



## 10629 - Are Field OB Stars Alone?

Cycle: 14, Proposal Category: SNAP

(Availability Mode: SUPPORTED)

### INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
<b>Dr. Sally Oey (PI)</b>	<b>University of Michigan</b>	

### VISITS

<i>Visit</i>	<i>Targets</i>	<i>Configurations</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) AZV-43	ACS/WFC	1	24-Jun-2005 21:00:59.0	yes
02	(2) AZV-58	ACS/WFC	1	24-Jun-2005 21:01:05.0	yes
03	(3) SMC-3	ACS/WFC	1	24-Jun-2005 21:01:08.0	yes
04	(4) AZV-67	ACS/WFC	1	24-Jun-2005 21:01:12.0	yes
05	(5) AZV-106	ACS/WFC	1	24-Jun-2005 21:01:15.0	yes
06	(6) AZV-312	ACS/WFC	1	24-Jun-2005 21:01:18.0	yes
07	(7) AZV-169	ACS/WFC	1	24-Jun-2005 21:01:22.0	yes
08	(8) AZV-177	ACS/WFC	1	24-Jun-2005 21:01:25.0	yes
09	(9) AZV-186	ACS/WFC	1	24-Jun-2005 21:01:28.0	yes
10	(10) SMC-16	ACS/WFC	1	24-Jun-2005 21:01:31.0	yes
11	(11) WR9	ACS/WFC	1	24-Jun-2005 21:01:35.0	yes
12	(12) AZV-207	ACS/WFC	1	24-Jun-2005 21:01:38.0	yes

## Proposal 10629 - Overview

<i>Visit</i>	<i>Targets</i>	<i>Configurations</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
13	(13) AZV-223	ACS/WFC	1	24-Jun-2005 21:01:41.0	yes
14	(14) AZV-226	ACS/WFC	1	24-Jun-2005 21:01:44.0	yes
15	(15) AZV-267	ACS/WFC	1	24-Jun-2005 21:01:48.0	yes
16	(16) AZV-279	ACS/WFC	1	24-Jun-2005 21:01:51.0	yes
17	(17) AZV-302	ACS/WFC	1	24-Jun-2005 21:01:54.0	yes

17 Total Orbits Used

### **ABSTRACT**

This SNAP program offers an inexpensive, simple program to search for low-mass companions of field OB stars. Do field OB stars exist in true isolation, as suggested by a recent Galactic study, or are they the tip of the iceberg on a small cluster of low-mass stars as predicted by the cluster mass function and stellar IMF? Short ACS/WFC V and I observations proposed here may easily resolve this issue for field OB stars in the Small Magellanic Cloud. Truly isolated OB stars represent a theoretical challenge and variation from clusters, in mode of star formation, and have important consequences for our understanding of the field stellar population in galaxies. Small clusters around the field OB stars, on the other hand, may confirm the universality of the stellar clustering law and IMF.

### **OBSERVING DESCRIPTION**

ACS/WFC exposure times of 9 sec in V and 18 sec in I allow a S/N  $\sim 10$  for an F0 V star (by ACS/WFC ETC), and S/N  $\sim 3$  for a G2V star in I, assuming a DM = 19.0, thereby probing masses as low as  $\sim 1.1 M_{\text{sun}}$ . (Phase I originally proposed for longer observations, probing to  $0.1 M_{\text{sun}}$ . This turns out not to be possible within the same SNAP timeframe because of saturation of the primary OB star, but our new depth of  $1.1 M_{\text{sun}}$  does not significantly alter the science goals.) The simplicity of these short observations offers an ideal program for SNAP observing. Since the de Wit et al. (2004) study showed only 12% of their O stars to have clustered companions, most of our

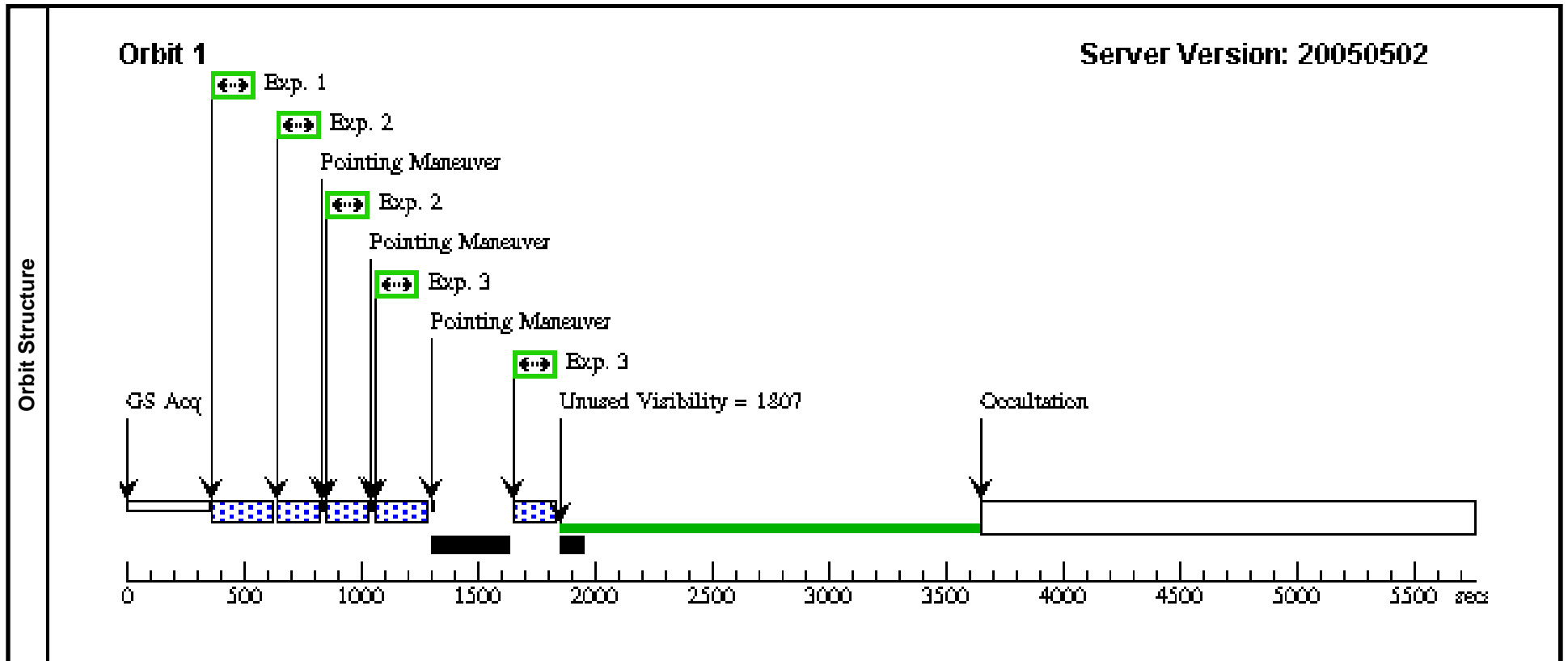
## Proposal 10629 - Overview

SMC sample should also be expected to be loner stars. In the event that companions are found, the V-I color-magnitude diagram will strongly constrain their spectral types and masses. We use the 2K subarray on WFC1 to reduce readout time, while maintaining large area coverage. Short exposures of 3 sec in V and 9 sec in I are necessary to avoid saturation of the dominant OB star. A second, deeper 6-sec exposure in will saturate the central star, but will probe the fainter population.

Proposal 10629 - Visit 01 - Are Field OB Stars Alone?

Sat Jun 25 01:01:56 GMT 2005

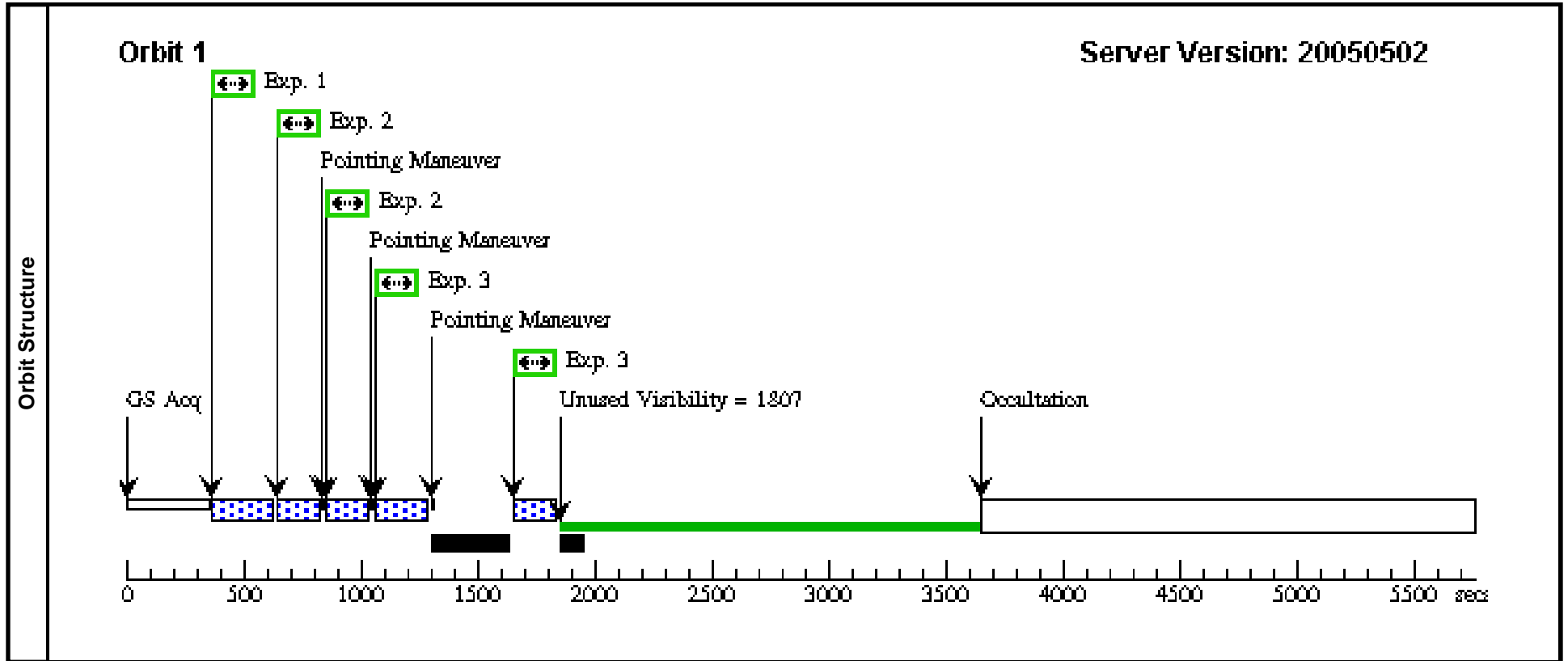
<b>Visit</b>	<b>Proposal 10629, Visit 01</b> <b>Priority: M</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: (none)										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=47.2 Angle Between Sides= Center Pattern=false						(2), (3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>		<b>Miscellaneous</b>		
	(1)	AZV-43	RA: 00 48 47.9700 (12.1998750d) Dec: -72 46 24.50 (-72.77347d) Equinox: J2000 Plate Id: (?)				V=14.08		Coordinate Source: SIMBAD		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>											
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>		<b>Orbit</b>
	1	V-9s-a	(1) AZV-43	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2			3.0 Secs		
									[=>3.0 Secs ]		[1]
	2	V-9s-b	(1) AZV-43	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2		Pattern 2-2 (1)	3.0 Secs		
									[=>3.0 Secs (Pattern 1)]		[1]
								[=>3.0 Secs (Pattern 2)]			
3	I-18s	(1) AZV-43	ACS/WFC, ACCUM, WFC1-2K	F814W	CR-SPLIT=NO; GAIN=2		Pattern 3-3 (1)	9.0 Secs			
								[=>9.0 Secs (Pattern 1)]		[1]	
								[=>9.0 Secs (Pattern 2)]			



