[==>(Pattern 2, Split 2)]	
[==>(Pattern 3, Split 1)]									
[==>(Pattern 3, Split 2)]									
9	(15) N3603-308		STIS/CCD, ACCUM, 52X0.2	G430M 4451 A	CR-SPLIT=2		Pattern 9-9 (3)	720 Secs	[4]
								[==>(Pattern 1, Split 1)]	
								[==>(Pattern 1, Split 2)]	
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								[==>(Pattern 2, Split 2)]	
[==>(Pattern 3, Split 1)]									
[==>(Pattern 3, Split 2)]									

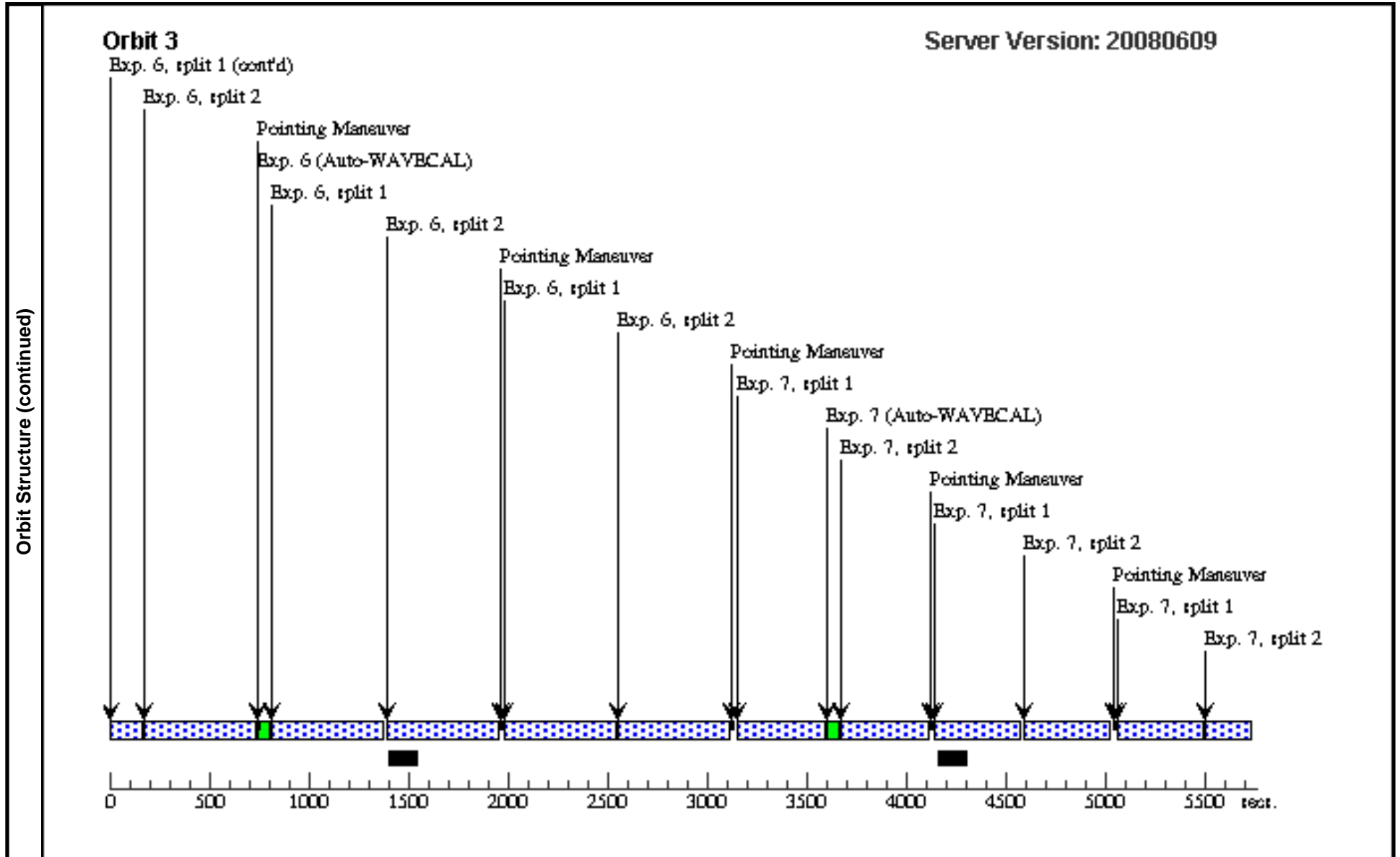
Exposures (continued)

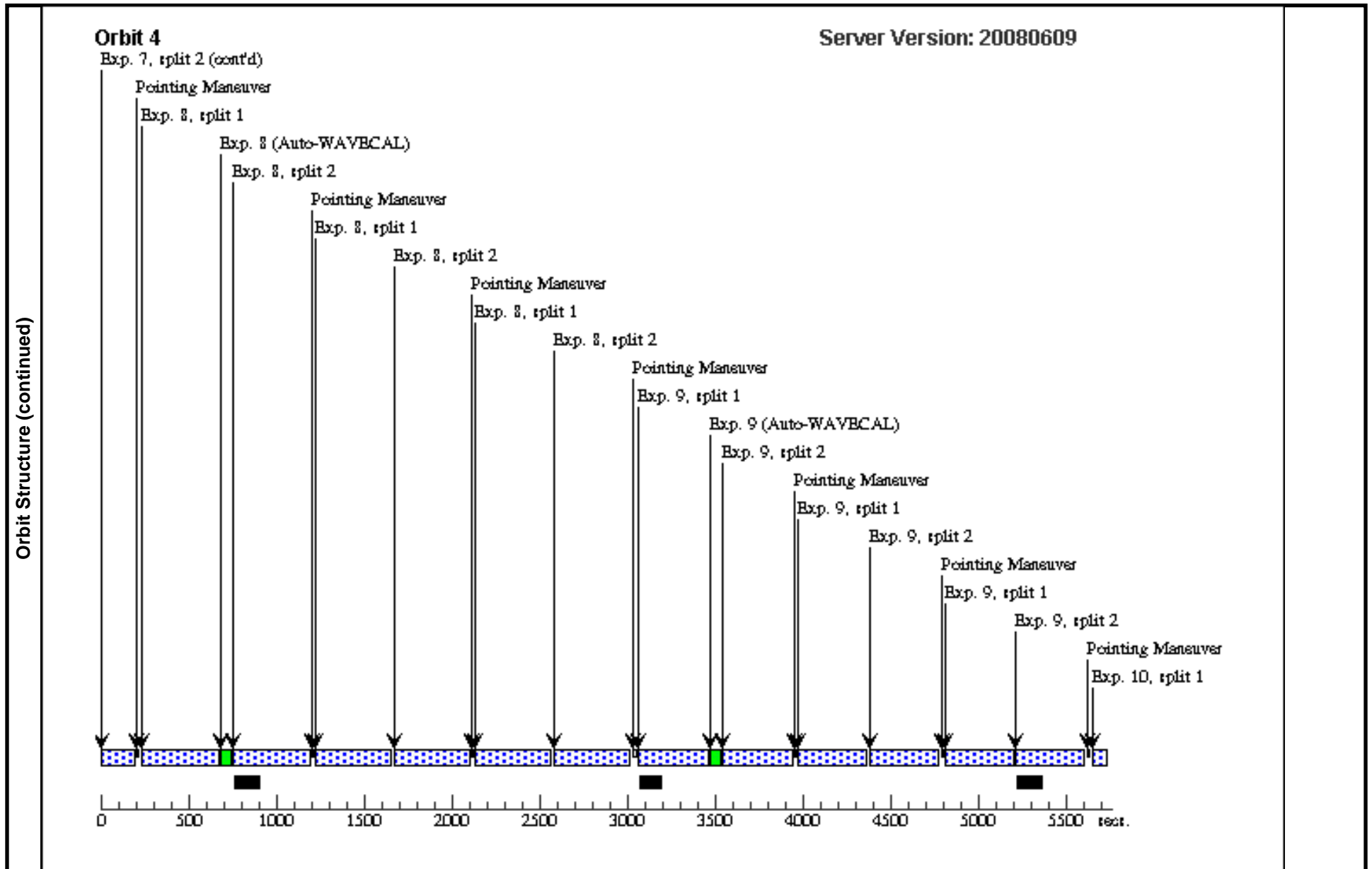
Proposal 11626 - Visit 01 - Searching for the Upper Mass Limit in NGC 3603, the Nearest Giant H II Region

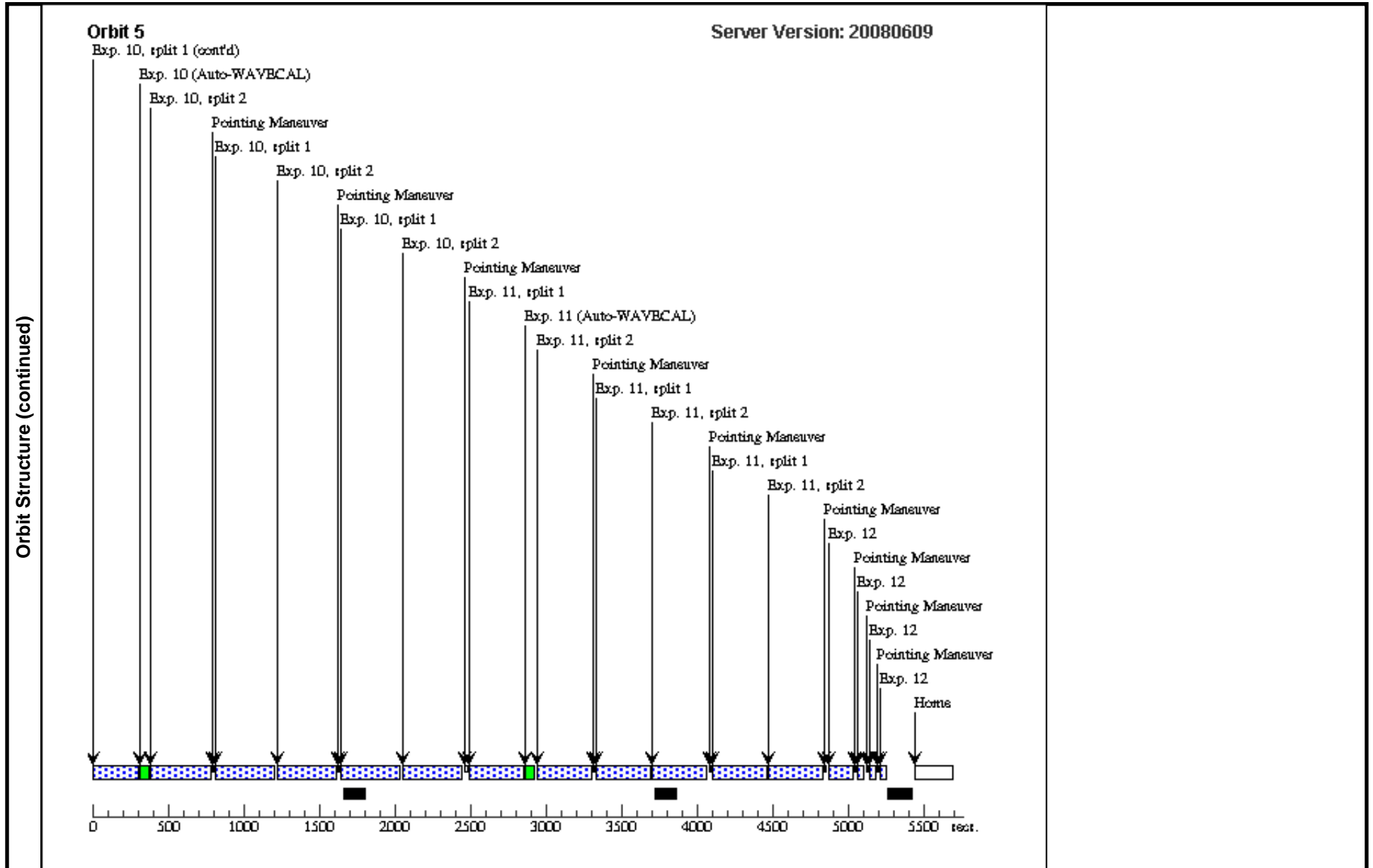
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures (continued)	10	(14) N3603-307	STIS/CCD, ACCUM, 52X0.2	G430M 4451 A	CR-SPLIT=2		Pattern 10-10 (3)	720 Secs [==>(Pattern 1, Split 1)]	[4]
								[==>(Pattern 1, Split 2)]	
								[==>(Pattern 2, Split 1)]	
								[==>(Pattern 2, Split 2)]	[5]
								[==>(Pattern 3, Split 1)]	
								[==>(Pattern 3, Split 2)]	
	11	(13) N3603-306	STIS/CCD, ACCUM, 52X0.2	G430M 4451 A	CR-SPLIT=2		Pattern 11-11 (3)	650 Secs [==>(Pattern 1, Split 1)]	
								[==>(Pattern 1, Split 2)]	
								[==>(Pattern 2, Split 1)]	
								[==>(Pattern 2, Split 2)]	[5]
							[==>(Pattern 3, Split 1)]		
							[==>(Pattern 3, Split 2)]		
12	(43) N3603-CENTE R	STIS/CCD, ACCUM, 50CCD	MIRROR		CR-SPLIT=NO		Pattern 12-12 (2)	0.1 Secs [==>(Pattern 1)]	
								[==>(Pattern 2)]	
								[==>(Pattern 3)]	[5]
								[==>(Pattern 4)]	











Proposal 11626 - Visit 02 - Searching for the Upper Mass Limit in NGC 3603, the Nearest Giant H II Region

Wed Jun 18 01:17:17 GMT 2008

Visit	Proposal 11626, Visit 02, implementation					
	Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD Special Requirements: CVZ					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(2)	Pattern Type=STIS-CCD-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.567 Line Spacing=0.567	Coordinate Frame=POS-TARG Pattern Orientation=26.6 Angle Between Sides=143.130102 Center Pattern=false		(1), (12)	
(3)	Pattern Type=STIS-ALONG-SLIT Purpose=DITHER Number Of Points=3 Point Spacing=0.5 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=false		(3), (4), (5), (6), (7), (8), (9), (10), (11)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(12)	N3603-111	RA: 11 15 6.7579 (168.7781579d) Dec: -61 15 35.61 (-61.25989d) Equinox: J2000		V=13.88+/-0.03 B-V=1.01	Reference Frame: ICRS
	(19)	N3603-311	RA: 11 15 7.1409 (168.7797538d) Dec: -61 15 34.36 (-61.25954d) Equinox: J2000		V=14.41+/-0.03 B-V=1.04	Reference Frame: ICRS
	(20)	N3603-312	RA: 11 15 6.9141 (168.7788088d) Dec: -61 15 39.31 (-61.26092d) Equinox: J2000		V=14.44+/-0.03 B-V=0.99	Reference Frame: ICRS
	(21)	N3603-125	RA: 11 15 7.6463 (168.7818596d) Dec: -61 15 31.33 (-61.25870d) Equinox: J2000		V=14.51+/-0.03 B-V=1.06	Reference Frame: ICRS
	(22)	N3603-135	RA: 11 15 8.1204 (168.7838350d) Dec: -61 15 40.25 (-61.26118d) Equinox: J2000		V=14.76+/-0.03 B-V=1.06	Reference Frame: ICRS
	(23)	N3603-314	RA: 11 15 6.8671 (168.7786129d) Dec: -61 15 35.91 (-61.25998d) Equinox: J2000		V=14.77+/-0.03 B-V=1.00	Reference Frame: ICRS
	(24)	N3603-315	RA: 11 15 7.4883 (168.7812012d) Dec: -61 15 40.17 (-61.26116d) Equinox: J2000		V=14.77+/-0.03 B-V=1.06	Reference Frame: ICRS

