



10612 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Cycle: 14, Proposal Category: SNAP

(Availability Mode: SUPPORTED)

INVESTIGATORS

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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) MT5	FGS	1	20-Jun-2005 12:36:27.0	yes
02	(2) MT59	FGS	1	20-Jun-2005 12:36:29.0	yes
03	(3) MT70	FGS	1	20-Jun-2005 12:36:30.0	yes
04	(4) MT83	FGS	1	20-Jun-2005 12:36:31.0	yes

Proposal 10612 - 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>
05	(5) MT138	FGS	1	20-Jun-2005 12:36:32.0	yes
06	(6) A46	FGS	1	20-Jun-2005 12:36:33.0	yes
07	(7) MT145	FGS	1	20-Jun-2005 12:36:34.0	yes
08	(8) MT169	FGS	1	20-Jun-2005 12:36:35.0	yes
09	(9) MT174	FGS	1	20-Jun-2005 12:36:36.0	yes
10	(10) MT187	FGS	1	20-Jun-2005 12:36:37.0	yes
11	(11) MT213	FGS	1	20-Jun-2005 12:36:38.0	yes
12	(12) A20	FGS	1	20-Jun-2005 12:36:39.0	yes
13	(13) MT217	FGS	1	20-Jun-2005 12:36:40.0	yes
14	(14) MT227	FGS	1	20-Jun-2005 12:36:41.0	yes
15	(15) MT250	FGS	1	20-Jun-2005 12:36:42.0	yes
16	(16) MT258	FGS	1	20-Jun-2005 12:36:43.0	yes
17	(17) MT259	FGS	1	20-Jun-2005 12:36:43.0	yes
18	(18) MT292	FGS	1	20-Jun-2005 12:36:44.0	yes
19	(19) MT299	FGS	1	20-Jun-2005 12:36:45.0	yes
20	(20) A37	FGS	1	20-Jun-2005 12:36:46.0	yes
21	(21) MT304	FGS	1	20-Jun-2005 12:36:47.0	yes
22	(22) MT317	FGS	1	20-Jun-2005 12:36:48.0	yes
23	(23) MT339	FGS	1	20-Jun-2005 12:36:49.0	yes
24	(24) MT376	FGS	1	20-Jun-2005 12:36:50.0	yes
25	(25) MT378	FGS	1	20-Jun-2005 12:36:50.0	yes
26	(26) MT390	FGS	1	20-Jun-2005 12:36:51.0	yes

Proposal 10612 - 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>
27	(27) MT403	FGS	1	20-Jun-2005 12:36:52.0	yes
28	(28) MT417	FGS	1	20-Jun-2005 12:36:53.0	yes
29	(29) A41	FGS	1	20-Jun-2005 12:36:54.0	yes
30	(30) MT425	FGS	1	20-Jun-2005 12:36:55.0	yes
31	(31) MT429	FGS	1	20-Jun-2005 12:36:56.0	yes
32	(32) MT431	FGS	1	20-Jun-2005 12:36:57.0	yes
33	(33) MT448	FGS	1	20-Jun-2005 12:36:57.0	yes
34	(34) MT455	FGS	1	20-Jun-2005 12:36:58.0	yes
35	(35) MT457	FGS	1	20-Jun-2005 12:36:59.0	yes
36	(36) MT462	FGS	1	20-Jun-2005 12:37:00.0	yes
37	(37) MT465	FGS	1	20-Jun-2005 12:37:01.0	yes
38	(38) MT467	FGS	1	20-Jun-2005 12:37:02.0	yes
39	(39) MT470	FGS	1	20-Jun-2005 12:37:03.0	yes
40	(40) MT473	FGS	1	20-Jun-2005 12:37:04.0	yes
41	(41) MT480	FGS	1	20-Jun-2005 12:37:04.0	yes
42	(42) MT483	FGS	1	20-Jun-2005 12:37:05.0	yes
43	(43) MT485	FGS	1	20-Jun-2005 12:37:06.0	yes
44	(44) MT507	FGS	1	20-Jun-2005 12:37:07.0	yes
45	(45) MT516	FGS	1	20-Jun-2005 12:37:08.0	yes
46	(46) MT531	FGS	1	20-Jun-2005 12:37:09.0	yes
47	(47) MT534	FGS	1	20-Jun-2005 12:37:10.0	yes
48	(48) MT555	FGS	1	20-Jun-2005 12:37:11.0	yes

Proposal 10612 - 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>
49	(49) MT556	FGS	1	20-Jun-2005 12:37:12.0	yes
50	(50) MT575	FGS	1	20-Jun-2005 12:37:12.0	yes
51	(51) MT588	FGS	1	20-Jun-2005 12:37:13.0	yes
52	(52) MT601	FGS	1	20-Jun-2005 12:37:14.0	yes
53	(53) MT605	FGS	1	20-Jun-2005 12:37:15.0	yes
54	(54) MT611	FGS	1	20-Jun-2005 12:37:16.0	yes
55	(55) MT632	FGS	1	20-Jun-2005 12:37:17.0	yes
56	(56) MT642	FGS	1	20-Jun-2005 12:37:18.0	yes
57	(57) MT692	FGS	1	20-Jun-2005 12:37:19.0	yes
58	(58) MT696	FGS	1	20-Jun-2005 12:37:20.0	yes
59	(59) MT716	FGS	1	20-Jun-2005 12:37:21.0	yes
60	(60) MT734	FGS	1	20-Jun-2005 12:37:22.0	yes
61	(61) MT736	FGS	1	20-Jun-2005 12:37:23.0	yes
62	(62) MT745	FGS	1	20-Jun-2005 12:37:23.0	yes
63	(63) MT771	FGS	1	20-Jun-2005 12:37:24.0	yes
64	(64) MT793	FGS	1	20-Jun-2005 12:37:25.0	yes
65	(65) BD+40D4212	FGS	1	20-Jun-2005 12:37:26.0	yes
66	(66) WR145	FGS	1	20-Jun-2005 12:37:27.0	yes
67	(67) BD+40D4220	FGS	1	20-Jun-2005 12:37:28.0	yes
68	(68) A23	FGS	1	20-Jun-2005 12:37:29.0	yes
69	(69) A27	FGS	1	20-Jun-2005 12:37:31.0	yes
70	(70) SCHULTE73	FGS	1	20-Jun-2005 12:37:32.0	yes

70 Total Orbits Used

ABSTRACT

We propose to make a high angular resolution SNAP survey of the massive stars in the nearby, super-star cluster Cyg OB2. We will use FGS1r TRANS mode observations to search for astrometric companions in the separation range of 0.01 to 1.00 arcsec and in the magnitude difference range smaller than 4 magnitudes. The observations will test the idea that the formation of very massive stars involves mergers and the presence of nearby companions. Discovery of companions to massive stars in this relatively nearby complex will provide guidance in the interpretation of apparently supermassive stars in distant locations. The search for companions will also be important for verification of fundamental parameters derived from spectroscopy, adjustments to main sequence fitting and distance estimations, determining third light contributions of eclipsing binaries, identifying wide colliding wind binaries, studying the relationship between orbital and spin angular momentum, and discovering binaries amenable to future mass determinations. The massive star environment in Cyg OB2 may be similar to the kinds found in the earliest epoch of star formation, so that a study of the role of binaries in Cyg OB2 will help us understand the formation processes of the first stars in the Universe.

OBSERVING DESCRIPTION

This is a SNAP survey of massive stars in Cyg OB2 to find binary companions using the FGS1r in its high angular resolution TRANSfer mode. Each target will be scanned 30 - 50 times for total exposure times < 1360 s. Each target in a given visit will be placed at the POS_TARG(x,y)=(0,0) location at the center of the FGS1r FOV. Observations will be made with the F583W filter. The individual scans will be de-jittered, cross-correlated, coadded, and smoothed to produce high SNR interference fringes in two orthogonal directions. The fringes will be inspected for a non-point source structure through comparison with calibration scans of a single star, and if determined to have originated from a non-point source, they will be modeled as fringes from a binary or multiple star system. For binary stars, the component separation, position angle, and magnitude difference will be determined. The FGS1r will record binaries in the separation range of 10 - 1000 mas and in the magnitude difference range of 0 - 4 mag. We will need similar observations of a point source calibration target (part of the observatory calibration program for Cycle 14).

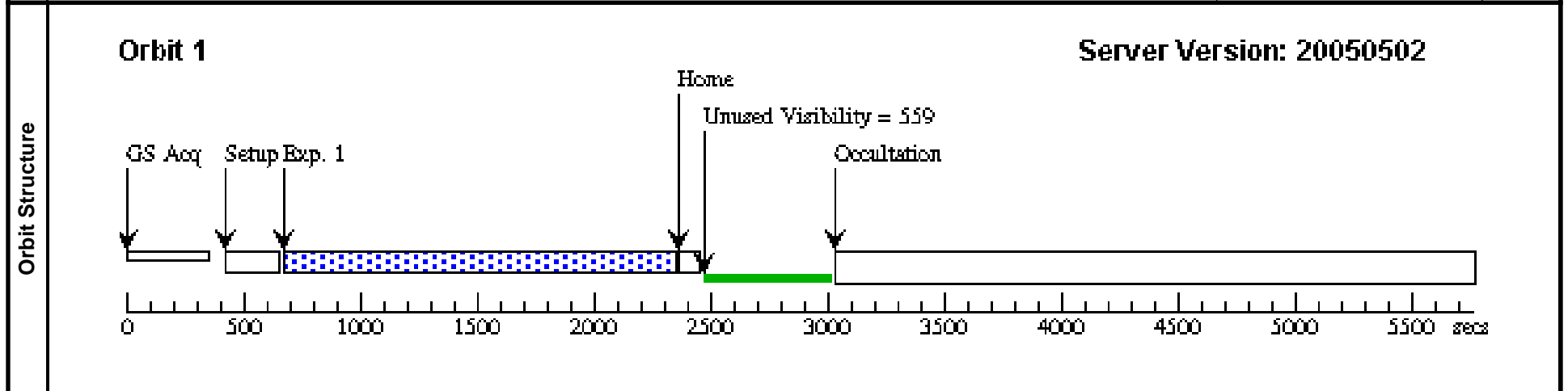
Proposal 10612 - Visit 01 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:33 GMT 2005

Visit	Proposal 10612, Visit 01				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	MT5	RA: 20 30 39.8300 (307.6659583d)		V=12.93+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01264	Dec: +41 36 50.50 (41.61403d)		B-V=1.64,	
		Alt Name2: CygOB2-1489	Equinox: J2000 Plate Id: 00VV		O6V((f))	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(1) MT5	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs [==>]	[1]



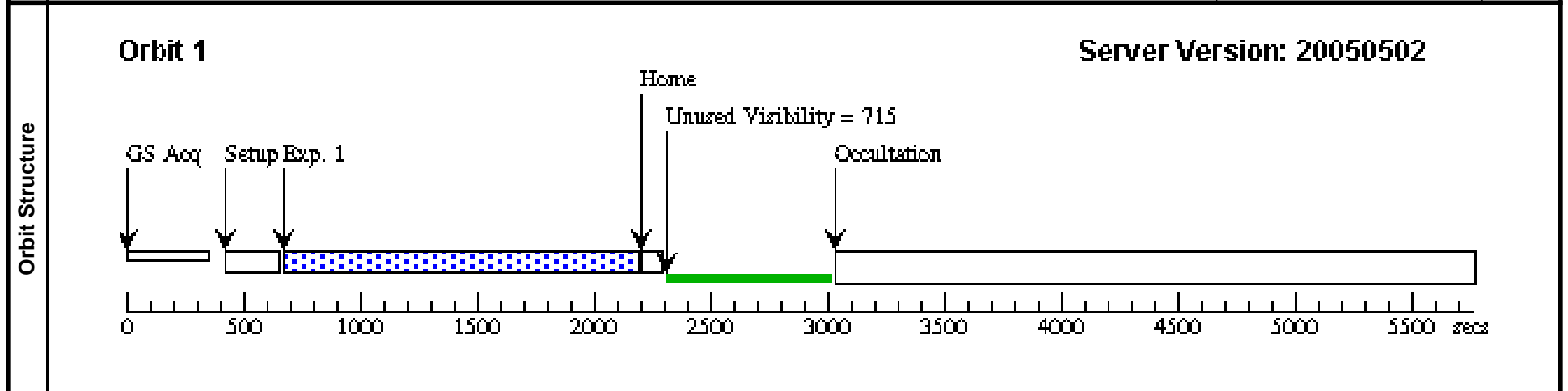
Proposal 10612 - Visit 02 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:34 GMT 2005

Visit	Proposal 10612, Visit 02				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	MT59	RA: 20 31 10.5400 (307.7939167d)		V=11.18+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-00877	Dec: +41 31 53.50 (41.53153d)		B-V=1.47,	
		Alt Name2: Schulte1	Equinox: J2000 Plate Id: 00VV		O8.5V	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(2) MT59	FGS, TRANS, 1	F583W	SCANS=18; STEP-SIZE=0.5	POS TARG 0,0		1224.0 Secs [==>]	[1]



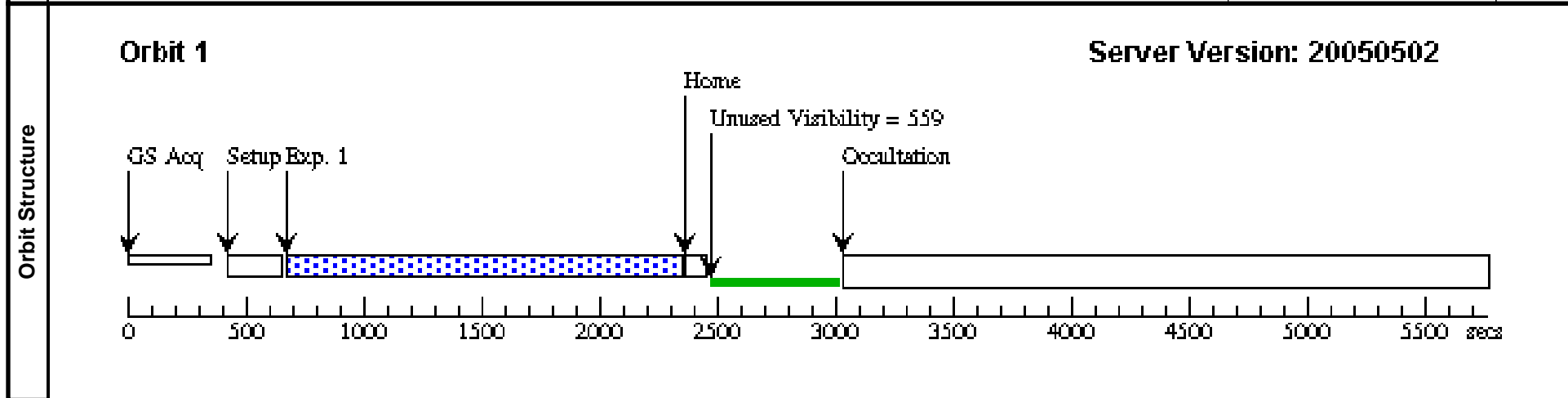
Proposal 10612 - Visit 03 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:35 GMT 2005

Visit	Proposal 10612, Visit 03				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	MT70	RA: 20 31 18.3300 (307.8263750d)		V=12.99+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01187	Dec: +41 21 21.30 (41.35592d)		B-V=2.10,	
		Alt Name2: CygOB2-1592	Equinox: J2000		O9V	
			Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(3) MT70	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs	
									[==>]	[1]