Proposal 10629 - Visit 02 - Are Field OB Stars Alone?

Sat Jun 25 01:01:57 GMT 2005

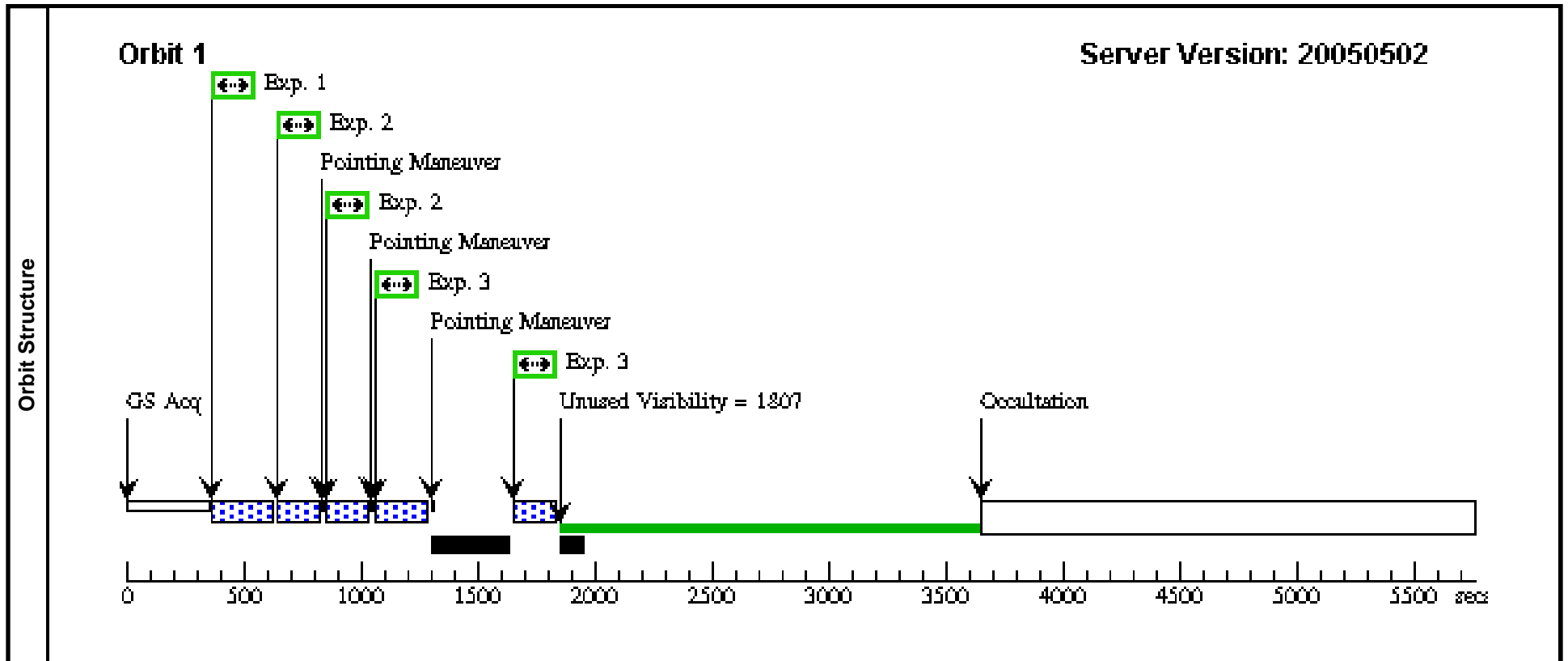
<b>Visit</b>	<b>Proposal 10629, Visit 02</b> <b>Priority: H</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: (none)										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=ACS-WFC-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=				Coordinate Frame=POS-TARG Pattern Orientation=47.2 Angle Between Sides= Center Pattern=false				(2), (3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(2)	AZV-58	RA: 00 49 57.8400 (12.4910000d) Dec: -72 51 54.40 (-72.86511d) Equinox: J2000 Plate Id: (?)				V=14.38	Coordinate Source: SIMBAD			
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>											
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>		<b>Orbit</b>
	1	V-9s-a	(2) AZV-58	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2			3.0 Secs		
									[==>3.0 Secs ]		[1]
	2	V-9s-b	(2) AZV-58	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2		Pattern 2-2 (1)	3.0 Secs		
								[==>3.0 Secs (Pattern 1)]		[1]	
								[==>3.0 Secs (Pattern 2)]			
3	I-18s	(2) AZV-58	ACS/WFC, ACCUM, WFC1-2K	F814W	CR-SPLIT=NO; GAIN=2		Pattern 3-3 (1)	9.0 Secs			
								[==>9.0 Secs (Pattern 1)]		[1]	
								[==>9.0 Secs (Pattern 2)]			



Proposal 10629 - Visit 03 - Are Field OB Stars Alone?

Sat Jun 25 01:01:57 GMT 2005

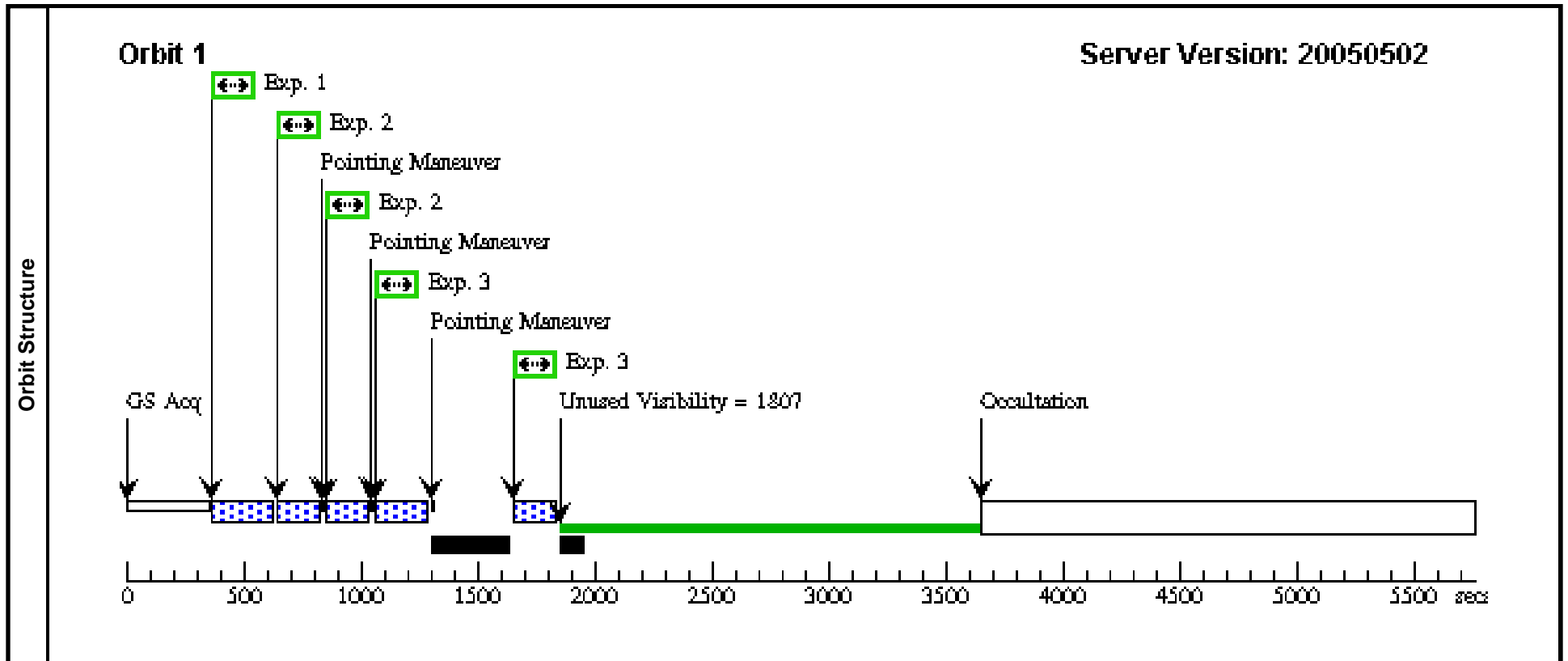
Visit	Proposal 10629, Visit 03 Priority: M Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none)									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.2 Angle Between Sides= Center Pattern=false					(2), (3)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	SMC-3	RA: 00 57 47.4700 (14.4477917d) Dec: -72 16 40.44 (-72.27790d) Equinox: J2000 Plate Id: (?)		V=15.3	Coordinate Source: MASSEY ET AL. 1995				
<i>Comments: Coordinates and stellar parameters from Massey et al. 1995, ApJ 438, 188</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	V-9s-a	(3) SMC-3	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2			3.0 Secs [==>3.0 Secs ]	[1]
	2	V-9s-b	(3) SMC-3	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2		Pattern 2-2 (1)	3.0 Secs [==>3.0 Secs (Pattern 1)] [==>3.0 Secs (Pattern 2)]	[1]
	3	I-18s	(3) SMC-3	ACS/WFC, ACCUM, WFC1-2K	F814W	CR-SPLIT=NO; GAIN=2		Pattern 3-3 (1)	9.0 Secs [==>9.0 Secs (Pattern 1)] [==>9.0 Secs (Pattern 2)]	[1]



Proposal 10629 - Visit 04 - Are Field OB Stars Alone?