Proposal 11626 - Visit 02 - Searching for the Upper Mass Limit in NGC 3603, the Nearest Giant H II Region

Fixed Targets (continued)	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(25)	N3603-128	RA: 11 15 6.4387 (168.7768279d) Dec: -61 15 36.40 (-61.26011d) Equinox: J2000		V=14.78+/-0.03 B-V=0.97	Reference Frame: ICRS
	(32)	N3603-319	RA: 11 15 6.9238 (168.7788492d) Dec: -61 15 39.47 (-61.26096d) Equinox: J2000		V=15.02+/-0.03 B-V=1.01	Reference Frame: ICRS
	(42)	N3603-OFFSET	RA: 11 15 9.8642 (168.7911008d) Dec: -61 15 30.45 (-61.25846d) Equinox: J2000		V=12.70+/-0.03 B-V=1.14	Reference Frame: ICRS
	(43)	N3603-CENTER	RA: 11 15 7.5890 (168.7816208d) Dec: -61 15 38.00 (-61.26056d) Equinox: J2000		V=11.30+/-0.03	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(43) N3603-CENTE R	STIS/CCD, ACCUM, 50CCD	MIRROR	CR-SPLIT=NO		Pattern 1-1 (2)	0.1 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2		(42) N3603-OFFSET	STIS/CCD, ACQ, F28X50LP	MIRROR				0.2 Secs [==>]	[1]
	3		(32) N3603-319	STIS/CCD, ACCUM, 52X0.2	G430M 4451 A	CR-SPLIT=3		Pattern 3-3 (3)	1080 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 1, Split 3)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 2, Split 3)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)] [==>(Pattern 3, Split 3)]	[1]
	4		(12) N3603-111	STIS/CCD, ACCUM, 52X0.2	G430M 4451 A	CR-SPLIT=2		Pattern 4-4 (3)	575 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] [2]

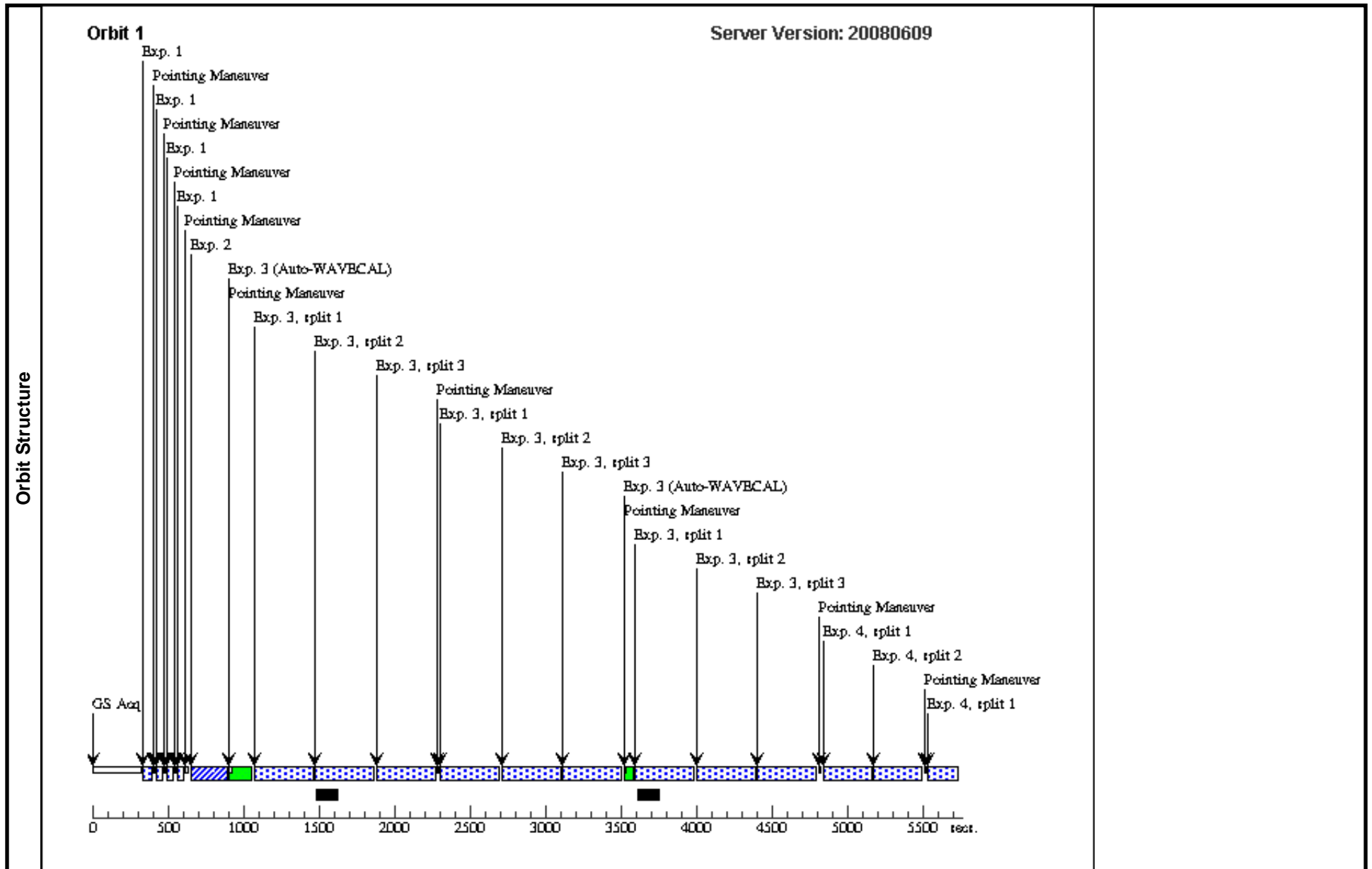
Proposal 11626 - Visit 02 - Searching for the Upper Mass Limit in NGC 3603, the Nearest Giant H II Region

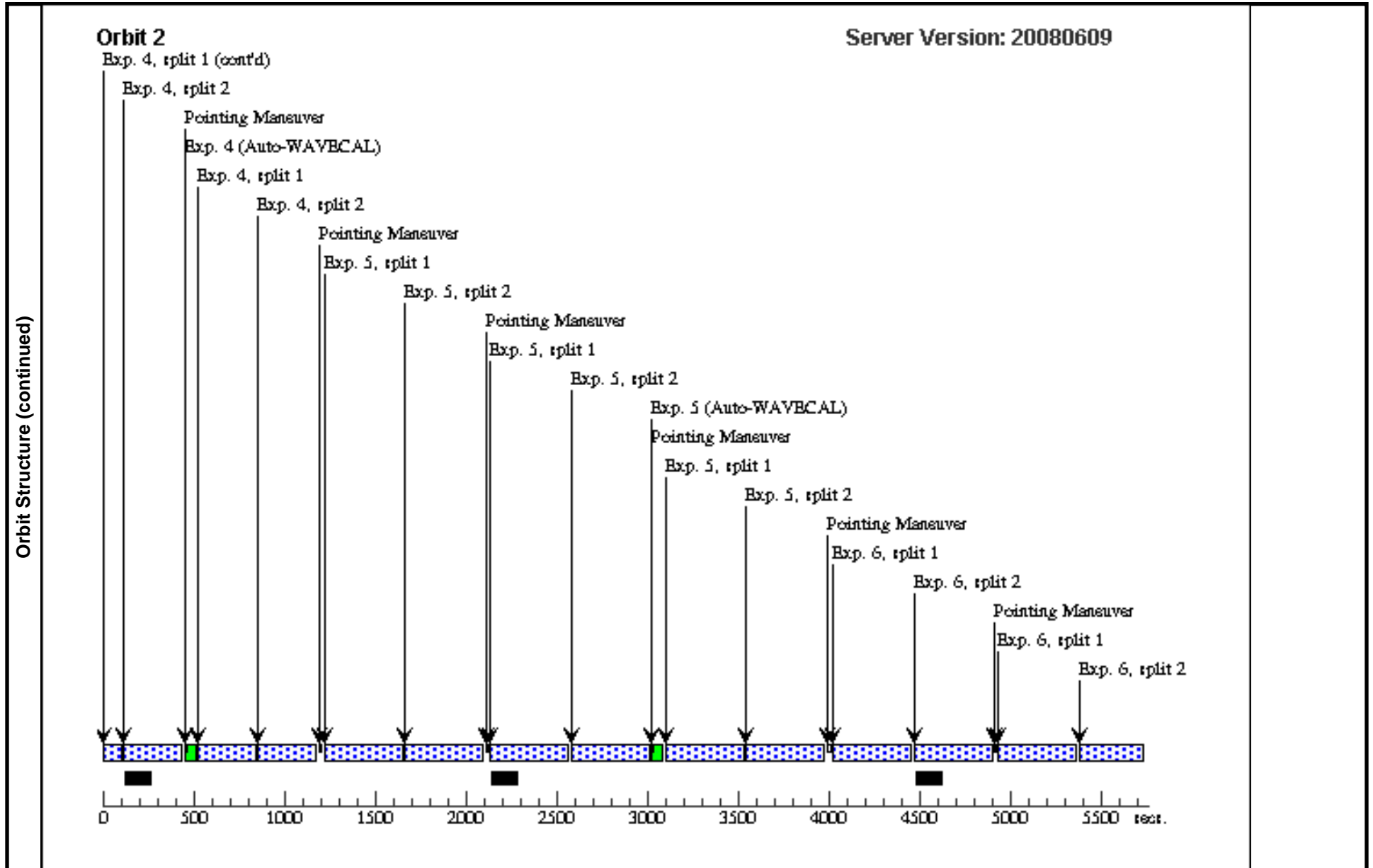
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
5	(20)	N3603-312	STIS/CCD, ACCUM, 52X0.2	G430M	CR-SPLIT=2		Pattern 5-5 (3)	800 Secs	[2]
				4451 A				[==>(Pattern 1, Split 1)]	
								[==>(Pattern 1, Split 2)]	
								[==>(Pattern 2, Split 1)]	
								[==>(Pattern 2, Split 2)]	
	[==>(Pattern 3, Split 1)]								
								[==>(Pattern 3, Split 2)]	
6	(21)	N3603-125	STIS/CCD, ACCUM, 52X0.2	G430M	CR-SPLIT=2		Pattern 6-6 (3)	800 Secs	[2]
				4451 A				[==>(Pattern 1, Split 1)]	
								[==>(Pattern 1, Split 2)]	
								[==>(Pattern 2, Split 1)]	
								[==>(Pattern 2, Split 2)]	
							[==>(Pattern 3, Split 1)]	[3]	
							[==>(Pattern 3, Split 2)]		
7	(22)	N3603-135	STIS/CCD, ACCUM, 52X0.2	G430M	CR-SPLIT=2		Pattern 7-7 (3)	900 Secs	[3]
				4451 A				[==>(Pattern 1, Split 1)]	
								[==>(Pattern 1, Split 2)]	
								[==>(Pattern 2, Split 1)]	
								[==>(Pattern 2, Split 2)]	
							[==>(Pattern 3, Split 1)]		
							[==>(Pattern 3, Split 2)]		
8	(23)	N3603-314	STIS/CCD, ACCUM, 52X0.2	G430M	CR-SPLIT=2		Pattern 8-8 (3)	900 Secs	[3]
				4451 A				[==>(Pattern 1, Split 1)]	
								[==>(Pattern 1, Split 2)]	
								[==>(Pattern 2, Split 1)]	
								[==>(Pattern 2, Split 2)]	
							[==>(Pattern 3, Split 1)]	[4]	
							[==>(Pattern 3, Split 2)]		
9	(24)	N3603-315	STIS/CCD, ACCUM, 52X0.2	G430M	CR-SPLIT=2		Pattern 9-9 (3)	900 Secs	[4]
				4451 A				[==>(Pattern 1, Split 1)]	
								[==>(Pattern 1, Split 2)]	
								[==>(Pattern 2, Split 1)]	
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							[==>(Pattern 3, Split 1)]		
							[==>(Pattern 3, Split 2)]		

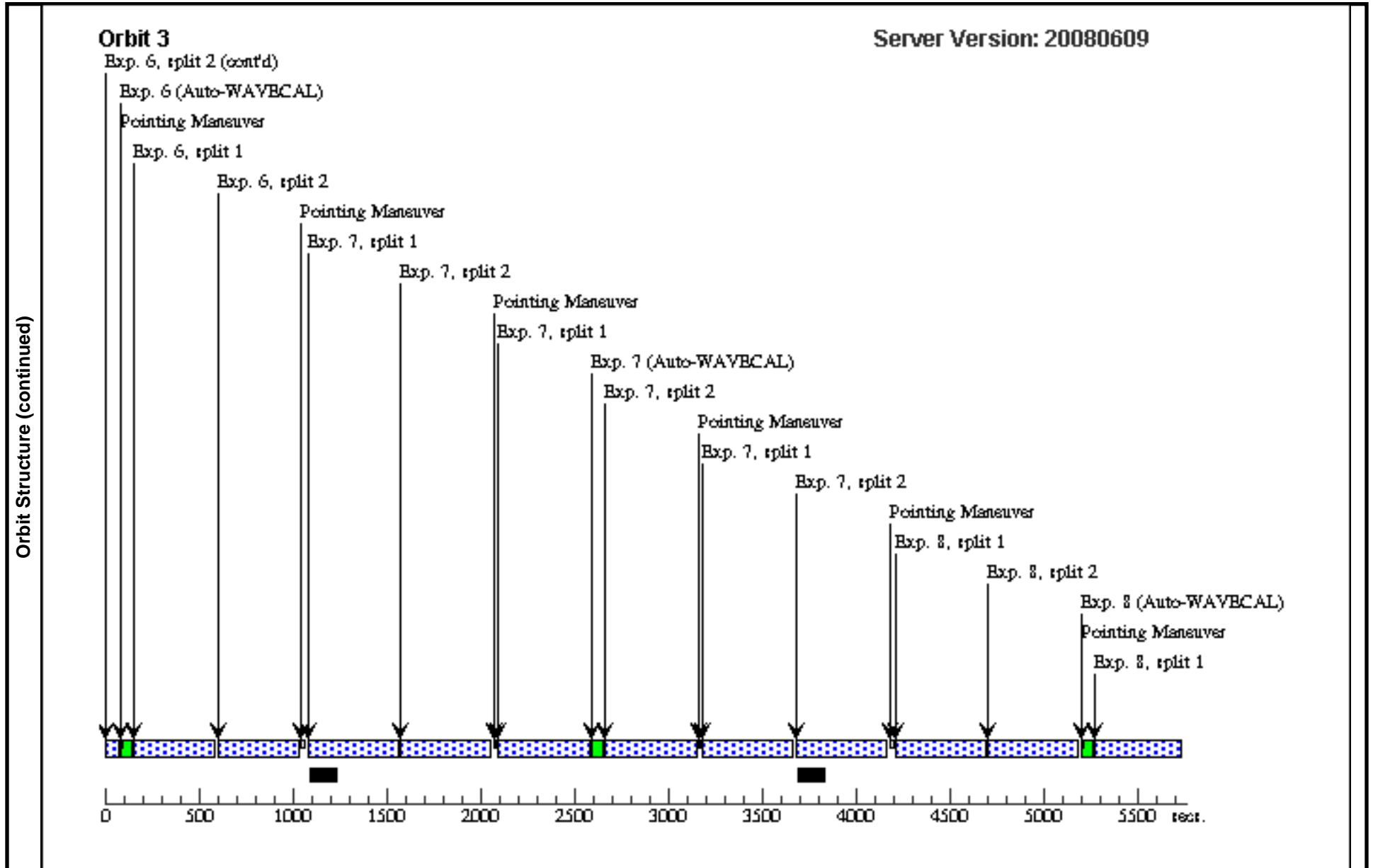
Exposures (continued)