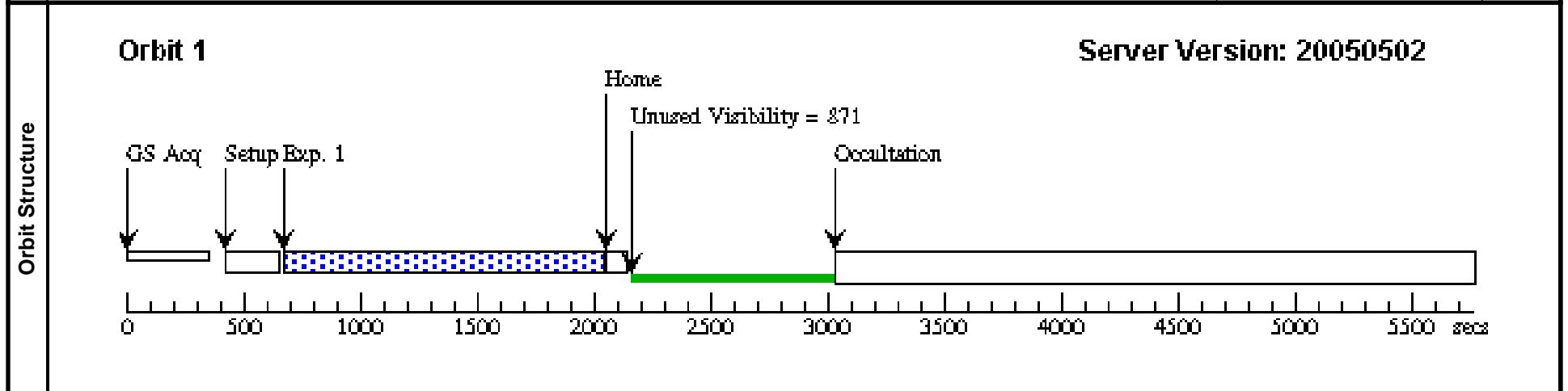
Proposal 10612 - Visit 04 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:35 GMT 2005

Visit	Proposal 10612, Visit 04				
	Priority: H				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	MT83	RA: 20 31 22.0300 (307.8417917d)		V=10.64+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-00906	Dec: +41 31 28.20 (41.52450d)		B-V=1.18,	
		Alt Name2: Schulte2	Equinox: J2000 Plate Id: 00VV		B1I	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(4) MT83	FGS, TRANS, 1	F583W	SCANS=16; STEP-SIZE=0.5	POS TARG 0,0		1088.0 Secs [==>]	[1]



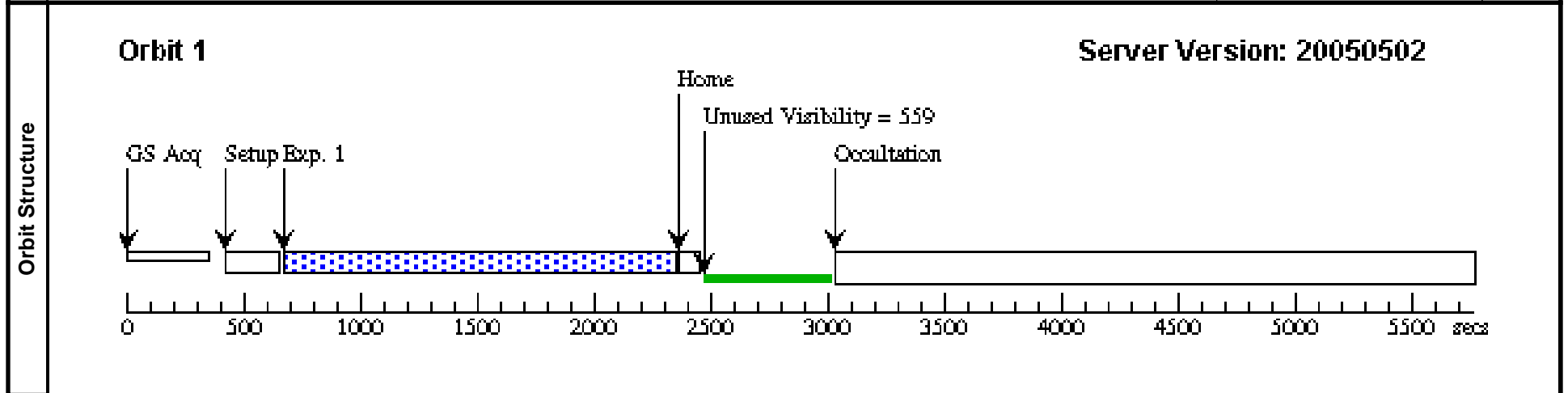
Proposal 10612 - Visit 05 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:36 GMT 2005

Visit	Proposal 10612, Visit 05				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	MT138	RA: 20 31 45.4100 (307.9392083d)		V=12.26+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01345	Dec: +41 18 26.90 (41.30747d)		B-V=1.99,	
		Alt Name2: CygOB2-593	Equinox: J2000		O8.5I	
			Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(5) MT138	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs	
									[==>]	[1]



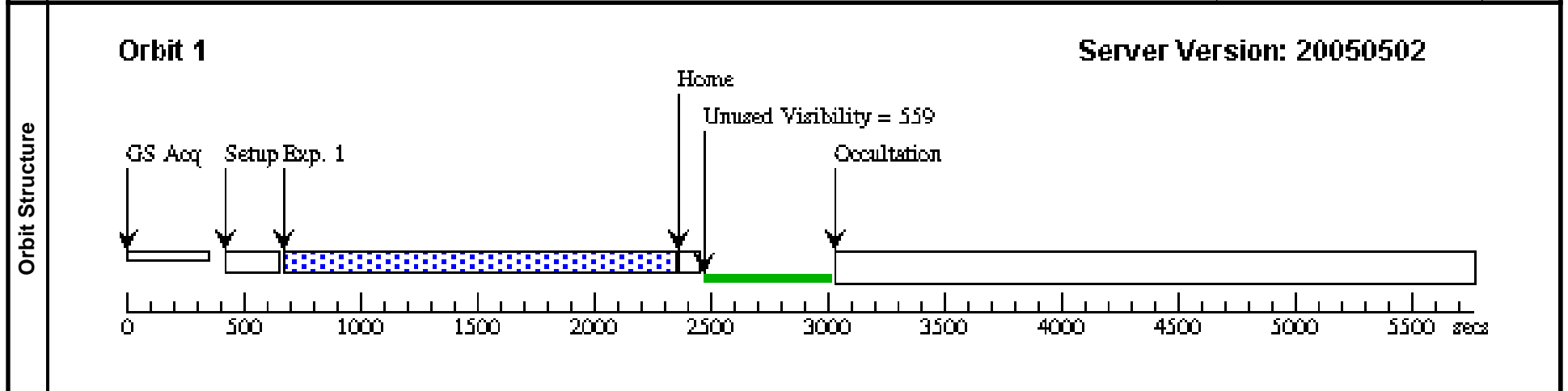
Proposal 10612 - Visit 06 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:37 GMT 2005

Visit	Proposal 10612, Visit 06				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(6)	A46	RA: 20 31 0.2200 (307.7509167d) Dec: +40 49 49.90 (40.83053d)		V=10.98+/-0.39 O7V((f))	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03157-00776	Equinox: J2000			
			Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(6) A46	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs [==>]	[1]



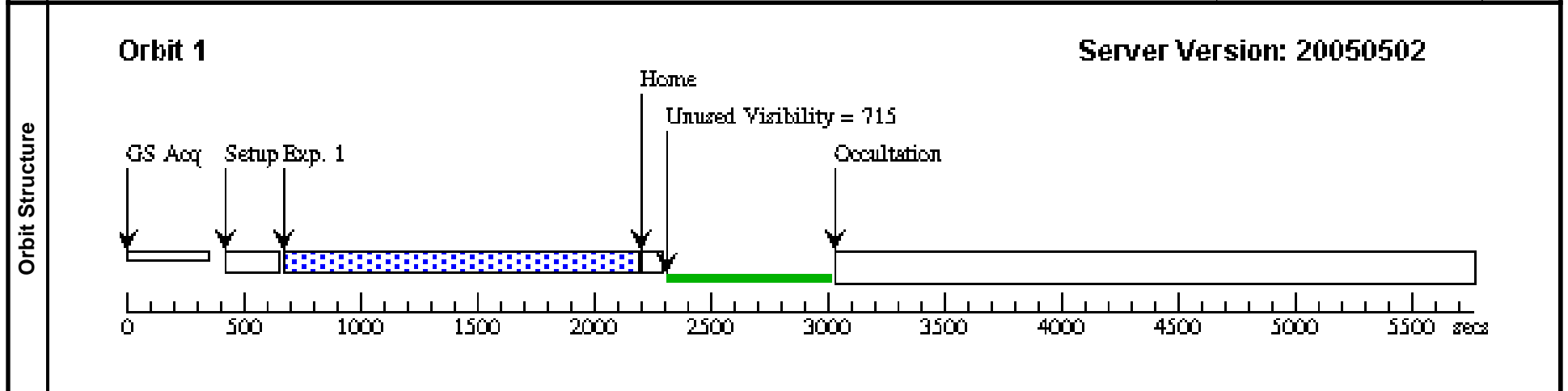
Proposal 10612 - Visit 07 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:37 GMT 2005

Visit	Proposal 10612, Visit 07				
	Priority: H				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(7)	MT145	RA: 20 31 49.6700 (307.9569583d)		V=11.52+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01036	Dec: +41 28 26.60 (41.47406d)		B-V=1.11,	
		Alt Name2: Schulte20	Equinox: J2000		O9.5V	
			Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(7) MT145	FGS, TRANS, 1	F583W	SCANS=18; STEP-SIZE=0.5	POS TARG 0,0		1224.0 Secs	
									[==>]	[1]



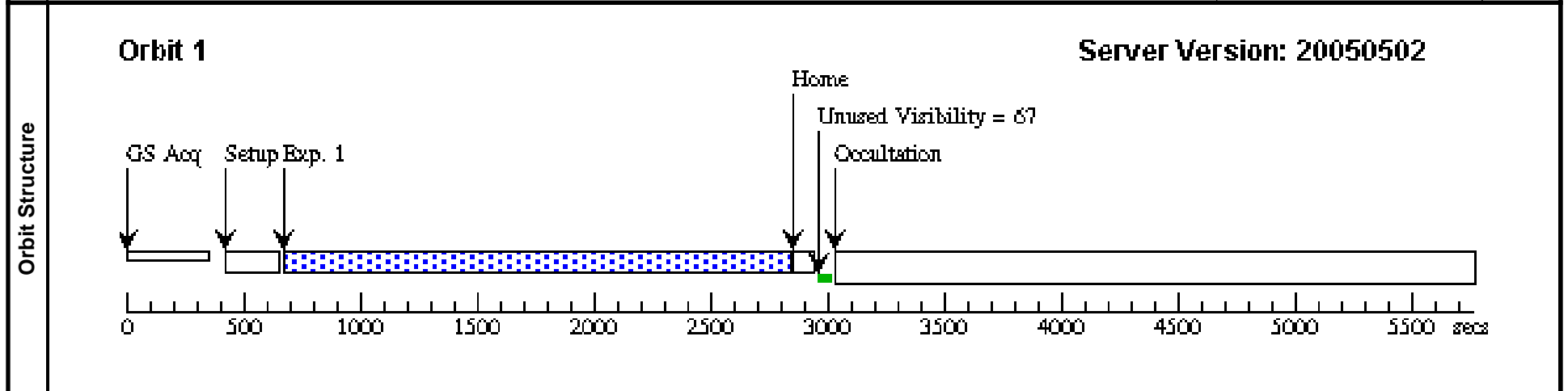
Proposal 10612 - Visit 08 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:38 GMT 2005

Visit	Proposal 10612, Visit 08				
	Priority: L				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(8)	MT169	RA: 20 31 56.3700 (307.9848750d)		V=13.9+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01016	Dec: +41 33 4.80 (41.55133d)		B-V=1.21,	
		Alt Name2: CygOB2-205	Equinox: J2000		B1.5V	
			Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(8) MT169	FGS, TRANS, 1	F583W	SCANS=26; STEP-SIZE=0.5	POS TARG 0,0		1768.0 Secs	
									[==>]	[1]



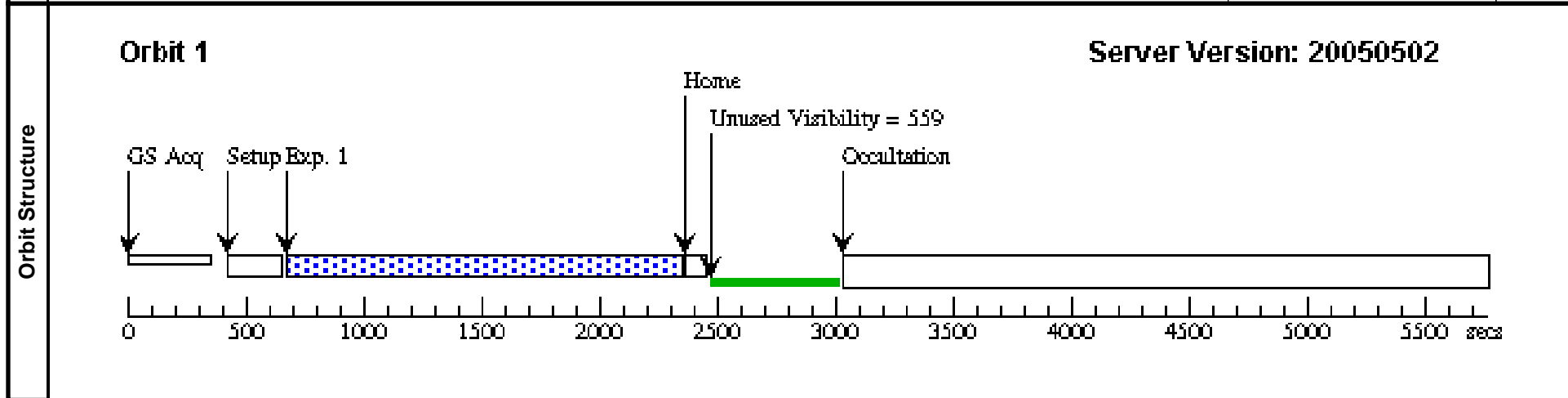
Proposal 10612 - Visit 09 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:39 GMT 2005

Visit	Proposal 10612, Visit 09				
	Priority: L				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(9)	MT174	RA: 20 31 56.9400 (307.9872500d)		V=12.55+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01180	Dec: +41 31 47.80 (41.52994d)		B-V=1.21,	
		Alt Name2: CygOB2-210	Equinox: J2000		B1.5V	
			Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(9) MT174	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs	
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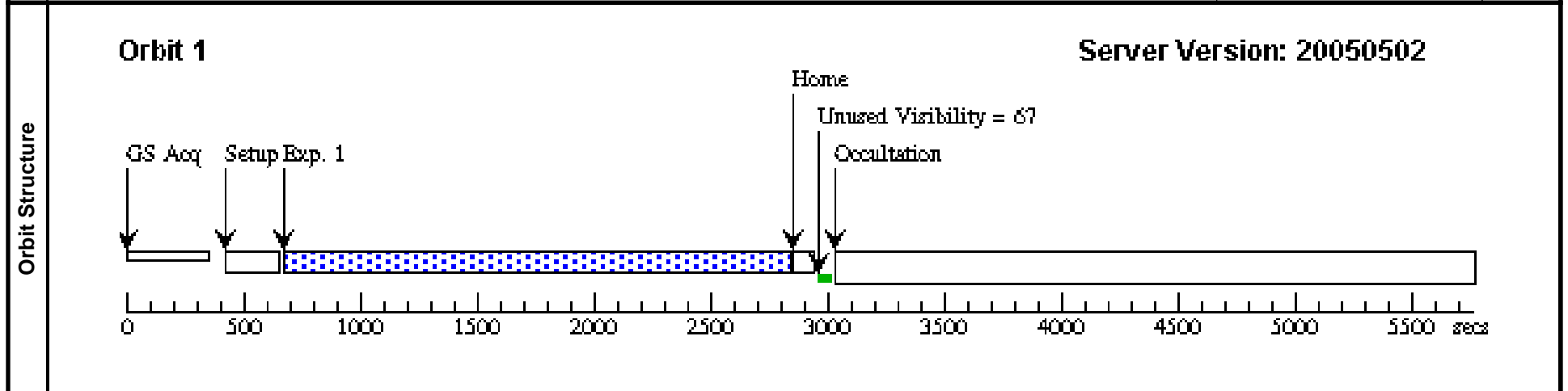
Proposal 10612 - Visit 10 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:39 GMT 2005

