



14707 - Searching for the Most Massive Stars in M31 and M33

Cycle: 24, Proposal Category: SNAP

(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) M31-OB78N	WFC3/UVIS	1	07-Sep-2016 18:16:01.0	yes
02	(2) M31-OB78S	WFC3/UVIS	1	07-Sep-2016 18:16:02.0	yes
03	(3) M31-OB184	WFC3/UVIS	1	07-Sep-2016 18:16:02.0	yes
04	(4) M31-OB139	WFC3/UVIS	1	07-Sep-2016 18:16:03.0	yes
05	(5) M31-OB69	WFC3/UVIS	1	07-Sep-2016 18:16:03.0	yes
06	(6) M31-OB66	WFC3/UVIS	1	07-Sep-2016 18:16:04.0	yes
07	(7) M31-OB128	WFC3/UVIS	1	07-Sep-2016 18:16:04.0	yes
08	(8) M31-OB157	WFC3/UVIS	1	07-Sep-2016 18:16:04.0	yes
09	(9) M31-OB66N	WFC3/UVIS	1	07-Sep-2016 18:16:05.0	yes
10	(10) M31-OB66S	WFC3/UVIS	1	07-Sep-2016 18:16:05.0	yes
11	(11) M31-OB21	WFC3/UVIS	1	07-Sep-2016 18:16:05.0	yes
12	(12) M31-OB140	WFC3/UVIS	1	07-Sep-2016 18:16:06.0	yes
13	(13) M31-OB182	WFC3/UVIS	1	07-Sep-2016 18:16:06.0	yes

Proposal 14707 (STScI Edit Number: 0, Created: Wednesday, September 7, 2016 5:16:14 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>
14	(14) M33-OB131	WFC3/UVIS	1	07-Sep-2016 18:16:06.0	yes
15	(15) M33-OB116	WFC3/UVIS	1	07-Sep-2016 18:16:07.0	yes
16	(16) M33-OB127	WFC3/UVIS	1	07-Sep-2016 18:16:07.0	yes
17	(17) M33-OB128	WFC3/UVIS	1	07-Sep-2016 18:16:07.0	yes
18	(18) M33-OB115	WFC3/UVIS	1	07-Sep-2016 18:16:08.0	yes
19	(19) M31-OB126	WFC3/UVIS	1	07-Sep-2016 18:16:08.0	yes
20	(20) M33-OB137	WFC3/UVIS	1	07-Sep-2016 18:16:08.0	yes
21	(21) M33-OB121	WFC3/UVIS	1	07-Sep-2016 18:16:09.0	yes
22	(22) M33-OB21	WFC3/UVIS	1	07-Sep-2016 18:16:09.0	yes
23	(23) M33-OB29	WFC3/UVIS	1	07-Sep-2016 18:16:09.0	yes
24	(24) M31-OB139S	WFC3/UVIS	1	07-Sep-2016 18:16:10.0	yes
25	(25) M33-OBANON	WFC3/UVIS	1	07-Sep-2016 18:16:10.0	yes
26	(26) M33-OB59	WFC3/UVIS	1	07-Sep-2016 18:16:10.0	yes
27	(27) M33-OB112	WFC3/UVIS	1	07-Sep-2016 18:16:11.0	yes
28	(28) M31-OB122N	WFC3/UVIS	1	07-Sep-2016 18:16:11.0	yes
29	(29) M31-OB122S	WFC3/UVIS	1	07-Sep-2016 18:16:11.0	yes
30	(30) M31-OB125	WFC3/UVIS	1	07-Sep-2016 18:16:12.0	yes
31	(31) M33-OB89	WFC3/UVIS	1	07-Sep-2016 18:16:12.0	yes
32	(32) M33-OB123	WFC3/UVIS	1	07-Sep-2016 18:16:12.0	yes
33	(33) M31-OB127	WFC3/UVIS	1	07-Sep-2016 18:16:13.0	yes

33 Total Orbits Used

ABSTRACT

Our spiral neighbors M31 and M33 can be used as laboratories for testing our theories of massive star evolution. Since massive star evolution depends heavily metallicity, M31 and M33 play a particularly important role in this regard: M31 has a metallicity about 1.5x solar, while M33 possesses a metallicity gradient going from solar in the center to sub-solar in the outer regions. Complete samples of evolved massive stars have

been identified in these galaxies, but little is known of their unevolved predecessors, the O-type stars. The upper-left portions of the H-R diagrams of M31 and M33 are virtually empty, not because of the scant numbers of massive stars, but from our lack of knowledge. We are proposing a series of UV SNAPS of the most active star-forming regions in M31 and M33. These regions were previously imaged as part of a Cycle 15 treasury proposal, and have good optical colors, but the UV images were severely affected by charge transfer efficiency issues when the data were taken near the end of WFPC2's life. Our goal is to use photometry from these images to help us identify the most massive stars in these galaxies.

OBSERVING DESCRIPTION

Most SNAPS will consist of two 350-sec exposures with WFC3 and the F275 filter using the WFC3-UVIS-GAP-LINE pattern. For 8 SNAPS the exposure times are reduced to 150 sec to avoid possible saturation by UV bright stars.

Proposal 14707 - Visit 01 - Searching for the Most Massive Stars in M31 and M33

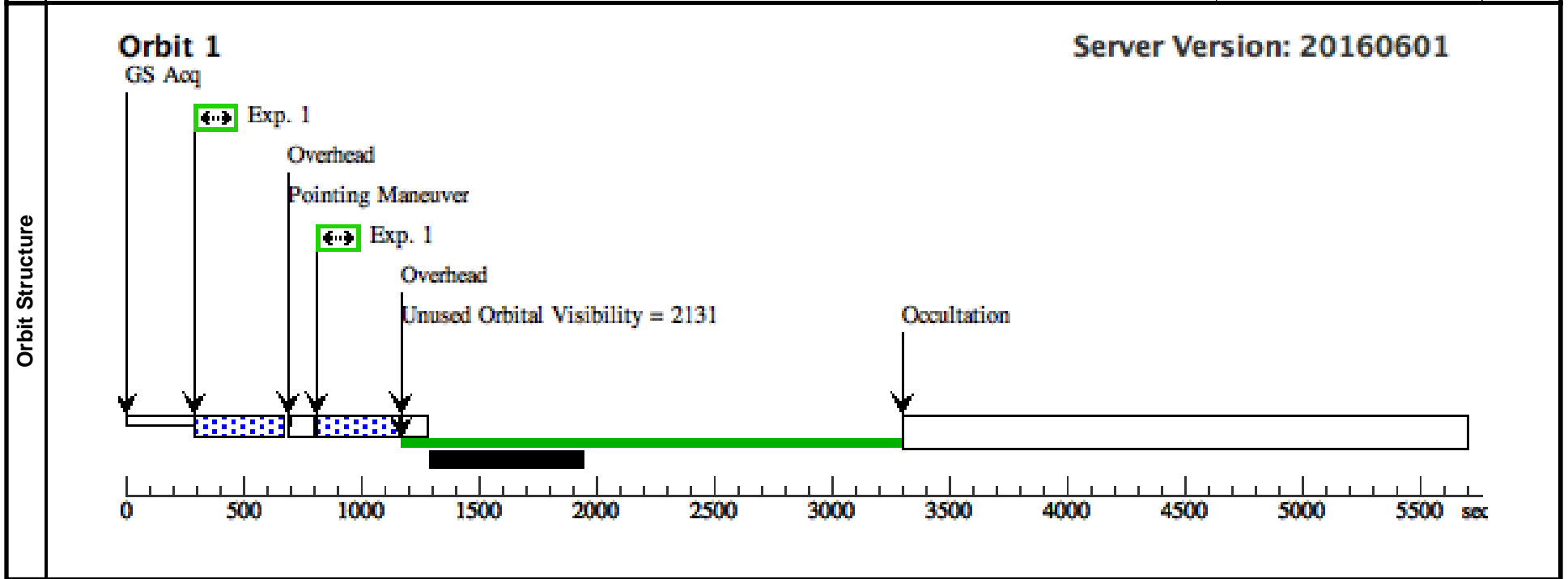
Wed Sep 07 22:16:14 GMT 2016

Visit	Proposal 14707, Visit 01, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	M31-OB78N	RA: 00 40 30.9000 (10.1287500d) Dec: +40 45 15.00 (40.75417d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>						

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.820479)	(1) M31-OB78N	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 01 (1)	350 Secs (700 Secs)	
									[=>(Pattern 1)]	
									[=>(Pattern 2)]	[1]



Proposal 14707 - Visit 02 - Searching for the Most Massive Stars in M31 and M33

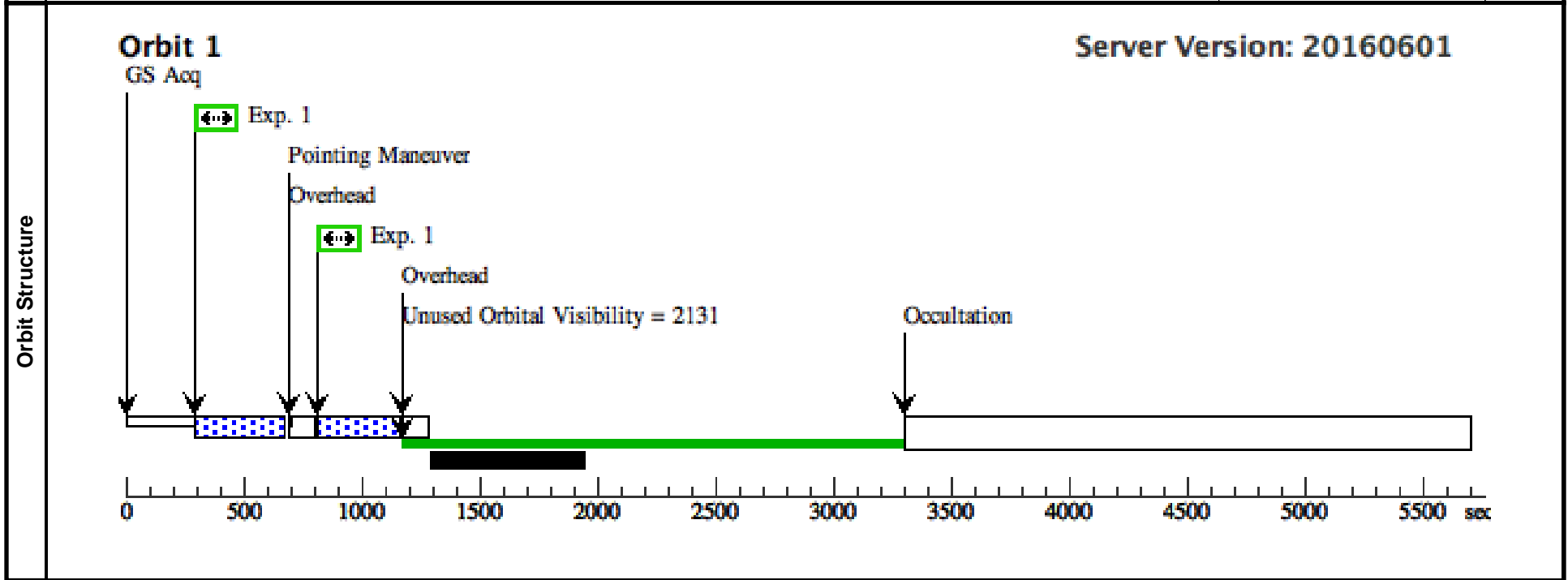
Wed Sep 07 22:16:14 GMT 2016

Visit	Proposal 14707, Visit 02, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	M31-OB78S	RA: 00 40 30.9000 (10.1287500d) Dec: +40 43 37.00 (40.72694d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
	<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.820479)	(2) M31-OB78S	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 02 (1)	350 Secs (700 Secs)	
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									[=>(Pattern 2)]	



Proposal 14707 - Visit 03 - Searching for the Most Massive Stars in M31 and M33

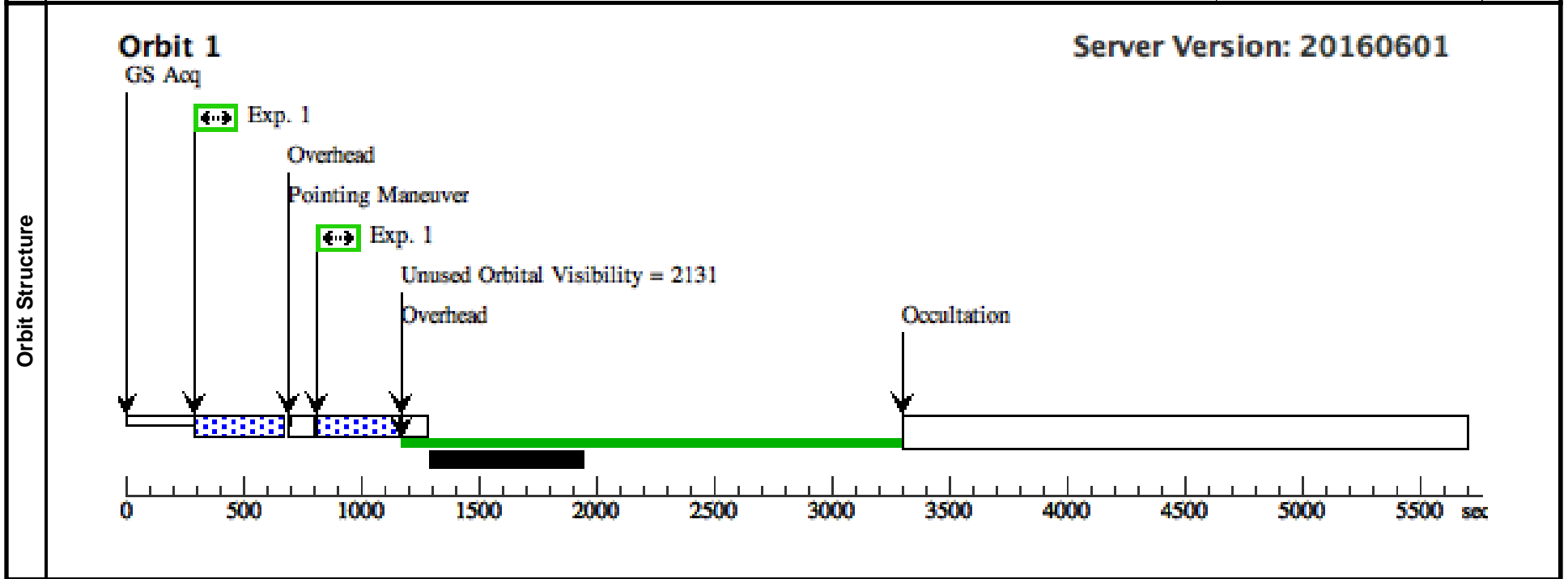
Wed Sep 07 22:16:14 GMT 2016

Visit	Proposal 14707, Visit 03, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	M31-OB184	RA: 00 37 32.8000 (9.3866667d) Dec: +40 00 44.00 (40.01222d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>						