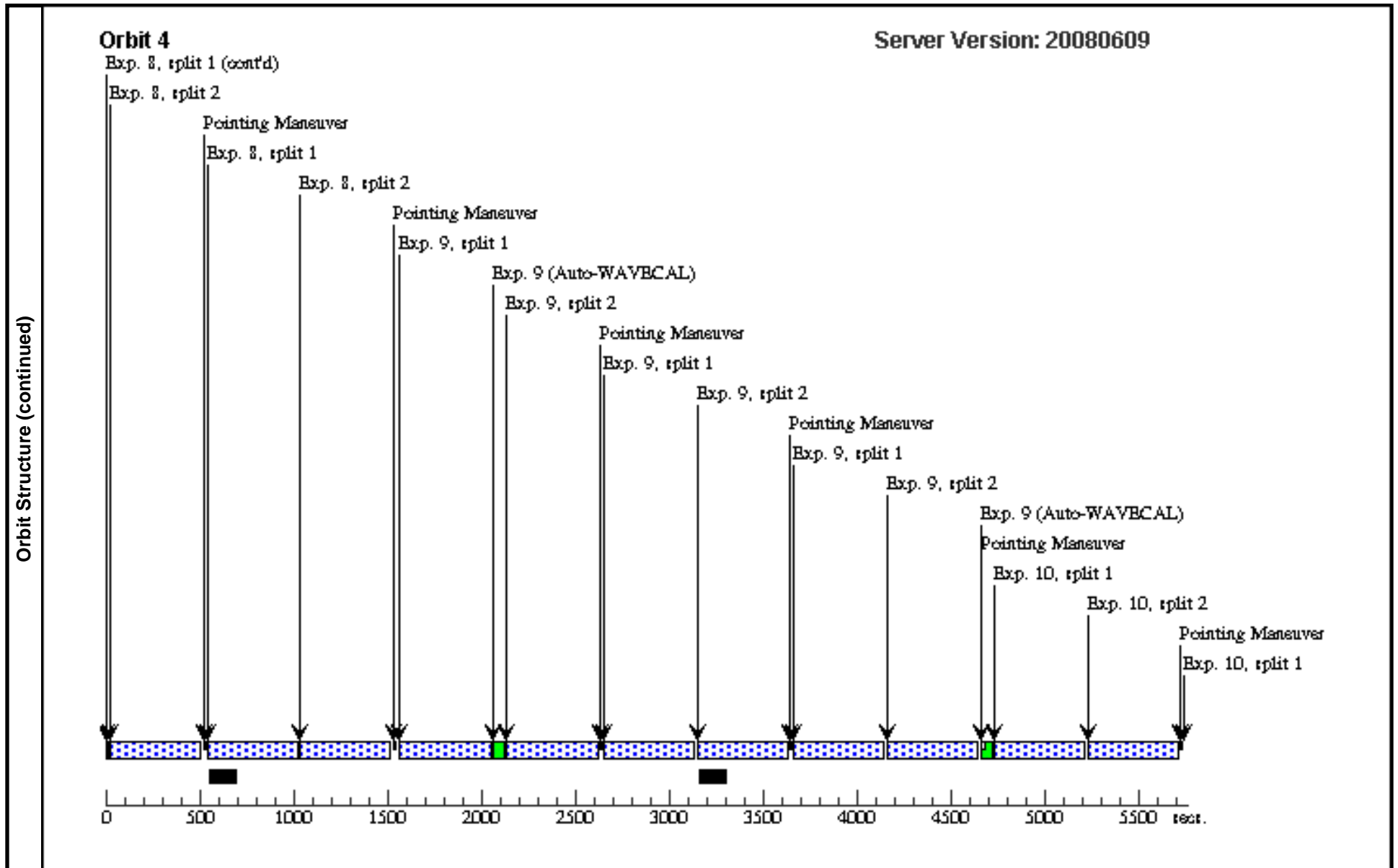
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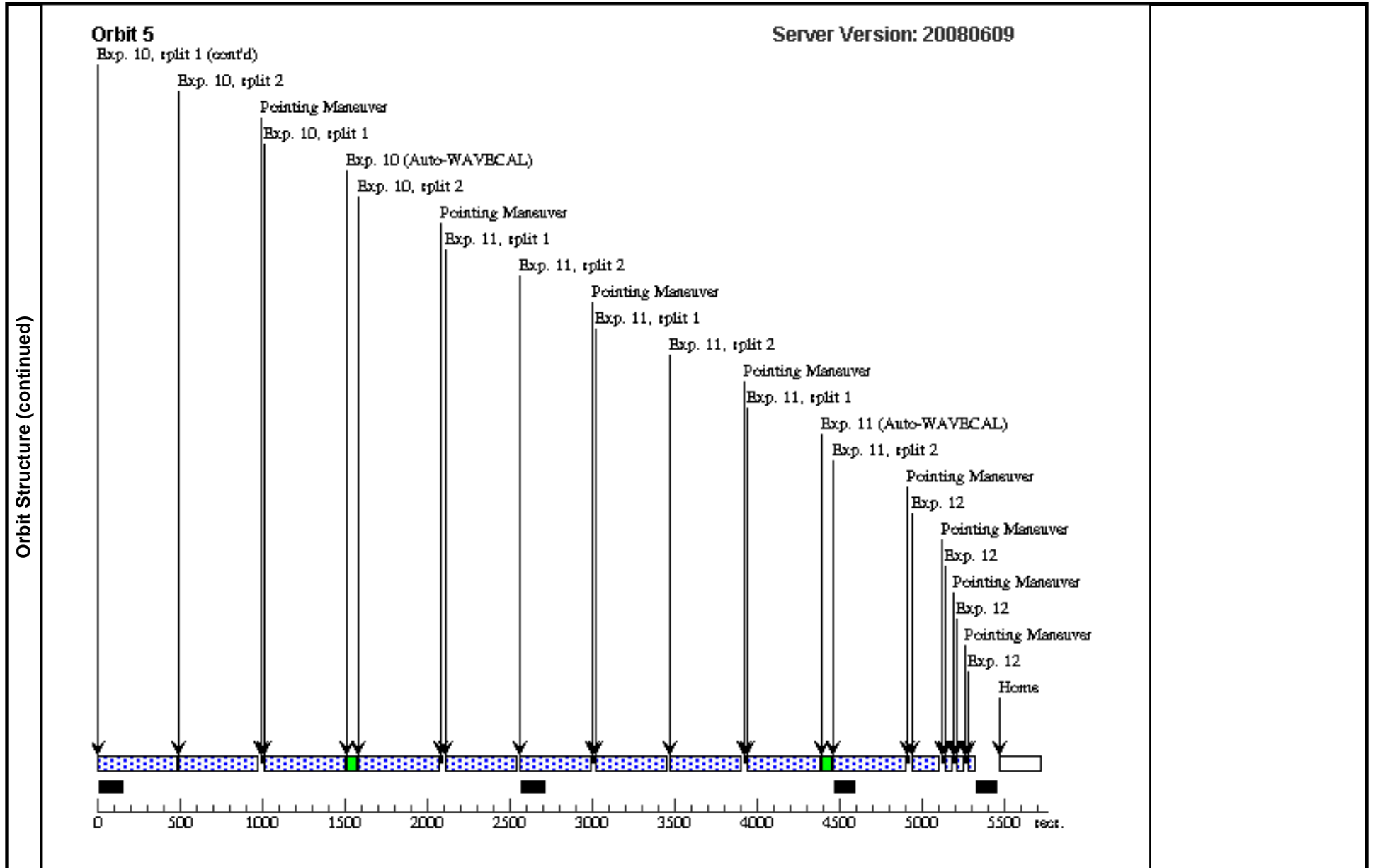
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
Exposures (continued)	10	(25) N3603-128	STIS/CCD, ACCUM, 52X0.2	G430M 4451 A	CR-SPLIT=2		Pattern 10-10 (3)	900 Secs		
								[==>(Pattern 1, Split 1)]	[4]	
								[==>(Pattern 1, Split 2)]		
								[==>(Pattern 2, Split 1)]	[5]	
								[==>(Pattern 2, Split 2)]		
								[==>(Pattern 3, Split 1)]		
	[==>(Pattern 3, Split 2)]									
	11	(19) N3603-311	STIS/CCD, ACCUM, 52X0.2	G430M 4451 A	CR-SPLIT=2			Pattern 11-11 (3)	800 Secs	
									[==>(Pattern 1, Split 1)]	[5]
									[==>(Pattern 1, Split 2)]	
									[==>(Pattern 2, Split 1)]	
									[==>(Pattern 2, Split 2)]	
[==>(Pattern 3, Split 1)]										
[==>(Pattern 3, Split 2)]										
12	(43) N3603-CENTE R	STIS/CCD, ACCUM, 50CCD	MIRROR	CR-SPLIT=NO			Pattern 12-12 (2)	0.1 Secs		
								[==>(Pattern 1)]	[5]	
								[==>(Pattern 2)]		
								[==>(Pattern 3)]		
[==>(Pattern 4)]										











Proposal 11626 - Visit 03 - Searching for the Upper Mass Limit in NGC 3603, the Nearest Giant H II Region

Wed Jun 18 01:17:19 GMT 2008

Visit	Proposal 11626, Visit 03, implementation					
		<b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: STIS/CCD Special Requirements: CVZ				
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(2)	Pattern Type=STIS-CCD-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.567 Line Spacing=0.567	Coordinate Frame=POS-TARG Pattern Orientation=26.6 Angle Between Sides=143.130102 Center Pattern=false	(1), (10)		
	(3)	Pattern Type=STIS-ALONG-SLIT Purpose=DITHER Number Of Points=3 Point Spacing=0.5 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=false	(4), (5), (6), (7), (8), (9)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(18)	N3603-120	RA: 11 15 7.2266 (168.7801108d) Dec: -61 15 41.46 (-61.26152d) Equinox: J2000		V=14.37+/-0.03 B-V=1.04	Reference Frame: ICRS
	(30)	N3603-318	RA: 11 15 7.2486 (168.7802025d) Dec: -61 15 37.40 (-61.26039d) Equinox: J2000		V=14.96+/-0.03 B-V=1.02	Reference Frame: ICRS
	(31)	N3603-137	RA: 11 15 6.7420 (168.7780917d) Dec: -61 15 39.22 (-61.26089d) Equinox: J2000		V=14.99+/-0.03 B-V=0.99	Reference Frame: ICRS
	(33)	N3603-141	RA: 11 15 7.7079 (168.7821162d) Dec: -61 15 34.62 (-61.25962d) Equinox: J2000		V=15.03+/-0.03 B-V=1.04	Reference Frame: ICRS
	(42)	N3603-OFFSET	RA: 11 15 9.8642 (168.7911008d) Dec: -61 15 30.45 (-61.25846d) Equinox: J2000		V=12.70+/-0.03 B-V=1.14	Reference Frame: ICRS
	(43)	N3603-CENTER	RA: 11 15 7.5890 (168.7816208d) Dec: -61 15 38.00 (-61.26056d) Equinox: J2000		V=11.30+/-0.03	Reference Frame: ICRS
	(44)	N3603-33A	RA: 11 15 7.3800 (168.7807500d) Dec: -61 15 39.50 (-61.26097d) Equinox: J2000		V=13.93+/-0.03 B-V=1.02	Reference Frame: ICRS

Proposal 11626 - Visit 03 - Searching for the Upper Mass Limit in NGC 3603, the Nearest Giant H II Region

Fixed Targets (continued)	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(45)	N3603-33B	RA: 11 15 7.3700 (168.7807083d) Dec: -61 15 39.47 (-61.26096d) Equinox: J2000			V=14.47+/-0.03 B-V=1.02

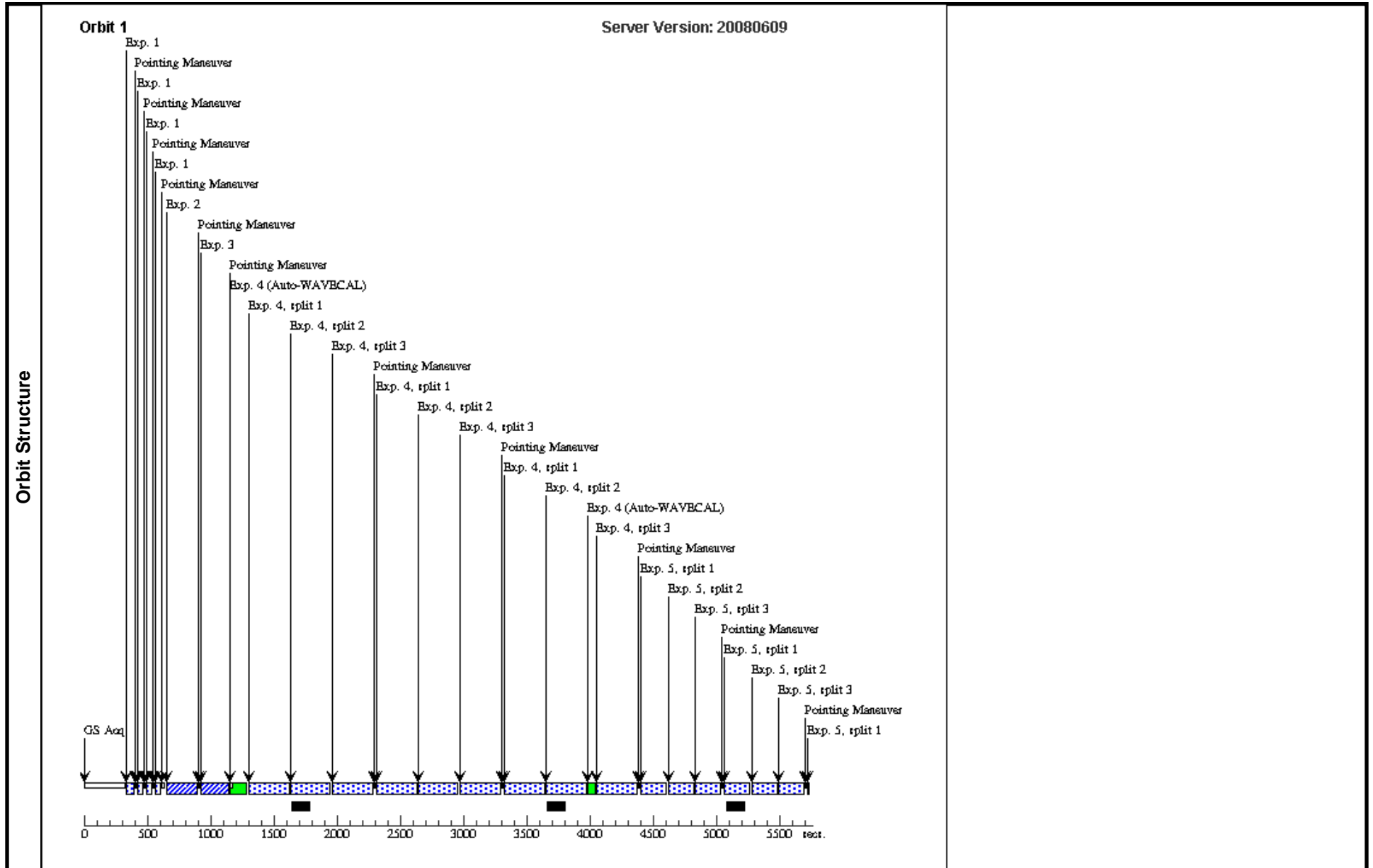
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(43) N3603-CENTER		STIS/CCD, ACCUM, 50CCD	MIRROR	CR-SPLIT=NO		Pattern 1-1 (2)	0.1 Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]
2		(42) N3603-OFFSET		STIS/CCD, ACQ, F28X50LP	MIRROR				0.2 Secs [=>]	[1]
3		(42) N3603-OFFSET		STIS/CCD, ACQ/PEAK, 52X0.1	MIRROR				0.1 Secs [=>]	[1]
4		(45) N3603-33B		STIS/CCD, ACCUM, 52X0.1	G430M 4451 A	CR-SPLIT=3		Pattern 4-4 (3)	852 Secs [=>(Pattern 1, Split 1)] [=>(Pattern 1, Split 2)] [=>(Pattern 1, Split 3)] [=>(Pattern 2, Split 1)] [=>(Pattern 2, Split 2)] [=>(Pattern 2, Split 3)] [=>(Pattern 3, Split 1)] [=>(Pattern 3, Split 2)] [=>(Pattern 3, Split 3)]	[1]