Visit	Proposal 10612, Visit 10				
	Priority: L				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(10)	MT187	RA: 20 32 3.7800 (308.0157500d)		V=13.24+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01319	Dec: +41 25 10.60 (41.41961d)		B-V=1.52,	
		Alt Name2: CygOB2-545	Equinox: J2000 Plate Id: 00VV		B0.5:V	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(10) MT187	FGS, TRANS, 1	F583W	SCANS=26; STEP-SIZE=0.5	POS TARG 0,0		1768.0 Secs [==>]	[1]



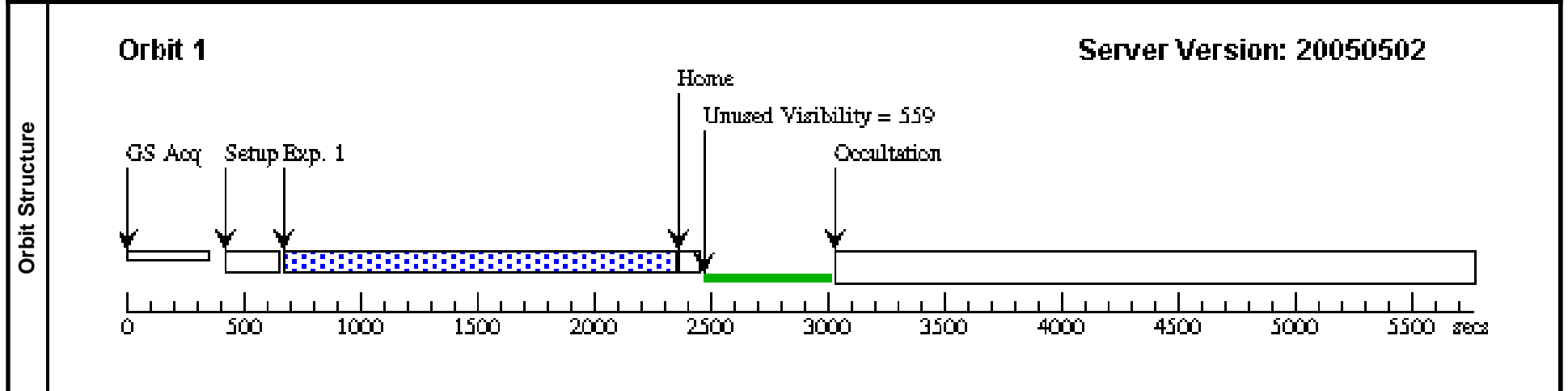
Proposal 10612 - Visit 11 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:40 GMT 2005

Visit	Proposal 10612, Visit 11				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(11)	MT213	RA: 20 32 13.1200 (308.0546667d) Dec: +41 27 24.50 (41.45681d) Equinox: J2000 Plate Id: 00VV		V=11.95+/-0.02 B-V=1.13, B0Vp	Coordinate Source: GSC_SURVEY_PLATE
<i>Comments: POSITION FROM MASSEY & THOMPSON (1991, AJ, 101, 1408) WITH GSC-MT OFFSET OF RA+0.05S, DEC-0.4S FROM TARGET MT217.</i>						

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(11) MT213	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs [==>]	[1]



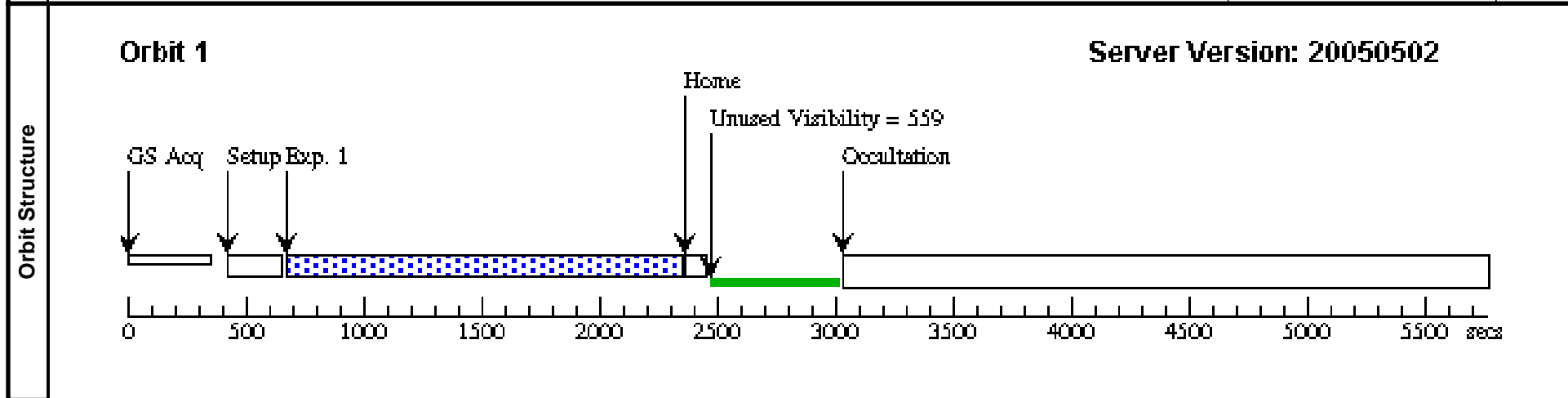
Proposal 10612 - Visit 12 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:41 GMT 2005

Visit	Proposal 10612, Visit 12				
	Priority: L				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(12)	A20	RA: 20 33 2.9400 (308.2622500d)		V=11.92+/-0.38	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03157-01425	Dec: +40 47 25.40 (40.79039d)		O8II((f))	
			Equinox: J2000			
			Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(12) A20	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs	
									[==>]	[1]



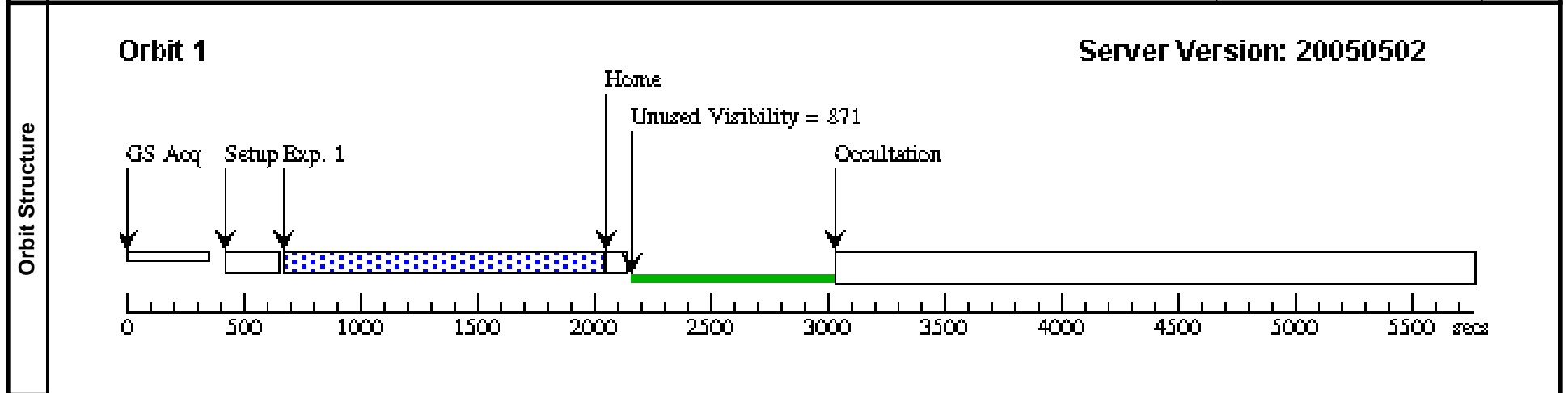
Proposal 10612 - Visit 13 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:41 GMT 2005

Visit	Proposal 10612, Visit 13				
	Priority: H				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(13)	MT217	RA: 20 32 13.8200 (308.0575833d)		V=10.23+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01063	Dec: +41 27 12.30 (41.45342d)		B-V=1.19,	
		Alt Name2: Schulte4	Equinox: J2000 Plate Id: 00VV		O7III(f)	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(13) MT217	FGS, TRANS, 1	F583W	SCANS=16; STEP-SIZE=0.5	POS TARG 0,0		1088.0 Secs [==>]	[1]



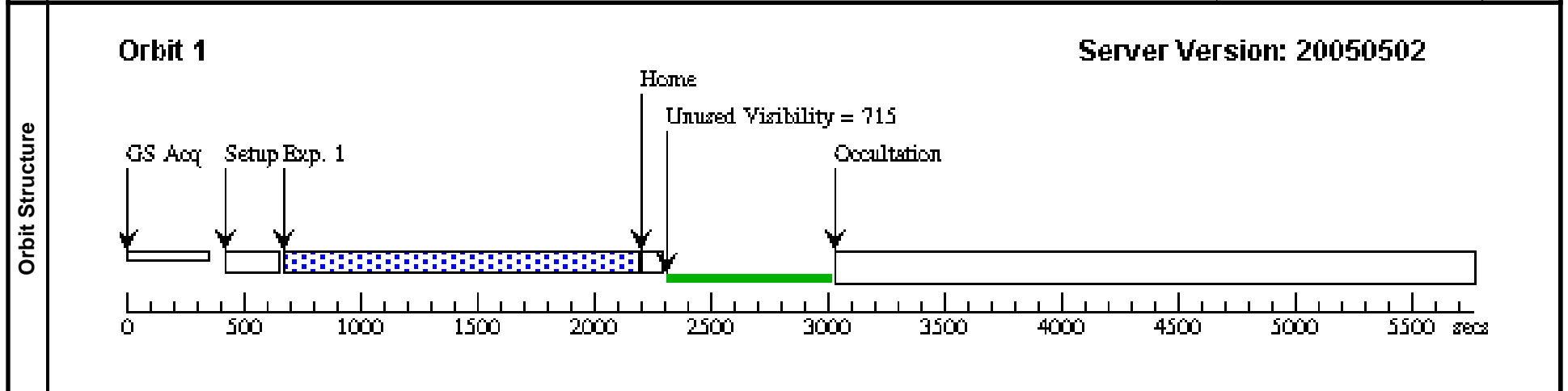
Proposal 10612 - Visit 14 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:42 GMT 2005

Visit	Proposal 10612, Visit 14				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(14)	MT227	RA: 20 32 16.5700 (308.0690417d)		V=11.47+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01011	Dec: +41 25 35.70 (41.42658d)		B-V=1.24,	
		Alt Name2: Schulte14	Equinox: J2000 Plate Id: 00VV		O9V	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(14) MT227	FGS, TRANS, 1	F583W	SCANS=18; STEP-SIZE=0.5	POS TARG 0,0		1224.0 Secs [==>]	[1]



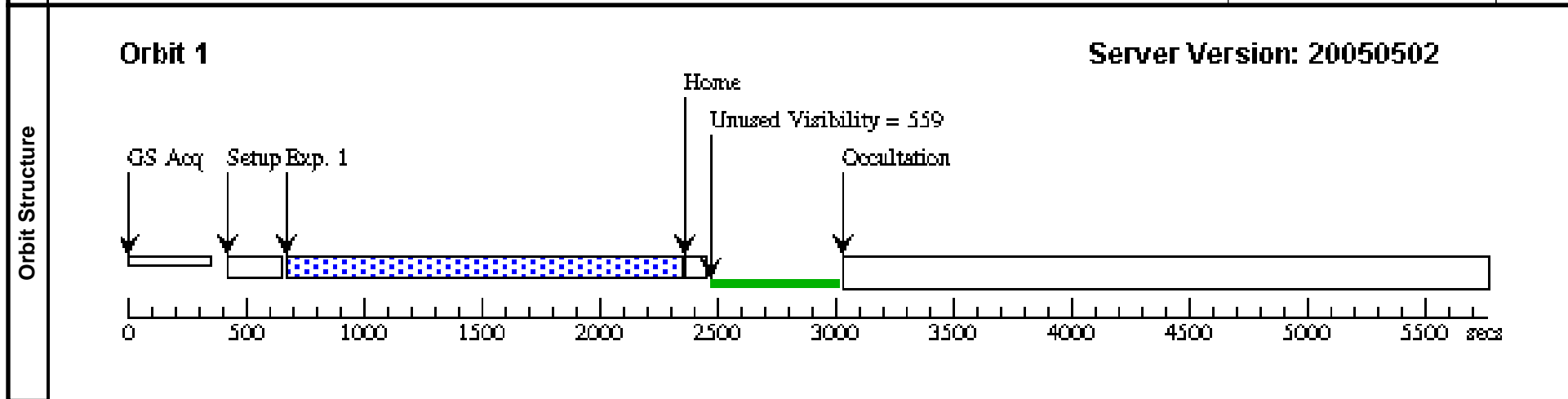
Proposal 10612 - Visit 15 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:43 GMT 2005

Visit	Proposal 10612, Visit 15				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(15)	MT250	RA: 20 32 26.0800 (308.1086667d)		V=12.88+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01003	Dec: +41 29 39.50 (41.49431d)		B-V=1.06,	
		Alt Name2: CygOB2-500	Equinox: J2000 Plate Id: 00VV		B1V	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(15) MT250	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs [==>]	[1]



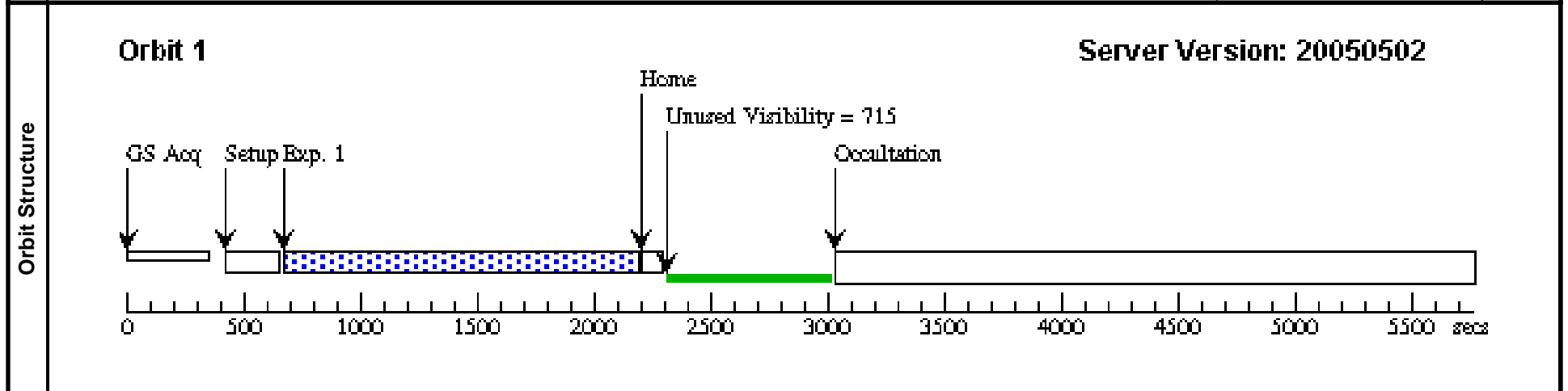
Proposal 10612 - Visit 16 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:43 GMT 2005

Visit	Proposal 10612, Visit 16				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(16)	MT258	RA: 20 32 27.6600 (308.1152500d)		V=11.01+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01199	Dec: +41 26 22.00 (41.43944d)		B-V=1.20,	
		Alt Name2: Schulte15	Equinox: J2000 Plate Id: 00VV		O8V	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(16) MT258	FGS, TRANS, 1	F583W	SCANS=18; STEP-SIZE=0.5	POS TARG 0,0		1224.0 Secs [==>]	[1]