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.820479)	(3) M31-OB184	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 03 (1)	350 Secs (700 Secs)	
									[=>(Pattern 1)]	
									[=>(Pattern 2)]	[1]



Proposal 14707 - Visit 04 - Searching for the Most Massive Stars in M31 and M33

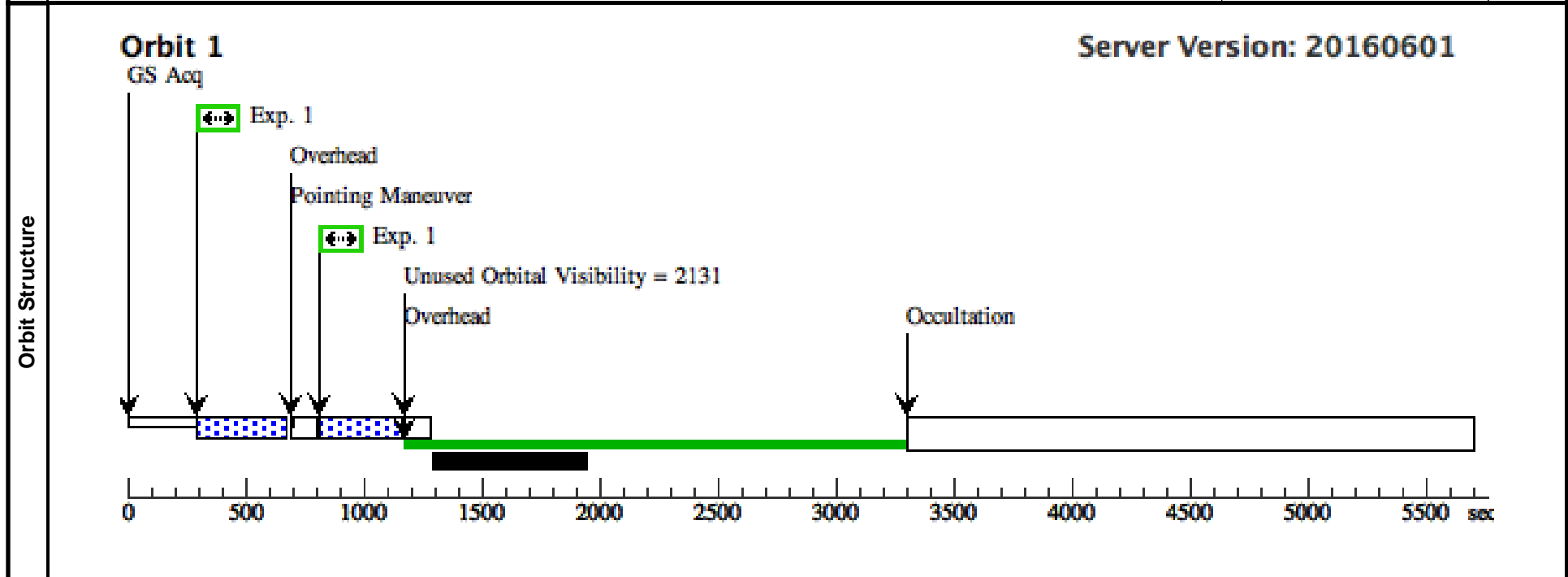
Wed Sep 07 22:16:14 GMT 2016

Visit	Proposal 14707, Visit 04, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	M31-OB139	RA: 00 39 43.7000 (9.9320833d) Dec: +40 20 48.00 (40.34667d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>						

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.820479)	(4) M31-OB139	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 04 (1)	350 Secs (700 Secs)	
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									[=>(Pattern 2)]	[1]



Proposal 14707 - Visit 05 - Searching for the Most Massive Stars in M31 and M33

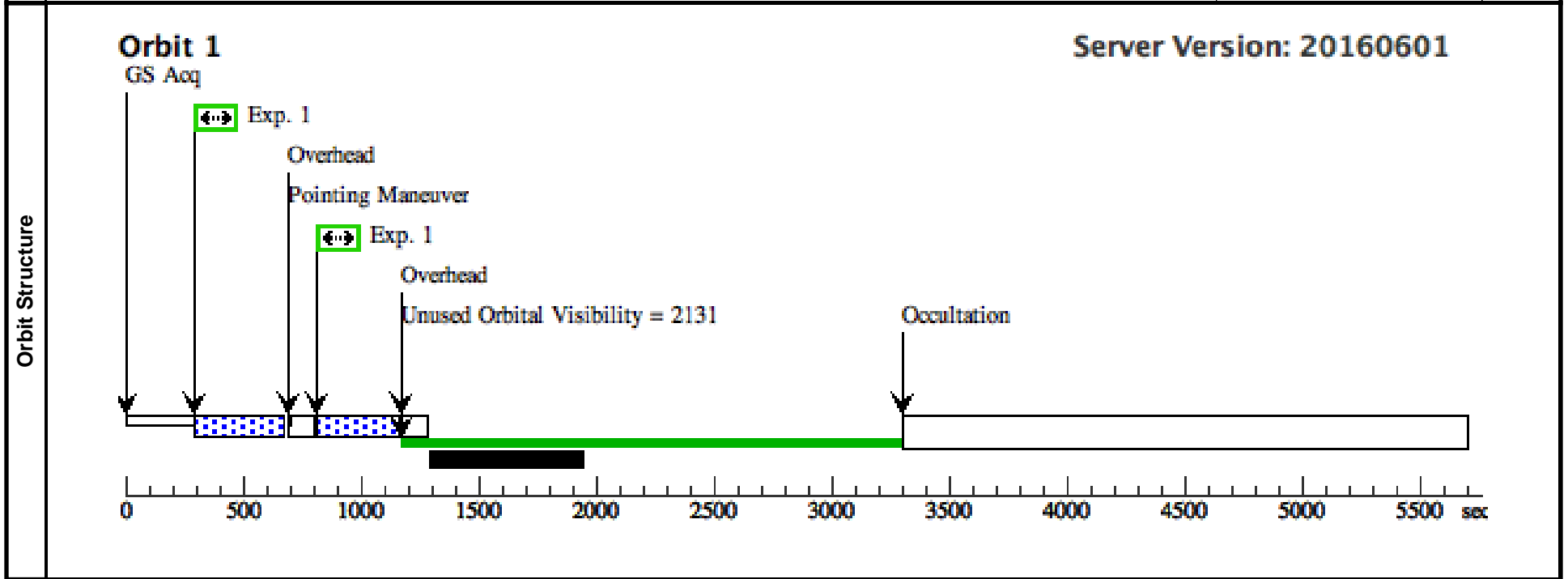
Wed Sep 07 22:16:14 GMT 2016

Visit	Proposal 14707, Visit 05, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	M31-OB69	RA: 00 40 58.5000 (10.2437500d) Dec: +41 03 5.00 (41.05139d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
	<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.820479)	(5) M31-OB69	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 05 (1)	350 Secs (700 Secs)	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	



Proposal 14707 - Visit 06 - Searching for the Most Massive Stars in M31 and M33

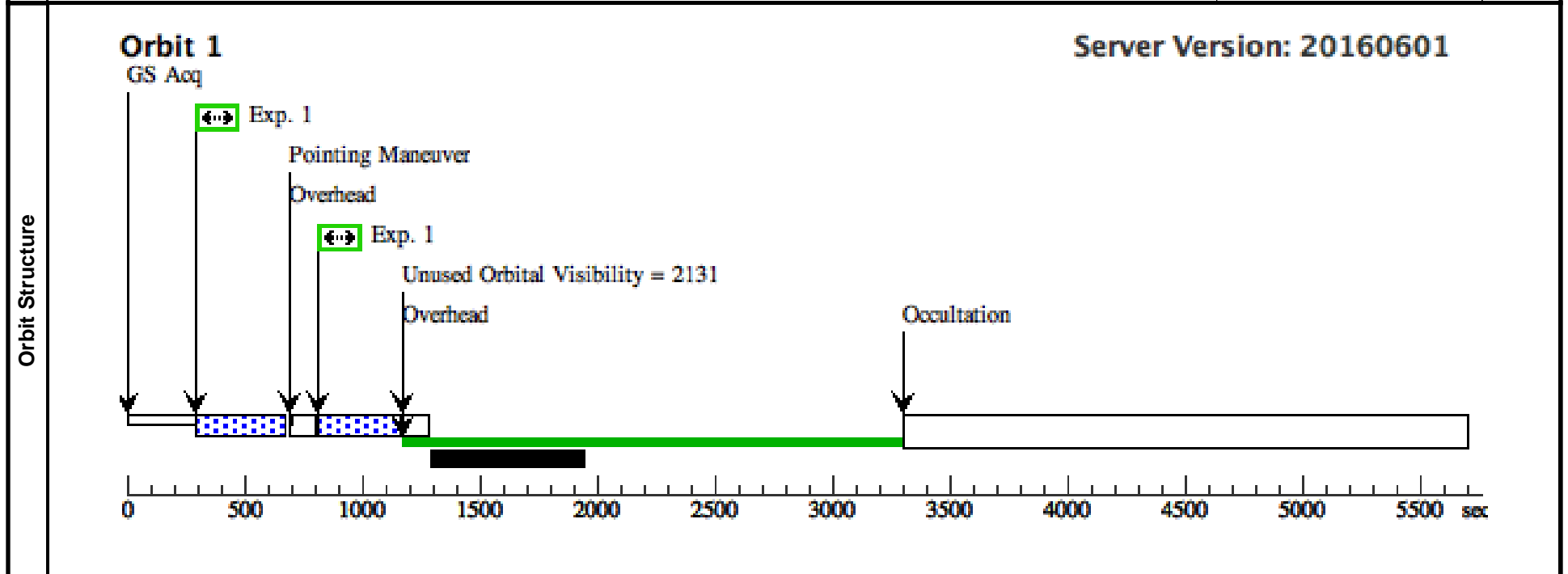
Wed Sep 07 22:16:14 GMT 2016

Visit	Proposal 14707, Visit 06, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(6)	M31-OB66	RA: 00 41 28.1000 (10.3670833d) Dec: +41 12 55.00 (41.21528d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>						

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.820479)	(6) M31-OB66	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 06 (1)	350 Secs (700 Secs)	
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									[=>(Pattern 2)]	[1]



Proposal 14707 - Visit 07 - Searching for the Most Massive Stars in M31 and M33

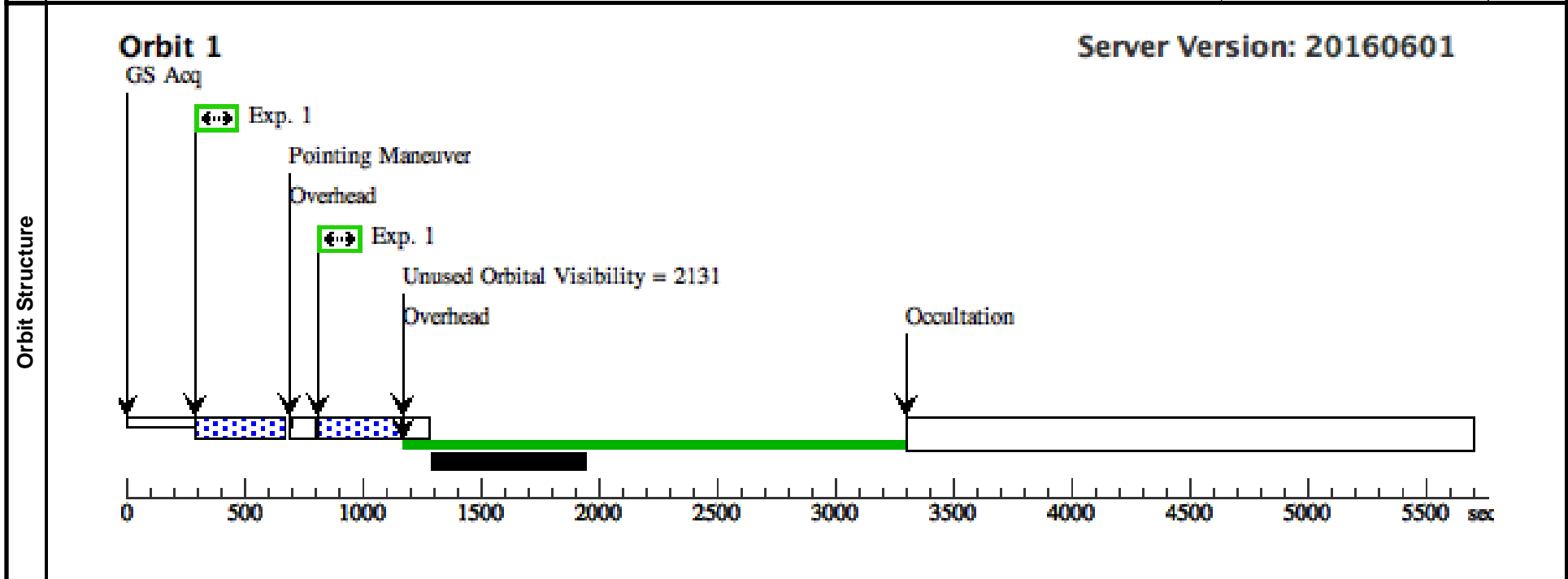
Wed Sep 07 22:16:14 GMT 2016

Visit	Proposal 14707, Visit 07, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(7)	M31-OB128	RA: 00 39 8.6000 (9.7858333d) Dec: +40 28 20.00 (40.47222d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
	<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.820479)	(7) M31-OB128	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 07 (1)	350 Secs (700 Secs)	
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									[=>(Pattern 2)]	[1]