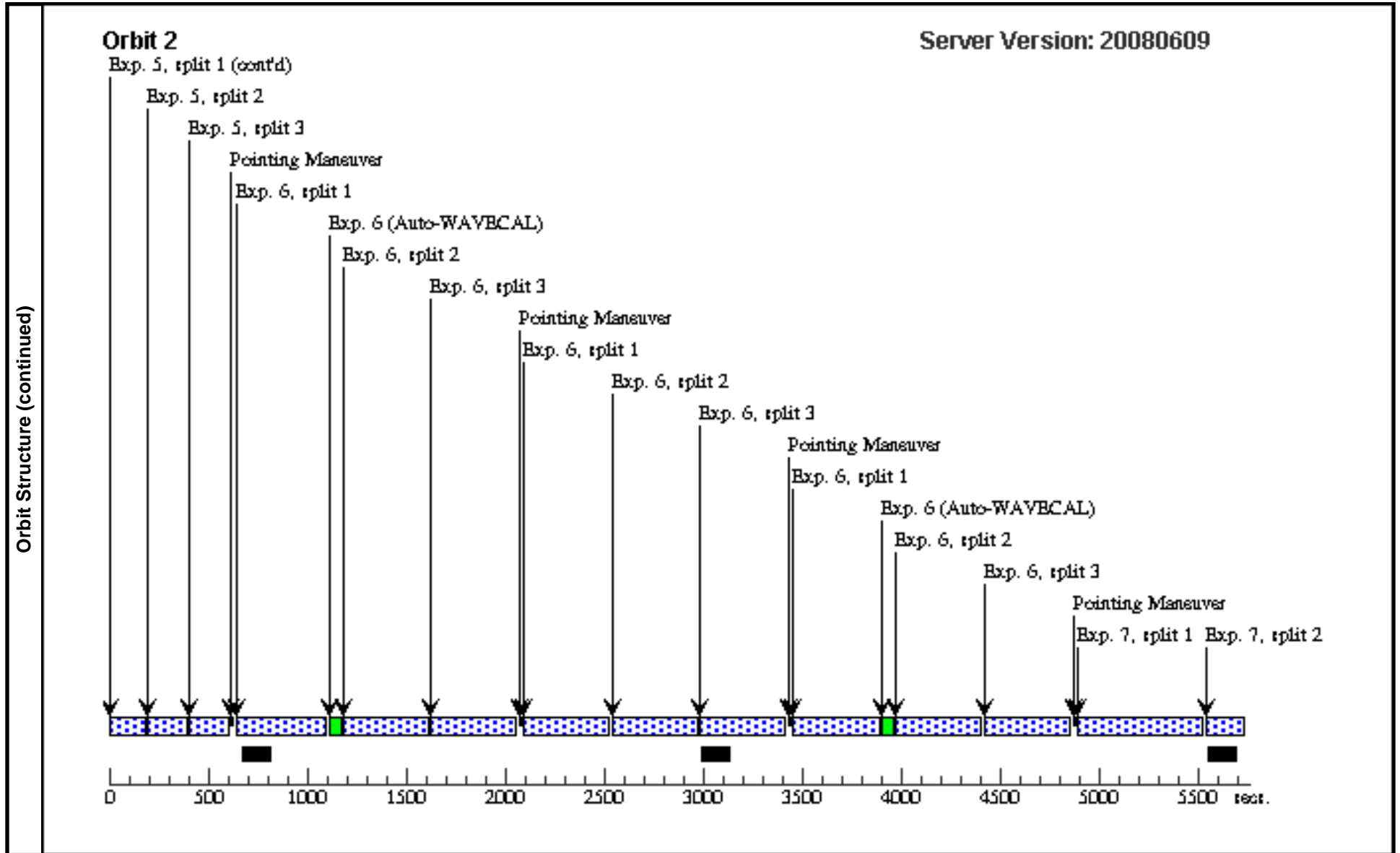
Proposal 11626 - Visit 03 - Searching for the Upper Mass Limit in NGC 3603, the Nearest Giant H II Region

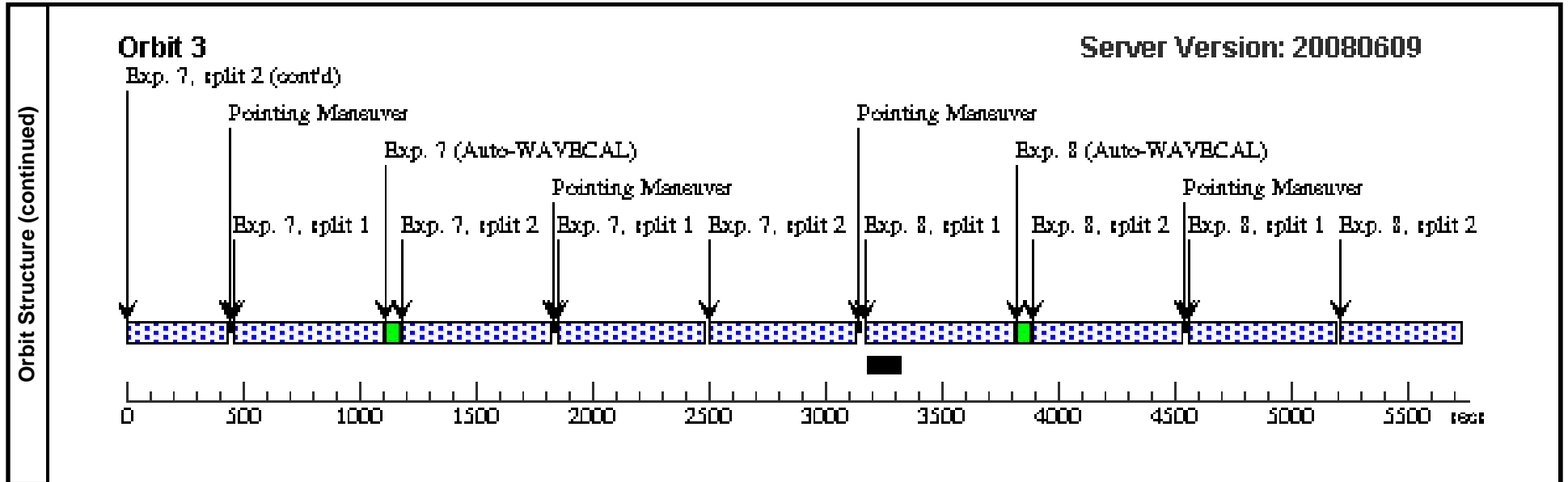
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
Exposures (continued)	5	(44) N3603-33A	STIS/CCD, ACCUM, 52X0.1	G430M 4451 A	CR-SPLIT=3		Pattern 5-5 (3)	501 Secs		
								[==>(Pattern 1, Split 1)]	[1]	
								[==>(Pattern 1, Split 2)]		
								[==>(Pattern 1, Split 3)]		
								[==>(Pattern 2, Split 1)]		
								[==>(Pattern 2, Split 2)]		
	[==>(Pattern 2, Split 3)]									
	[==>(Pattern 3, Split 1)]									
	[==>(Pattern 3, Split 2)]	[2]								
	[==>(Pattern 3, Split 3)]									
	Exposures (continued)	6	(33) N3603-141	STIS/CCD, ACCUM, 52X0.2	G430M 4451 A	CR-SPLIT=3		Pattern 6-6 (3)	1200 Secs	
									[==>(Pattern 1, Split 1)]	[2]
[==>(Pattern 1, Split 2)]										
[==>(Pattern 1, Split 3)]										
[==>(Pattern 2, Split 1)]										
[==>(Pattern 2, Split 2)]										
[==>(Pattern 2, Split 3)]										
[==>(Pattern 3, Split 1)]										
[==>(Pattern 3, Split 2)]										
[==>(Pattern 3, Split 3)]										
7		(30) N3603-318	STIS/CCD, ACCUM, 52X0.2	G430M 4451 A	CR-SPLIT=2			Pattern 7-7 (3)	1200 Secs	
									[==>(Pattern 1, Split 1)]	[2]
	[==>(Pattern 1, Split 2)]									
	[==>(Pattern 2, Split 1)]								[3]	
	[==>(Pattern 2, Split 2)]									
	[==>(Pattern 3, Split 1)]									
[==>(Pattern 3, Split 2)]										
8	(31) N3603-137	STIS/CCD, ACCUM, 52X0.2	G430M 4451 A	CR-SPLIT=2			Pattern 8-8 (3)	1200 Secs		
								[==>(Pattern 1, Split 1)]	[3]	
								[==>(Pattern 1, Split 2)]		
								[==>(Pattern 2, Split 1)]		
								[==>(Pattern 2, Split 2)]	[4]	
								[==>(Pattern 3, Split 1)]		
[==>(Pattern 3, Split 2)]										

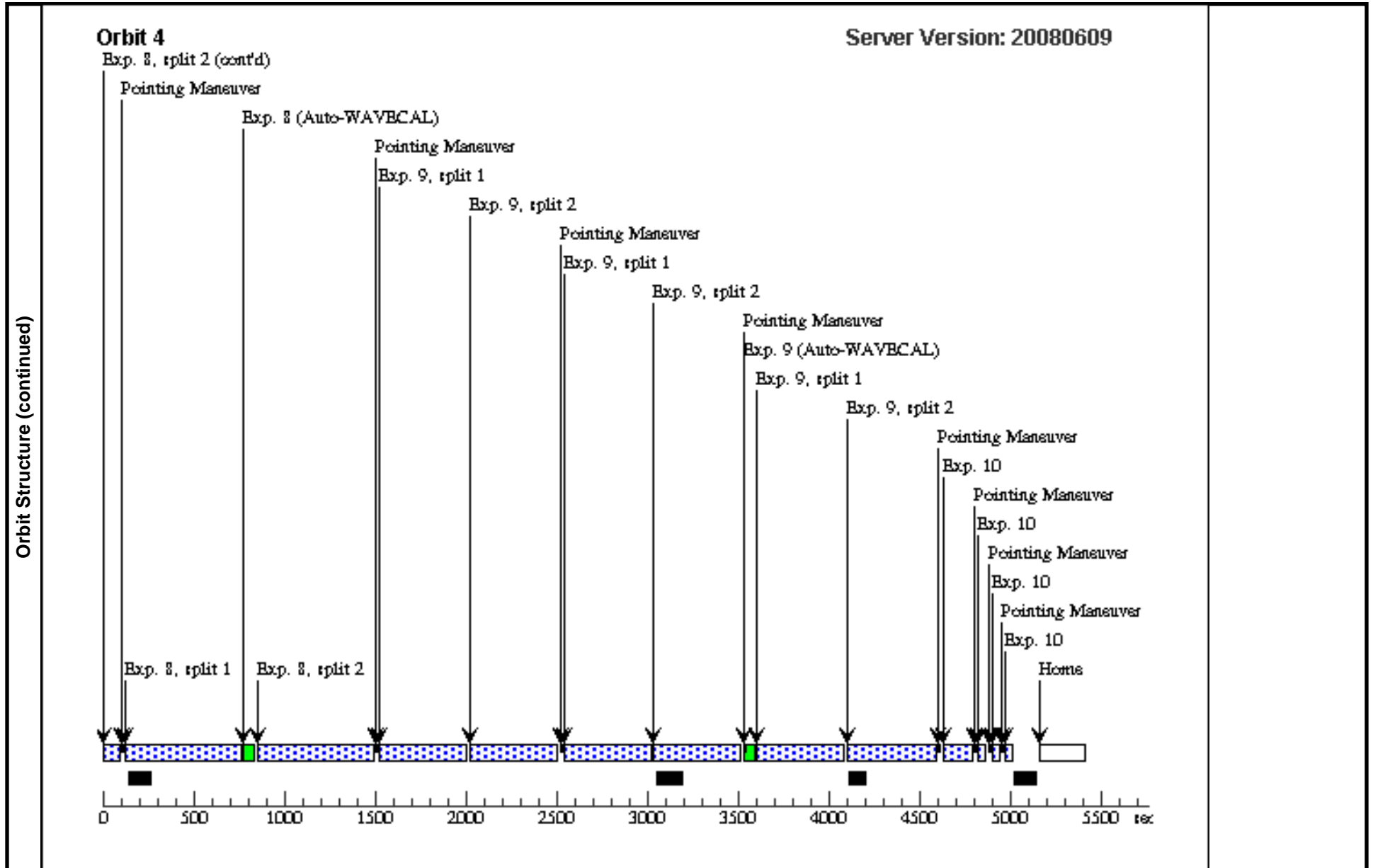
Proposal 11626 - Visit 03 - Searching for the Upper Mass Limit in NGC 3603, the Nearest Giant H II Region

Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	9	(18) N3603-120	STIS/CCD, ACCUM, 52X0.2	G430M 4451 A	CR-SPLIT=2	Pattern 9-9 (3)	900 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)]	[4]		
10	(43) N3603-CENTER	STIS/CCD, ACCUM, 50CCD	MIRROR	CR-SPLIT=NO	Pattern 10-10 (2)	0.1 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[4]			









Proposal 11626 - Visit 04 - Searching for the Upper Mass Limit in NGC 3603, the Nearest Giant H II Region