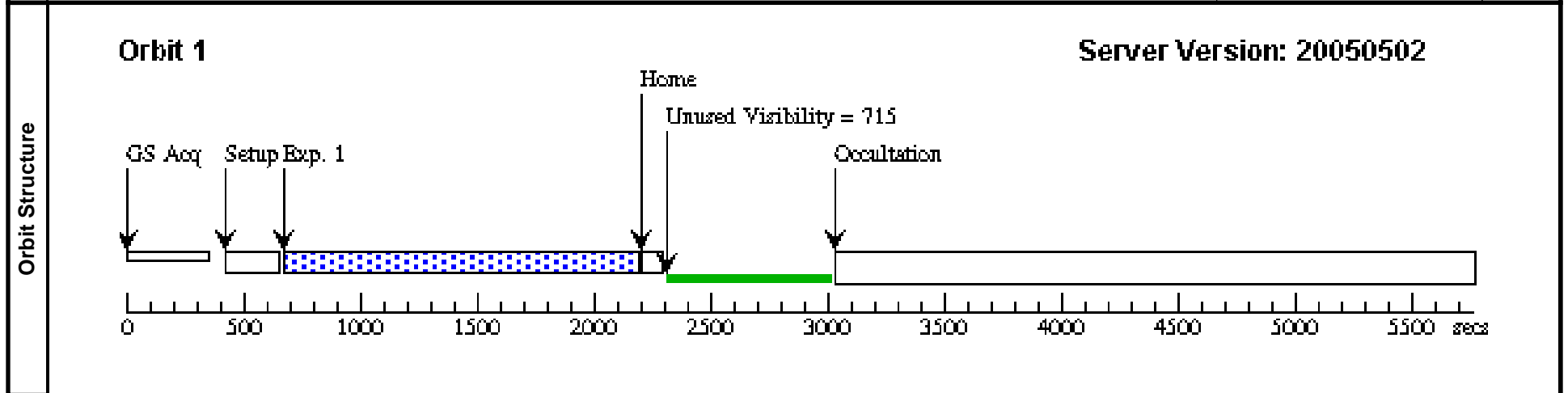
Proposal 10612 - Visit 17 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:44 GMT 2005

Visit	Proposal 10612, Visit 17				
	Priority: H				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(17)	MT259	RA: 20 32 27.7400 (308.1155833d)		V=11.42+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01103	Dec: +41 28 52.10 (41.48114d)		B-V=1.00,	
		Alt Name2: Schulte21	Equinox: J2000		B0.5V	
			Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(17) MT259	FGS, TRANS, 1	F583W	SCANS=18; STEP-SIZE=0.5	POS TARG 0,0		1224.0 Secs	
									[==>]	[1]



Proposal 10612 - Visit 18 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

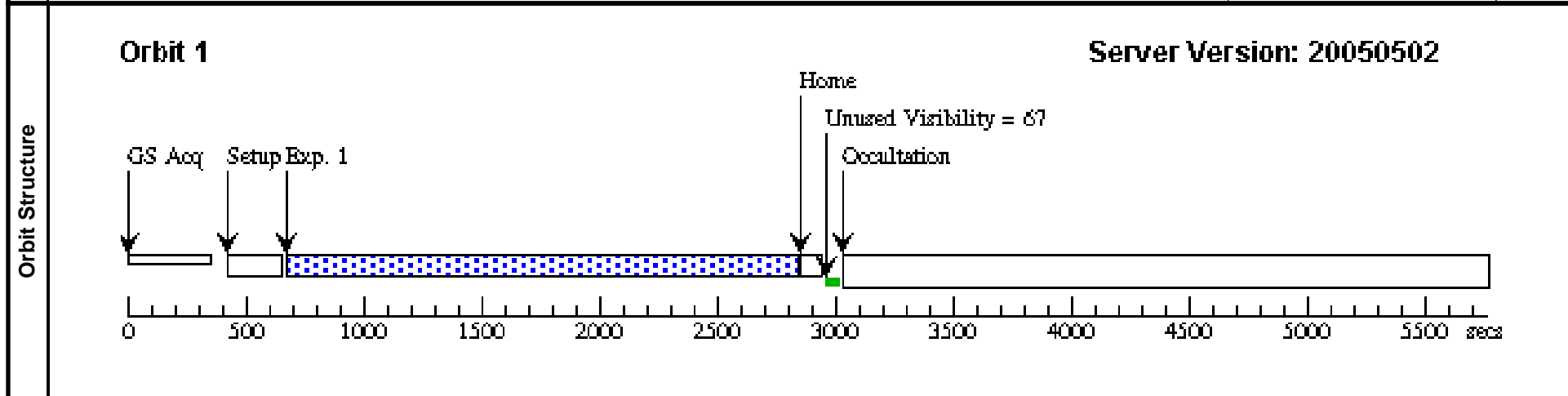
Mon Jun 20 16:37:45 GMT 2005

Visit	Proposal 10612, Visit 18				
	Priority: L				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(18)	MT292	RA: 20 32 37.0300 (308.1542917d)		V=13.08+/-0.02	Coordinate Source: GSC_SURVEY_PLATE
		Alt Name1: CygOB2-492	Dec: +41 23 5.10 (41.38475d)		B-V=1.51, B1V	
			Equinox: J2000 Plate Id: 00VV			

Comments: POSITION FROM MASSEY & THOMPSON (1991, AJ, 101, 1408).

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(18) MT292	FGS, TRANS, 1	F583W	SCANS=26; STEP-SIZE=0.5	POS TARG 0,0		1768.0 Secs [==>]	[1]



Proposal 10612 - Visit 19 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

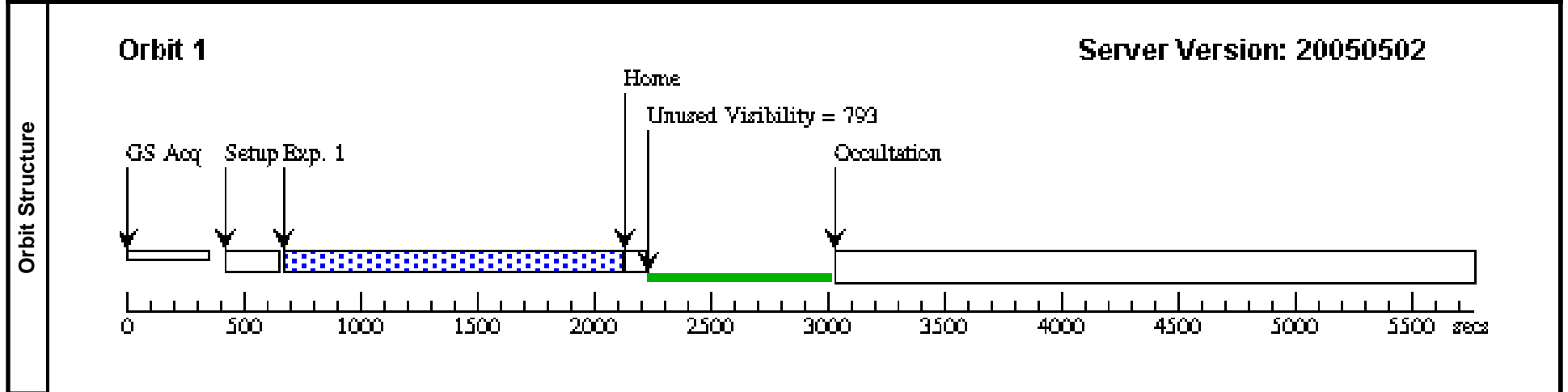
Mon Jun 20 16:37:45 GMT 2005

Visit	Proposal 10612, Visit 19				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(19)	MT299	RA: 20 32 38.5800 (308.1607500d)		V=10.84+/-0.02	Coordinate Source: GSC_SURVEY_PLATE
		Alt Name1: GSC03161-01029	Dec: +41 25 13.60 (41.42044d)		B-V=1.19,	
		Alt Name2: Schulte16	Equinox: J2000 Plate Id: 00VV		O7.5V	

Comments: POSITION FROM MASSEY & THOMPSON (1991, AJ, 101, 1408) SINCE GSC VALUE BLENDED WITH NEARBY STAR MT300.

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(19) MT299	FGS, TRANS, 1	F583W	SCANS=17; STEP-SIZE=0.5	POS TARG 0,0		1156.0 Secs [==>]	[1]



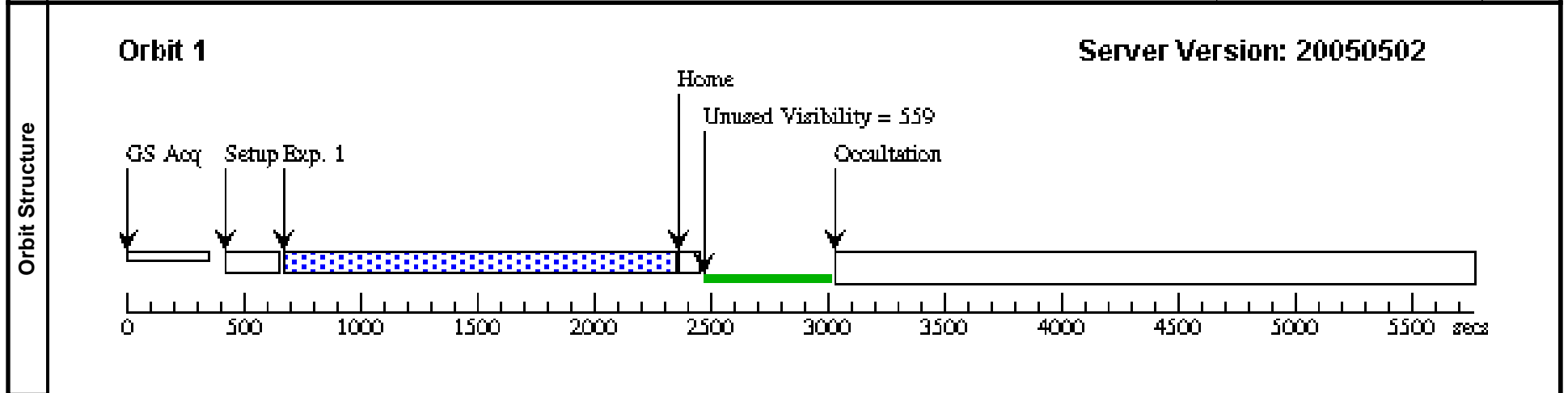
Proposal 10612 - Visit 20 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:46 GMT 2005

Visit	Proposal 10612, Visit 20				
	Priority: L				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(20)	A37	RA: 20 36 4.4700 (309.0186250d)		V=12.18+/-0.36	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03157-00493	Dec: +40 56 12.90 (40.93692d)		O5V((f))	
			Equinox: J2000			
			Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(20) A37	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs	
									[==>]	[1]



Proposal 10612 - Visit 21 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

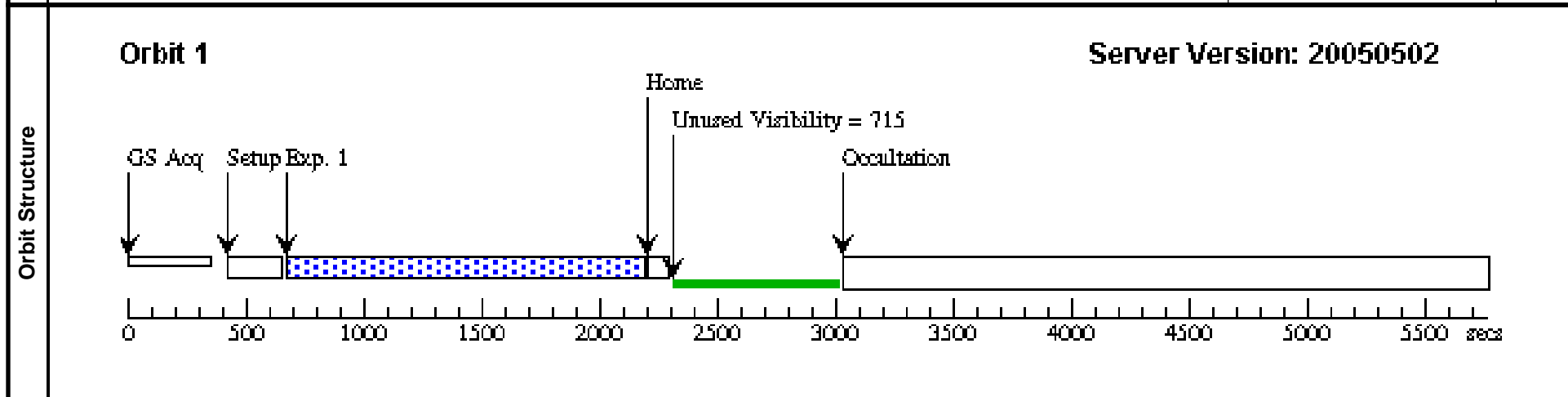
Mon Jun 20 16:37:47 GMT 2005

Visit	Proposal 10612, Visit 21				
	Priority: H				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(21)	MT304	RA: 20 32 40.8800 (308.1703333d)		V=11.46+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03157-00785	Dec: +41 14 29.30 (41.24147d)		B-V=3.35,	
		Alt Name2: Schulte12	Equinox: J2000		B5Ie	
			Plate Id: 00VV			

Comments: POSITION FROM MASSEY & THOMPSON (1991, AJ, 101, 1408) SINCE GSC VALUE POSSIBLY BLENDED WITH NEARBY STAR MT309.

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(21) MT304	FGS, TRANS, 1	F583W	SCANS=18;	POS TARG 0,0		1224.0 Secs	
						STEP-SIZE=0.5			[==>]	[1]



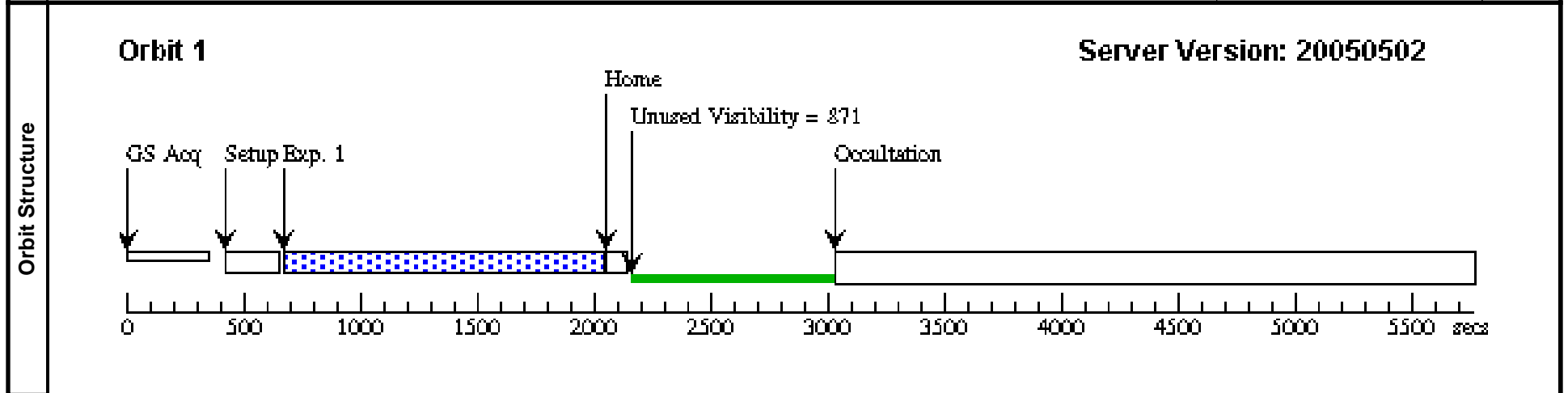
Proposal 10612 - Visit 22 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:47 GMT 2005

Visit	Proposal 10612, Visit 22				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(22)	MT317	RA: 20 32 45.4600 (308.1894167d)		V=10.68+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01168	Dec: +41 25 37.40 (41.42706d)		B-V=1.25,	
		Alt Name2: Schulte6	Equinox: J2000		O8V	
			Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(22) MT317	FGS, TRANS, 1	F583W	SCANS=16; STEP-SIZE=0.5	POS TARG 0,0		1088.0 Secs	
									[==>]	[1]