Proposal 14707 - Visit 08 - Searching for the Most Massive Stars in M31 and M33

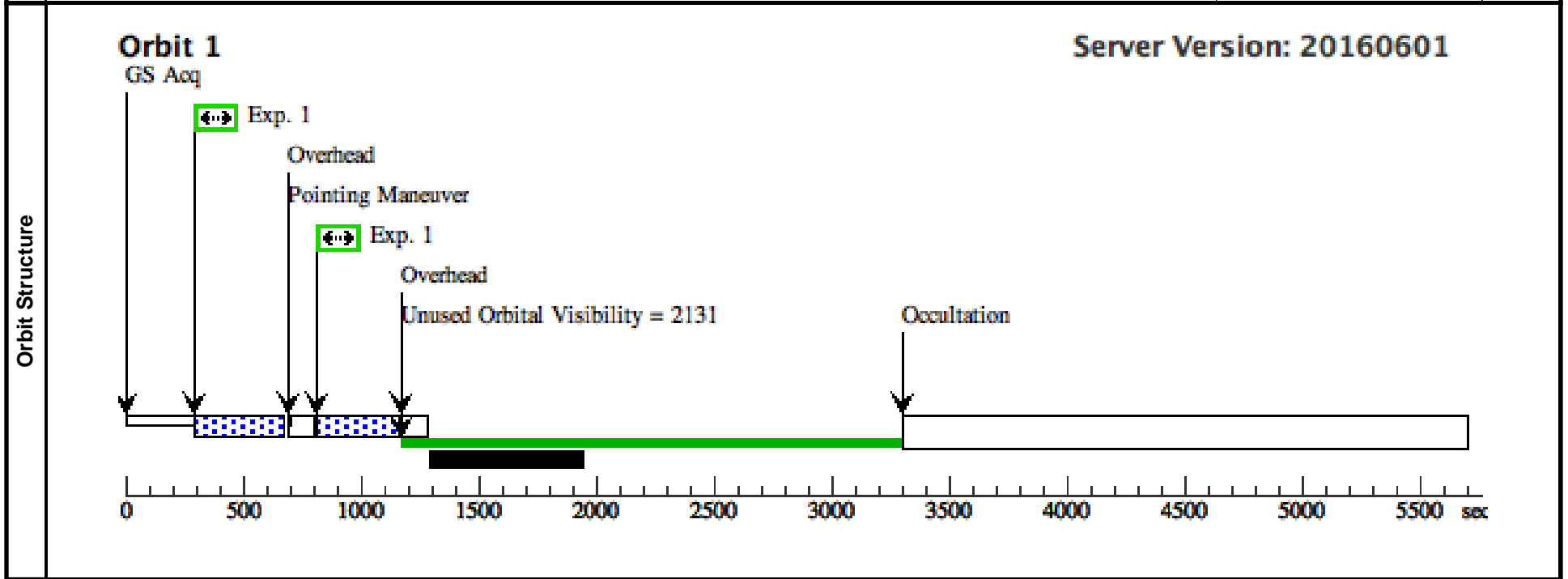
Wed Sep 07 22:16:14 GMT 2016

Visit	Proposal 14707, Visit 08, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(8)	M31-OB157	RA: 00 46 59.7000 (11.7487500d) Dec: +42 27 24.00 (42.45667d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
	<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>					

Exposures	#	Label (ETC Run)	Target	Config, Mode, Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.820479)	(8) M31-OB157	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 08 (1)	350 Secs (700 Secs)	
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									[=>(Pattern 2)]	



Proposal 14707 - Visit 09 - Searching for the Most Massive Stars in M31 and M33

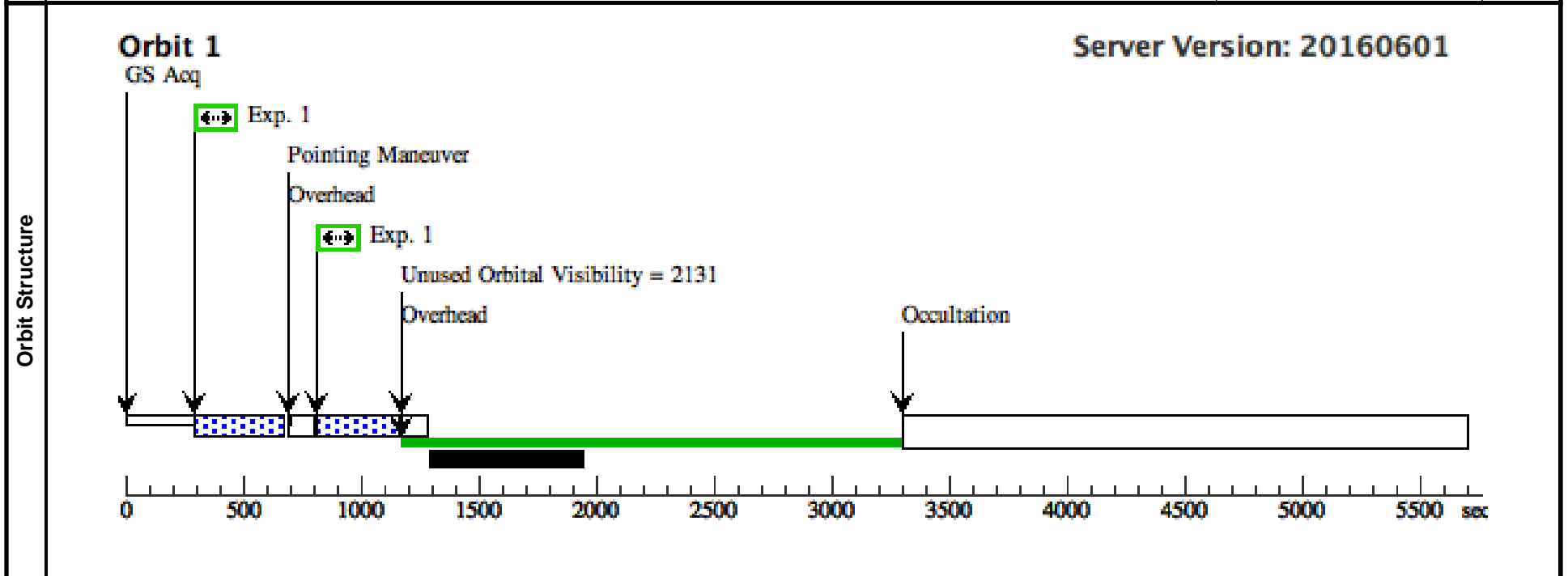
Wed Sep 07 22:16:14 GMT 2016

Visit	Proposal 14707, Visit 09, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(9)	M31-OB66N	RA: 00 41 28.7000 (10.3695833d) Dec: +41 13 1.00 (41.21694d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
	<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.820479)	(9) M31-OB66N	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 09 (1)	350 Secs (700 Secs)	
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									[=>(Pattern 2)]	[1]



Proposal 14707 - Visit 10 - Searching for the Most Massive Stars in M31 and M33

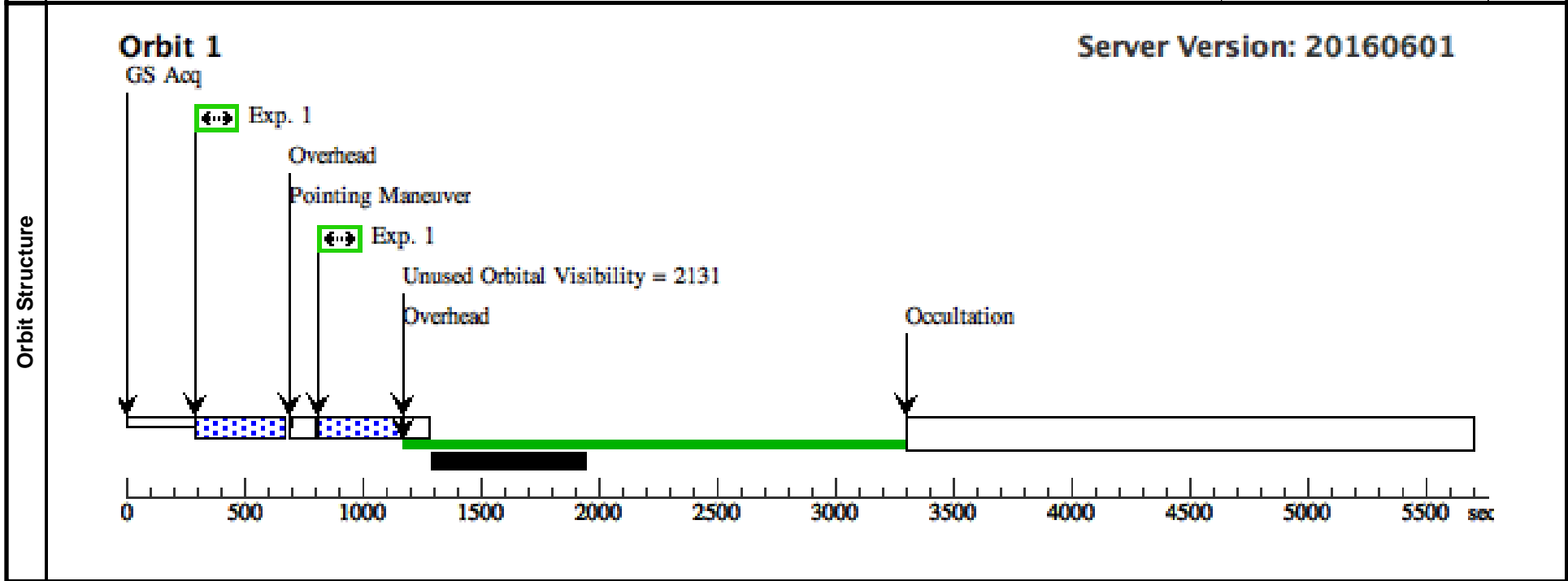
Wed Sep 07 22:16:14 GMT 2016

Visit	Proposal 14707, Visit 10, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(10)	M31-OB66S	RA: 00 41 24.9000 (10.3537500d) Dec: +41 12 6.00 (41.20167d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
	<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVI S.im.820479)	(10) M31-OB66S	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 10 (1)	350 Secs (700 Secs)	
									[==>(Pattern 1)]	[1]
									[==>(Pattern 2)]	



Proposal 14707 - Visit 11 - Searching for the Most Massive Stars in M31 and M33

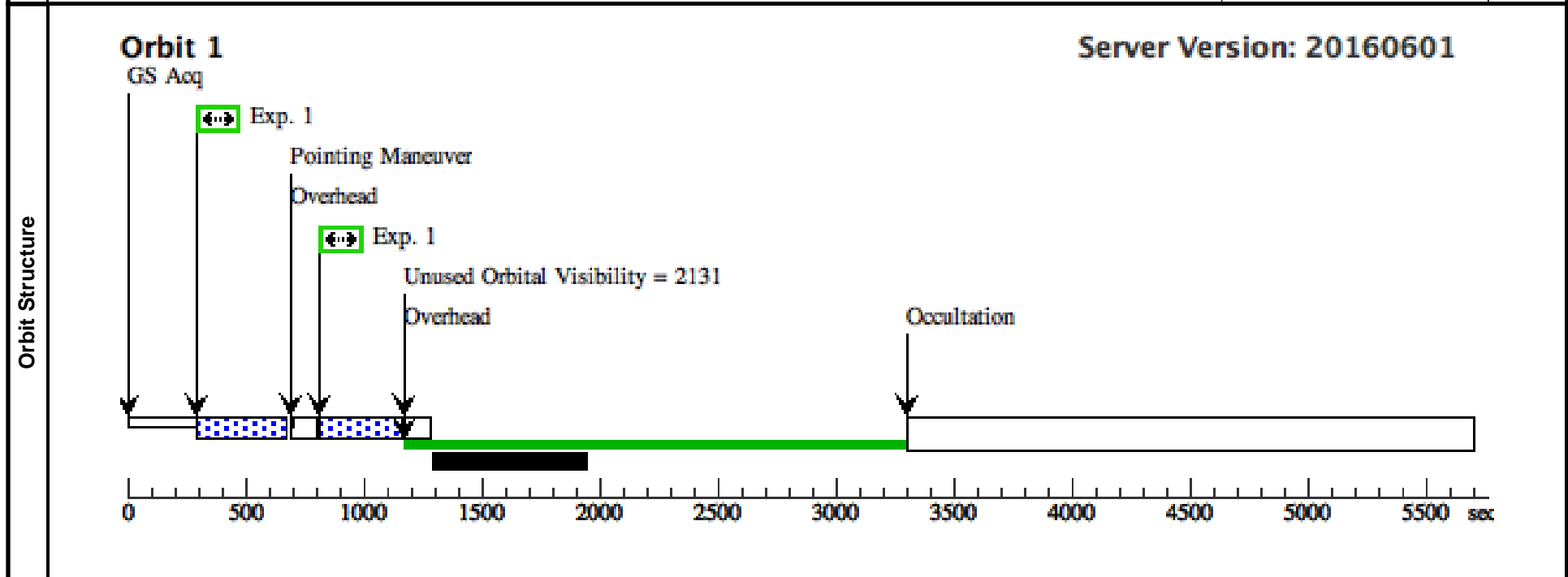
Wed Sep 07 22:16:14 GMT 2016

Visit	Proposal 14707, Visit 11, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(11)	M31-OB21	RA: 00 41 10.0000 (10.2916667d) Dec: +40 48 55.00 (40.81528d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
	<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.820479)	(11) M31-OB21	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 11 (1)	350 Secs (700 Secs)	
									[=>(Pattern 1)]	
									[=>(Pattern 2)]	[1]