Wed Jun 18 01:17:21 GMT 2008

Visit	<b>Proposal 11626, Visit 04, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: STIS/CCD Special Requirements: CVZ					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
		(1)	Pattern Type=STIS-ALONG-SLIT Purpose=DITHER Number Of Points=5 Point Spacing=0.5 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=false		(3), (4), (5), (6), (7), (8), (9), (10), (11), (12), (13)
	(2)	Pattern Type=STIS-CCD-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.567 Line Spacing=0.567	Coordinate Frame=POS-TARG Pattern Orientation=26.6 Angle Between Sides=143.130102 Center Pattern=false		(1), (14)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	N3603-A1	RA: 11 15 7.3210 (168.7805042d) Dec: -61 15 38.39 (-61.26066d) Equinox: J2000		V=11.18+/-0.03 B-V=1.03	Reference Frame: ICRS
	(2)	N3603-B	RA: 11 15 7.4261 (168.7809421d) Dec: -61 15 38.55 (-61.26071d) Equinox: J2000		V=11.33+/-0.03 B-V=1.01	Reference Frame: ICRS
	(3)	N3603-A2	RA: 11 15 7.3286 (168.7805358d) Dec: -61 15 38.75 (-61.26076d) Equinox: J2000		V=12.53+/-0.03 B-V=1.03	Reference Frame: ICRS
	(4)	N3603-301	RA: 11 15 6.8441 (168.7785171d) Dec: -61 15 35.60 (-61.25989d) Equinox: J2000		V=12.77+/-0.03 B-V=1.03	Reference Frame: ICRS
	(5)	N3603-42	RA: 11 15 7.0756 (168.7794817d) Dec: -61 15 39.26 (-61.26091d) Equinox: J2000		V=13.01+/-0.03 B-V=1.02	Reference Frame: ICRS
	(6)	N3603-302	RA: 11 15 6.9397 (168.7789154d) Dec: -61 15 38.94 (-61.26082d) Equinox: J2000		V=13.04+/-0.03 B-V=0.98	Reference Frame: ICRS
	(7)	N3603-A3	RA: 11 15 7.3674 (168.7806975d) Dec: -61 15 38.42 (-61.26067d) Equinox: J2000		V=13.13+/-0.03 B-V=1.04	Reference Frame: ICRS

Proposal 11626 - Visit 04 - Searching for the Upper Mass Limit in NGC 3603, the Nearest Giant H II Region

Fixed Targets (continued)	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(8)	N3603-303	RA: 11 15 6.9452 (168.7789383d) Dec: -61 15 39.17 (-61.26088d) Equinox: J2000		V=13.22+/-0.03 B-V=1.00	Reference Frame: ICRS
	(9)	N3603-38	RA: 11 15 6.9339 (168.7788913d) Dec: -61 15 36.57 (-61.26016d) Equinox: J2000		V=13.24+/-0.03 B-V=0.96	Reference Frame: ICRS
	(10)	N3603-40	RA: 11 15 7.1401 (168.7797504d) Dec: -61 15 39.05 (-61.26085d) Equinox: J2000		V=13.38+/-0.03 B-V=1.06	Reference Frame: ICRS
	(11)	N3603-304	RA: 11 15 7.2649 (168.7802704d) Dec: -61 15 37.11 (-61.26031d) Equinox: J2000		V=13.48+/-0.03 B-V=1.02	Reference Frame: ICRS
	(42)	N3603-OFFSET	RA: 11 15 9.8642 (168.7911008d) Dec: -61 15 30.45 (-61.25846d) Equinox: J2000		V=12.70+/-0.03 B-V=1.14	Reference Frame: ICRS
	(43)	N3603-CENTER	RA: 11 15 7.5890 (168.7816208d) Dec: -61 15 38.00 (-61.26056d) Equinox: J2000		V=11.30+/-0.03	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(43) N3603-CENTER	STIS/CCD, ACCUM, 50CCD	MIRROR	CR-SPLIT=NO		Pattern 1-1 (2)	0.1 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2		(42) N3603-OFFSET	STIS/CCD, ACQ, F28X50LP	MIRROR				0.2 Secs [==>]	[1]
	3		(1) N3603-A1	STIS/CCD, ACCUM, 52X0.2	G430M 4451 A	CR-SPLIT=NO		Pattern 3-3 (1)	70 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)]	[1]
	4		(2) N3603-B	STIS/CCD, ACCUM, 52X0.2	G430M 4451 A	CR-SPLIT=NO		Pattern 4-4 (1)	90 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)]	[1]

Proposal 11626 - Visit 04 - Searching for the Upper Mass Limit in NGC 3603, the Nearest Giant H II Region

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures (continued)	5	(3) N3603-A2	STIS/CCD, ACCUM, 52X0.2	G430M 4451 A	CR-SPLIT=NO		Pattern 5-5 (1)	260 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)]	[1]
	6	(4) N3603-301	STIS/CCD, ACCUM, 52X0.2	G430M 4451 A	CR-SPLIT=2		Pattern 6-6 (1)	360 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]
								[==>(Pattern 4, Split 1)] [==>(Pattern 4, Split 2)] [==>(Pattern 5, Split 1)] [==>(Pattern 5, Split 2)]	[2]
	7	(5) N3603-42	STIS/CCD, ACCUM, 52X0.2	G430M 4451 A	CR-SPLIT=2		Pattern 7-7 (1)	410 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)] [==>(Pattern 4, Split 1)] [==>(Pattern 4, Split 2)] [==>(Pattern 5, Split 1)] [==>(Pattern 5, Split 2)]	[2]

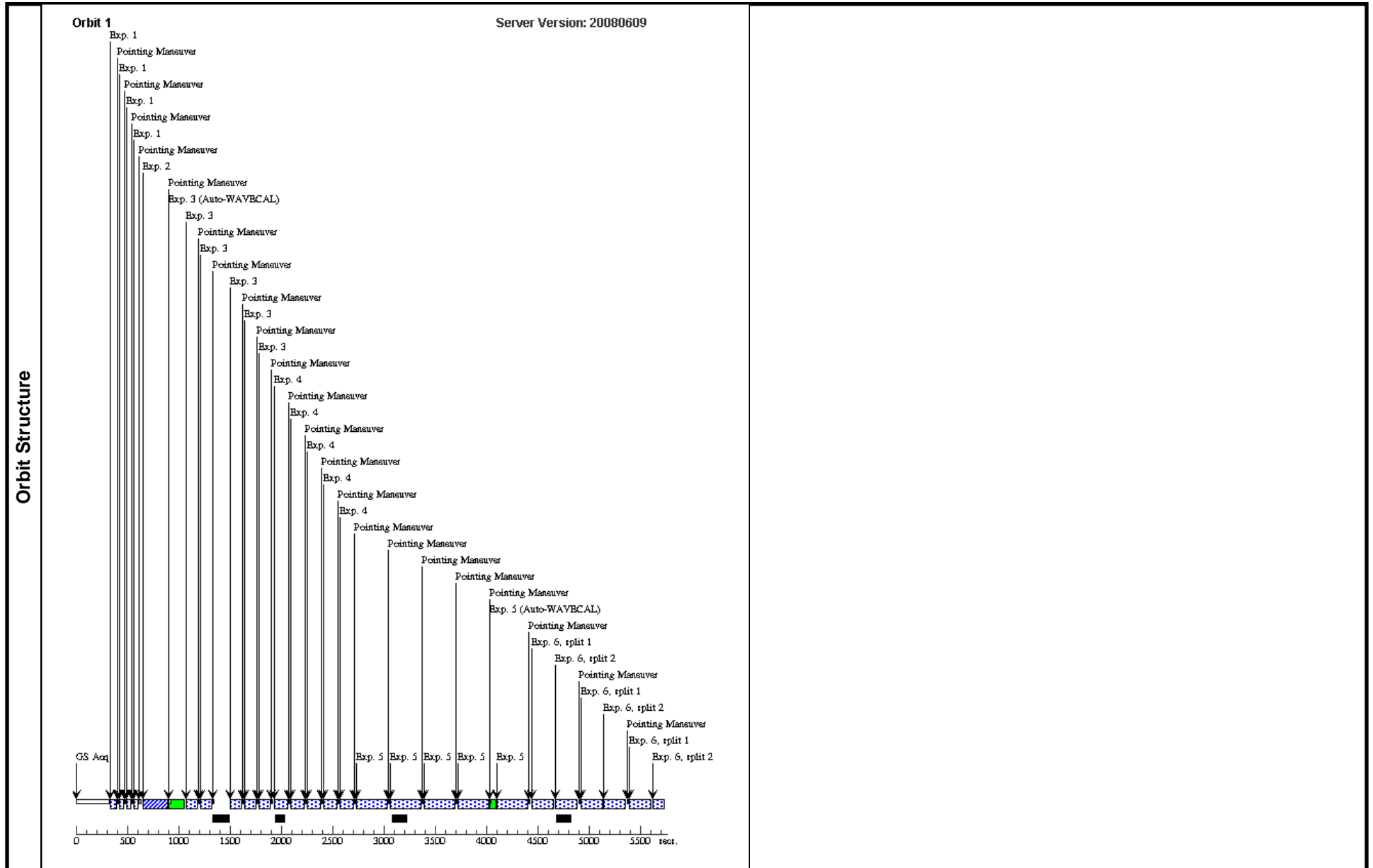
Proposal 11626 - Visit 04 - Searching for the Upper Mass Limit in NGC 3603, the Nearest Giant H II Region

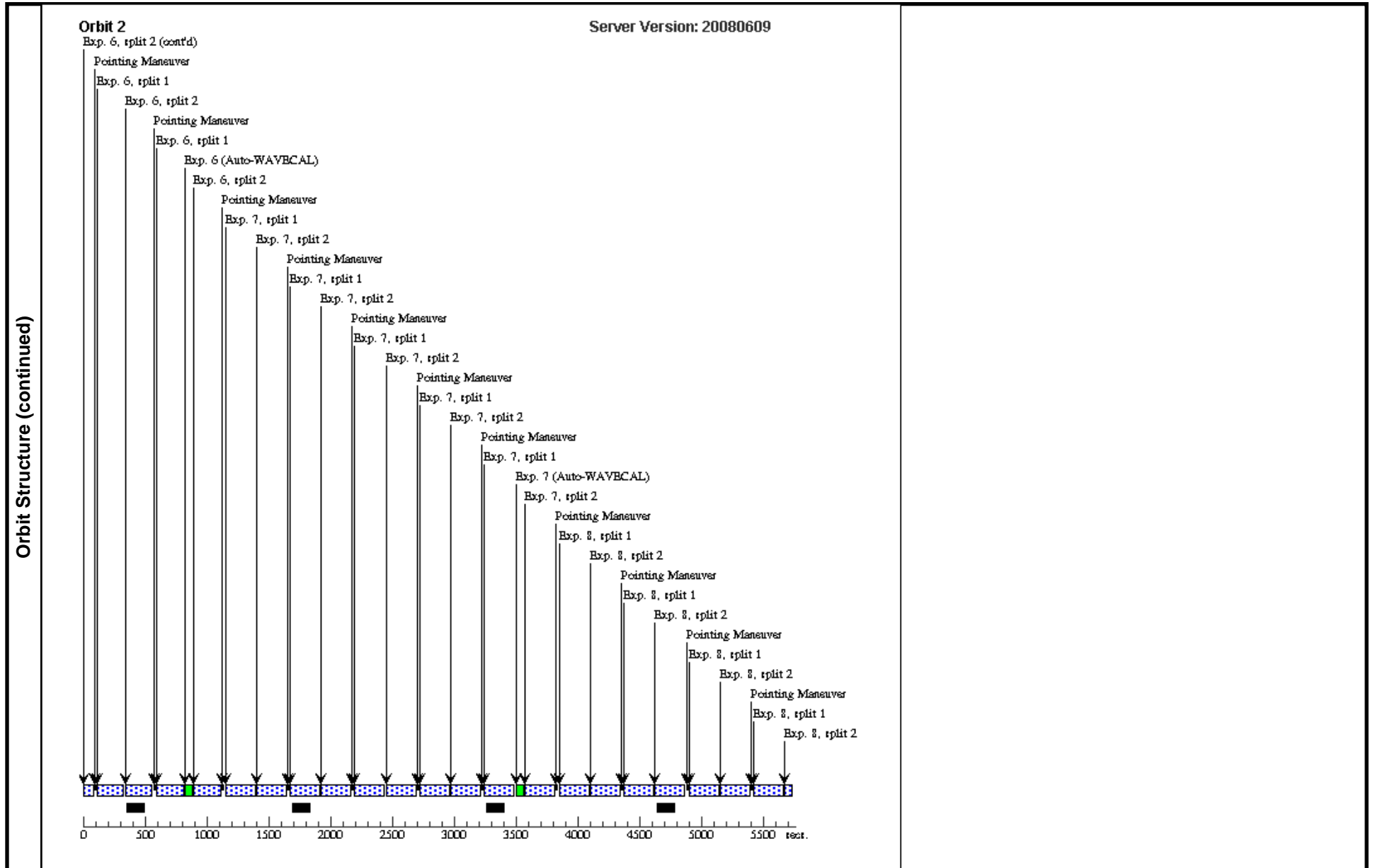
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures (continued)	8	(6) N3603-302	STIS/CCD, ACCUM, 52X0.2	G430M	CR-SPLIT=2		Pattern 8-8 (1)	410 Secs	[2]
				4451 A				[==>(Pattern 1, Split 1)]	
		[==>(Pattern 1, Split 2)]							
		[==>(Pattern 2, Split 1)]							
		[==>(Pattern 2, Split 2)]							
		[==>(Pattern 3, Split 1)]							
		[==>(Pattern 3, Split 2)]							
		[==>(Pattern 4, Split 1)]							
		[==>(Pattern 4, Split 2)]							
		[==>(Pattern 5, Split 1)]							
	[==>(Pattern 5, Split 2)]								
Exposures (continued)	9	(7) N3603-A3	STIS/CCD, ACCUM, 52X0.2	G430M	CR-SPLIT=2		Pattern 9-9 (1)	410 Secs	[3]
				4451 A				[==>(Pattern 1, Split 1)]	
		[==>(Pattern 1, Split 2)]							
		[==>(Pattern 2, Split 1)]							
		[==>(Pattern 2, Split 2)]							
		[==>(Pattern 3, Split 1)]							
		[==>(Pattern 3, Split 2)]							
		[==>(Pattern 4, Split 1)]							
		[==>(Pattern 4, Split 2)]							
		[==>(Pattern 5, Split 1)]							
	[==>(Pattern 5, Split 2)]								
Exposures (continued)	10	(8) N3603-303	STIS/CCD, ACCUM, 52X0.2	G430M	CR-SPLIT=2		Pattern 10-10 (1)	450 Secs	[3]
				4451 A				[==>(Pattern 1, Split 1)]	
		[==>(Pattern 1, Split 2)]							
		[==>(Pattern 2, Split 1)]							
		[==>(Pattern 2, Split 2)]							
		[==>(Pattern 3, Split 1)]							
		[==>(Pattern 3, Split 2)]							
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	[4]								