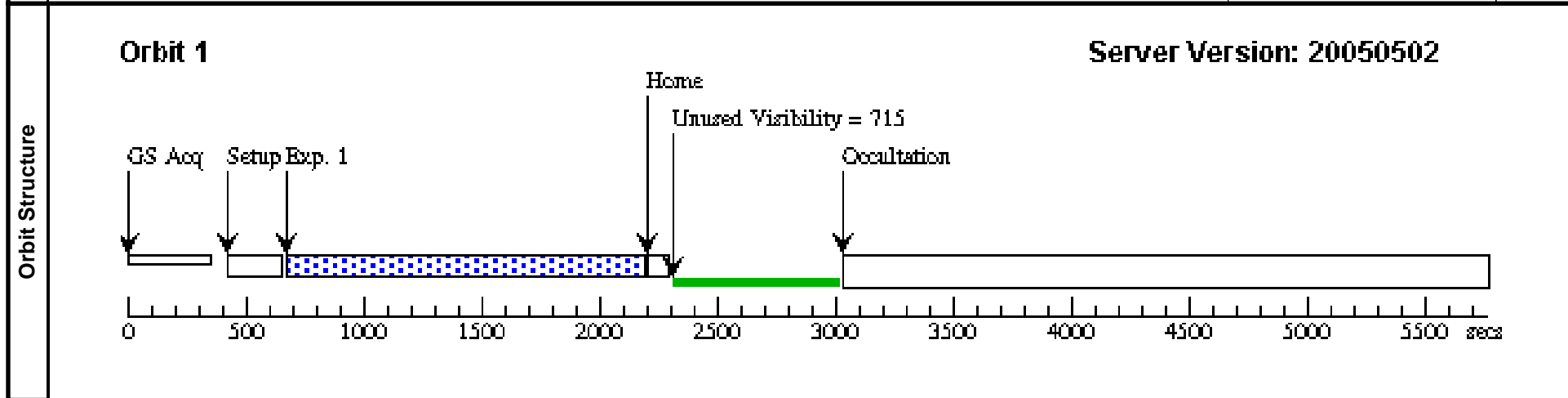
Proposal 10612 - Visit 23 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:48 GMT 2005

Visit	Proposal 10612, Visit 23				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(23)	MT339	RA: 20 32 50.0200 (308.2084167d)		V=11.6+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01136	Dec: +41 23 44.60 (41.39572d)		B-V=1.35,	
		Alt Name2: Schulte17	Equinox: J2000		O8.5V	
			Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(23) MT339	FGS, TRANS, 1	F583W	SCANS=18; STEP-SIZE=0.5	POS TARG 0,0		1224.0 Secs	
									[==>]	[1]



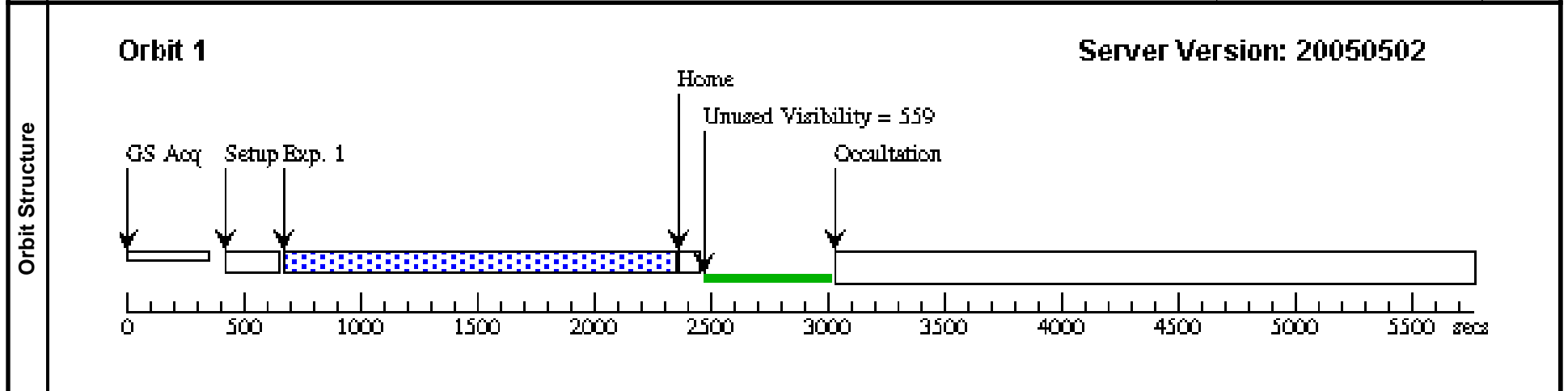
Proposal 10612 - Visit 24 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:48 GMT 2005

Visit	Proposal 10612, Visit 24				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(24)	MT376	RA: 20 32 59.1700 (308.2465417d)		V=11.91+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01218	Dec: +41 24 25.50 (41.40708d)		B-V=1.35,	
		Alt Name2: CygOB2-467	Equinox: J2000 Plate Id: 00VV		O8V	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(24) MT376	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs [==>]	[1]



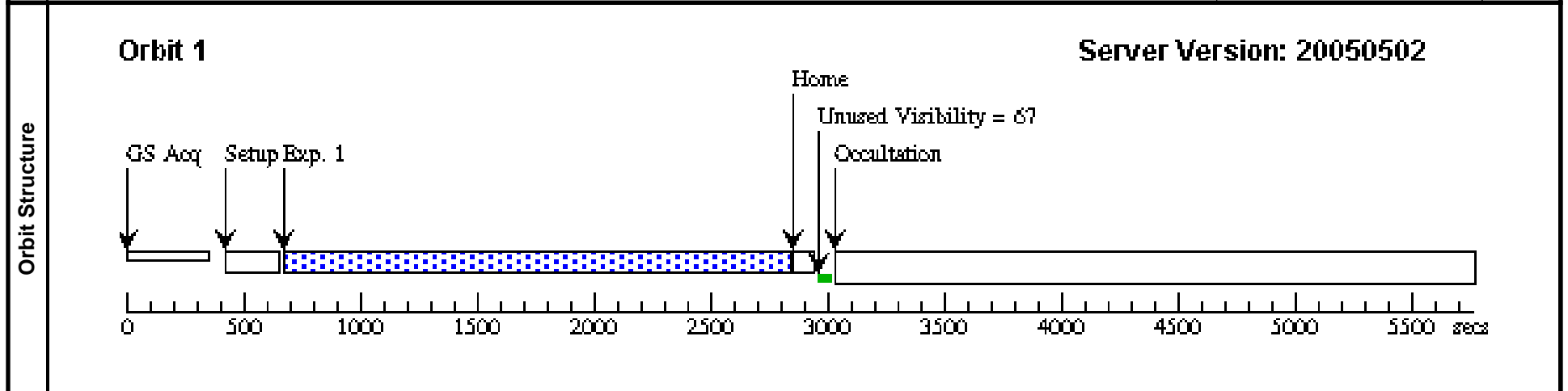
Proposal 10612 - Visit 25 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:49 GMT 2005

Visit	Proposal 10612, Visit 25				
	Priority: L				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(25)	MT378	RA: 20 32 59.6300 (308.2484583d)		V=13.49+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-00029	Dec: +41 15 14.60 (41.25406d)		B-V=2.10,	
		Alt Name2: CygOB2-661	Equinox: J2000		B0V	
			Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(25) MT378	FGS, TRANS, 1	F583W	SCANS=26; STEP-SIZE=0.5	POS TARG 0,0		1768.0 Secs	
									[==>]	[1]



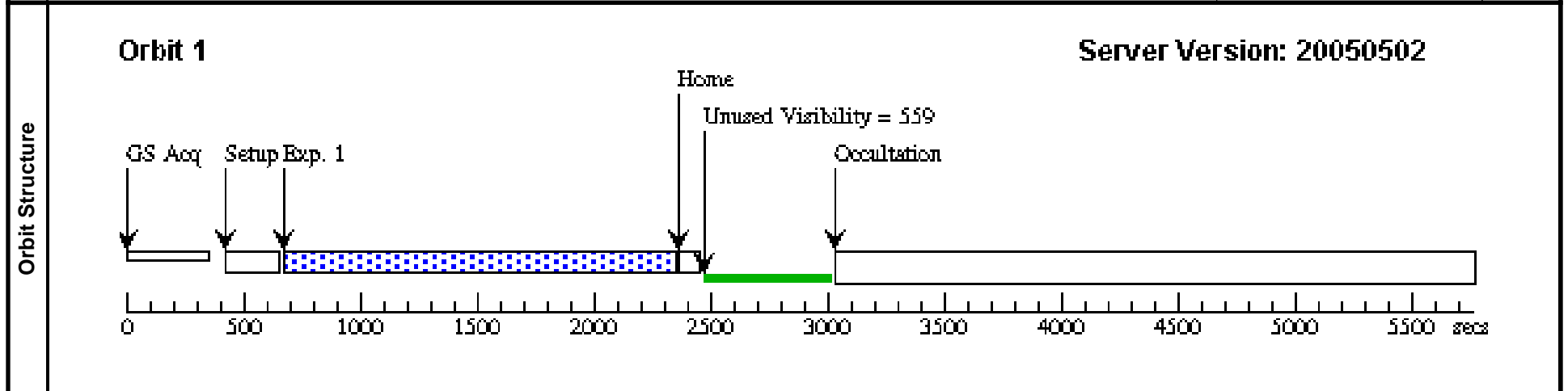
Proposal 10612 - Visit 26 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:50 GMT 2005

Visit	Proposal 10612, Visit 26				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(26)	MT390	RA: 20 33 2.9300 (308.2622083d)		V=12.95+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01365	Dec: +41 17 43.10 (41.29531d)		B-V=1.98,	
		Alt Name2: CygOB2-666	Equinox: J2000		O8V	
			Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(26) MT390	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs	
									[==>]	[1]



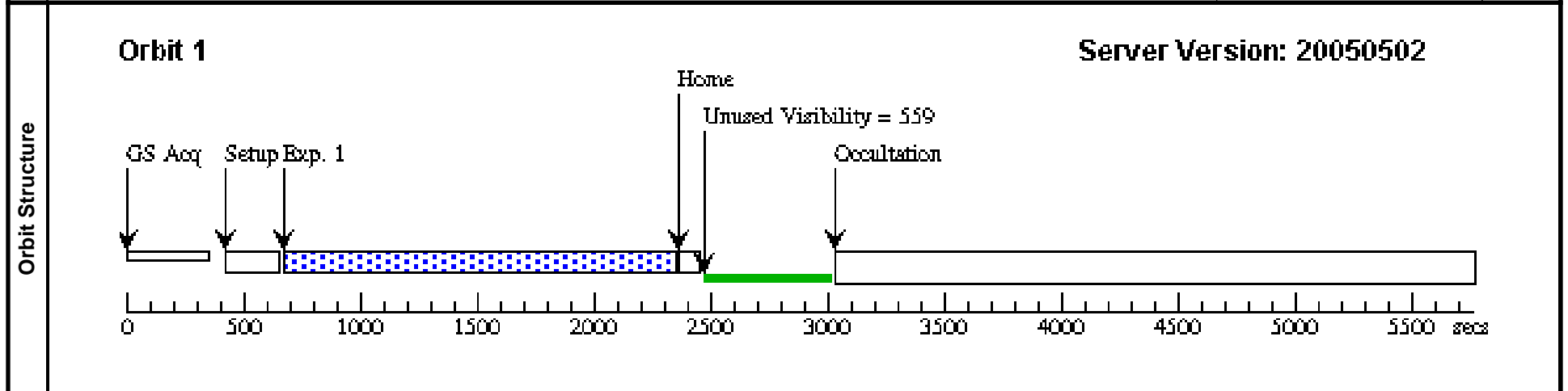
Proposal 10612 - Visit 27 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:50 GMT 2005

Visit	Proposal 10612, Visit 27				
	Priority: L				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(27)	MT403	RA: 20 33 5.2600 (308.2719167d)		V=12.94+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-00590	Dec: +41 43 36.50 (41.72681d)		B-V=1.49,	
		Alt Name2: CygOB2-107	Equinox: J2000		B1.5V	
			Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(27) MT403	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs	
									[==>]	[1]



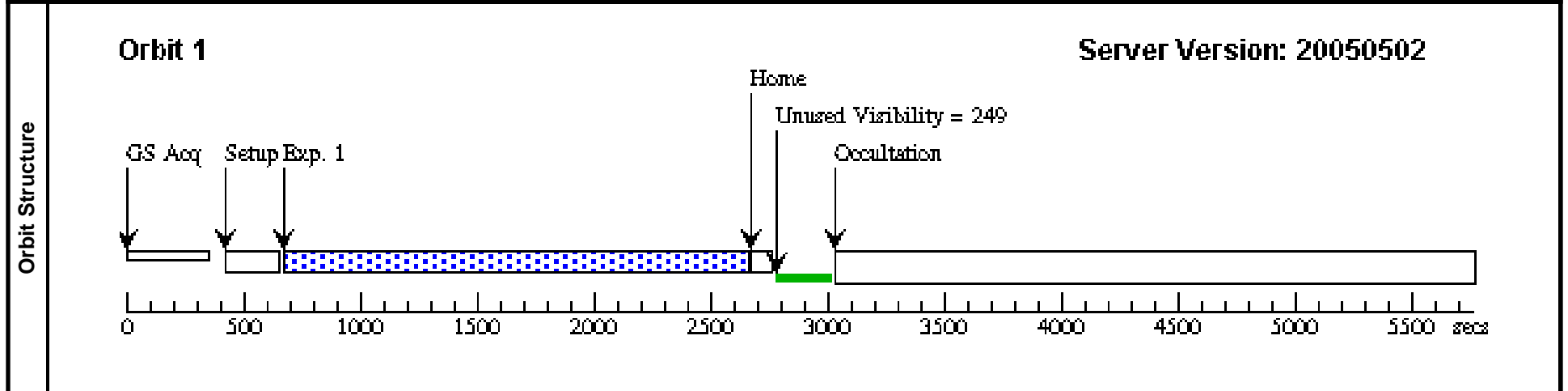
Proposal 10612 - Visit 28 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:51 GMT 2005

Visit	Proposal 10612, Visit 28				
	Priority: H				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(28)	MT417	RA: 20 33 8.8200 (308.2867500d)		V=11.55+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03157-00721	Dec: +41 13 18.00 (41.22167d)		B-V=2.04,	
		Alt Name2: Schulte22A	Equinox: J2000		O4III(f)	
			Plate Id: 00VV			
	<i>Comments: COMPONENT B IS 1.55 ARCSEC AWAY AT PA=150D, DELTA R=0.4 MAG.</i>					

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(28) MT417	FGS, TRANS, 1	F583W	SCANS=17;	POS TARG 0,0		1700.0 Secs	
						STEP-SIZE=0.5			[==>]	[1]
	<i>Comments: Long scan (2.0 arcsec) to include B component</i>									