Sat Jun 25 01:01:57 GMT 2005

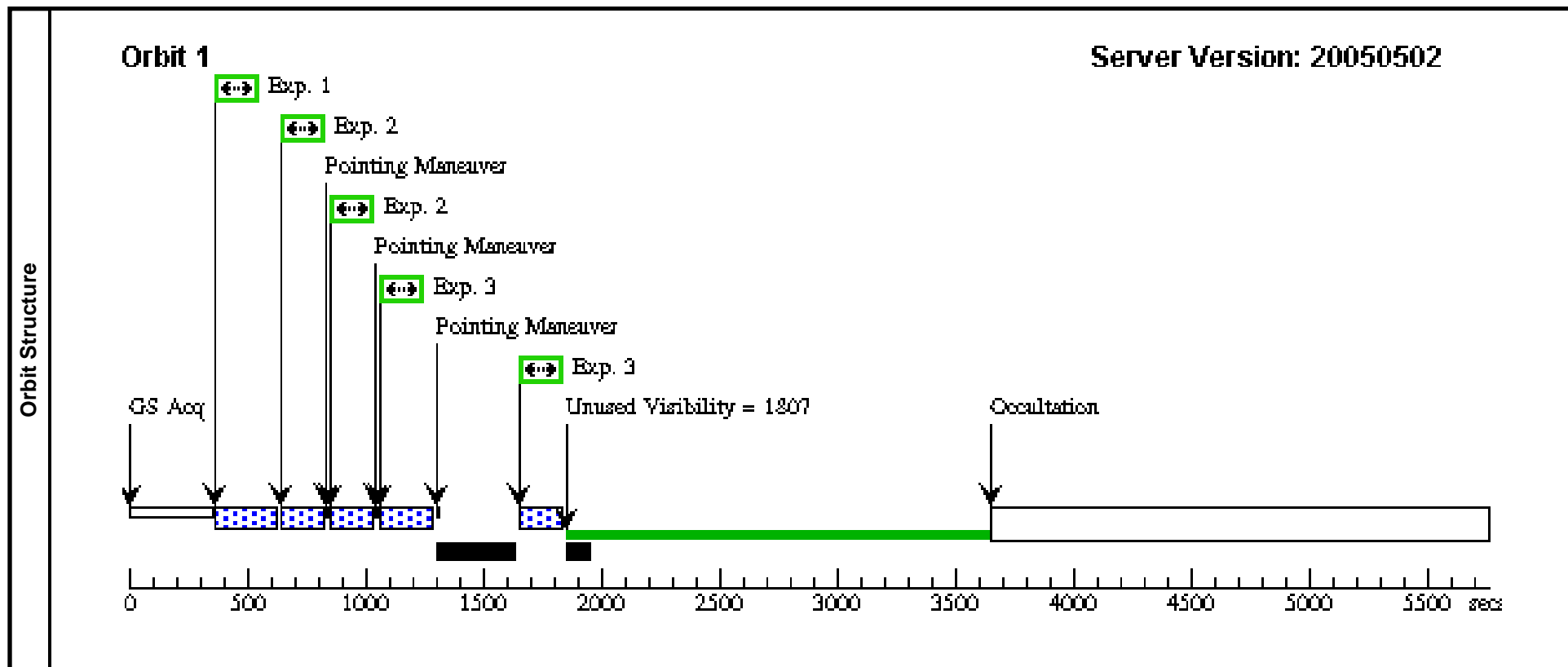
<b>Visit</b>	<b>Proposal 10629, Visit 04</b> <b>Priority: H</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: (none)										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=47.2 Angle Between Sides= Center Pattern=false						(2), (3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>		<b>Miscellaneous</b>		
	(4)	AZV-67	RA: 00 50 11.1300 (12.5463750d) Dec: -72 32 34.80 (-72.54300d) Equinox: J2000 Plate Id: (?)				V=13.66		Coordinate Source: SIMBAD		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>											
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>		<b>Orbit</b>
	1	V-9s-a	(4) AZV-67	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2			3.0 Secs		
									[=>3.0 Secs ]		[1]
	2	V-9s-b	(4) AZV-67	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2		Pattern 2-2 (1)	3.0 Secs		
									[=>3.0 Secs (Pattern 1)]		[1]
								[=>3.0 Secs (Pattern 2)]			
3	I-18s	(4) AZV-67	ACS/WFC, ACCUM, WFC1-2K	F814W	CR-SPLIT=NO; GAIN=2		Pattern 3-3 (1)	9.0 Secs			
								[=>9.0 Secs (Pattern 1)]		[1]	
								[=>9.0 Secs (Pattern 2)]			



Proposal 10629 - Visit 05 - Are Field OB Stars Alone?

Sat Jun 25 01:01:58 GMT 2005

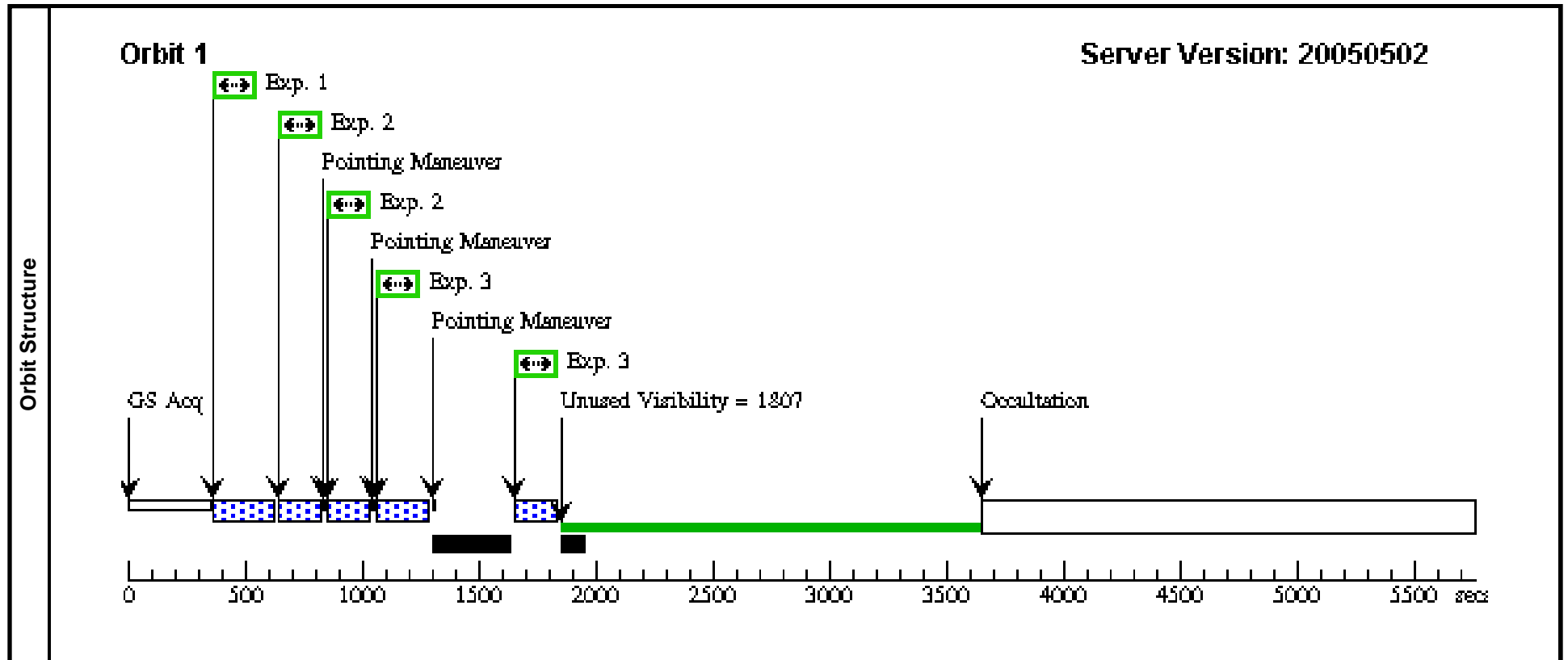
<b>Visit</b>	<b>Proposal 10629, Visit 05</b> <b>Priority: H</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: (none)									
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>			<b>Secondary Pattern</b>			<b>Exposures</b>	
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.2 Angle Between Sides= Center Pattern=false					(2), (3)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(5)	AZV-106	RA: 00 51 43.3600 (12.9306667d) Dec: -72 37 24.90 (-72.62358d) Equinox: J2000 Plate Id: (?)		V=14.32	Coordinate Source: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1	V-9s-a	(5) AZV-106	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2			3.0 Secs [==>3.0 Secs ]	[1]
	2	V-9s-b	(5) AZV-106	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2		Pattern 2-2 (1)	3.0 Secs [==>3.0 Secs (Pattern 1)] [==>3.0 Secs (Pattern 2)]	[1]
	3	I-18s	(5) AZV-106	ACS/WFC, ACCUM, WFC1-2K	F814W	CR-SPLIT=NO; GAIN=2		Pattern 3-3 (1)	9.0 Secs [==>9.0 Secs (Pattern 1)] [==>9.0 Secs (Pattern 2)]	[1]



Proposal 10629 - Visit 06 - Are Field OB Stars Alone?