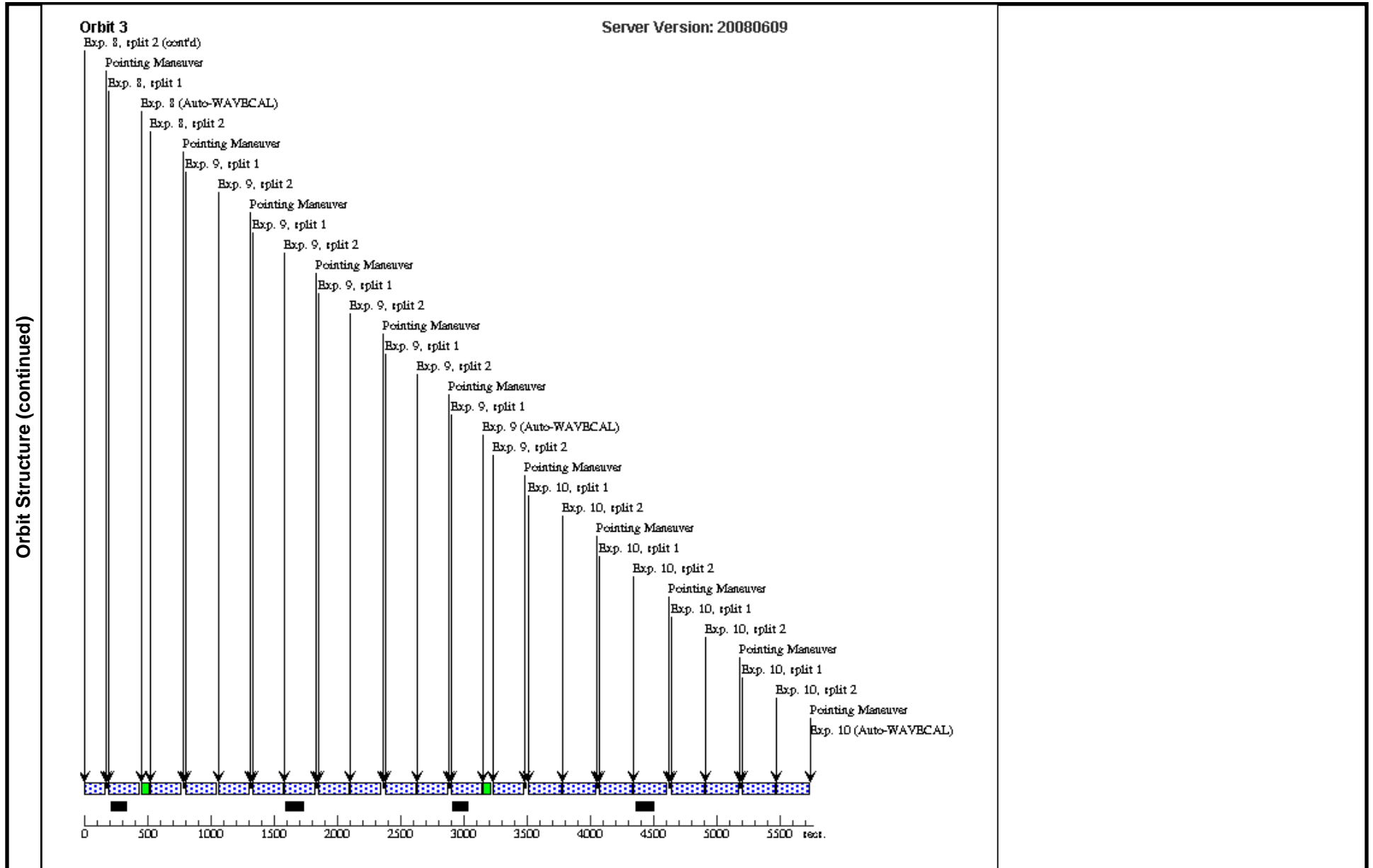
Proposal 11626 - Visit 04 - Searching for the Upper Mass Limit in NGC 3603, the Nearest Giant H II Region

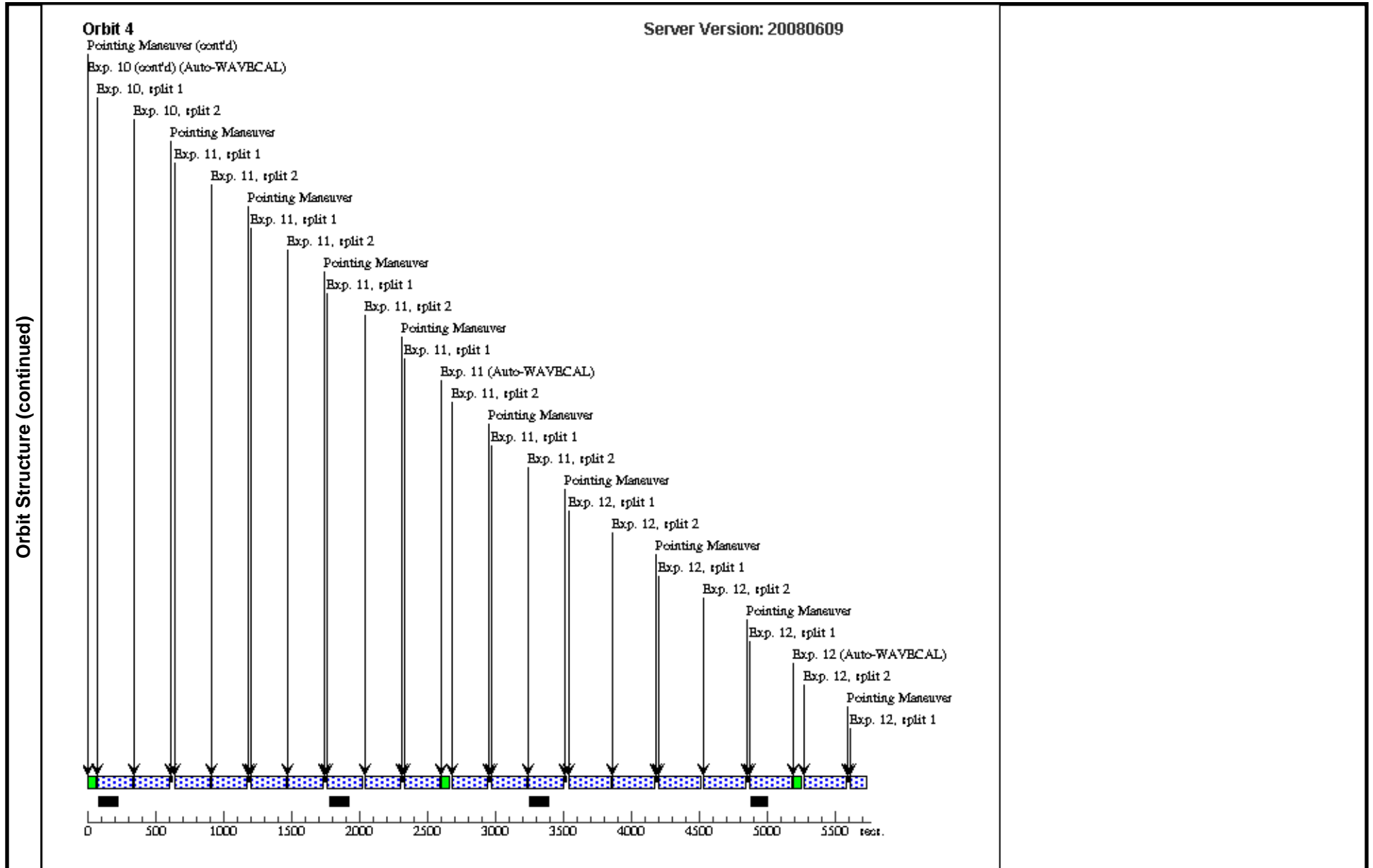
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
11		(9) N3603-38	STIS/CCD, ACCUM, 52X0.2	G430M	CR-SPLIT=2		Pattern 11-11 (1)	450 Secs	[4]
				4451 A				[==>(Pattern 1, Split 1)]	
								[==>(Pattern 1, Split 2)]	
								[==>(Pattern 2, Split 1)]	
12		(10) N3603-40	STIS/CCD, ACCUM, 52X0.2	G430M	CR-SPLIT=2		Pattern 12-12 (1)	550 Secs	[4]
				4451 A				[==>(Pattern 1, Split 1)]	
								[==>(Pattern 1, Split 2)]	
								[==>(Pattern 2, Split 1)]	
13		(11) N3603-304	STIS/CCD, ACCUM, 52X0.2	G430M	CR-SPLIT=2		Pattern 13-13 (1)	600 Secs	[5]
				4451 A				[==>(Pattern 1, Split 1)]	
								[==>(Pattern 1, Split 2)]	
								[==>(Pattern 2, Split 1)]	
14		(43) N3603-CENTER	STIS/CCD, ACCUM, 50CCD	MIRROR	CR-SPLIT=NO		Pattern 14-14 (2)	0.1 Secs	[5]
								[==>(Pattern 1)]	
								[==>(Pattern 2)]	
								[==>(Pattern 3)]	

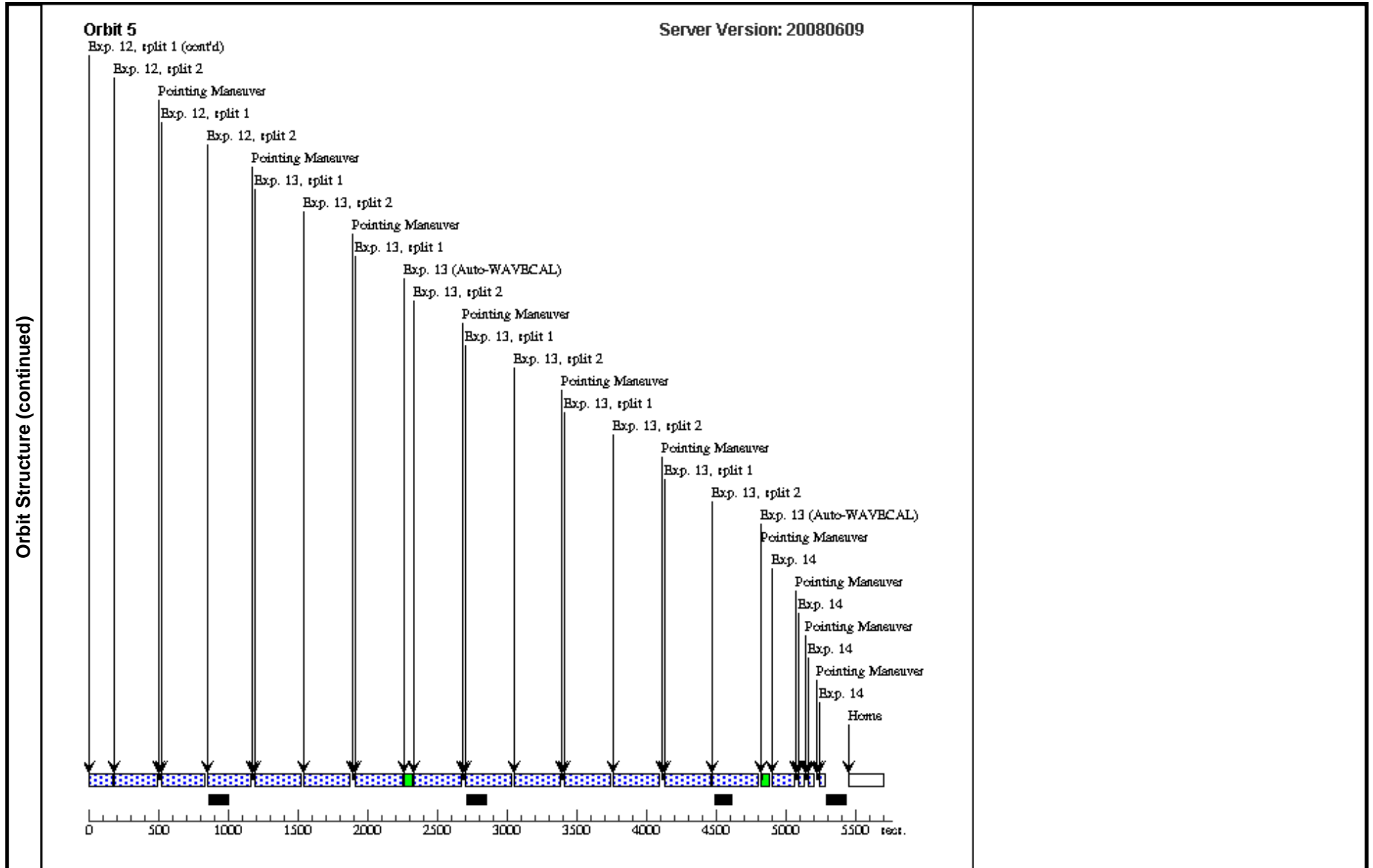
Exposures (continued)











Proposal 11626 - Visit 05 - Searching for the Upper Mass Limit in NGC 3603, the Nearest Giant H II Region

Wed Jun 18 01:17:23 GMT 2008

Visit	<b>Proposal 11626, Visit 05, implementation</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: STIS/CCD Special Requirements: CVZ					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
		(1)	Pattern Type=STIS-ALONG-SLIT Purpose=DITHER Number Of Points=5 Point Spacing=0.5 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=false		(3), (4), (5), (6), (7), (8), (9), (10), (11), (12), (13)
	(2)	Pattern Type=STIS-CCD-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.567 Line Spacing=0.567	Coordinate Frame=POS-TARG Pattern Orientation=26.6 Angle Between Sides=143.130102 Center Pattern=false		(1), (14)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	N3603-A1	RA: 11 15 7.3210 (168.7805042d) Dec: -61 15 38.39 (-61.26066d) Equinox: J2000		V=11.18+/-0.03 B-V=1.03	Reference Frame: ICRS
	(2)	N3603-B	RA: 11 15 7.4261 (168.7809421d) Dec: -61 15 38.55 (-61.26071d) Equinox: J2000		V=11.33+/-0.03 B-V=1.01	Reference Frame: ICRS
	(3)	N3603-A2	RA: 11 15 7.3286 (168.7805358d) Dec: -61 15 38.75 (-61.26076d) Equinox: J2000		V=12.53+/-0.03 B-V=1.03	Reference Frame: ICRS
	(4)	N3603-301	RA: 11 15 6.8441 (168.7785171d) Dec: -61 15 35.60 (-61.25989d) Equinox: J2000		V=12.77+/-0.03 B-V=1.03	Reference Frame: ICRS
	(5)	N3603-42	RA: 11 15 7.0756 (168.7794817d) Dec: -61 15 39.26 (-61.26091d) Equinox: J2000		V=13.01+/-0.03 B-V=1.02	Reference Frame: ICRS
	(6)	N3603-302	RA: 11 15 6.9397 (168.7789154d) Dec: -61 15 38.94 (-61.26082d) Equinox: J2000		V=13.04+/-0.03 B-V=0.98	Reference Frame: ICRS
	(7)	N3603-A3	RA: 11 15 7.3674 (168.7806975d) Dec: -61 15 38.42 (-61.26067d) Equinox: J2000		V=13.13+/-0.03 B-V=1.04	Reference Frame: ICRS

Proposal 11626 - Visit 05 - Searching for the Upper Mass Limit in NGC 3603, the Nearest Giant H II Region