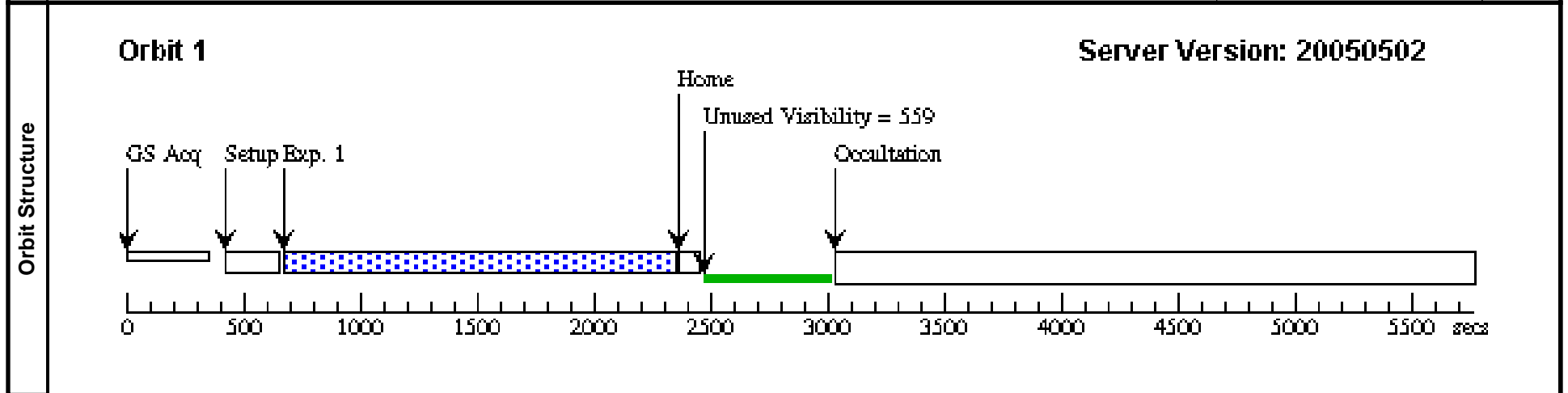
Proposal 10612 - Visit 29 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:52 GMT 2005

Visit	Proposal 10612, Visit 29				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(29)	A41	RA: 20 31 8.3700 (307.7848750d)		V=11.43+/-0.27	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-00732	Dec: +42 02 42.10 (42.04503d)		O9.5II	
			Equinox: J2000			
			Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(29) A41	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs	
									[==>]	[1]



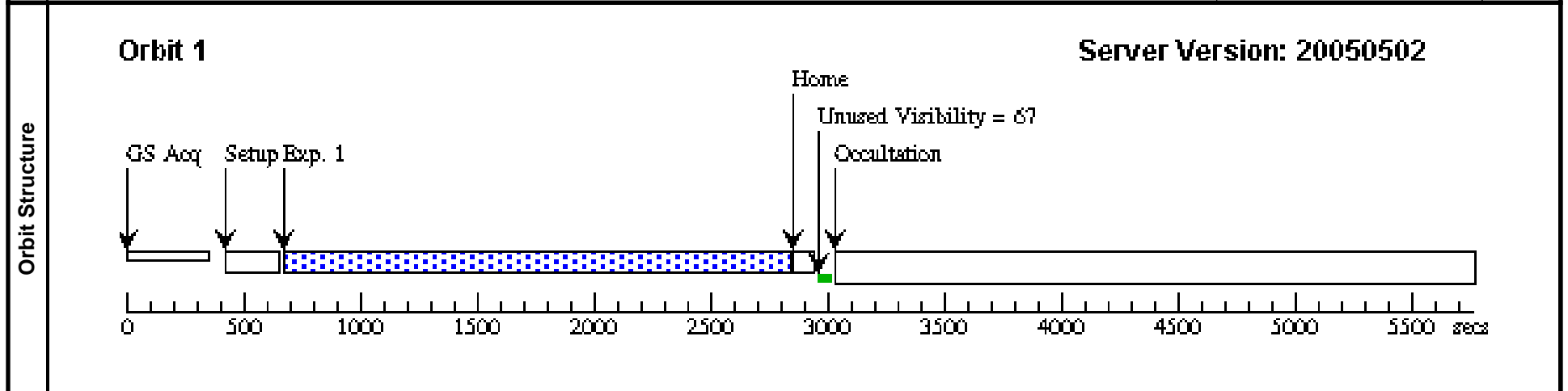
Proposal 10612 - Visit 30 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:52 GMT 2005

Visit	Proposal 10612, Visit 30				
	Priority: L				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(30)	MT425	RA: 20 33 10.1500 (308.2922917d)		V=13.62+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03157-00555	Dec: +41 13 9.50 (41.21931d)		B-V=1.94,	
		Alt Name2: Schulte51	Equinox: J2000 Plate Id: 00VV		B0V	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(30) MT425	FGS, TRANS, 1	F583W	SCANS=26; STEP-SIZE=0.5	POS TARG 0,0		1768.0 Secs [==>]	[1]



Proposal 10612 - Visit 31 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

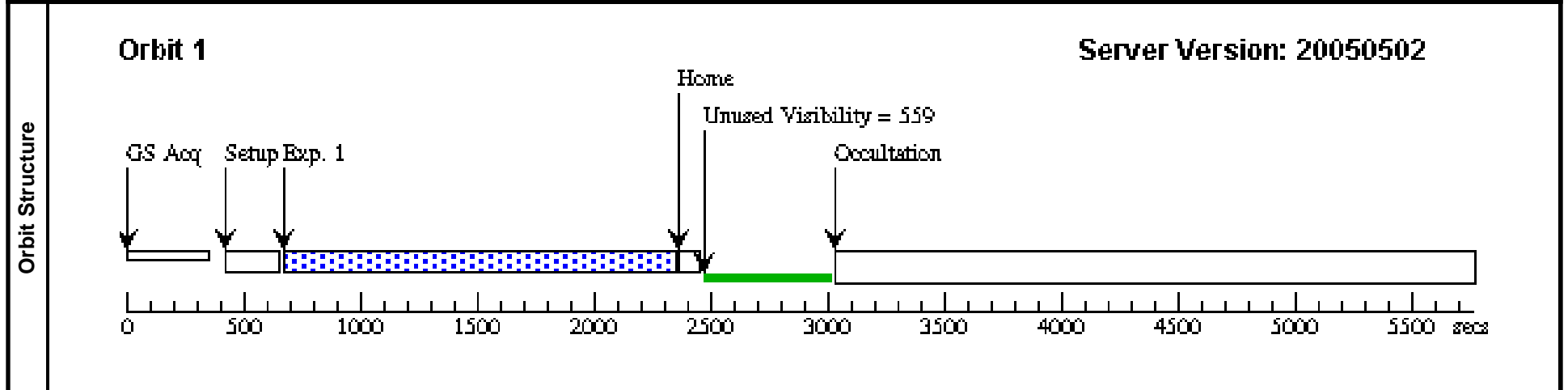
Mon Jun 20 16:37:53 GMT 2005

Visit	Proposal 10612, Visit 31				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(31)	MT429	RA: 20 33 10.5100 (308.2937917d)		V=12.98+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01142	Dec: +41 22 22.30 (41.37286d)		B-V=1.56,	
		Alt Name2: CygOB2-678	Equinox: J2000 Plate Id: 00VV		B0V	

Comments: V2186Cyg

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(31) MT429	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs [==>]	[1]



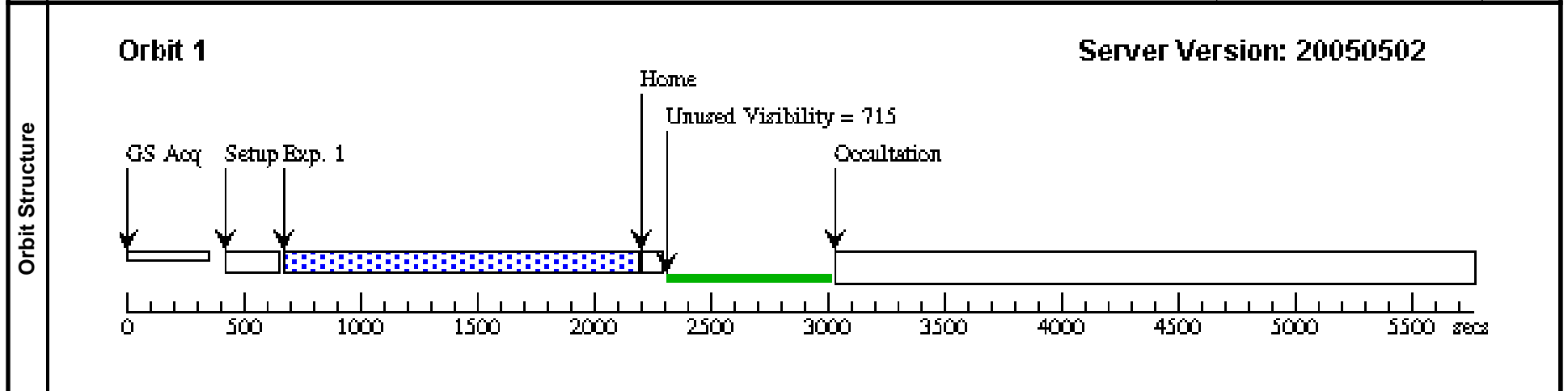
Proposal 10612 - Visit 32 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:54 GMT 2005

Visit	Proposal 10612, Visit 32				
	Priority: H				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(32)	MT431	RA: 20 33 10.7500 (308.2947917d)		V=10.96+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-00015	Dec: +41 15 8.20 (41.25228d)		B-V=1.81,	
		Alt Name2: Schulte9	Equinox: J2000 Plate Id: 00VV		O5If	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(32) MT431	FGS, TRANS, 1	F583W	SCANS=18; STEP-SIZE=0.5	POS TARG 0,0		1224.0 Secs [==>]	[1]



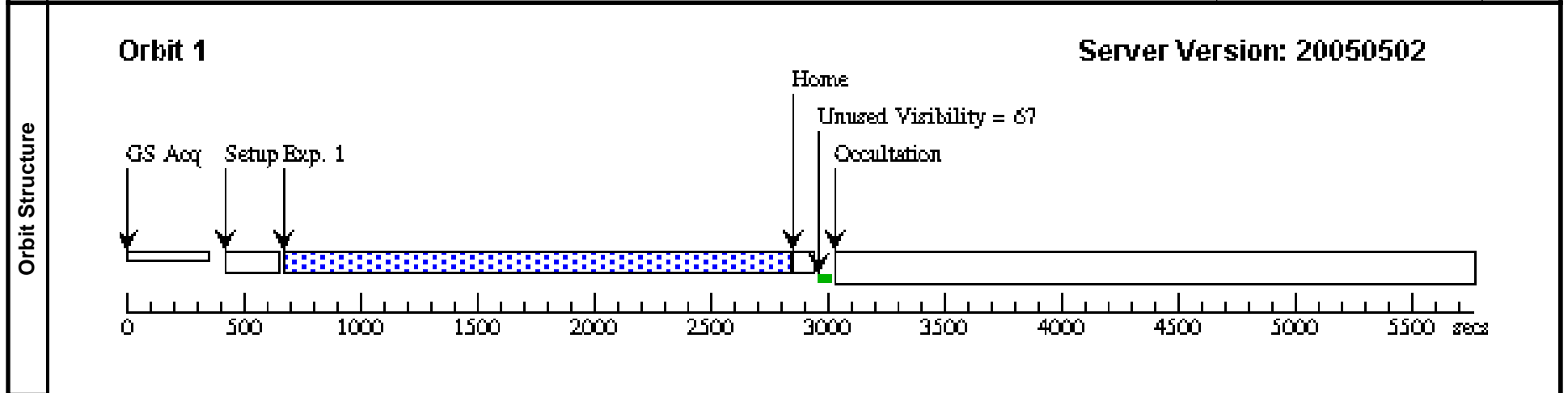
Proposal 10612 - Visit 33 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:54 GMT 2005

Visit	Proposal 10612, Visit 33				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(33)	MT448	RA: 20 33 13.2700 (308.3052917d)		V=13.61+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03157-00531	Dec: +41 13 28.40 (41.22456d)		B-V=2.15,	
		Alt Name2: CygOB2-853	Equinox: J2000 Plate Id: 00VV		O6V((f))	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(33) MT448	FGS, TRANS, 1	F583W	SCANS=26; STEP-SIZE=0.5	POS TARG 0,0		1768.0 Secs [==>]	[1]



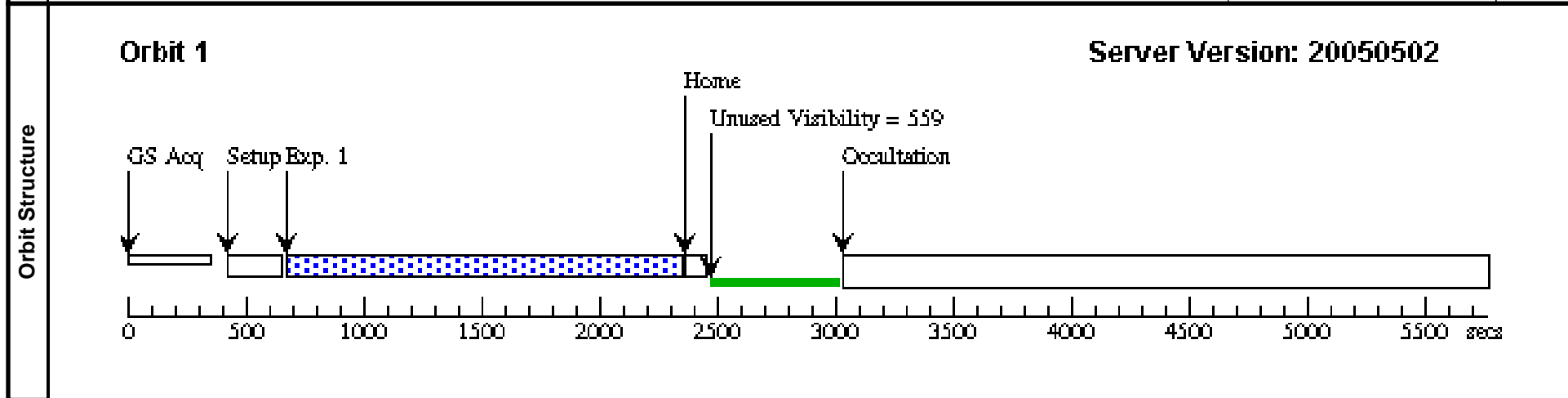
Proposal 10612 - Visit 34 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:55 GMT 2005

Visit	Proposal 10612, Visit 34				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(34)	MT455	RA: 20 33 13.6800 (308.3070000d)		V=12.92+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03157-00872	Dec: +41 13 5.60 (41.21822d)		B-V=1.81,	
		Alt Name2: CygOB2-852	Equinox: J2000 Plate Id: 00VV		O8V	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(34) MT455	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs [==>]	[1]



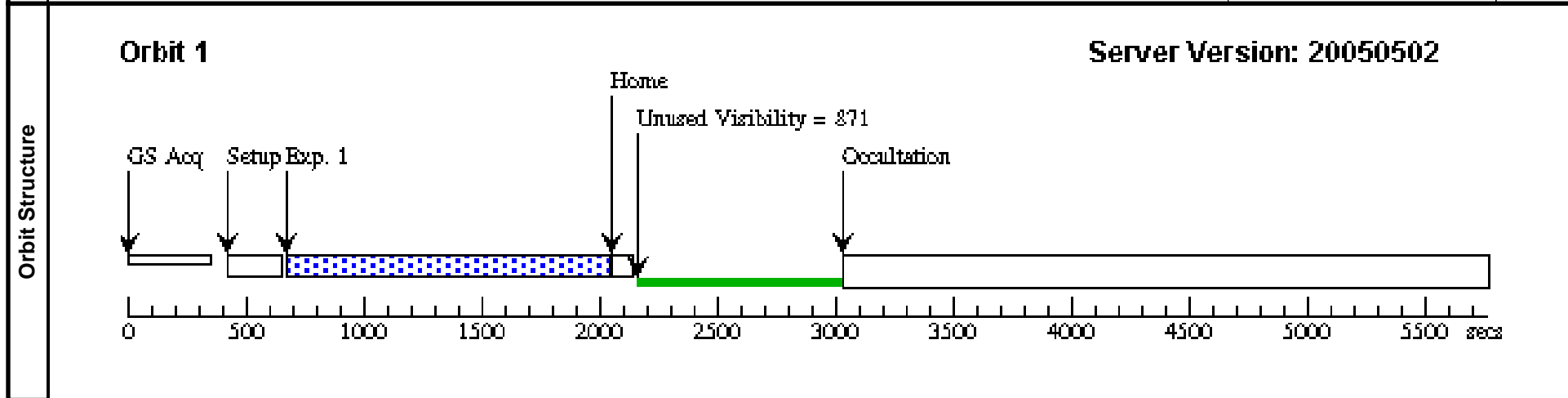
Proposal 10612 - Visit 35 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:56 GMT 2005