Proposal 14707 - Visit 12 - Searching for the Most Massive Stars in M31 and M33

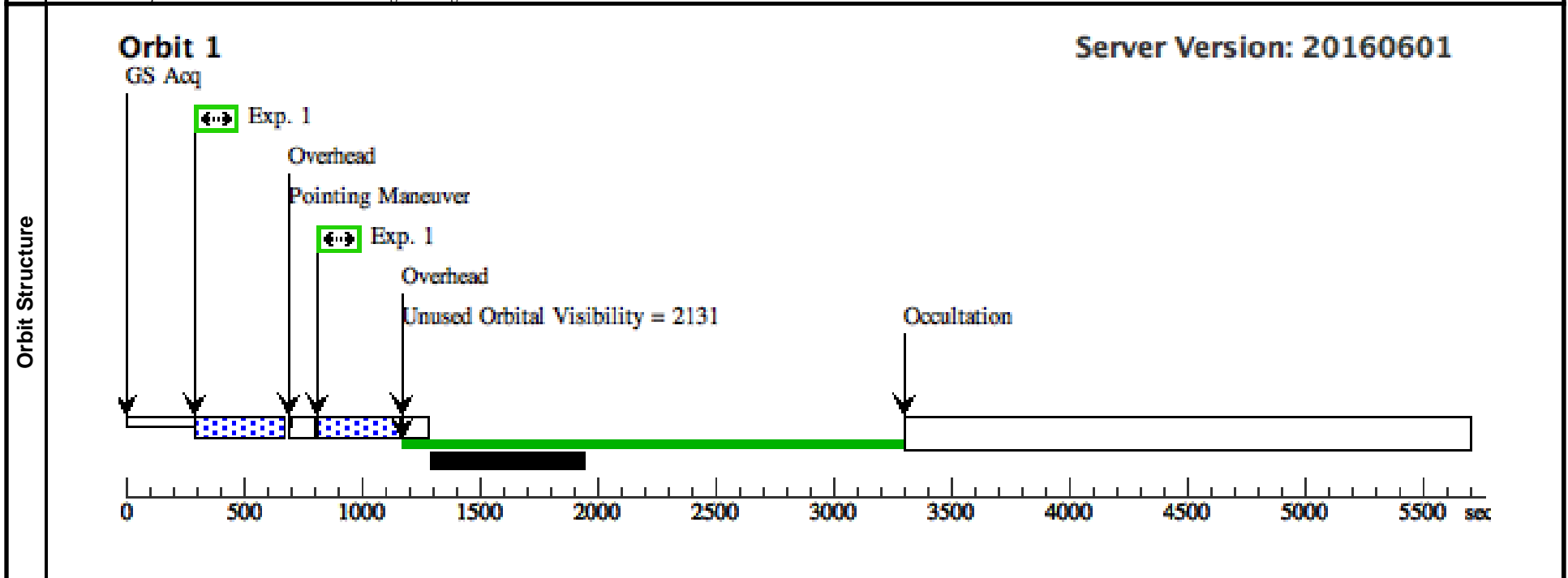
Wed Sep 07 22:16:14 GMT 2016

Visit	Proposal 14707, Visit 12, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(12)	M31-OB140	RA: 00 39 58.9000 (9.9954167d) Dec: +40 22 7.00 (40.36861d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>						

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVI S.im.821111)	(12) M31-OB140	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 12 (1)	350 Secs (700 Secs)	
									[=>(Pattern 1)]	
									[=>(Pattern 2)]	[1]
<i>Comments: Exposure time 150 to avoid saturating UV brightest stars</i>										



Proposal 14707 - Visit 13 - Searching for the Most Massive Stars in M31 and M33

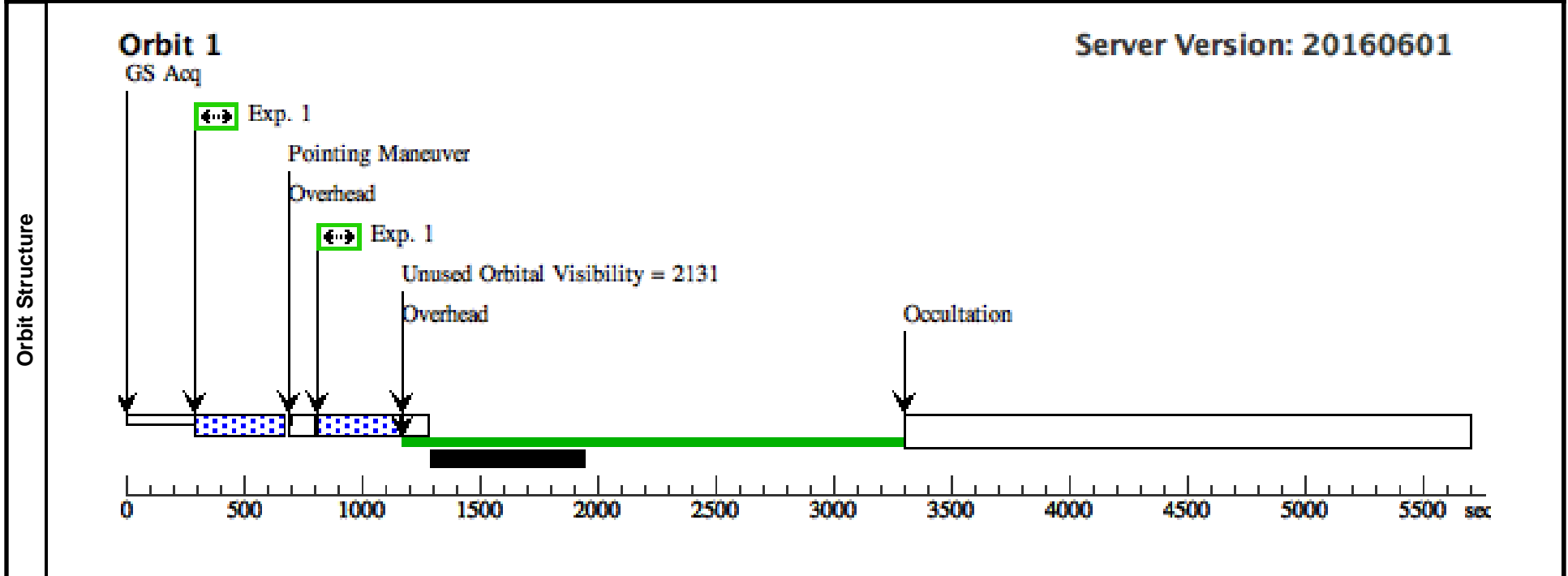
Wed Sep 07 22:16:14 GMT 2016

Visit	Proposal 14707, Visit 13, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(13)	M31-OB182	RA: 00 37 46.1000 (9.4420833d) Dec: +40 24 6.00 (40.40167d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>						

Exposures	#	Label (ETC Run)	Target	Config, Mode, Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVI S.im.821111)	(13) M31-OB182	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 13 (1)	350 Secs (700 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
<i>Comments: Exposure time 150 sec to avoid saturating brightest UV stars</i>										



Proposal 14707 - Visit 14 - Searching for the Most Massive Stars in M31 and M33

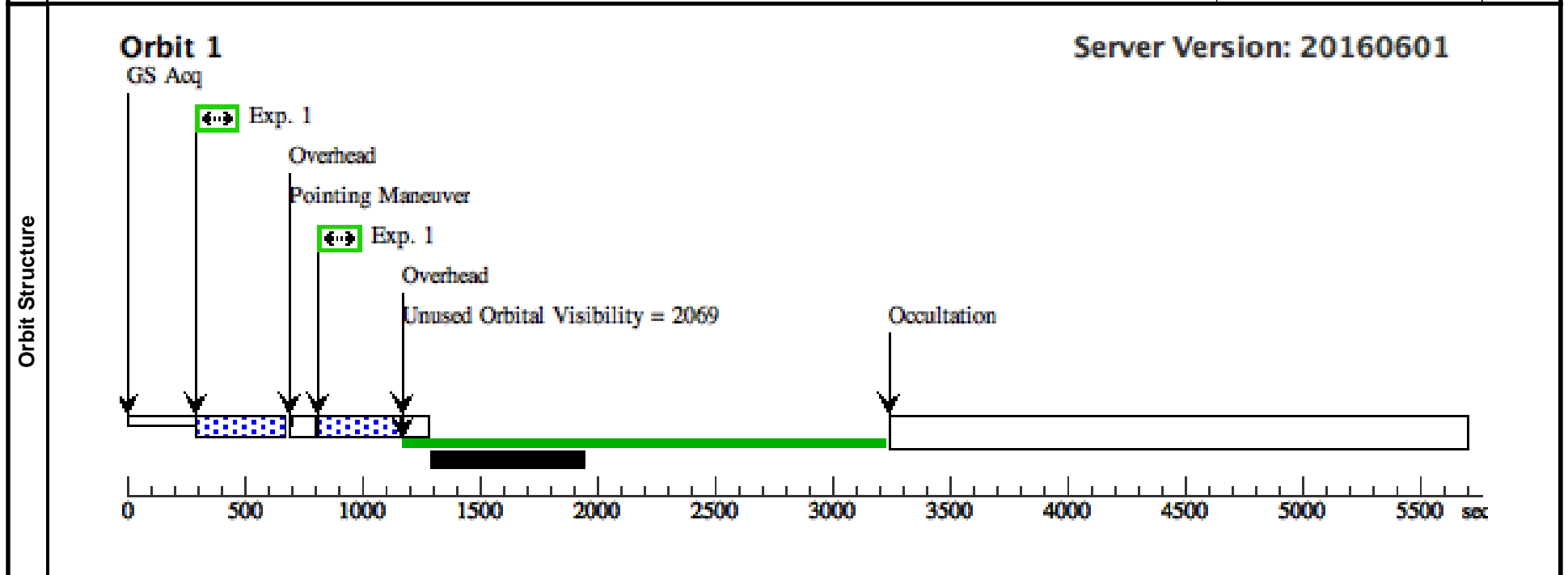
Wed Sep 07 22:16:14 GMT 2016

Visit	Proposal 14707, Visit 14, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(14)	M33-OB131	RA: 01 32 29.7000 (23.1237500d) Dec: +30 34 53.00 (30.58139d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>						

Exposures	#	Label (ETC Run)	Target	Config, Mode, Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.820479)	(14) M33-OB131	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 14 (1)	350 Secs (700 Secs)	
									[=>(Pattern 1)]	
									[=>(Pattern 2)]	[1]



Proposal 14707 - Visit 15 - Searching for the Most Massive Stars in M31 and M33

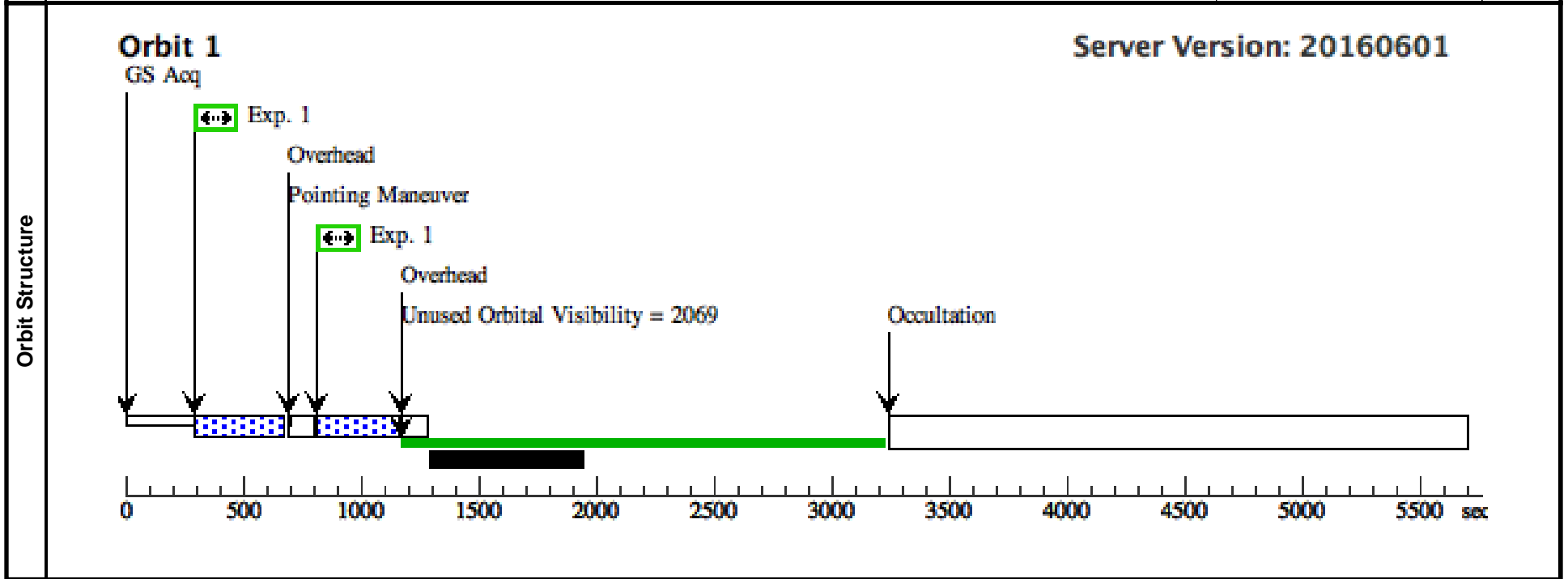
Wed Sep 07 22:16:14 GMT 2016

Visit	Proposal 14707, Visit 15, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(15)	M33-OB116	RA: 01 33 10.6000 (23.2941667d) Dec: +30 23 19.00 (30.38861d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>						

Exposures	#	Label (ETC Run)	Target	Config, Mode, Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.820479)	(15) M33-OB116	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 15 (1)	350 Secs (700 Secs)	
									[=>(Pattern 1)]	
									[=>(Pattern 2)]	[1]