Sat Jun 25 01:01:58 GMT 2005

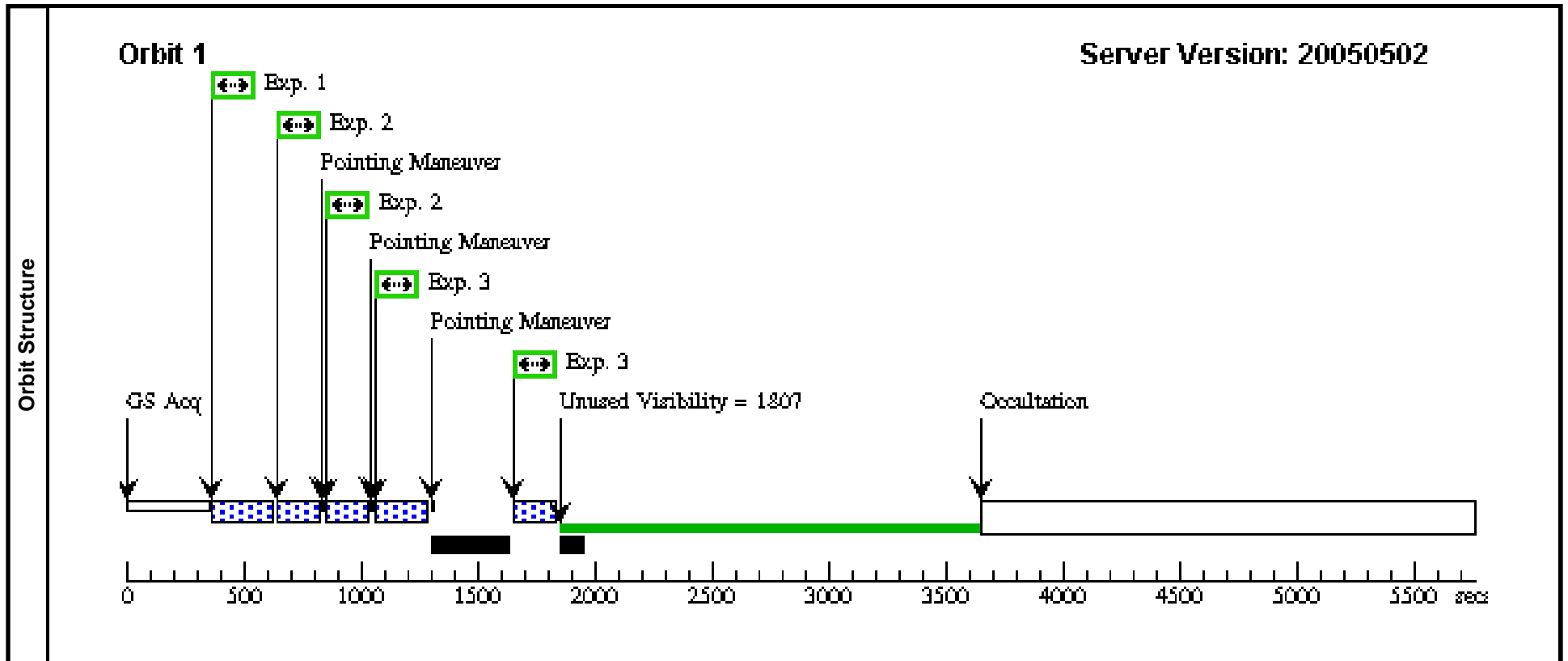
<b>Visit</b>	<b>Proposal 10629, Visit 06</b> <b>Priority: L</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: (none)									
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>			<b>Secondary Pattern</b>			<b>Exposures</b>	
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.2 Angle Between Sides= Center Pattern=false					(2), (3)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(6)	AZV-312	RA: 01 02 45.5700 (15.6898750d) Dec: -72 12 5.90 (-72.20164d) Equinox: J2000 Plate Id: (?)		V=13.62	Coordinate Source: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1	V-9s-a	(6) AZV-312	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2			3.0 Secs [=>3.0 Secs ]	[1]
	2	V-9s-b	(6) AZV-312	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2		Pattern 2-2 (1)	3.0 Secs [=>3.0 Secs (Pattern 1)] [=>3.0 Secs (Pattern 2)]	[1]
	3	I-18s	(6) AZV-312	ACS/WFC, ACCUM, WFC1-2K	F814W	CR-SPLIT=NO; GAIN=2		Pattern 3-3 (1)	9.0 Secs [=>9.0 Secs (Pattern 1)] [=>9.0 Secs (Pattern 2)]	[1]



Proposal 10629 - Visit 07 - Are Field OB Stars Alone?

Sat Jun 25 01:01:59 GMT 2005

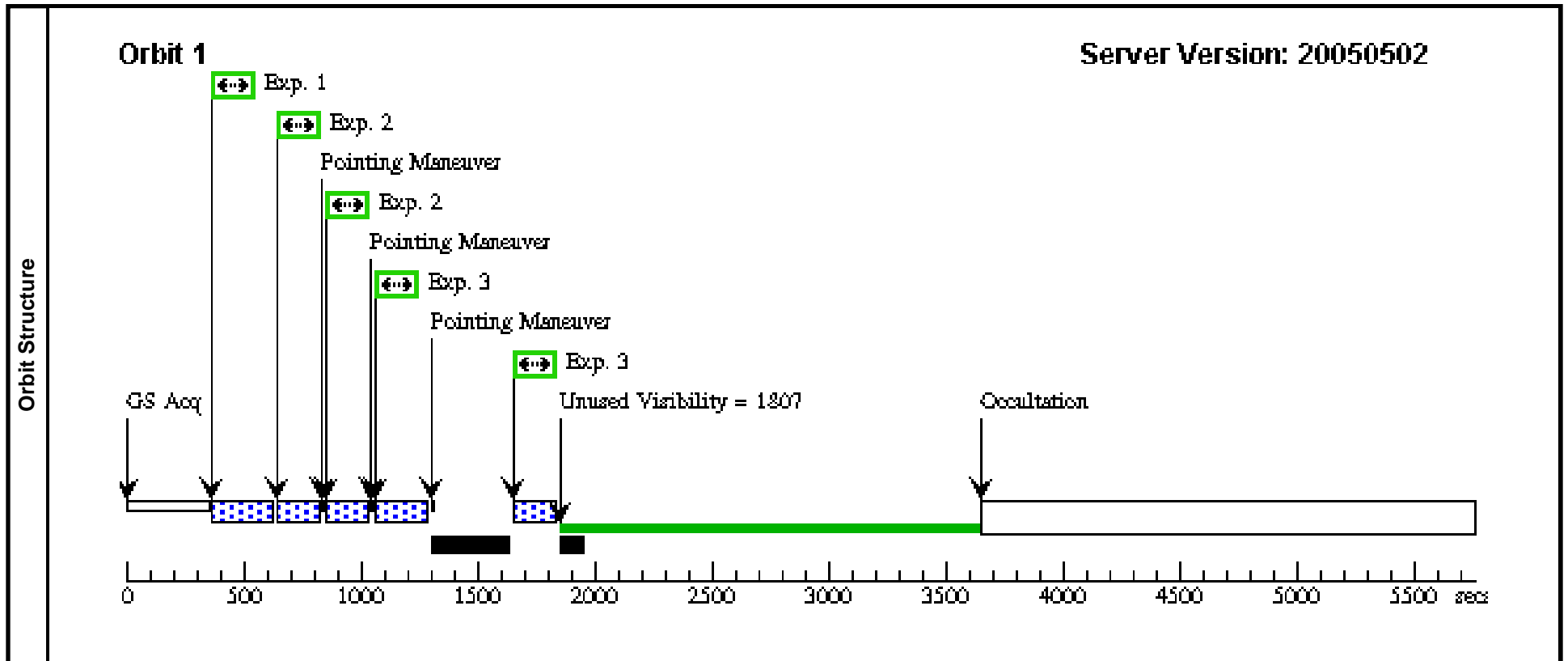
<b>Visit</b>	<b>Proposal 10629, Visit 07</b> <b>Priority: M</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: (none)									
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>			<b>Secondary Pattern</b>			<b>Exposures</b>	
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.2 Angle Between Sides= Center Pattern=false					(2), (3)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(7)	AZV-169	RA: 00 55 39.7900 (13.9157917d) Dec: -72 45 1.70 (-72.75047d) Equinox: J2000 Plate Id: (?)		V=13.9	Coordinate Source: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1	V-9s-a	(7) AZV-169	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2			3.0 Secs [=>3.0 Secs ]	[1]
	2	V-9s-b	(7) AZV-169	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2		Pattern 2-2 (1)	3.0 Secs [=>3.0 Secs (Pattern 1)] [=>3.0 Secs (Pattern 2)]	[1]
	3	I-18s	(7) AZV-169	ACS/WFC, ACCUM, WFC1-2K	F814W	CR-SPLIT=NO; GAIN=2		Pattern 3-3 (1)	9.0 Secs [=>9.0 Secs (Pattern 1)] [=>9.0 Secs (Pattern 2)]	[1]



Proposal 10629 - Visit 08 - Are Field OB Stars Alone?