Visit	Proposal 10612, Visit 35				
	Priority: H				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(35)	MT457	RA: 20 33 14.1100 (308.3087917d)		V=10.55+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01335	Dec: +41 20 22.00 (41.33944d)		B-V=1.45,	
		Alt Name2: Schulte7	Equinox: J2000		O3If	
			Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(35) MT457	FGS, TRANS, 1	F583W	SCANS=16; STEP-SIZE=0.5	POS TARG 0,0		1088.0 Secs	
									[==>]	[1]



Proposal 10612 - Visit 36 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

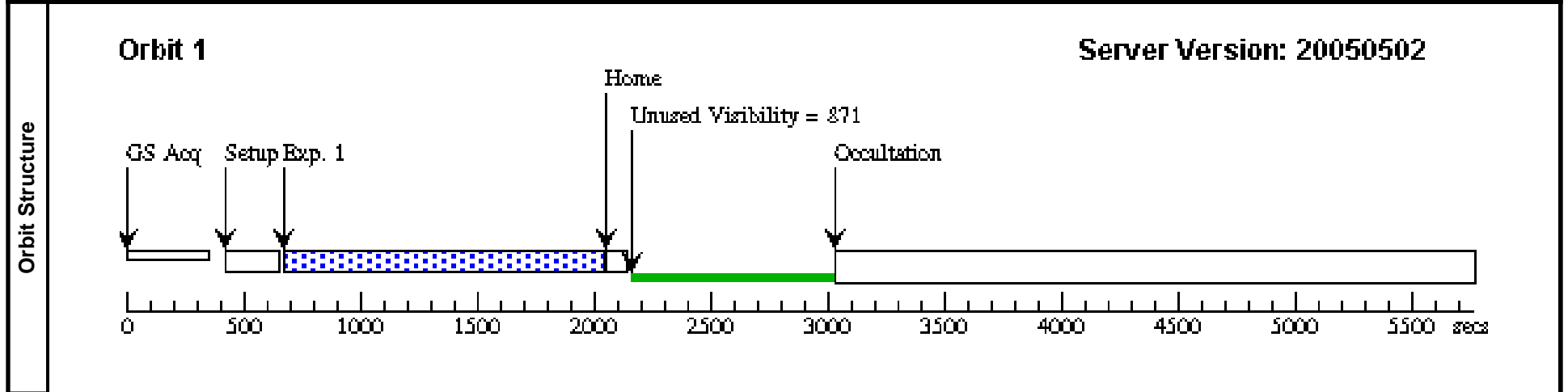
Mon Jun 20 16:37:57 GMT 2005

Visit	Proposal 10612, Visit 36				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(36)	MT462	RA: 20 33 14.8400 (308.3118333d)		V=10.33+/-0.02	Coordinate Source: GSC_SURVEY_PLATE
		Alt Name1: Schulte8B	Dec: +41 18 41.40 (41.31150d)		B-V=1.44, O6.5III(f)	
			Equinox: J2000 Plate Id: 00VV			

Comments: POSITION FROM MASSEY & THOMPSON (1991, AJ, 101, 1408) SINCE GSC VALUE IS BLENDED WITH NEARBY STAR MT465.

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(36) MT462	FGS, TRANS, 1	F583W	SCANS=16; STEP-SIZE=0.5	POS TARG 0,0		1088.0 Secs [==>]	[1]



Proposal 10612 - Visit 37 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

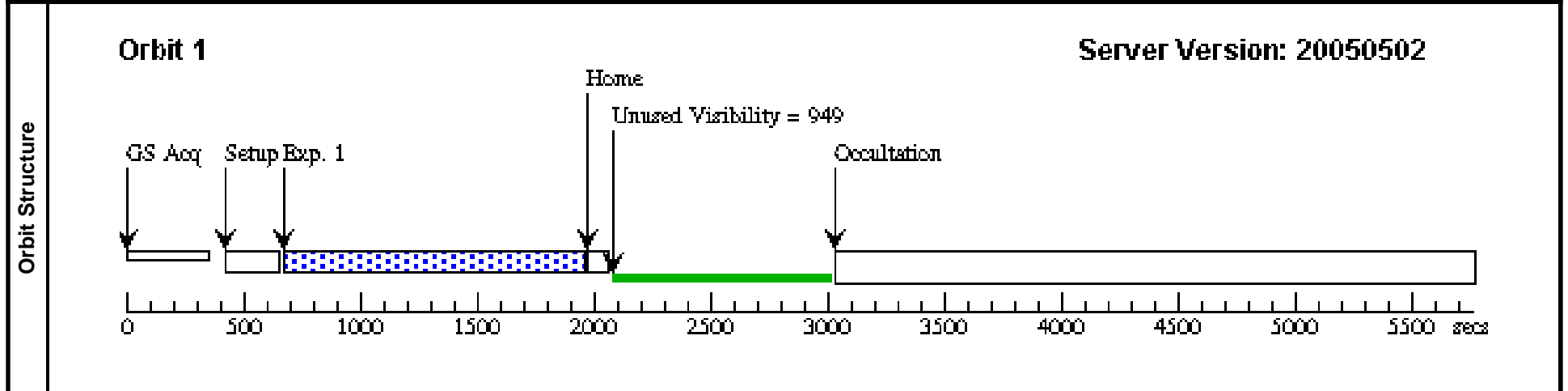
Mon Jun 20 16:37:58 GMT 2005

Visit	Proposal 10612, Visit 37				
	Priority: H				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(37)	MT465	RA: 20 33 15.1800 (308.3132500d)		V=9.06+/-0.02	Coordinate Source: GSC_SURVEY_PLATE
		Alt Name1: Schulte8A	Dec: +41 18 50.10 (41.31392d)		B-V=1.30,	
		Alt Name2: BD+40D4227	Equinox: J2000 Plate Id: 00VV		O5.5I(f)	

Comments: POSITION FROM MASSEY & THOMPSON (1991, AJ, 101, 1408) SINCE GSC VALUE IS BLENDED WITH NEARBY STAR MT462.

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(37) MT465	FGS, TRANS, 1	F583W	SCANS=15; STEP-SIZE=0.5	POS TARG 0,0		1020.0 Secs [==>]	[1]



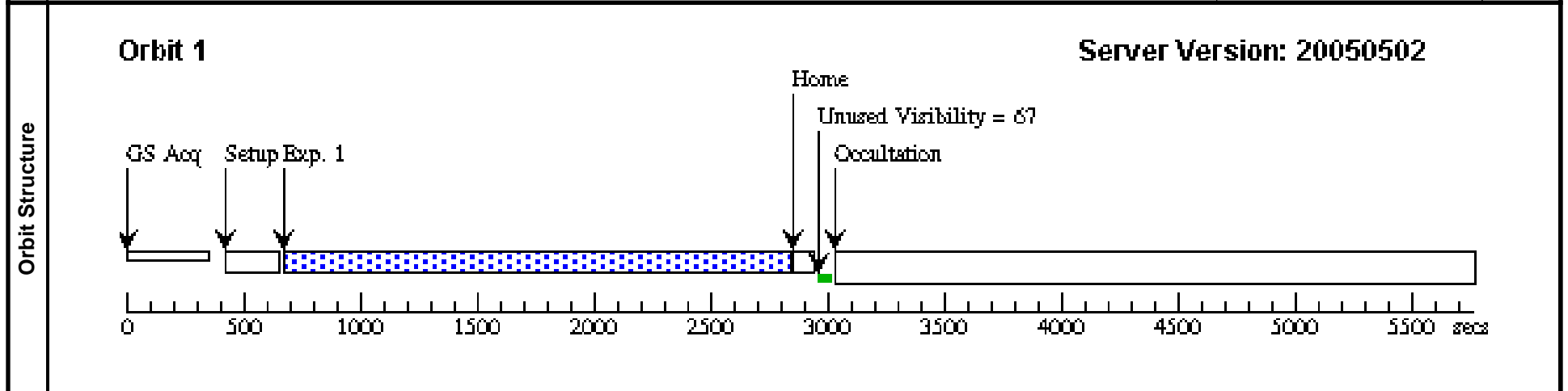
Proposal 10612 - Visit 38 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:58 GMT 2005

Visit	Proposal 10612, Visit 38				
	Priority: L				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(38)	MT467	RA: 20 33 15.3300 (308.3138750d)		V=13.43+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01087	Dec: +41 29 56.40 (41.49900d)		B-V=1.59,	
		Alt Name2: CygOB2-446	Equinox: J2000		B1V	
			Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(38) MT467	FGS, TRANS, 1	F583W	SCANS=26; STEP-SIZE=0.5	POS TARG 0,0		1768.0 Secs	
									[==>]	[1]



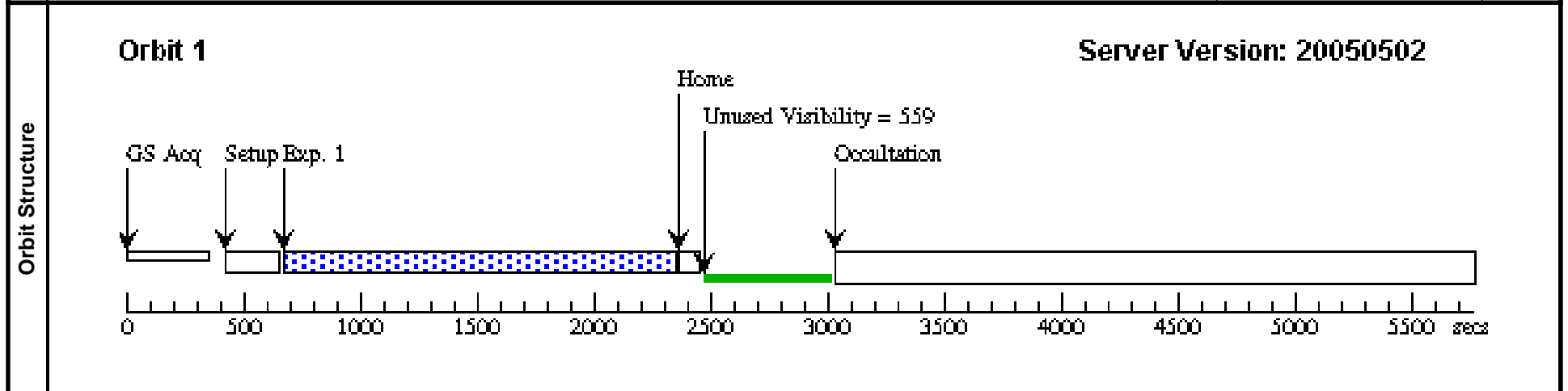
Proposal 10612 - Visit 39 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:37:59 GMT 2005

Visit	Proposal 10612, Visit 39				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(39)	MT470	RA: 20 33 15.7000 (308.3154167d)		V=12.5+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01216	Dec: +41 20 17.30 (41.33814d)		B-V=1.46,	
		Alt Name2: Schulte23	Equinox: J2000 Plate Id: 00VV		O9.5V	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(39) MT470	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs [==>]	[1]



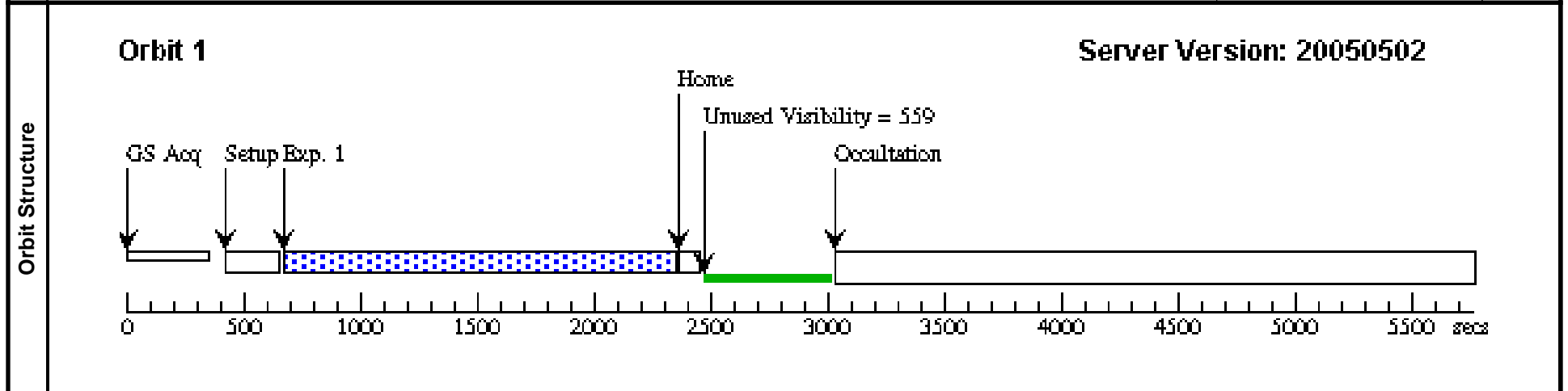
Proposal 10612 - Visit 40 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:00 GMT 2005

Visit	Proposal 10612, Visit 40				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(40)	MT473	RA: 20 33 16.3200 (308.3180000d)		V=12.02+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01390	Dec: +41 19 1.60 (41.31711d)		B-V=1.45,	
		Alt Name2: Schulte8D	Equinox: J2000 Plate Id: 00VV		O8.5V	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(40) MT473	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs [==>]	[1]



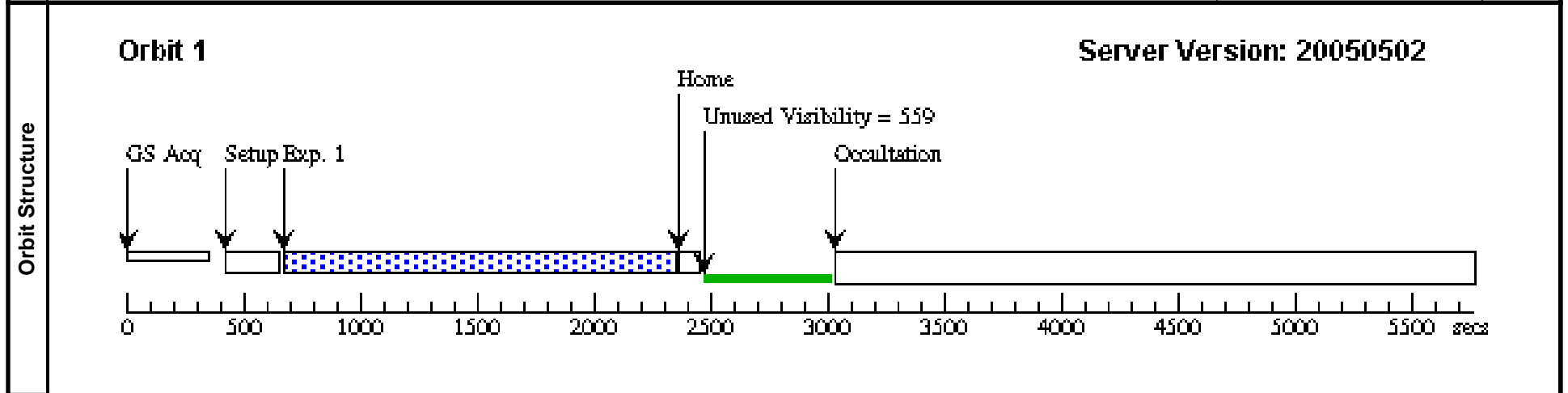
Proposal 10612 - Visit 41 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:00 GMT 2005

Visit	Proposal 10612, Visit 41				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(41)	MT480	RA: 20 33 17.4800 (308.3228333d)		V=11.88+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01415	Dec: +41 17 9.30 (41.28592d)		B-V=1.59,	
		Alt Name2: Schulte24	Equinox: J2000		O7.5V	
			Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(41) MT480	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs	
									[==>]	[1]