Fixed Targets (continued)	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(8)	N3603-303	RA: 11 15 6.9452 (168.7789383d) Dec: -61 15 39.17 (-61.26088d) Equinox: J2000		V=13.22+/-0.03 B-V=1.00	Reference Frame: ICRS
	(9)	N3603-38	RA: 11 15 6.9339 (168.7788913d) Dec: -61 15 36.57 (-61.26016d) Equinox: J2000		V=13.24+/-0.03 B-V=0.96	Reference Frame: ICRS
	(10)	N3603-40	RA: 11 15 7.1401 (168.7797504d) Dec: -61 15 39.05 (-61.26085d) Equinox: J2000		V=13.38+/-0.03 B-V=1.06	Reference Frame: ICRS
	(11)	N3603-304	RA: 11 15 7.2649 (168.7802704d) Dec: -61 15 37.11 (-61.26031d) Equinox: J2000		V=13.48+/-0.03 B-V=1.02	Reference Frame: ICRS
	(42)	N3603-OFFSET	RA: 11 15 9.8642 (168.7911008d) Dec: -61 15 30.45 (-61.25846d) Equinox: J2000		V=12.70+/-0.03 B-V=1.14	Reference Frame: ICRS
	(43)	N3603-CENTER	RA: 11 15 7.5890 (168.7816208d) Dec: -61 15 38.00 (-61.26056d) Equinox: J2000		V=11.30+/-0.03	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(43) N3603-CENTER	STIS/CCD, ACCUM, 50CCD	MIRROR	CR-SPLIT=NO		Pattern 1-1 (2)	0.1 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[1]
	2		(42) N3603-OFFSET	STIS/CCD, ACQ, F28X50LP	MIRROR				0.2 Secs [==>]	[1]
	3		(1) N3603-A1	STIS/CCD, ACCUM, 52X0.2	G430M 4194 A	CR-SPLIT=NO		Pattern 3-3 (1)	60 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)]	[1]
	4		(2) N3603-B	STIS/CCD, ACCUM, 52X0.2	G430M 4194 A	CR-SPLIT=NO		Pattern 4-4 (1)	70 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)]	[1]

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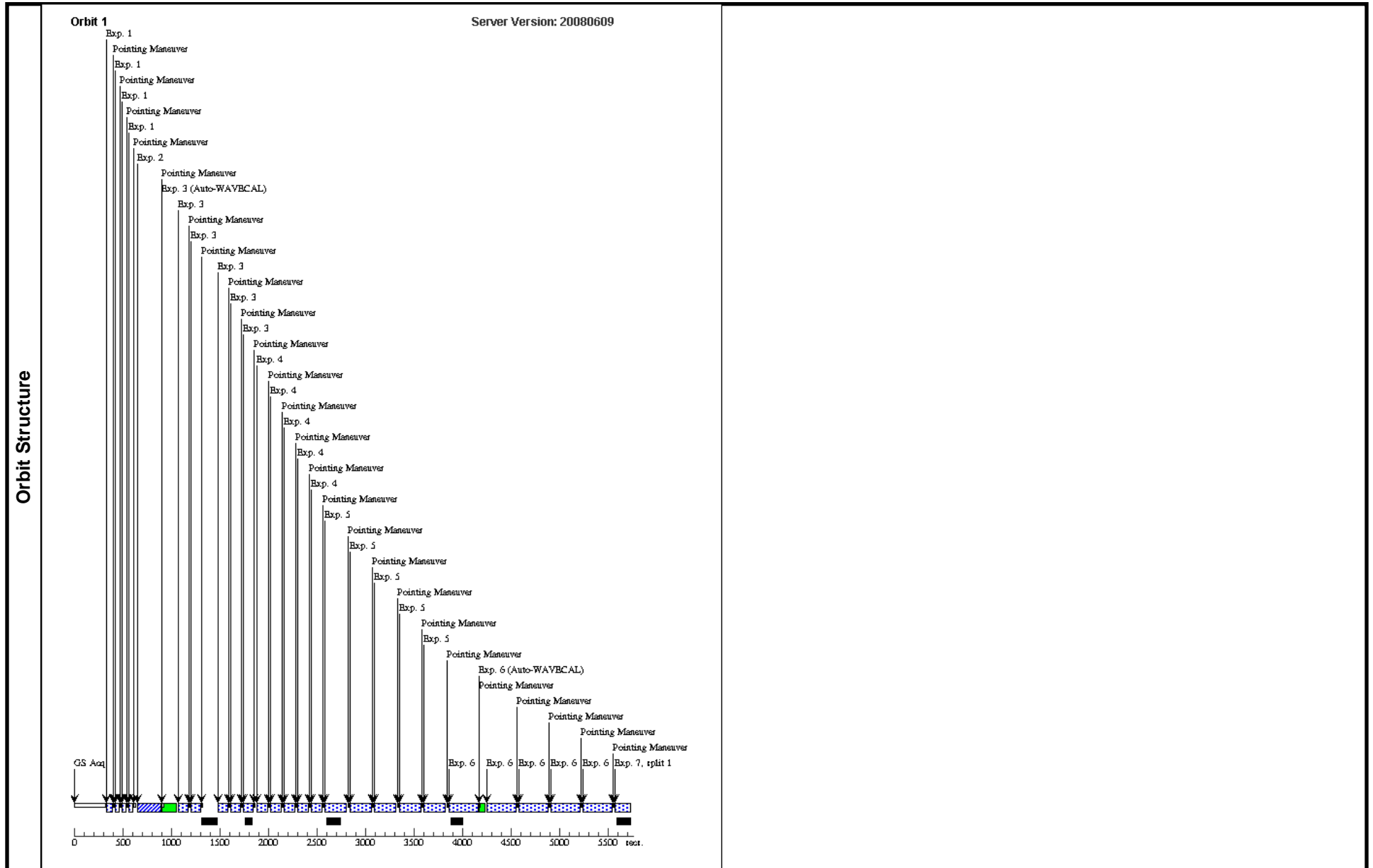
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
5	(3) N3603-A2		STIS/CCD, ACCUM, 52X0.2	G430M	CR-SPLIT=NO		Pattern 5-5 (1)	185 Secs	[1]
				4194 A				[==>(Pattern 1)]	
								[==>(Pattern 2)]	
								[==>(Pattern 3)]	
6	(4) N3603-301		STIS/CCD, ACCUM, 52X0.2	G430M	CR-SPLIT=NO		Pattern 6-6 (1)	260 Secs	[1]
				4194 A				[==>(Pattern 1)]	
								[==>(Pattern 2)]	
								[==>(Pattern 3)]	
7	(5) N3603-42		STIS/CCD, ACCUM, 52X0.2	G430M	CR-SPLIT=2		Pattern 7-7 (1)	295 Secs	[2]
				4194 A				[==>(Pattern 1, Split 1)]	
								[==>(Pattern 1, Split 2)]	
								[==>(Pattern 2, Split 1)]	
								[==>(Pattern 2, Split 2)]	
								[==>(Pattern 3, Split 1)]	
								[==>(Pattern 3, Split 2)]	
								[==>(Pattern 4, Split 1)]	
								[==>(Pattern 4, Split 2)]	
								[==>(Pattern 5, Split 1)]	
	[==>(Pattern 5, Split 2)]								
8	(6) N3603-302		STIS/CCD, ACCUM, 52X0.2	G430M	CR-SPLIT=2		Pattern 8-8 (1)	295 Secs	[2]
				4194 A				[==>(Pattern 1, Split 1)]	
								[==>(Pattern 1, Split 2)]	
								[==>(Pattern 2, Split 1)]	
								[==>(Pattern 2, Split 2)]	
								[==>(Pattern 3, Split 1)]	
								[==>(Pattern 3, Split 2)]	
								[==>(Pattern 4, Split 1)]	
								[==>(Pattern 4, Split 2)]	
								[==>(Pattern 5, Split 1)]	
	[==>(Pattern 5, Split 2)]								

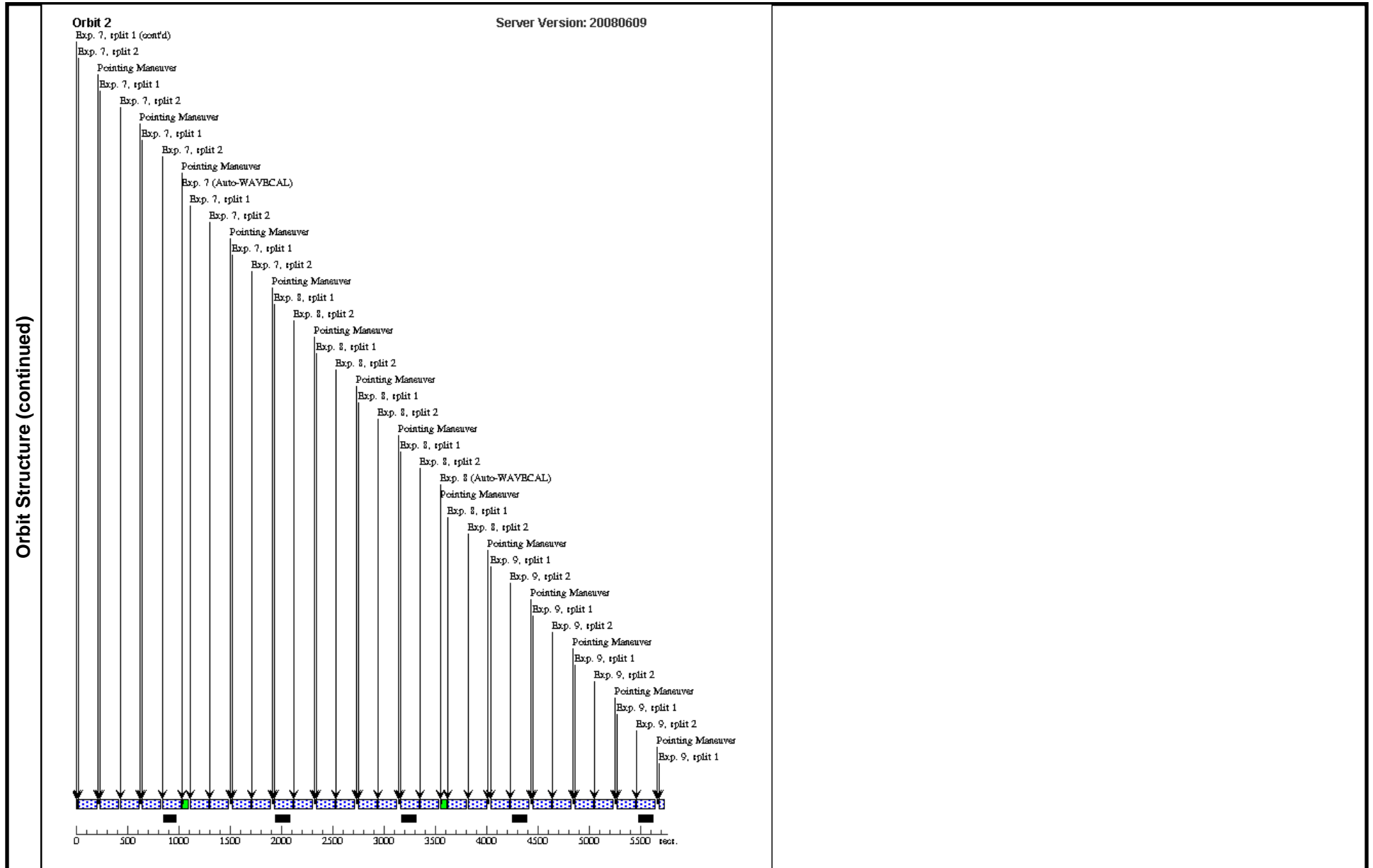
Exposures (continued)

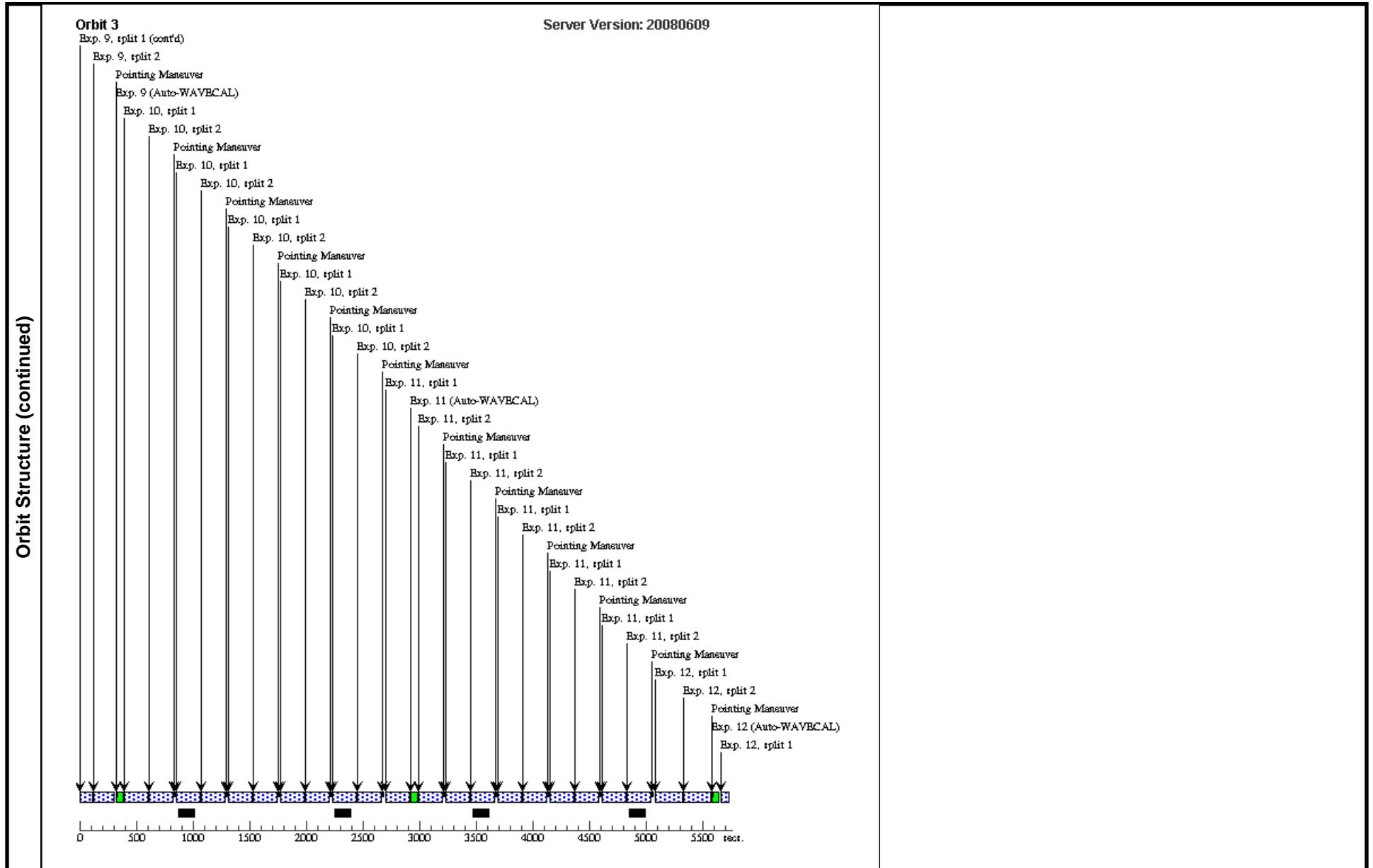
Proposal 11626 - Visit 05 - Searching for the Upper Mass Limit in NGC 3603, the Nearest Giant H II Region