Sat Jun 25 01:02:00 GMT 2005

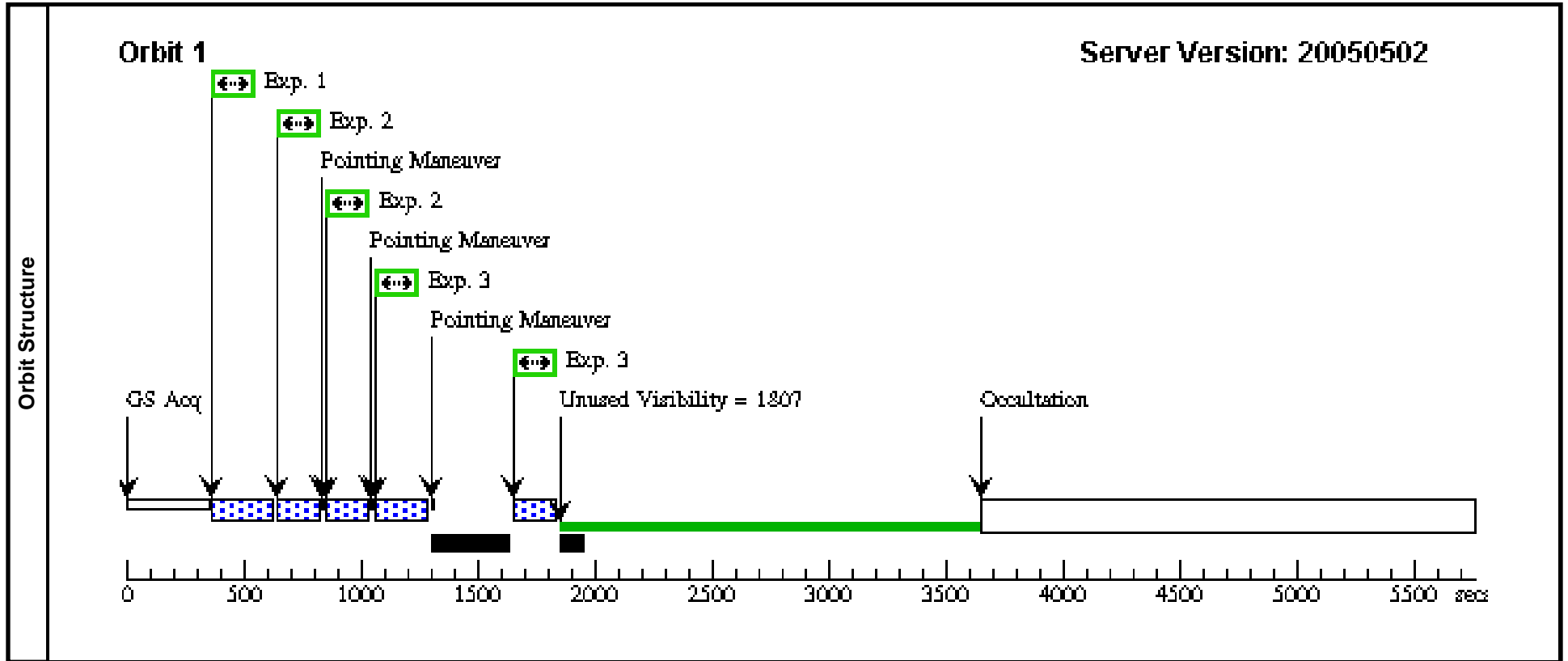
<b>Visit</b>	<b>Proposal 10629, Visit 08</b> <b>Priority: M</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: (none)										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=47.2 Angle Between Sides= Center Pattern=false						(2), (3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>		<b>Miscellaneous</b>		
	(8)	AZV-177	RA: 00 56 44.1700 (14.1840417d) Dec: -72 03 31.30 (-72.05869d) Equinox: J2000 Plate Id: (?)				V=14.6		Coordinate Source: SIMBAD		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>											
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>		<b>Orbit</b>
	1	V-9s-a	(8) AZV-177	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2			3.0 Secs		
									[==>3.0 Secs ]		[1]
	2	V-9s-b	(8) AZV-177	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2		Pattern 2-2 (1)	3.0 Secs		
									[==>3.0 Secs (Pattern 1)]		[1]
								[==>3.0 Secs (Pattern 2)]			
3	I-18s	(8) AZV-177	ACS/WFC, ACCUM, WFC1-2K	F814W	CR-SPLIT=NO; GAIN=2		Pattern 3-3 (1)	9.0 Secs			
								[==>9.0 Secs (Pattern 1)]		[1]	
								[==>9.0 Secs (Pattern 2)]			



Proposal 10629 - Visit 09 - Are Field OB Stars Alone?

Sat Jun 25 01:02:00 GMT 2005

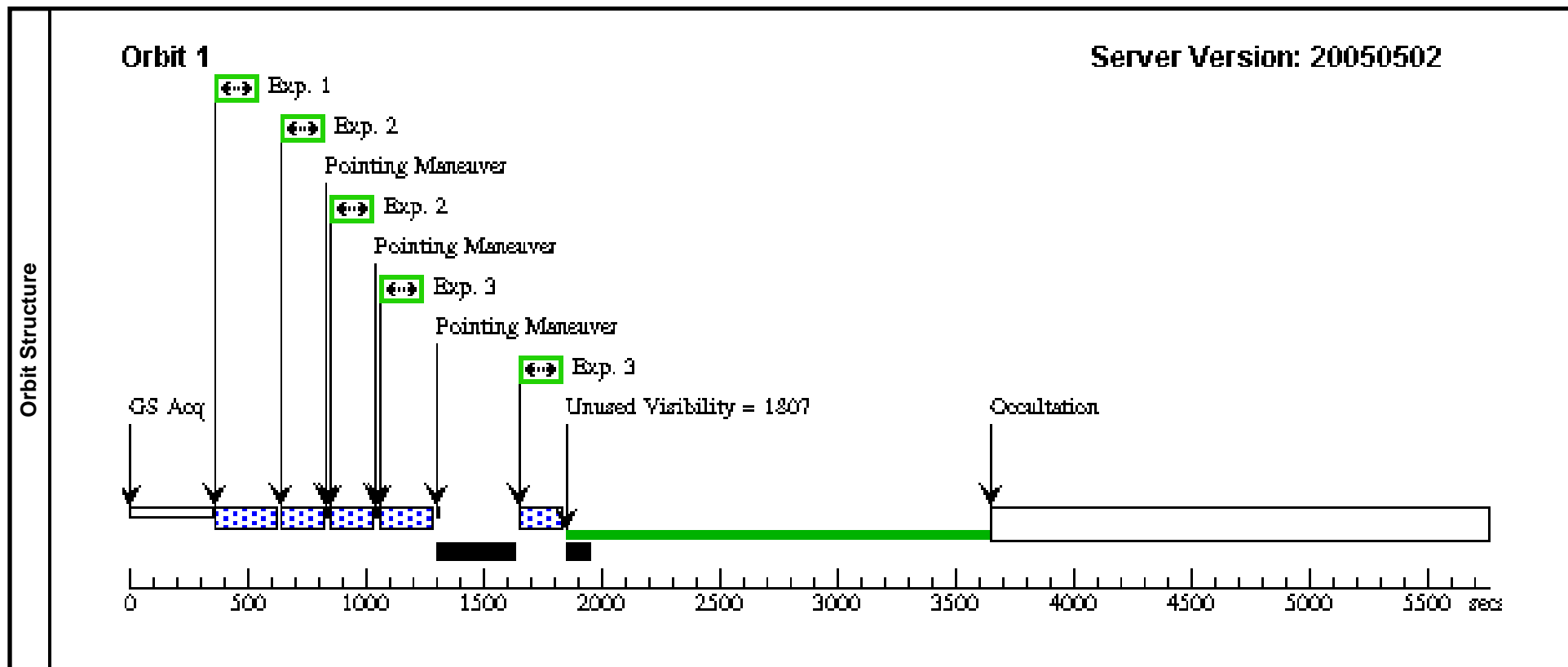
<b>Visit</b>	<b>Proposal 10629, Visit 09</b> <b>Priority: H</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: (none)										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=47.2 Angle Between Sides= Center Pattern=false						(2), (3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>		<b>Miscellaneous</b>			
	(9)	AZV-186	RA: 00 57 26.9900 (14.3624583d) Dec: -72 33 13.30 (-72.55369d) Equinox: J2000 Plate Id: (?)			V=13.982		Coordinate Source: SIMBAD			
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>											
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>		<b>Orbit</b>
	1	V-9s-a	(9) AZV-186	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2			3.0 Secs		
									[=>3.0 Secs ]		[1]
	2	V-9s-b	(9) AZV-186	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2		Pattern 2-2 (1)	3.0 Secs		
									[=>3.0 Secs (Pattern 1)] [=>3.0 Secs (Pattern 2)]		[1]
3	I-18s	(9) AZV-186	ACS/WFC, ACCUM, WFC1-2K	F814W	CR-SPLIT=NO; GAIN=2		Pattern 3-3 (1)	9.0 Secs			
								[=>9.0 Secs (Pattern 1)] [=>9.0 Secs (Pattern 2)]		[1]	



Proposal 10629 - Visit 10 - Are Field OB Stars Alone?