Proposal 14707 - Visit 16 - Searching for the Most Massive Stars in M31 and M33

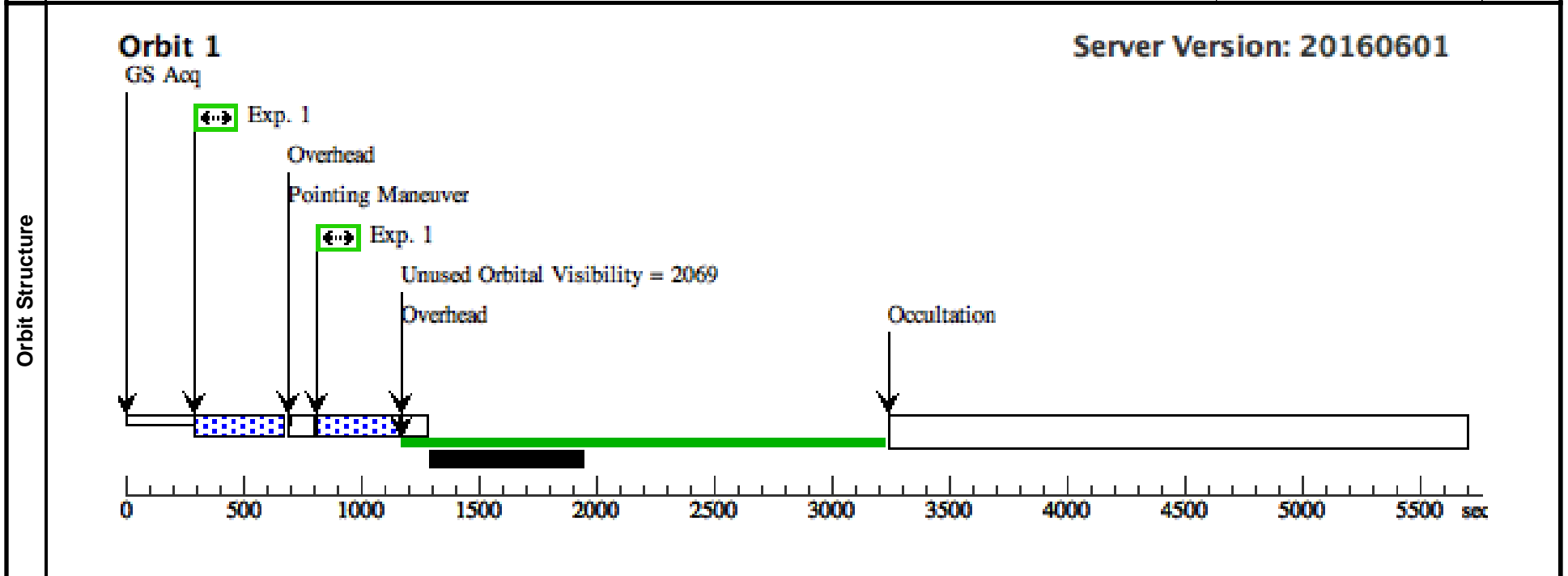
Wed Sep 07 22:16:14 GMT 2016

Visit	Proposal 14707, Visit 16, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(16)	M33-OB127	RA: 01 33 11.8000 (23.2991667d) Dec: +30 29 57.00 (30.49917d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>						

Exposures	#	Label (ETC Run)	Target	Config, Mode, Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.820479)	(16) M33-OB127	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 16 (1)	350 Secs (700 Secs)	
									[=>(Pattern 1)]	
									[=>(Pattern 2)]	[1]



Proposal 14707 - Visit 17 - Searching for the Most Massive Stars in M31 and M33

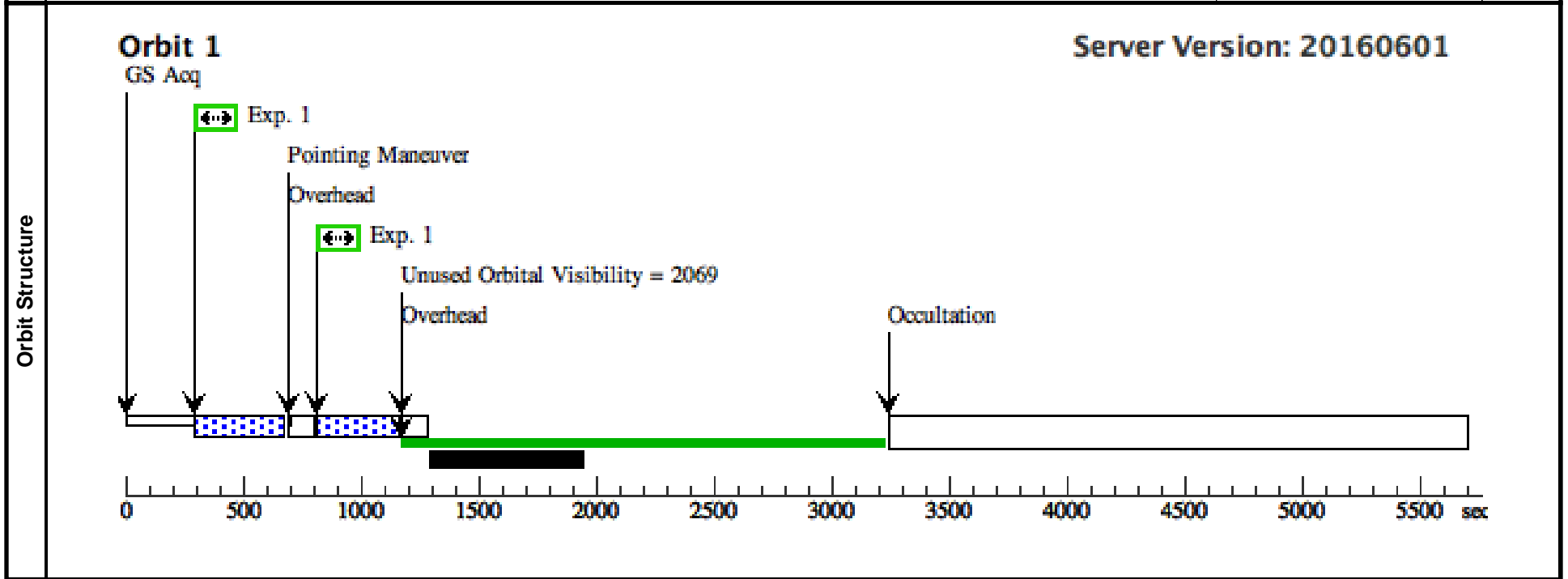
Wed Sep 07 22:16:14 GMT 2016

Visit	Proposal 14707, Visit 17, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(17)	M33-OB128	RA: 01 33 0.5000 (23.2520833d) Dec: +30 31 23.00 (30.52306d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>						

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVI S.im.820479)	(17) M33-OB128	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 17 (1)	350 Secs (700 Secs)	
									[=>(Pattern 1)]	
									[=>(Pattern 2)]	[1]



Proposal 14707 - Visit 18 - Searching for the Most Massive Stars in M31 and M33

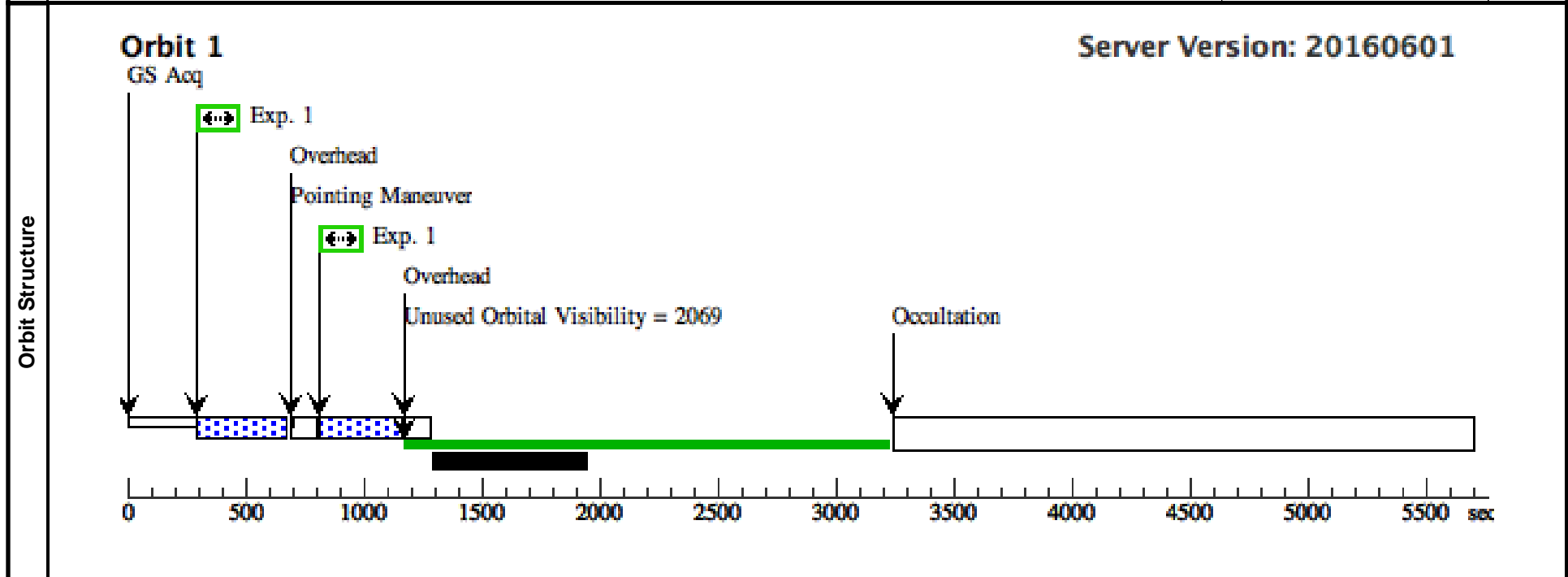
Wed Sep 07 22:16:14 GMT 2016

Visit	Proposal 14707, Visit 18, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(18)	M33-OB115	RA: 01 33 10.1000 (23.2920833d) Dec: +30 27 28.00 (30.45778d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>						

Exposures	#	Label (ETC Run)	Target	Config, Mode, Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.820479)	(18) M33-OB115	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 18 (1)	350 Secs (700 Secs)	
									[=>(Pattern 1)]	
									[=>(Pattern 2)]	[1]



Proposal 14707 - Visit 19 - Searching for the Most Massive Stars in M31 and M33

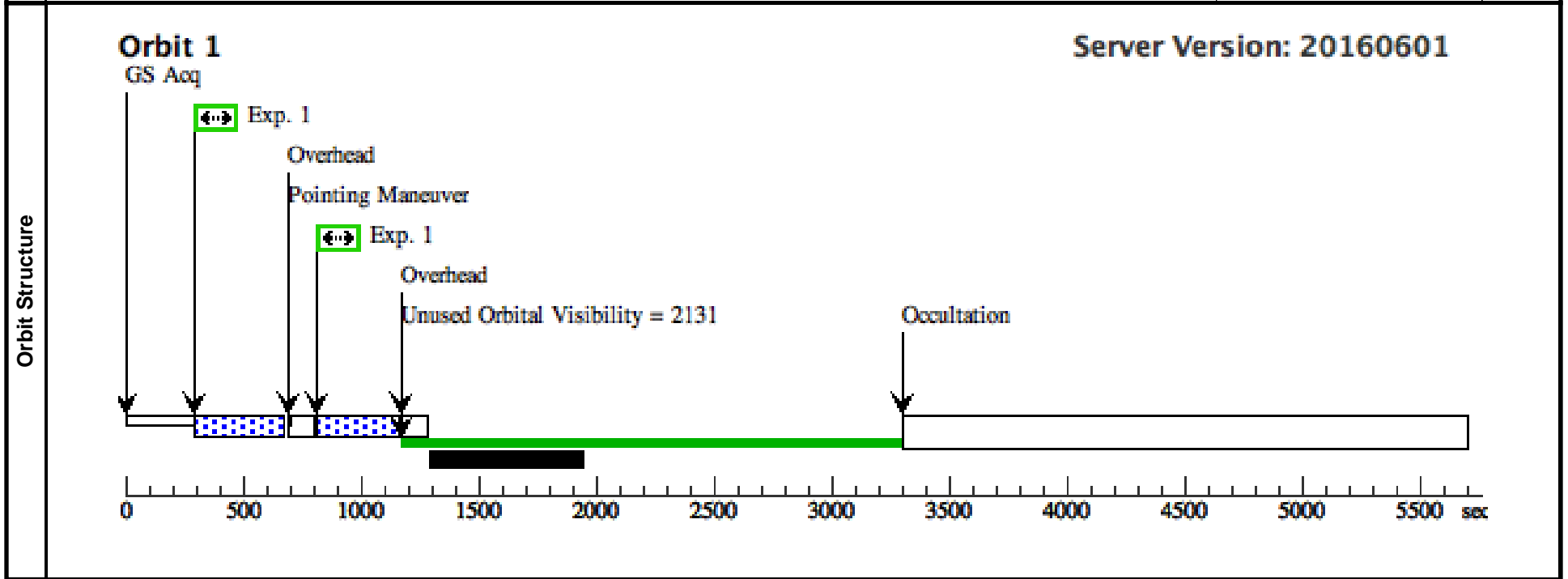
Wed Sep 07 22:16:14 GMT 2016

Visit	Proposal 14707, Visit 19, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(19)	M31-OB126	RA: 00 39 14.8000 (9.8116667d) Dec: +40 41 28.00 (40.69111d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
	<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.821111)	(19) M31-OB126	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 19 (1)	350 Secs (700 Secs)	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	



Proposal 14707 - Visit 20 - Searching for the Most Massive Stars in M31 and M33

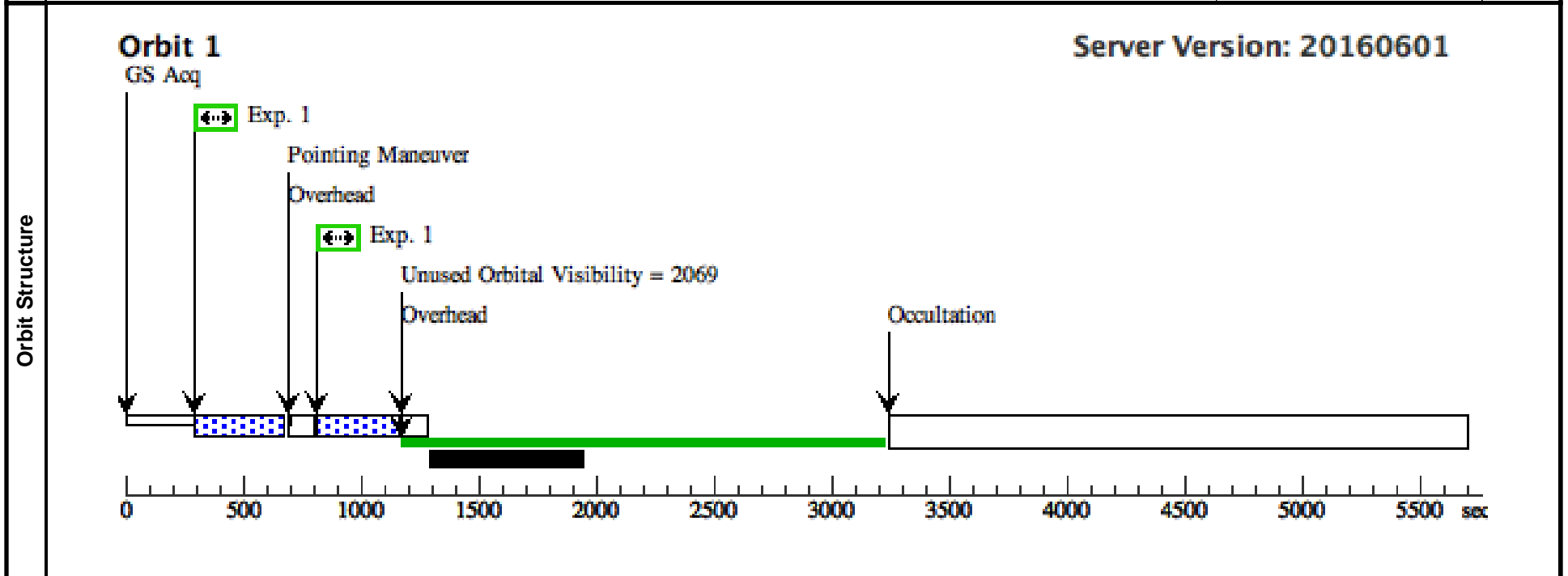
Wed Sep 07 22:16:14 GMT 2016

Visit	Proposal 14707, Visit 20, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(20)	M33-OB137	RA: 01 33 15.7000 (23.3154167d) Dec: +30 53 27.00 (30.89083d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>						