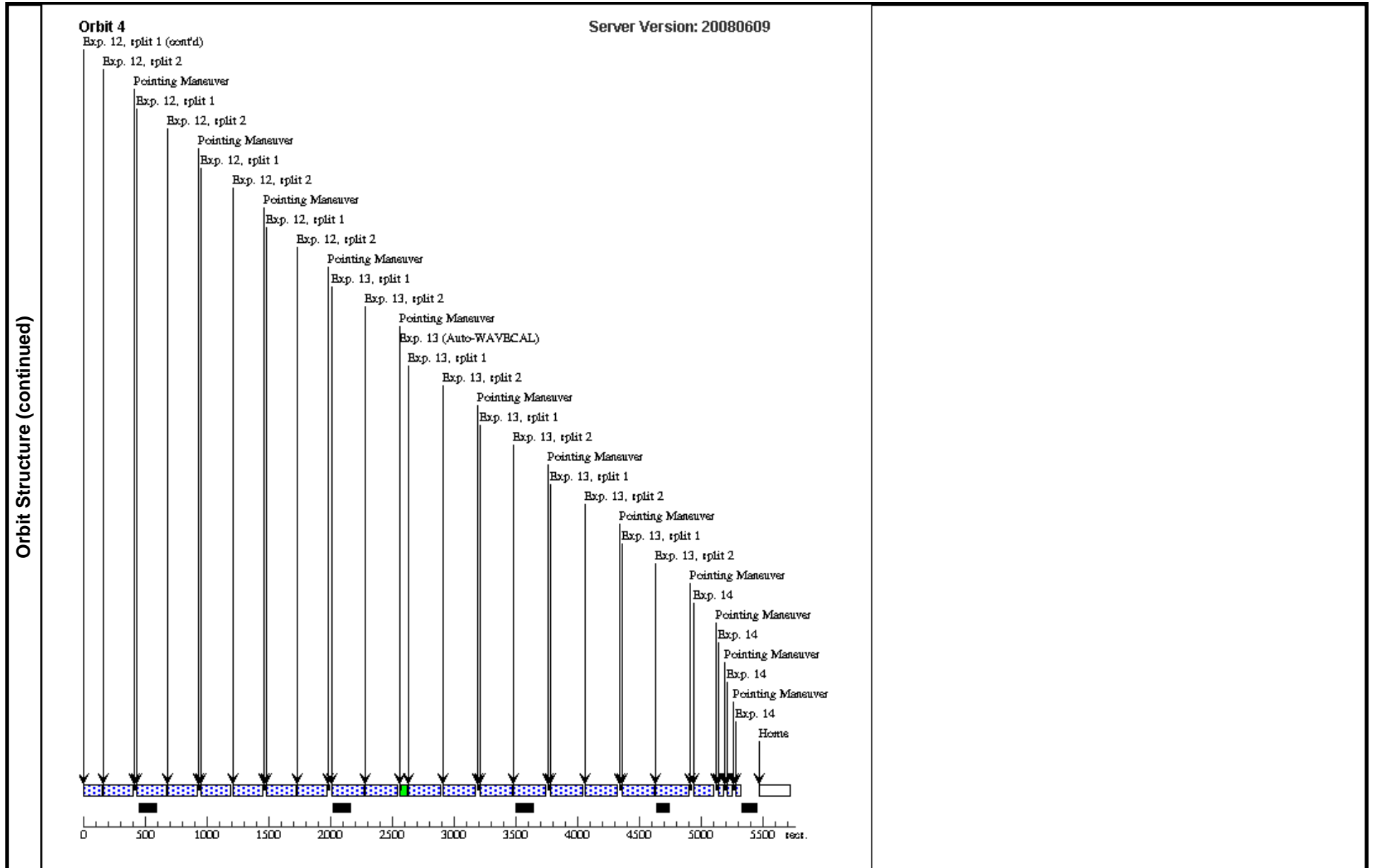
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures (continued)	9	(7) N3603-A3	STIS/CCD, ACCUM, 52X0.2	G430M 4194 A	CR-SPLIT=2		Pattern 9-9 (1)	295 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)] [==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)] [==>(Pattern 4, Split 1)] [==>(Pattern 4, Split 2)] [==>(Pattern 5, Split 1)] [==>(Pattern 5, Split 2)]	[2]          [3]
	10	(8) N3603-303	STIS/CCD, ACCUM, 52X0.2	G430M 4194 A	CR-SPLIT=2		Pattern 10-10 (1)	345 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)] [==>(Pattern 4, Split 1)] [==>(Pattern 4, Split 2)] [==>(Pattern 5, Split 1)] [==>(Pattern 5, Split 2)]	[3]
	11	(9) N3603-38	STIS/CCD, ACCUM, 52X0.2	G430M 4194 A	CR-SPLIT=2		Pattern 11-11 (1)	345 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)] [==>(Pattern 4, Split 1)] [==>(Pattern 4, Split 2)] [==>(Pattern 5, Split 1)] [==>(Pattern 5, Split 2)]	[3]











Proposal 11626 - Visit 06 - Searching for the Upper Mass Limit in NGC 3603, the Nearest Giant H II Region

Wed Jun 18 01:17:26 GMT 2008

Visit		Proposal 11626, Visit 06, implementation				
		Diagnostic Status: No Diagnostics				
		Scientific Instruments: STIS/CCD				
		Special Requirements: CVZ				
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=STIS-ALONG-SLIT Purpose=DITHER Number Of Points=5 Point Spacing=0.5 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=90.0 Angle Between Sides= Center Pattern=false		(3), (4), (5), (6), (7), (8), (9), (10), (11), (12), (13), (14), (15), (16), (17), (18), (19), (20), (21), (22), (23), (24)		
	(2)	Pattern Type=STIS-CCD-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.567 Line Spacing=0.567 Coordinate Frame=POS-TARG Pattern Orientation=26.6 Angle Between Sides=143.130102 Center Pattern=false		(1), (25)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	N3603-A1	RA: 11 15 7.3210 (168.7805042d) Dec: -61 15 38.39 (-61.26066d) Equinox: J2000		V=11.18+/-0.03 B-V=1.03	Reference Frame: ICRS
	(2)	N3603-B	RA: 11 15 7.4261 (168.7809421d) Dec: -61 15 38.55 (-61.26071d) Equinox: J2000		V=11.33+/-0.03 B-V=1.01	Reference Frame: ICRS
	(3)	N3603-A2	RA: 11 15 7.3286 (168.7805358d) Dec: -61 15 38.75 (-61.26076d) Equinox: J2000		V=12.53+/-0.03 B-V=1.03	Reference Frame: ICRS
	(4)	N3603-301	RA: 11 15 6.8441 (168.7785171d) Dec: -61 15 35.60 (-61.25989d) Equinox: J2000		V=12.77+/-0.03 B-V=1.03	Reference Frame: ICRS
	(5)	N3603-42	RA: 11 15 7.0756 (168.7794817d) Dec: -61 15 39.26 (-61.26091d) Equinox: J2000		V=13.01+/-0.03 B-V=1.02	Reference Frame: ICRS
	(6)	N3603-302	RA: 11 15 6.9397 (168.7789154d) Dec: -61 15 38.94 (-61.26082d) Equinox: J2000		V=13.04+/-0.03 B-V=0.98	Reference Frame: ICRS
	(7)	N3603-A3	RA: 11 15 7.3674 (168.7806975d) Dec: -61 15 38.42 (-61.26067d) Equinox: J2000		V=13.13+/-0.03 B-V=1.04	Reference Frame: ICRS

Proposal 11626 - Visit 06 - Searching for the Upper Mass Limit in NGC 3603, the Nearest Giant H II Region

Fixed Targets (continued)	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(8)	N3603-303	RA: 11 15 6.9452 (168.7789383d) Dec: -61 15 39.17 (-61.26088d) Equinox: J2000		V=13.22+/-0.03 B-V=1.00	Reference Frame: ICRS
	(9)	N3603-38	RA: 11 15 6.9339 (168.7788913d) Dec: -61 15 36.57 (-61.26016d) Equinox: J2000		V=13.24+/-0.03 B-V=0.96	Reference Frame: ICRS
	(10)	N3603-40	RA: 11 15 7.1401 (168.7797504d) Dec: -61 15 39.05 (-61.26085d) Equinox: J2000		V=13.38+/-0.03 B-V=1.06	Reference Frame: ICRS
	(11)	N3603-304	RA: 11 15 7.2649 (168.7802704d) Dec: -61 15 37.11 (-61.26031d) Equinox: J2000		V=13.48+/-0.03 B-V=1.02	Reference Frame: ICRS
	(42)	N3603-OFFSET	RA: 11 15 9.8642 (168.7911008d) Dec: -61 15 30.45 (-61.25846d) Equinox: J2000		V=12.70+/-0.03 B-V=1.14	Reference Frame: ICRS
	(43)	N3603-CENTER	RA: 11 15 7.5890 (168.7816208d) Dec: -61 15 38.00 (-61.26056d) Equinox: J2000		V=11.30+/-0.03	Reference Frame: ICRS

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(43) N3603-CENTER	STIS/CCD, ACCUM, 50CCD	MIRROR	CR-SPLIT=NO		Pattern 1-1 (2)	0.1 Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[1]
	2		(42) N3603-OFFSET	STIS/CCD, ACQ, F28X50LP	MIRROR				0.2 Secs [=>]	[1]
	3		(1) N3603-A1	STIS/CCD, ACCUM, 52X0.2	G430M 4706 A	CR-SPLIT=NO		Pattern 3-3 (1)	42 Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)] [=>(Pattern 5)]	[1]
	4		(2) N3603-B	STIS/CCD, ACCUM, 52X0.2	G430M 4706 A	CR-SPLIT=NO		Pattern 4-4 (1)	60 Secs [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)] [=>(Pattern 5)]	[1]

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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
5	(3) N3603-A2		STIS/CCD, ACCUM, 52X0.2	G430M 4706 A	CR-SPLIT=NO		Pattern 5-5 (1)	160 Secs	[1]
								[==>(Pattern 1)]	
								[==>(Pattern 2)]	
								[==>(Pattern 3)]	
								[==>(Pattern 4)]	
[==>(Pattern 5)]									
6	(4) N3603-301		STIS/CCD, ACCUM, 52X0.2	G430M 4706 A	CR-SPLIT=NO		Pattern 6-6 (1)	215 Secs	[1]
								[==>(Pattern 1)]	
								[==>(Pattern 2)]	
								[==>(Pattern 3)]	
								[==>(Pattern 4)]	
[==>(Pattern 5)]									
7	(5) N3603-42		STIS/CCD, ACCUM, 52X0.2	G430M 4706 A	CR-SPLIT=NO		Pattern 7-7 (1)	250 Secs	[1]
								[==>(Pattern 1)]	
								[==>(Pattern 2)]	
								[==>(Pattern 3)]	
								[==>(Pattern 4)]	
[==>(Pattern 5)]									
8	(6) N3603-302		STIS/CCD, ACCUM, 52X0.2	G430M 4706 A	CR-SPLIT=NO		Pattern 8-8 (1)	250 Secs	[2]
								[==>(Pattern 1)]	
								[==>(Pattern 2)]	
								[==>(Pattern 3)]	
								[==>(Pattern 4)]	
[==>(Pattern 5)]									
9	(7) N3603-A3		STIS/CCD, ACCUM, 52X0.2	G430M 4706 A	CR-SPLIT=NO		Pattern 9-9 (1)	265 Secs	[2]
								[==>(Pattern 1)]	
								[==>(Pattern 2)]	
								[==>(Pattern 3)]	
								[==>(Pattern 4)]	
[==>(Pattern 5)]									

Exposures (continued)

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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
Exposures (continued)	10	(8) N3603-303	STIS/CCD, ACCUM, 52X0.2	G430M 4706 A	CR-SPLIT=2		Pattern 10-10 (1)	300 Secs	[2]	
								[==>(Pattern 1, Split 1)]		
								[==>(Pattern 1, Split 2)]		
								[==>(Pattern 2, Split 1)]		
								[==>(Pattern 2, Split 2)]		
								[==>(Pattern 3, Split 1)]		
	11	(9) N3603-38	STIS/CCD, ACCUM, 52X0.2	G430M 4706 A	CR-SPLIT=2			Pattern 11-11 (1)	300 Secs	[3]
									[==>(Pattern 1, Split 1)]	
									[==>(Pattern 1, Split 2)]	
									[==>(Pattern 2, Split 1)]	
									[==>(Pattern 2, Split 2)]	
									[==>(Pattern 3, Split 1)]	
12	(10) N3603-40	STIS/CCD, ACCUM, 52X0.2	G430M 4706 A	CR-SPLIT=2			Pattern 12-12 (1)	360 Secs	[3]	
								[==>(Pattern 1, Split 1)]		
								[==>(Pattern 1, Split 2)]		
								[==>(Pattern 2, Split 1)]		
								[==>(Pattern 2, Split 2)]		
								[==>(Pattern 3, Split 1)]		

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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures (continued)	13	(11) N3603-304	STIS/CCD, ACCUM, 52X0.2	G430M 4706 A	CR-SPLIT=2		Pattern 13-13 (1)	400 Secs [==>(Pattern 1, Split 1)] [==>(Pattern 1, Split 2)]	[3]
								[==>(Pattern 2, Split 1)] [==>(Pattern 2, Split 2)] [==>(Pattern 3, Split 1)] [==>(Pattern 3, Split 2)] [==>(Pattern 4, Split 1)] [==>(Pattern 4, Split 2)] [==>(Pattern 5, Split 1)] [==>(Pattern 5, Split 2)]	[4]
	14	(1) N3603-A1	STIS/CCD, ACCUM, 52X0.2	G750M 6581 A	CR-SPLIT=NO		Pattern 14-14 (1)	15.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)]	[4]
	15	(2) N3603-B	STIS/CCD, ACCUM, 52X0.2	G750M 6581 A	CR-SPLIT=NO		Pattern 15-15 (1)	18.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)]	[4]
	16	(9) N3603-38	STIS/CCD, ACCUM, 52X0.2	G750M 6581 A	CR-SPLIT=NO		Pattern 16-16 (1)	90.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)]	[4]
	17	(3) N3603-A2	STIS/CCD, ACCUM, 52X0.2	G750M 6581 A	CR-SPLIT=NO		Pattern 17-17 (1)	25.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)]	[4]

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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures (continued)	18	(4) N3603-301	STIS/CCD, ACCUM, 52X0.2	G750M 6581 A	CR-SPLIT=NO		Pattern 18-18 (1)	72.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)]	[4]
	19	(5) N3603-42	STIS/CCD, ACCUM, 52X0.2	G750M 6581 A	CR-SPLIT=NO		Pattern 19-19 (1)	80.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)]	[4] [5]
	20	(6) N3603-302	STIS/CCD, ACCUM, 52X0.2	G750M 6581 A	CR-SPLIT=NO		Pattern 20-20 (1)	80.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)]	[5]
	21	(7) N3603-A3	STIS/CCD, ACCUM, 52X0.2	G750M 6581 A	CR-SPLIT=NO		Pattern 21-21 (1)	80.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)]	[5]
	22	(8) N3603-303	STIS/CCD, ACCUM, 52X0.2	G750M 6581 A	CR-SPLIT=NO		Pattern 22-22 (1)	90.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)]	[5]
	23	(10) N3603-40	STIS/CCD, ACCUM, 52X0.2	G750M 6581 A	CR-SPLIT=NO		Pattern 23-23 (1)	100.0 Secs [==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)] [==>(Pattern 5)]	[5]

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Exposures (continued)	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	24	(11) N3603-304	STIS/CCD, ACCUM, 52X0.2	G750M 6581 A	CR-SPLIT=NO	Pattern 24-24 (1)	100.0 Secs	[=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)] [=>(Pattern 5)]	[5]	
25	(43) N3603-CENTE R	STIS/CCD, ACCUM, 50CCD	MIRROR	CR-SPLIT=NO	Pattern 25-25 (2)	0.1 Secs	[=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[5]		