Sat Jun 25 01:02:00 GMT 2005

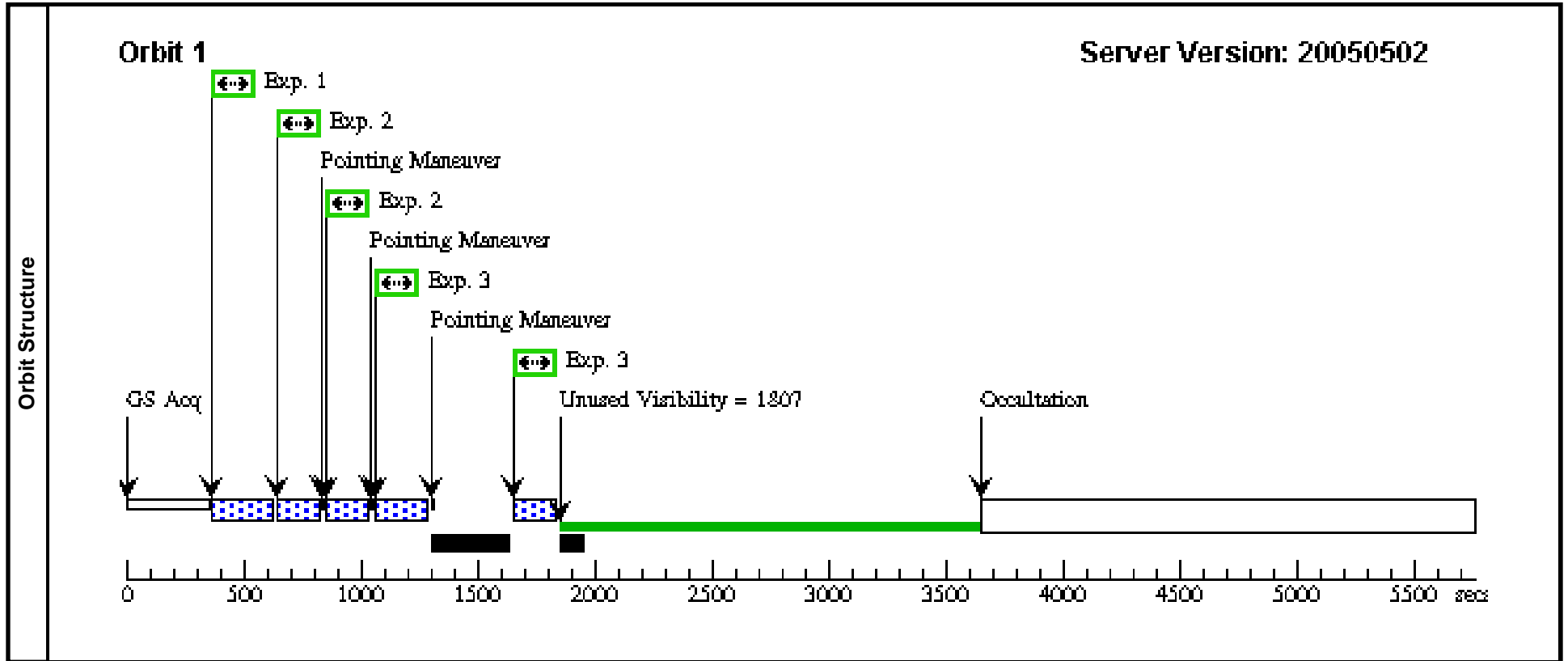
<b>Visit</b>	<b>Proposal 10629, Visit 10</b> <b>Priority: H</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: (none)										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=47.2 Angle Between Sides= Center Pattern=false						(2), (3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>		<b>Miscellaneous</b>		
	(10)	SMC-16	RA: 01 00 43.9400 (15.1830833d) Dec: -72 26 4.92 (-72.43470d) Equinox: J2000 Plate Id: (?)				V=14.3		Coordinate Source: SIMBAD		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>											
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>		<b>Orbit</b>
	1	V-9s-a	(10) SMC-16	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2			3.0 Secs		
									[=>3.0 Secs ]		[1]
	2	V-9s-b	(10) SMC-16	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2		Pattern 2-2 (1)	3.0 Secs		
									[=>3.0 Secs (Pattern 1)] [=>3.0 Secs (Pattern 2)]		[1]
3	I-18s	(10) SMC-16	ACS/WFC, ACCUM, WFC1-2K	F814W	CR-SPLIT=NO; GAIN=2		Pattern 3-3 (1)	9.0 Secs			
								[=>9.0 Secs (Pattern 1)] [=>9.0 Secs (Pattern 2)]		[1]	



Proposal 10629 - Visit 11 - Are Field OB Stars Alone?

Sat Jun 25 01:02:01 GMT 2005

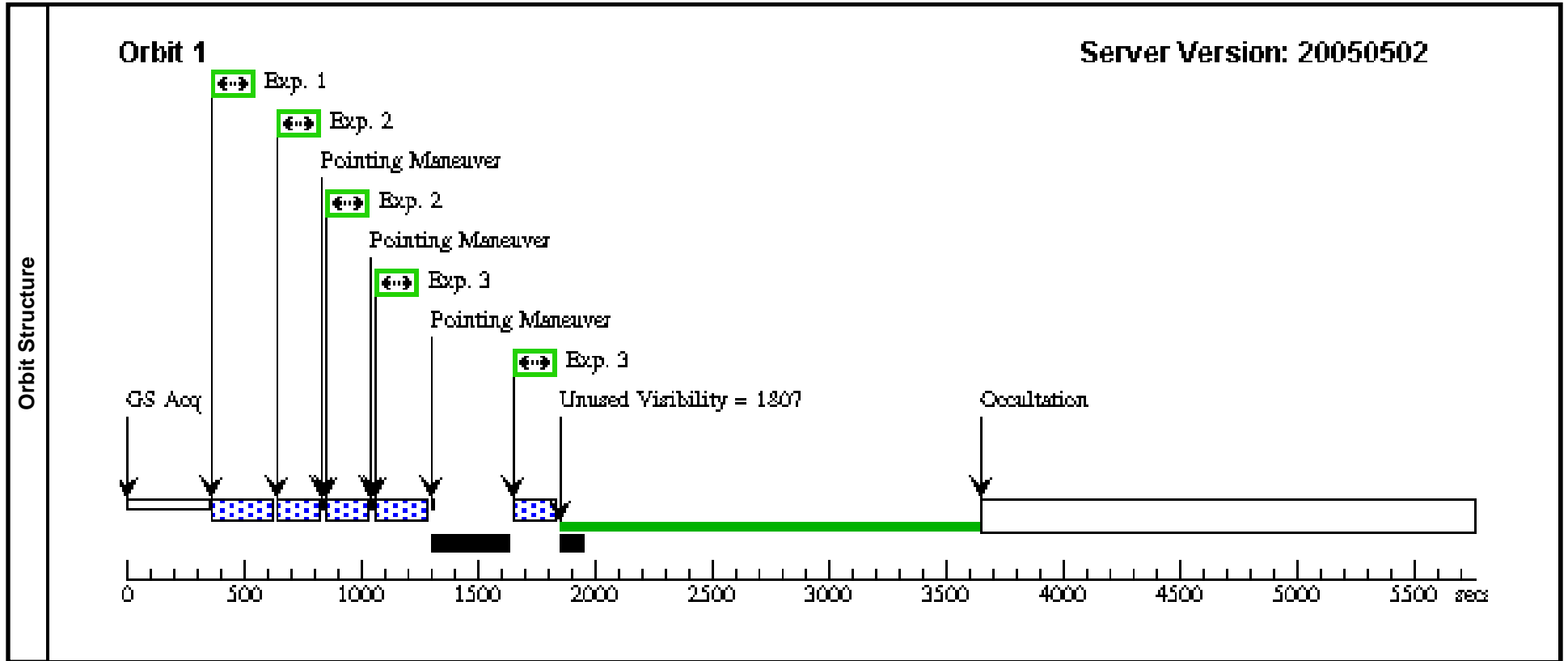
Visit	<b>Proposal 10629, Visit 11</b> Priority: L Diagnostic Status: No Diagnostics Scientific Instruments: ACS/WFC Special Requirements: (none)									
	Patterns	#	Primary Pattern			Secondary Pattern			Exposures	
		(1)	Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.2 Angle Between Sides= Center Pattern=false					(2), (3)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(11)	WR9	RA: 00 54 32.1600 (13.6340000d) Dec: -72 44 35.17 (-72.74310d) Equinox: J2000 Plate Id: (?)		V=14.97	Coordinate Source: MASSEY ET AL. 2002, APJS 141, 81				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	V-9s-a	(11) WR9	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2			3.0 Secs [==>3.0 Secs ]	[1]
	2	V-9s-b	(11) WR9	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2		Pattern 2-2 (1)	3.0 Secs [==>3.0 Secs (Pattern 1)] [==>3.0 Secs (Pattern 2)]	[1]
	3	I-18s	(11) WR9	ACS/WFC, ACCUM, WFC1-2K	F814W	CR-SPLIT=NO; GAIN=2		Pattern 3-3 (1)	9.0 Secs [==>9.0 Secs (Pattern 1)] [==>9.0 Secs (Pattern 2)]	[1]



Proposal 10629 - Visit 12 - Are Field OB Stars Alone?