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.820479)	(20) M33-OB137	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 20 (1)	350 Secs (700 Secs)	
									[=>(Pattern 1)]	
									[=>(Pattern 2)]	[1]



Proposal 14707 - Visit 21 - Searching for the Most Massive Stars in M31 and M33

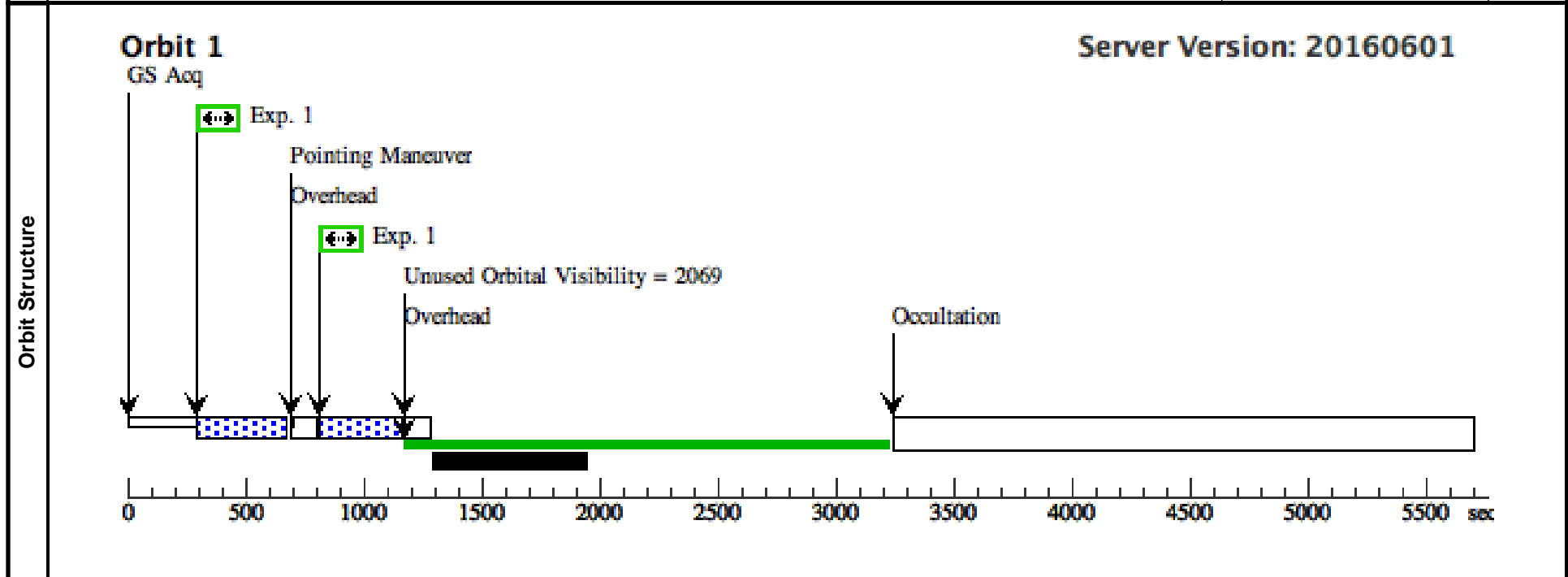
Wed Sep 07 22:16:14 GMT 2016

Visit	Proposal 14707, Visit 21, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(21)	M33-OB121	RA: 01 32 40.1000 (23.1670833d) Dec: +30 24 56.00 (30.41556d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>						

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVI S.im.820479)	(21) M33-OB121	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 21 (1)	350 Secs (700 Secs)	
									[=>(Pattern 1)]	
									[=>(Pattern 2)]	[1]



Proposal 14707 - Visit 22 - Searching for the Most Massive Stars in M31 and M33

Wed Sep 07 22:16:14 GMT 2016

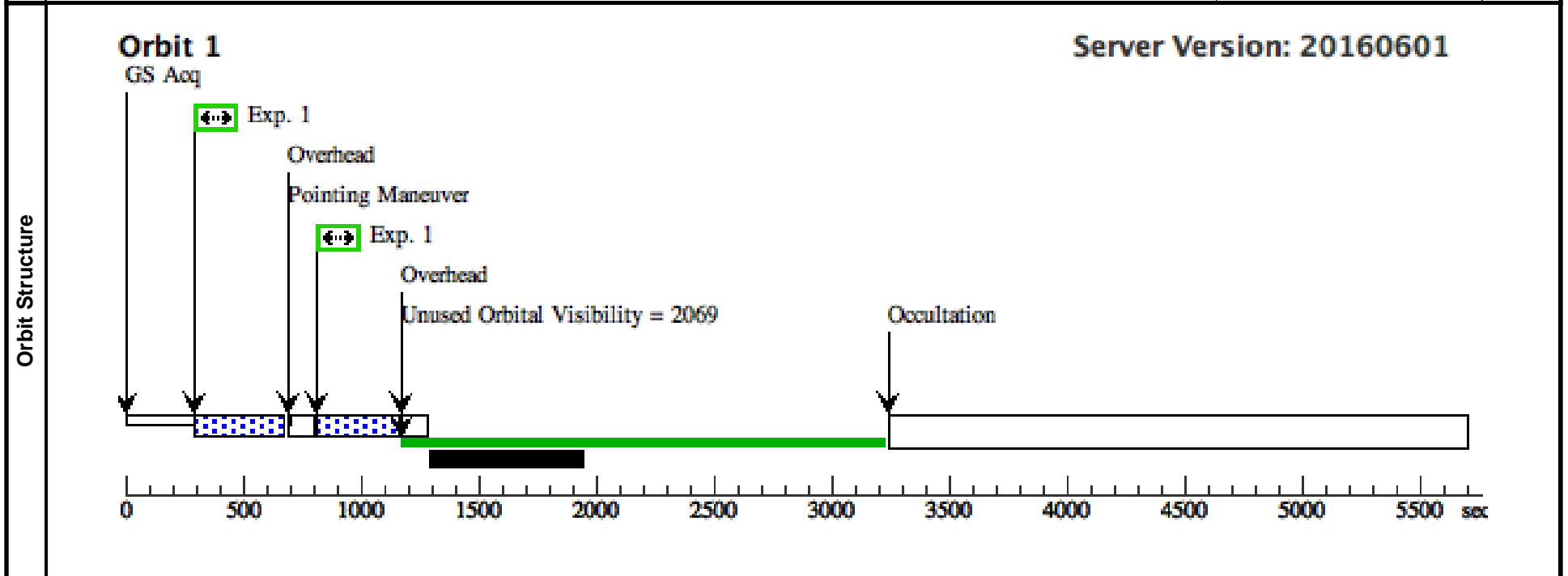
Visit	Proposal 14707, Visit 22, implementation Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(22)	M33-OB21	RA: 01 32 55.0000 (23.2291667d) Dec: +30 35 20.00 (30.58889d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS

Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVI S.im.820479)	(22) M33-OB21	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 22 (1)	350 Secs (700 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 14707 - Visit 23 - Searching for the Most Massive Stars in M31 and M33

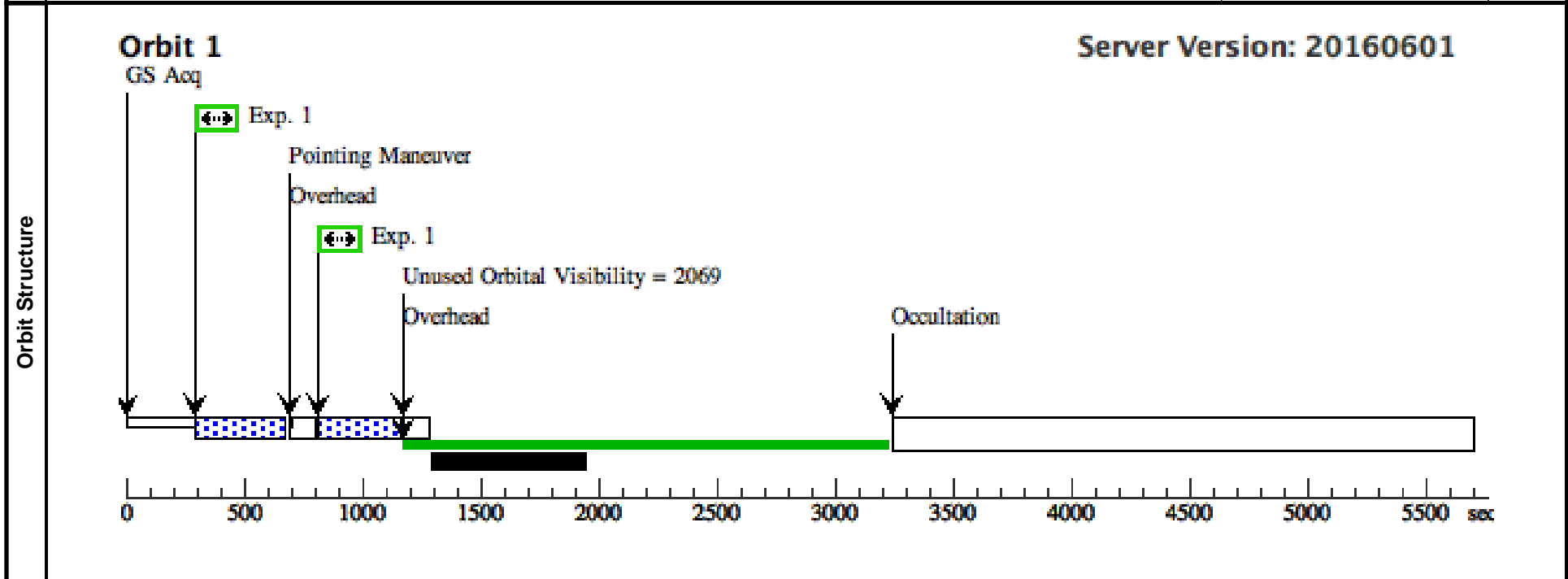
Wed Sep 07 22:16:14 GMT 2016

Visit	Proposal 14707, Visit 23, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(23)	M33-OB29	RA: 01 33 14.4000 (23.3100000d) Dec: +30 45 40.00 (30.76111d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
	<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>					

Exposures	#	Label (ETC Run)	Target	Config, Mode, Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.820479)	(23) M33-OB29	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 23 (1)	350 Secs (700 Secs)	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	



Proposal 14707 - Visit 24 - Searching for the Most Massive Stars in M31 and M33

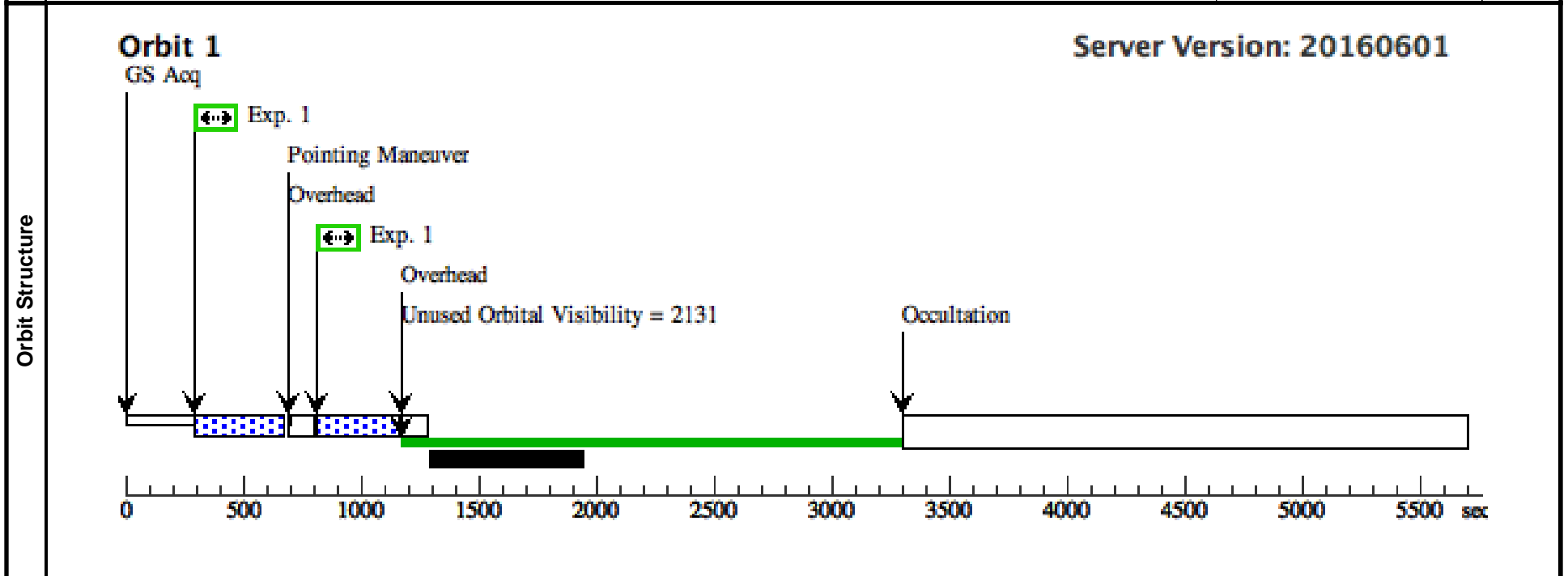
Wed Sep 07 22:16:14 GMT 2016

Visit	Proposal 14707, Visit 24, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(24)	M31-OB139S	RA: 00 39 34.6000 (9.8941667d) Dec: +40 19 50.00 (40.33056d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>						