Sat Jun 25 01:02:01 GMT 2005

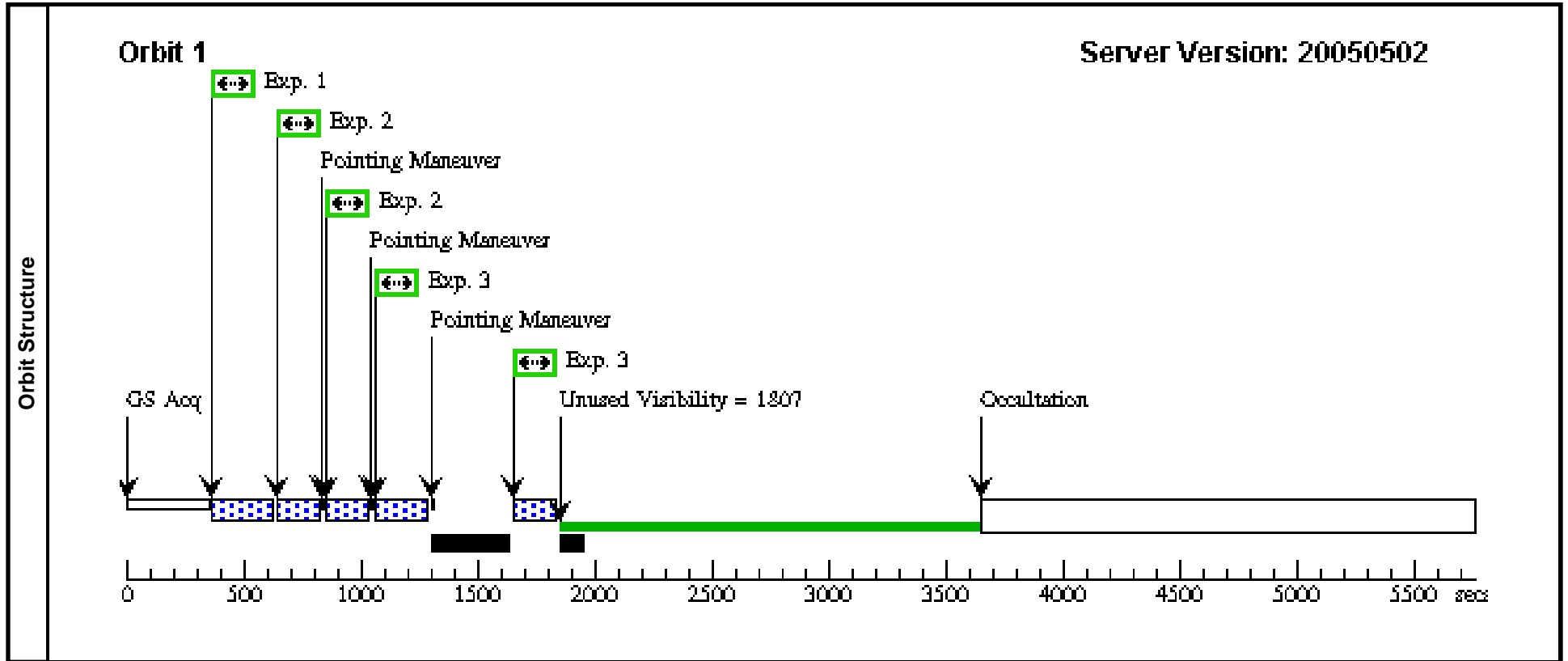
<b>Visit</b>	<b>Proposal 10629, Visit 12</b> <b>Priority: L</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: (none)										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=47.2 Angle Between Sides= Center Pattern=false						(2), (3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>		<b>Miscellaneous</b>		
	(12)	AZV-207	RA: 00 58 33.2000 (14.6383333d) Dec: -71 55 46.80 (-71.92967d) Equinox: J2000 Plate Id: (?)				V=14.37		Coordinate Source: SIMBAD		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>											
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>		<b>Orbit</b>
	1	V-9s-a	(12) AZV-207	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2			3.0 Secs [==>3.0 Secs ]		[1]
	2	V-9s-b	(12) AZV-207	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2		Pattern 2-2 (1)	3.0 Secs [==>3.0 Secs (Pattern 1)] [==>3.0 Secs (Pattern 2)]		[1]
	3	I-18s	(12) AZV-207	ACS/WFC, ACCUM, WFC1-2K	F814W	CR-SPLIT=NO; GAIN=2		Pattern 3-3 (1)	9.0 Secs [==>9.0 Secs (Pattern 1)] [==>9.0 Secs (Pattern 2)]		[1]



Proposal 10629 - Visit 13 - Are Field OB Stars Alone?

Sat Jun 25 01:02:01 GMT 2005

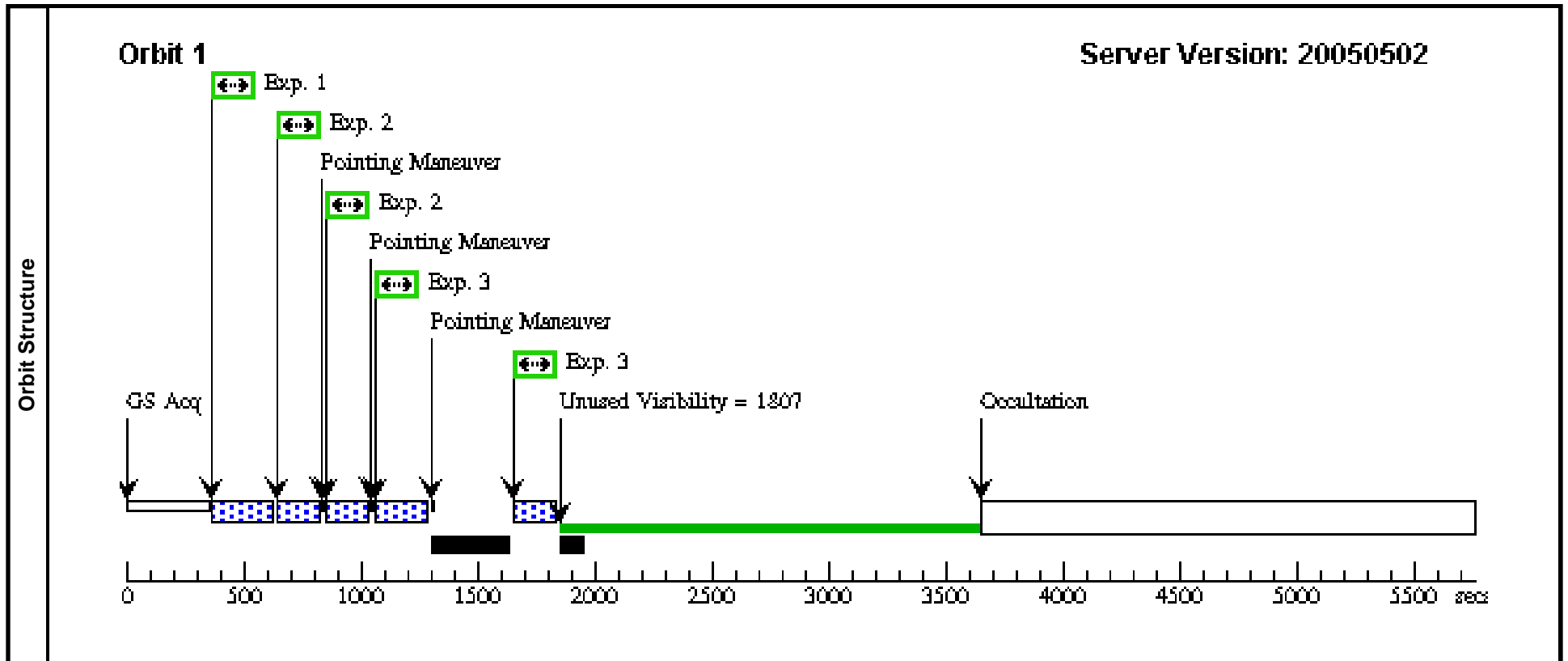
<b>Visit</b>	<b>Proposal 10629, Visit 13</b> <b>Priority: H</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: (none)									
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>			<b>Secondary Pattern</b>			<b>Exposures</b>	
(1)		Pattern Type=ACS-WFC-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.2 Angle Between Sides= Center Pattern=false					(2), (3)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(13)	AZV-223	RA: 00 59 13.4100 (14.8058750d) Dec: -72 39 2.20 (-72.65061d) Equinox: J2000 Plate Id: (?)		V=13.67	Coordinate Source: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1	V-9s-a	(13) AZV-223	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2			3.0 Secs [=>3.0 Secs ]	[1]
	2	V-9s-b	(13) AZV-223	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2		Pattern 2-2 (1)	3.0 Secs [=>3.0 Secs (Pattern 1)] [=>3.0 Secs (Pattern 2)]	[1]
	3	I-18s	(13) AZV-223	ACS/WFC, ACCUM, WFC1-2K	F814W	CR-SPLIT=NO; GAIN=2		Pattern 3-3 (1)	9.0 Secs [=>9.0 Secs (Pattern 1)] [=>9.0 Secs (Pattern 2)]	[1]



Proposal 10629 - Visit 14 - Are Field OB Stars Alone?

Sat Jun 25 01:02:02 GMT 2005

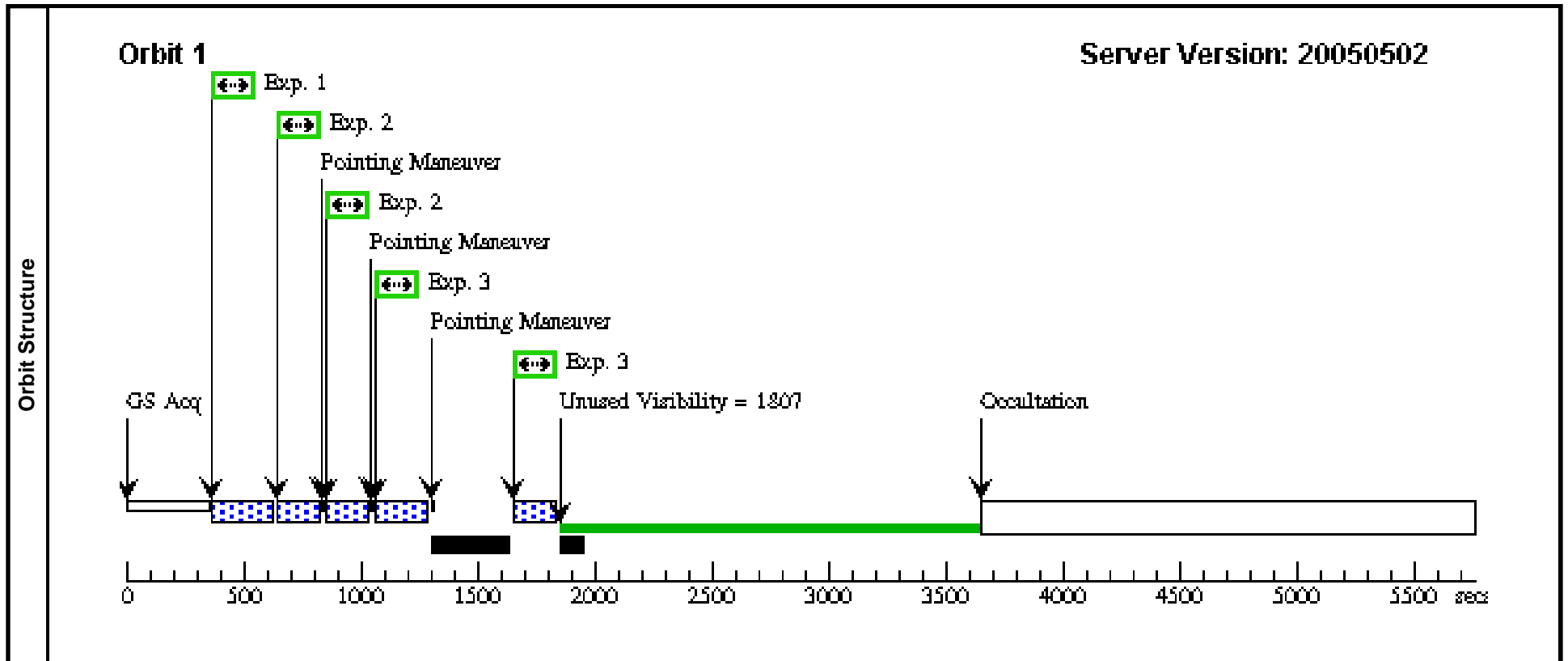
<b>Visit</b>	<b>Proposal 10629, Visit 14</b> <b>Priority: M</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: (none)									
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>			
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=47.2 Angle Between Sides= Center Pattern=false					(2), (3)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>	<b>Miscellaneous</b>			
	(14)	AZV-226	RA: 00 59 20.6900 (14.8362083d) Dec: -72 17 10.30 (-72.28619d) Equinox: J2000 Plate Id: (?)			V=14.42	Coordinate Source: SIMBAD			
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>										
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>	<b>Orbit</b>
	1	V-9s-a	(14) AZV-226	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2			3.0 Secs [=>3.0 Secs ]	[1]
	2	V-9s-b	(14) AZV-226	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2		Pattern 2-2 (1)	3.0 Secs [=>3.0 Secs (Pattern 1)] [=>3.0 Secs (Pattern 2)]	[1]
	3	I-18s	(14) AZV-226	ACS/WFC, ACCUM, WFC1-2K	F814W	CR-SPLIT=NO; GAIN=2		Pattern 3-3 (1)	9.0 Secs [=>9.0 Secs (Pattern 1)] [=>9.0 Secs (Pattern 2)]	[1]