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.821111)	(24) M31-OB139S	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 24 (1)	350 Secs (700 Secs)	
									[=>(Pattern 1)]	
									[=>(Pattern 2)]	[1]



Proposal 14707 - Visit 25 - Searching for the Most Massive Stars in M31 and M33

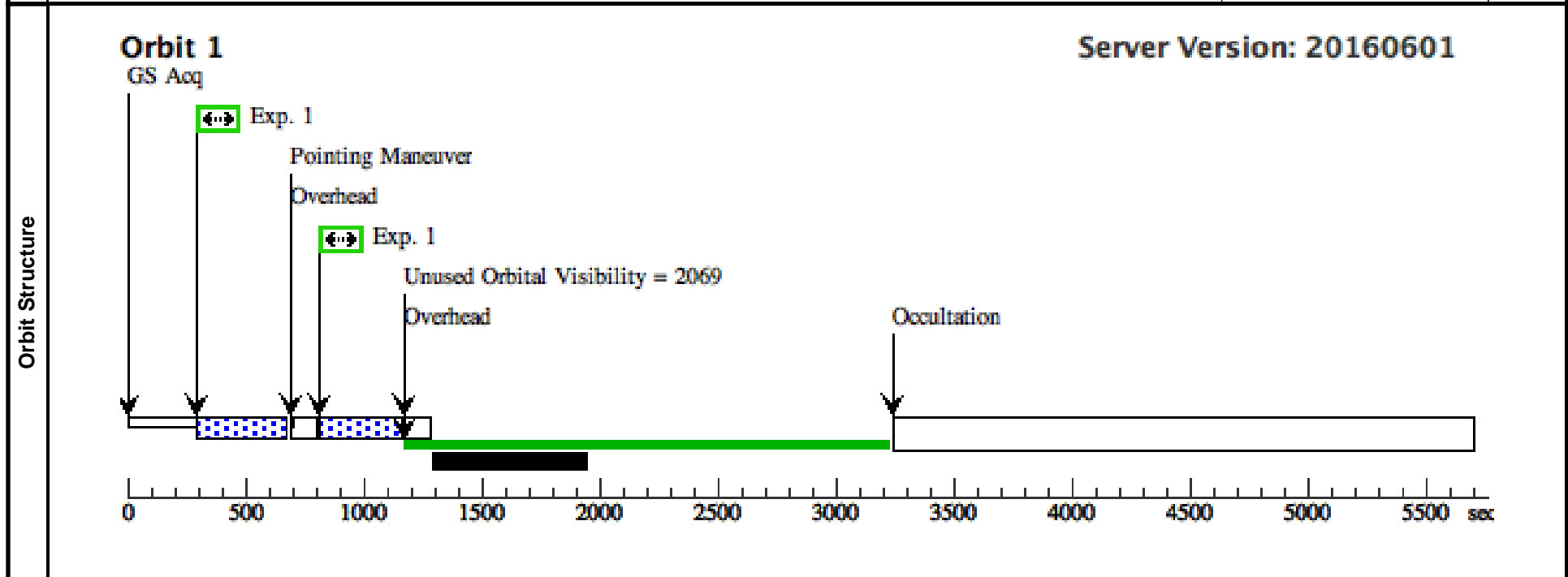
Wed Sep 07 22:16:14 GMT 2016

Visit	Proposal 14707, Visit 25, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Purpose=MOSAIC Number Of Points=2 Point Spacing=2.414 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.759 Angle Between Sides= Center Pattern=true	(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(25)	M33-OBANON	RA: 01 34 12.8000 (23.5533333d) Dec: +31 09 13.00 (31.15361d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
	<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVI S.im.820479)	(25) M33-OBANON	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 25 (1)	350 Secs (700 Secs)	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	



Proposal 14707 - Visit 26 - Searching for the Most Massive Stars in M31 and M33

Wed Sep 07 22:16:14 GMT 2016

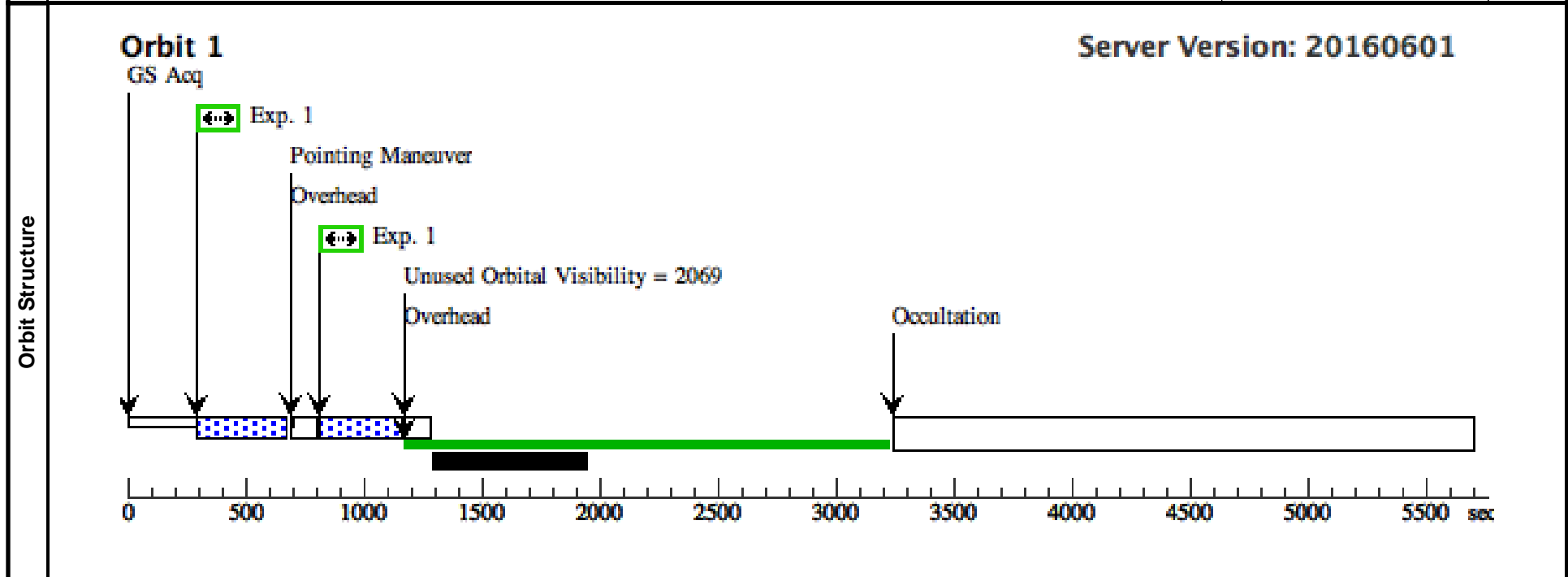
Visit	Proposal 14707, Visit 26, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Purpose=MOSAIC Number Of Points=2 Point Spacing=2.414 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=85.759 Angle Between Sides= Center Pattern=true	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(26)	M33-OB59	RA: 01 33 11.6000 (23.2983333d) Dec: +30 38 53.00 (30.64806d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS

Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.820479)	(26) M33-OB59	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 26 (1)	350 Secs (700 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 14707 - Visit 27 - Searching for the Most Massive Stars in M31 and M33

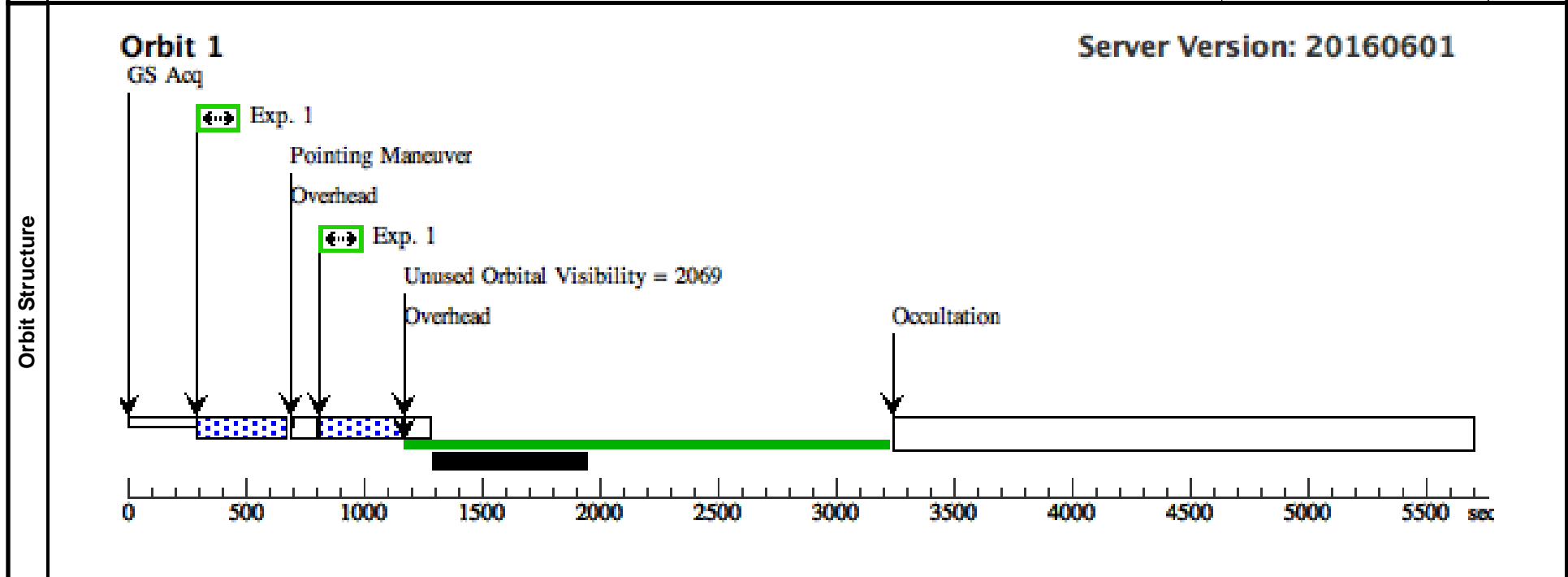
Wed Sep 07 22:16:15 GMT 2016

Visit	Proposal 14707, Visit 27, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(27)	M33-OB112	RA: 01 33 39.8000 (23.4158333d) Dec: +30 20 55.00 (30.34861d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>						

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVI S.im.820479)	(27) M33-OB112	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 27 (1)	350 Secs (700 Secs)	
									[=>(Pattern 1)]	
									[=>(Pattern 2)]	[1]



Proposal 14707 - Visit 28 - Searching for the Most Massive Stars in M31 and M33

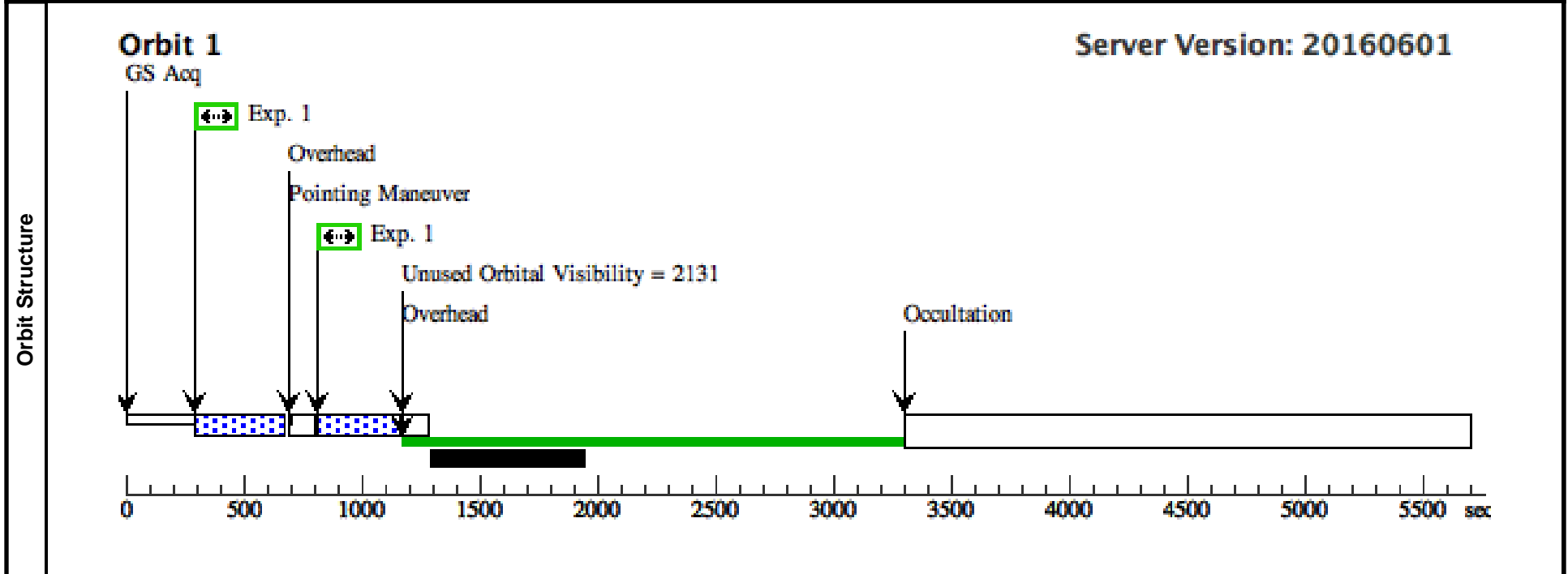
Wed Sep 07 22:16:15 GMT 2016

Visit	Proposal 14707, Visit 28, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(28)	M31-OB122N	RA: 00 39 47.6000 (9.9483333d) Dec: +40 52 58.00 (40.88278d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>						

Exposures	#	Label (ETC Run)	Target	Config, Mode, Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVI S.im.821111)	(28) M31-OB122N	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 28 (1)	350 Secs (700 Secs)	
									[=>(Pattern 1)]	
									[=>(Pattern 2)]	[1]
<i>Comments: Exposure 150 sec to avoid saturating UV brightest stars</i>										



Proposal 14707 - Visit 29 - Searching for the Most Massive Stars in M31 and M33

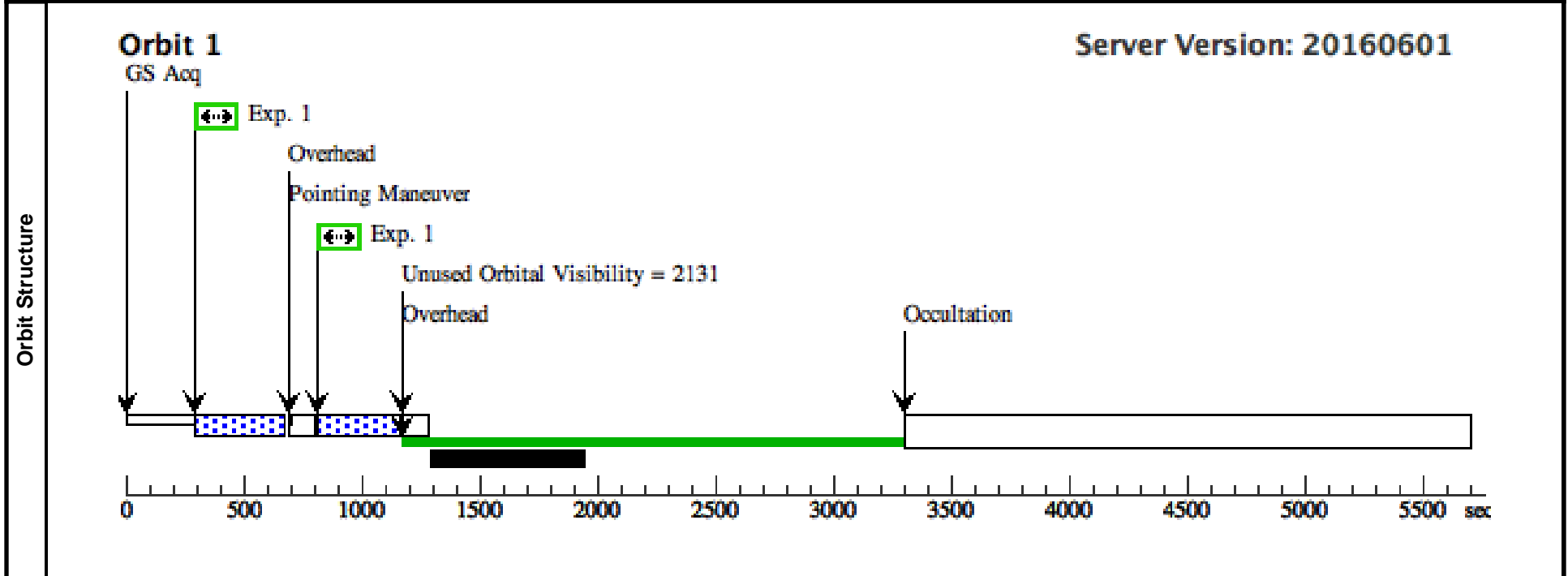
Wed Sep 07 22:16:15 GMT 2016

Visit	Proposal 14707, Visit 29, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(29)	M31-OB122S	RA: 00 39 41.6000 (9.9233333d) Dec: +40 51 31.00 (40.85861d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>						

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVI S.im.820479)	(29) M31-OB122S	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 29 (1)	350 Secs (700 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
<i>Comments: Exposure time 150 sec to avoid saturating UV brightest stars</i>										



Proposal 14707 - Visit 30 - Searching for the Most Massive Stars in M31 and M33

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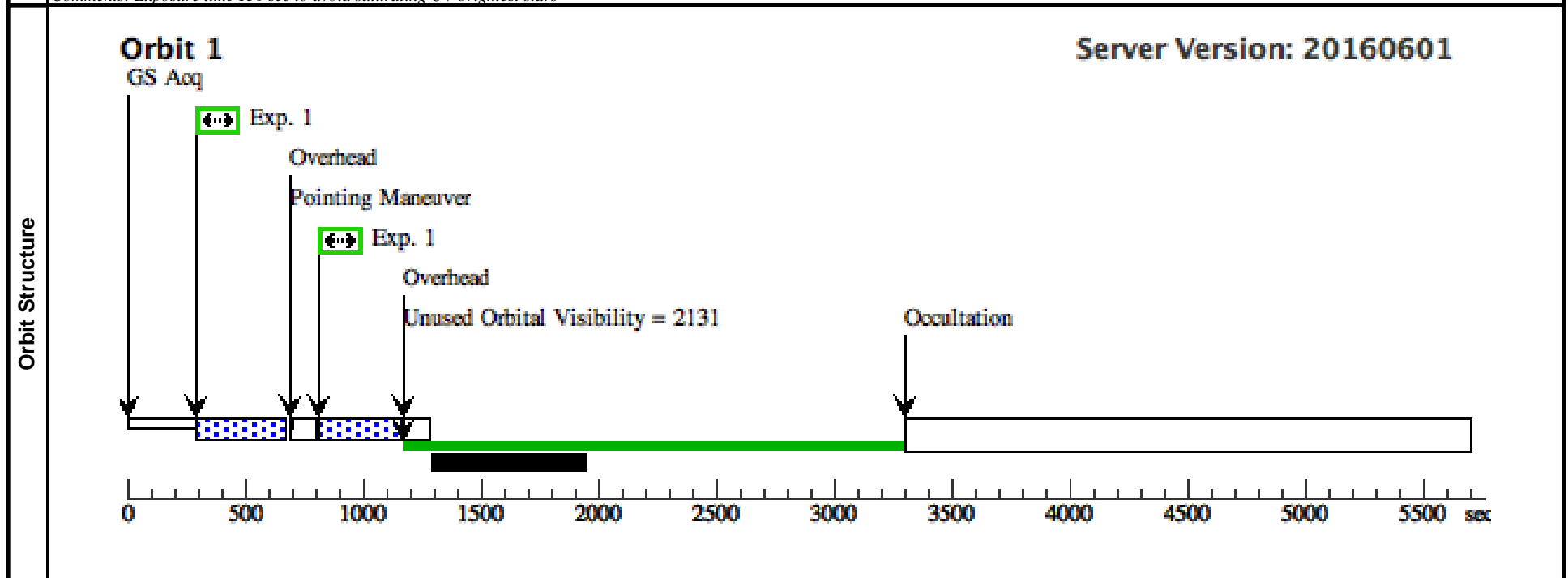
Visit	Proposal 14707, Visit 30, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(30)	M31-OB125	RA: 00 39 26.6000 (9.8608333d) Dec: +40 44 11.00 (40.73639d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
	<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVI S.im.821111)	(30) M31-OB125	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 30 (1)	350 Secs (700 Secs)	
									[=>(Pattern 1)] [=>(Pattern 2)]	[1]

Comments: Exposure time 150 sec to avoid saturating UV brightest stars



Proposal 14707 - Visit 31 - Searching for the Most Massive Stars in M31 and M33

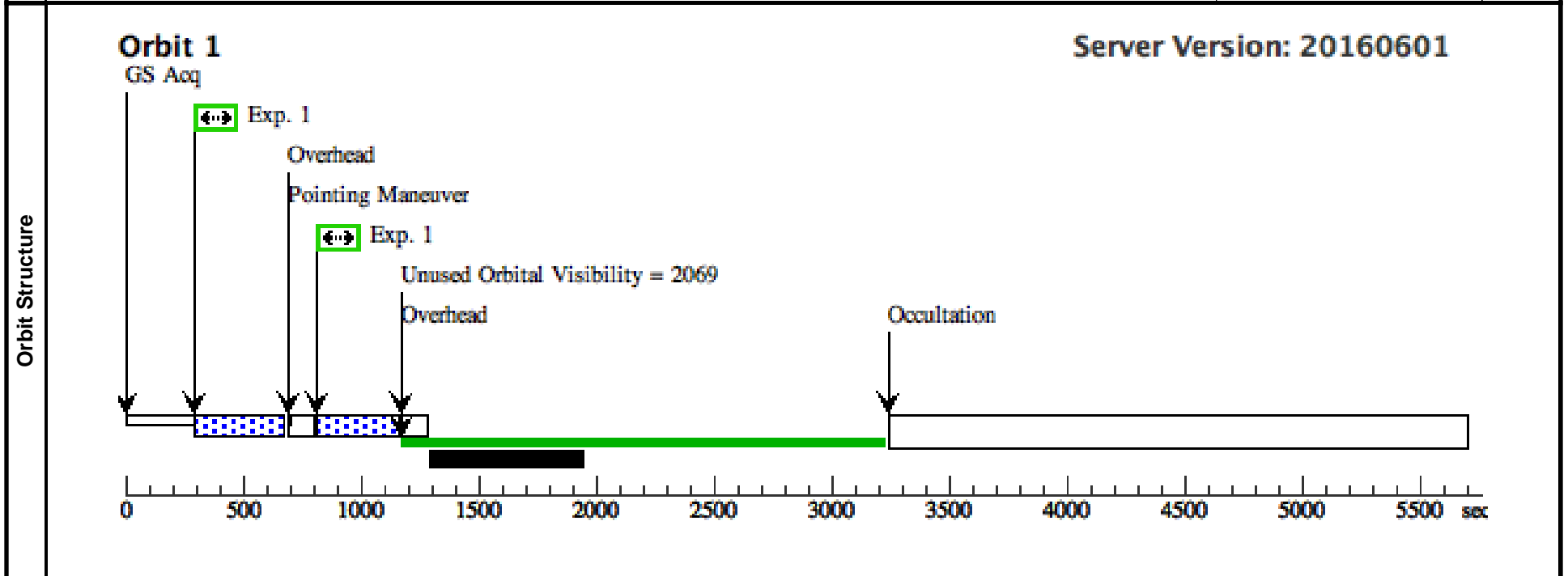
Wed Sep 07 22:16:15 GMT 2016

Visit	Proposal 14707, Visit 31, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(31)	M33-OB89	RA: 01 35 3.0000 (23.7625000d) Dec: +30 41 13.00 (30.68694d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
	<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.820479)	(31) M33-OB89	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 31 (1)	350 Secs (700 Secs)	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	



Proposal 14707 - Visit 32 - Searching for the Most Massive Stars in M31 and M33

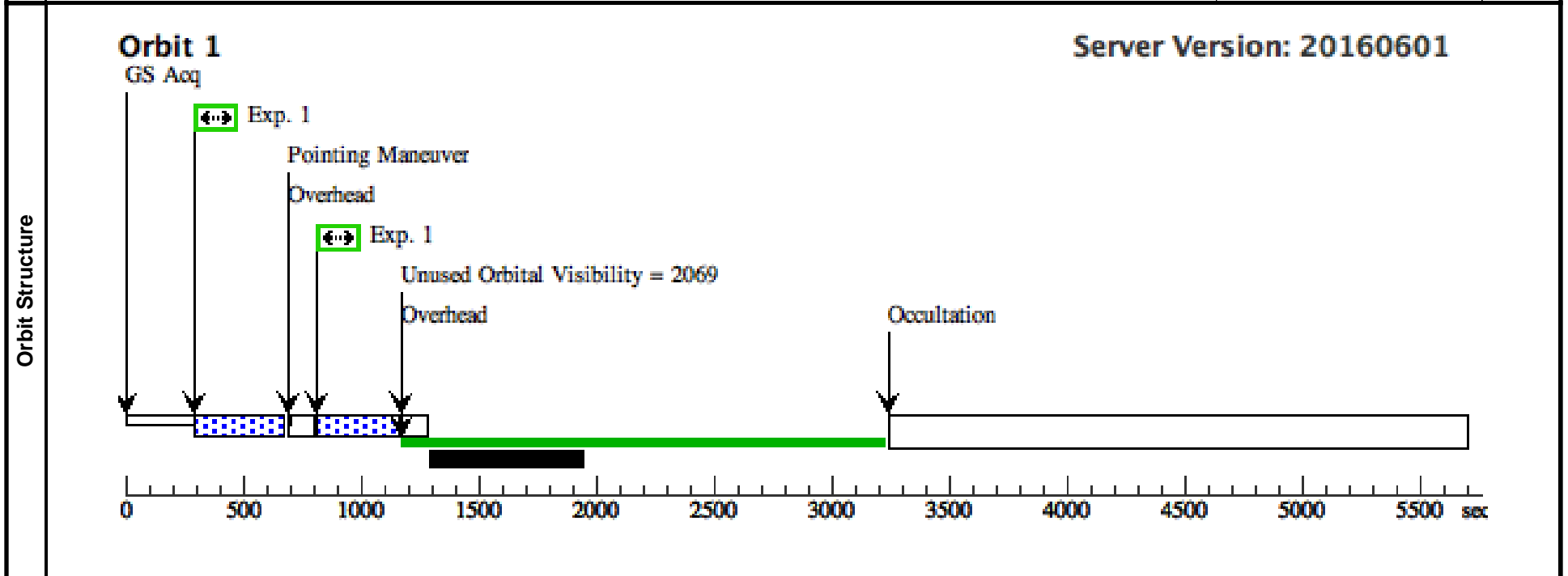
Wed Sep 07 22:16:15 GMT 2016

Visit	Proposal 14707, Visit 32, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(32)	M33-OB123	RA: 01 32 33.4000 (23.1391667d) Dec: +30 27 25.00 (30.45694d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>						

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.820479)	(32) M33-OB123	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 32 (1)	350 Secs (700 Secs)	
									[=>(Pattern 1)]	
									[=>(Pattern 2)]	[1]



Proposal 14707 - Visit 33 - Searching for the Most Massive Stars in M31 and M33

Wed Sep 07 22:16:15 GMT 2016

Visit	Proposal 14707, Visit 33, implementation		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-GAP-LINE Coordinate Frame=POS-TARG Purpose=MOSAIC Pattern Orientation=85.759 Number Of Points=2 Angle Between Sides= Point Spacing=2.414 Center Pattern=true Line Spacing=		(1)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(33)	M31-OB127	RA: 00 39 9.7000 (9.7904167d) Dec: +40 36 48.00 (40.61333d) Equinox: J2000		V=20+/-2	Reference Frame: ICRS
	<i>Comments: Multiple stars ranging from V=18 and fainter; typical target of interest is lightly reddened [E(B-V)=0.2] O star at V=20.</i>					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.821111)	(33) M31-OB127	WFC3/UVIS, ACCUM, UVIS-CENTER	F275W	FLASH=12		Pattern 1, Exps 1-1 in Visit 33 (1)	350 Secs (700 Secs)	
									[=>(Pattern 1)]	[1]
									[=>(Pattern 2)]	
	<i>Comments: Exposure time 150 sec to avoid saturating UV brightest stars</i>									