Proposal 10629 - Visit 15 - Are Field OB Stars Alone?

Sat Jun 25 01:02:02 GMT 2005

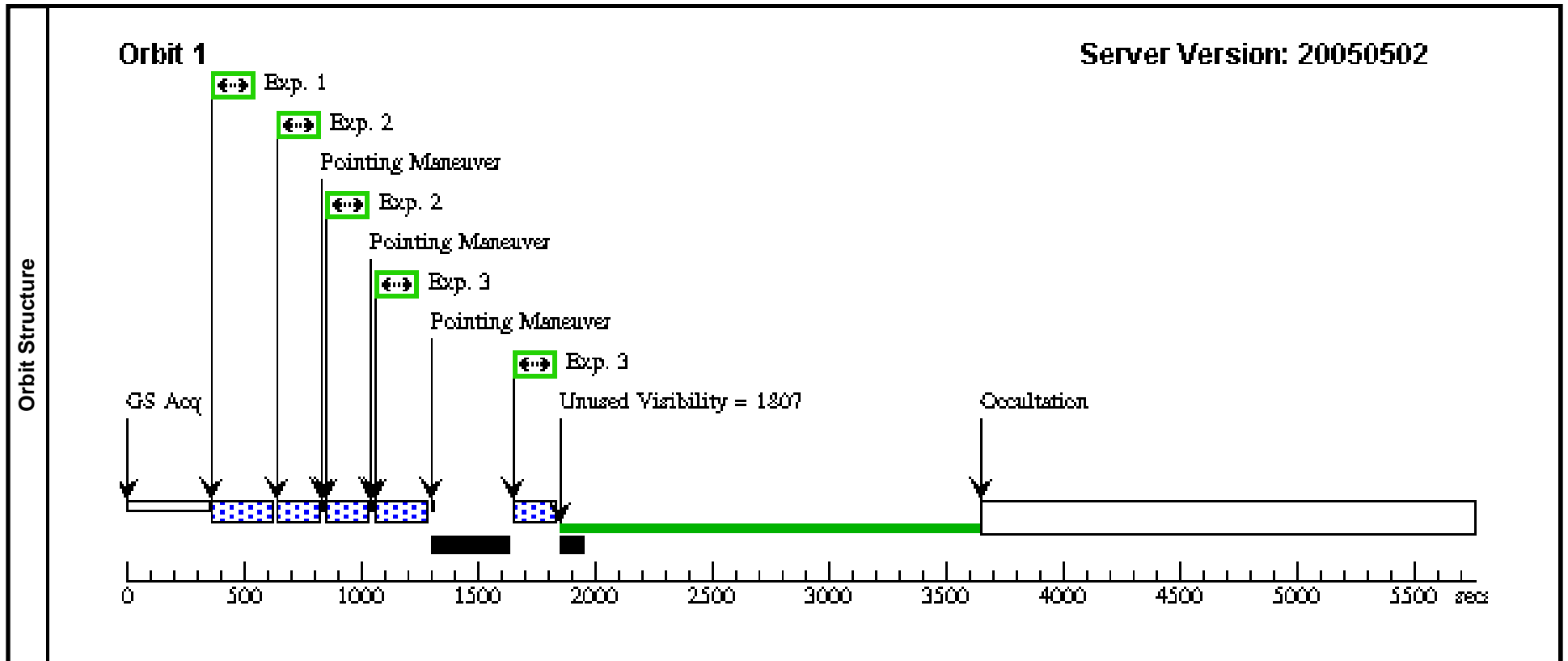
<b>Visit</b>	<b>Proposal 10629, Visit 15</b> <b>Priority: L</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: (none)										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=47.2 Angle Between Sides= Center Pattern=false						(2), (3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>		<b>Miscellaneous</b>		
	(15)	AZV-267	RA: 01 01 15.6800 (15.3153333d) Dec: -72 06 35.40 (-72.10983d) Equinox: J2000 Plate Id: (?)				V=14.92		Coordinate Source: SIMBAD		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>											
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>		<b>Orbit</b>
	1	V-9s-a	(15) AZV-267	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2			3.0 Secs		
									[=>3.0 Secs ]		[1]
	2	V-9s-b	(15) AZV-267	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2		Pattern 2-2 (1)	3.0 Secs		
									[=>3.0 Secs (Pattern 1)]		[1]
								[=>3.0 Secs (Pattern 2)]			
3	I-18s	(15) AZV-267	ACS/WFC, ACCUM, WFC1-2K	F814W	CR-SPLIT=NO; GAIN=2		Pattern 3-3 (1)	9.0 Secs			
								[=>9.0 Secs (Pattern 1)]		[1]	
								[=>9.0 Secs (Pattern 2)]			



Proposal 10629 - Visit 16 - Are Field OB Stars Alone?

Sat Jun 25 01:02:02 GMT 2005

<b>Visit</b>	<b>Proposal 10629, Visit 16</b> <b>Priority: L</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: (none)										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>				<b>Exposures</b>
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=47.2 Angle Between Sides= Center Pattern=false						(2), (3)	
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>		<b>Fluxes</b>		<b>Miscellaneous</b>		
	(16)	AZV-279	RA: 01 01 34.7200 (15.3946667d) Dec: -72 03 9.50 (-72.05264d) Equinox: J2000 Plate Id: (?)				V=14.2		Coordinate Source: SIMBAD		
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>											
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>		<b>Orbit</b>
	1	V-9s-a	(16) AZV-279	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2			3.0 Secs		
									[=>3.0 Secs ]		[1]
	2	V-9s-b	(16) AZV-279	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2		Pattern 2-2 (1)	3.0 Secs		
									[=>3.0 Secs (Pattern 1)]		[1]
								[=>3.0 Secs (Pattern 2)]			
3	I-18s	(16) AZV-279	ACS/WFC, ACCUM, WFC1-2K	F814W	CR-SPLIT=NO; GAIN=2		Pattern 3-3 (1)	9.0 Secs			
								[=>9.0 Secs (Pattern 1)]		[1]	
								[=>9.0 Secs (Pattern 2)]			



Proposal 10629 - Visit 17 - Are Field OB Stars Alone?

Sat Jun 25 01:02:03 GMT 2005

<b>Visit</b>	<b>Proposal 10629, Visit 17</b> <b>Priority: L</b> <b>Diagnostic Status: No Diagnostics</b> Scientific Instruments: ACS/WFC Special Requirements: (none)										
	<b>Patterns</b>	<b>#</b>	<b>Primary Pattern</b>				<b>Secondary Pattern</b>			<b>Exposures</b>	
(1)		Pattern Type=ACS-WFC-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.146 Line Spacing=		Coordinate Frame=POS-TARG Pattern Orientation=47.2 Angle Between Sides= Center Pattern=false					(2), (3)		
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>		<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(17)	AZV-302	RA: 01 02 19.0100 (15.5792083d) Dec: -72 22 4.40 (-72.36789d) Equinox: J2000 Plate Id: (?)			V=14.35	Coordinate Source: SIMBAD				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>											
<b>Exposures</b>	<b>#</b>	<b>Label</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time/[Actual Dur.]</b>		<b>Orbit</b>
	1	V-9s-a	(17) AZV-302	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2			3.0 Secs		
									[=>3.0 Secs ]		[1]
	2	V-9s-b	(17) AZV-302	ACS/WFC, ACCUM, WFC1-2K	F555W	CR-SPLIT=NO; GAIN=2		Pattern 2-2 (1)	3.0 Secs		
									[=>3.0 Secs (Pattern 1)]		[1]
								[=>3.0 Secs (Pattern 2)]			
3	I-18s	(17) AZV-302	ACS/WFC, ACCUM, WFC1-2K	F814W	CR-SPLIT=NO; GAIN=2		Pattern 3-3 (1)	9.0 Secs			
								[=>9.0 Secs (Pattern 1)]		[1]	
								[=>9.0 Secs (Pattern 2)]			