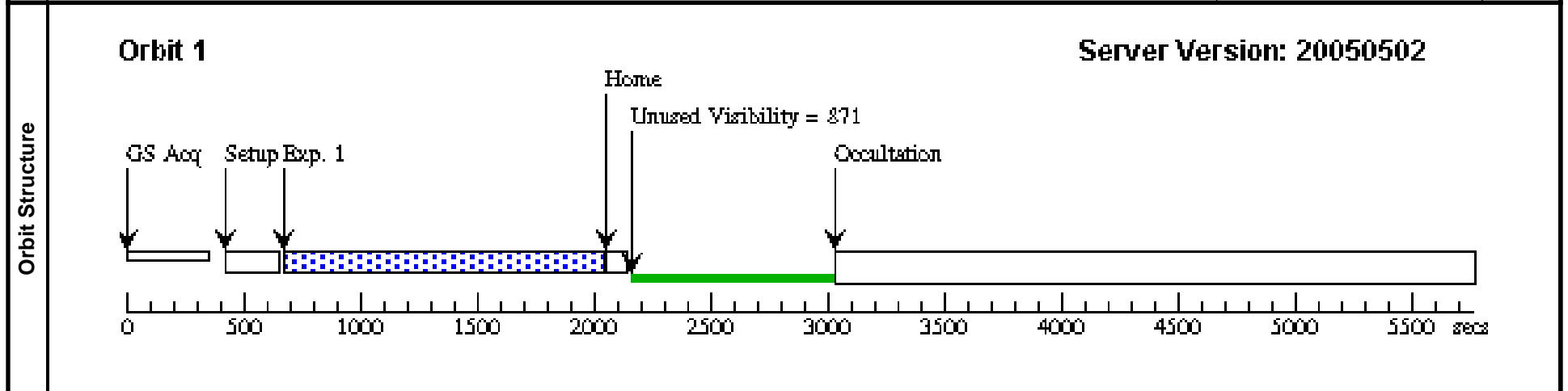
Proposal 10612 - Visit 42 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:01 GMT 2005

Visit	Proposal 10612, Visit 42				
	Priority: H				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(42)	MT483	RA: 20 33 17.9800 (308.3249167d)		V=10.19+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01340	Dec: +41 18 30.90 (41.30858d)		B-V=1.24,	
		Alt Name2: Schulte8C	Equinox: J2000		O5If	
			Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(42) MT483	FGS, TRANS, 1	F583W	SCANS=16; STEP-SIZE=0.5	POS TARG 0,0		1088.0 Secs	
									[==>]	[1]



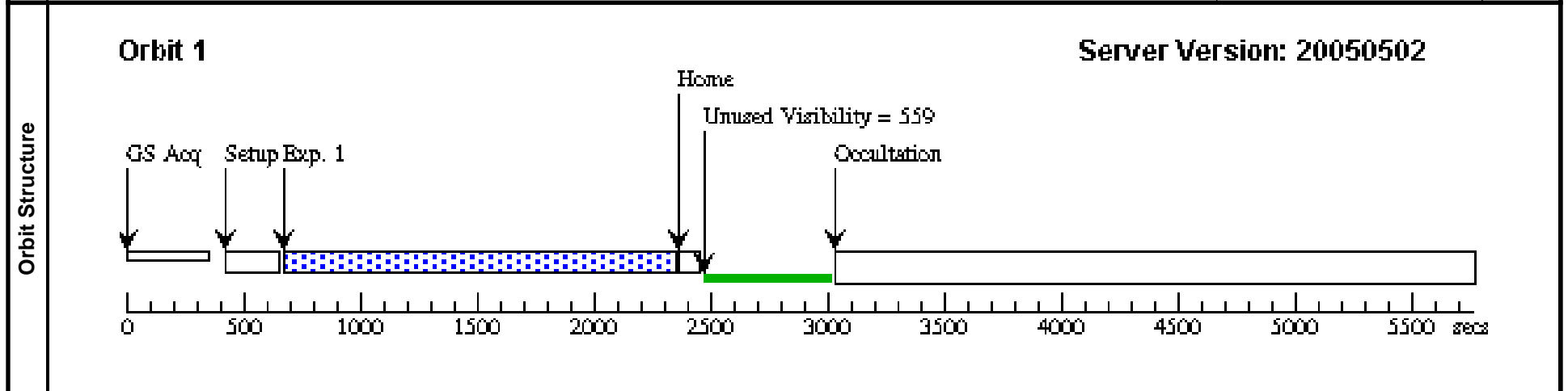
Proposal 10612 - Visit 43 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:02 GMT 2005

Visit	Proposal 10612, Visit 43				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(43)	MT485	RA: 20 33 18.0200 (308.3250833d)		V=12.06+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01174	Dec: +41 21 36.40 (41.36011d)		B-V=1.51,	
		Alt Name2: CygOB2-680	Equinox: J2000 Plate Id: 00VV		O8V	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(43) MT485	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs [==>]	[1]



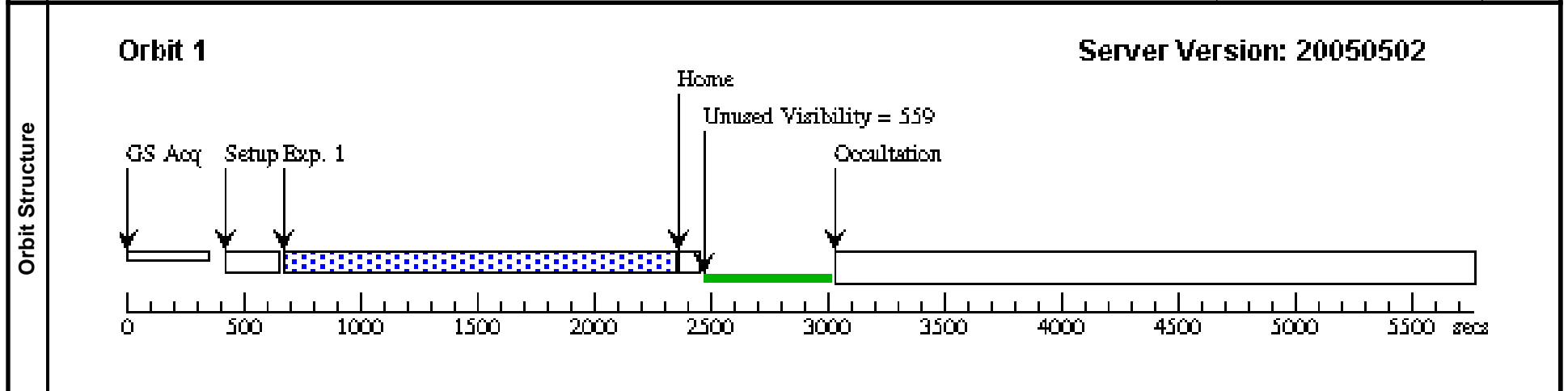
Proposal 10612 - Visit 44 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:02 GMT 2005

Visit	Proposal 10612, Visit 44				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(44)	MT507	RA: 20 33 21.0300 (308.3376250d)		V=12.7+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01385	Dec: +41 17 40.30 (41.29453d)		B-V=1.54,	
		Alt Name2: CygOB2-710	Equinox: J2000 Plate Id: 00VV		O8.5V	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(44) MT507	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs [==>]	[1]



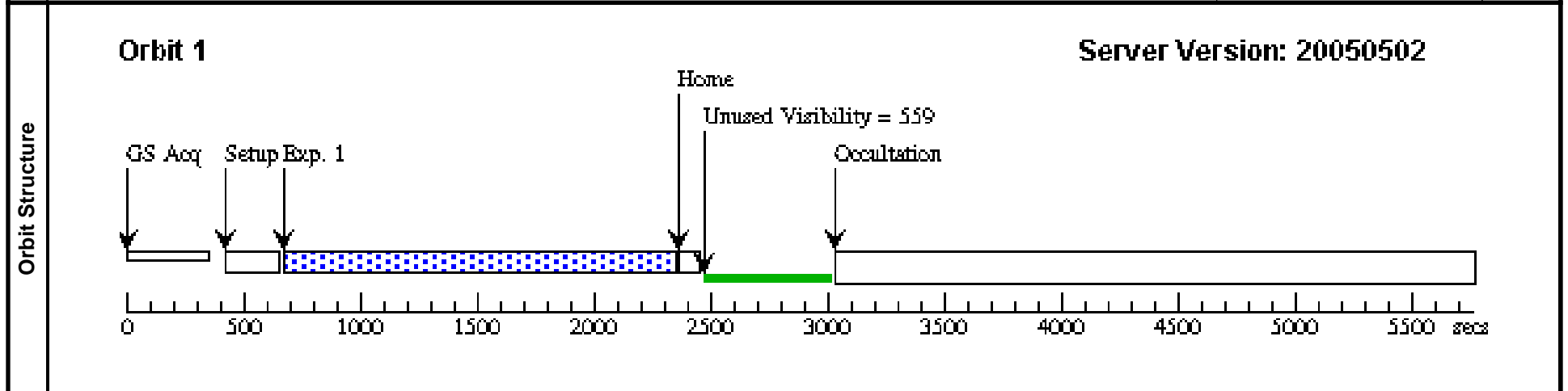
Proposal 10612 - Visit 45 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:03 GMT 2005

Visit	Proposal 10612, Visit 45				
	Priority: H				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(45)	MT516	RA: 20 33 23.4600 (308.3477500d)		V=11.84+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03157-00485	Dec: +41 09 13.00 (41.15361d)		B-V=2.20,	
		Alt Name2: CygOB2-841	Equinox: J2000 Plate Id: 00VV		O5.5V((f))	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(45) MT516	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs	
									[==>]	[1]



Proposal 10612 - Visit 46 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

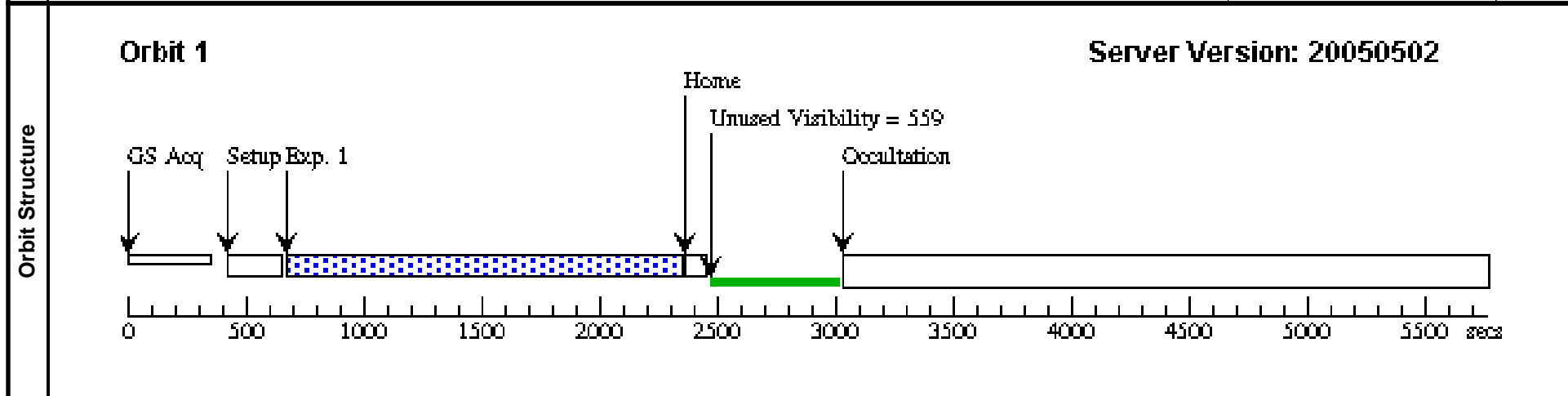
Mon Jun 20 16:38:03 GMT 2005

Visit	Proposal 10612, Visit 46				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(46)	MT531	RA: 20 33 25.6700 (308.3569583d)		V=11.58+/-0.02	Coordinate Source: GSC_SURVEY_PLATE
		Alt Name1: GSC03161-01067	Dec: +41 33 26.60 (41.55739d)		B-V=1.57,	
		Alt Name2: Schulte25	Equinox: J2000 Plate Id: 00VV		O8.5V	

Comments: POSITION FROM MASSEY & THOMPSON (1991, AJ, 101, 1408) SINCE GSC VALUE IS PROBABLY BLENDED WITH NEARBY STAR CYGOB2-25.

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(46) MT531	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs [==>]	[1]



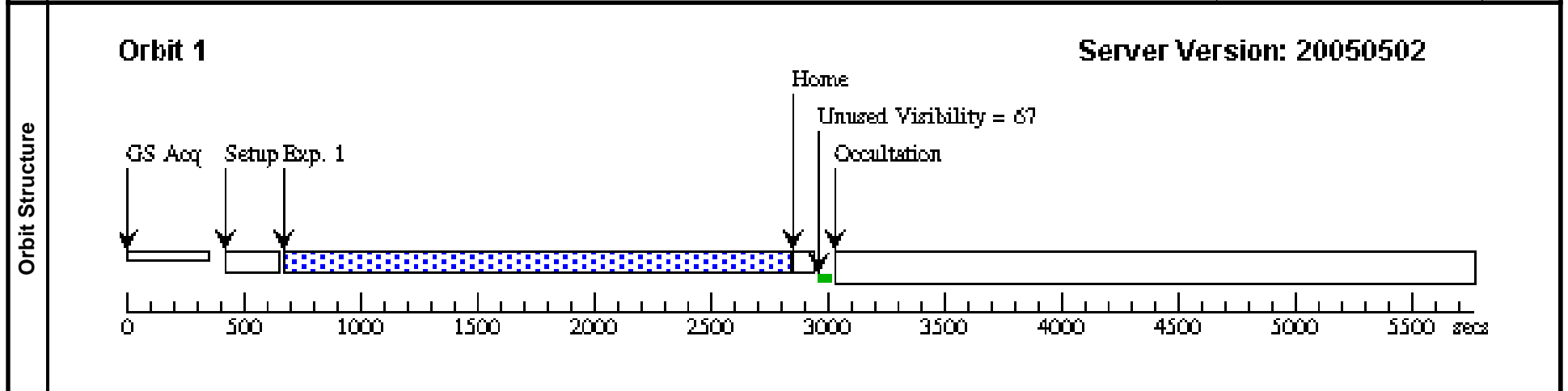
Proposal 10612 - Visit 47 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:04 GMT 2005

Visit	Proposal 10612, Visit 47				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(47)	MT534	RA: 20 33 26.7600 (308.3615000d)		V=13.0+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03157-00327	Dec: +41 10 59.30 (41.18314d)		B-V=1.87,	
		Alt Name2: CygOB2-840	Equinox: J2000		O7.5V	
			Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(47) MT534	FGS, TRANS, 1	F583W	SCANS=26; STEP-SIZE=0.5	POS TARG 0,0		1768.0 Secs [==>]	[1]



Proposal 10612 - Visit 48 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:05 GMT 2005

Visit	Proposal 10612, Visit 48 Priority: M Diagnostic Status: No Diagnostics Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
(48)		MT555	RA: 20 33 30.3100 (308.3762917d) Dec: +41 35 57.60 (41.59933d)		V=12.51+/-0.02 B-V=1.90, O8V	Coordinate Source: GUIDE_STAR_CATALOG				
	Alt Name1: GSC03161-01092 Alt Name2: Schulte74 Equinox: J2000 Plate Id: 00VV Comments: IMAGE SLIGHTLY ELONGATED IN EAST-WEST DIRECTION IN DSS. MT POSITION IS 20 33 30.43 +41 35 57.5									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	(48) MT555		FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs [==>]	[1]
Orbit Structure	Orbit 1 Server Version: 20050502									
	<p>The diagram shows a timeline for Orbit 1. Key events are marked with arrows: GS Acq at ~100s, Setup Exp. 1 at ~400s, Home at ~2400s, and Occultation at ~3100s. A blue checkered bar represents the observation period from approximately 600s to 2400s. A green bar represents the exposure period from approximately 2400s to 3000s. The text 'Unused Visibility = 559' is shown above the timeline. The x-axis is labeled 'secs' and ranges from 0 to 5500 with major ticks every 500 units.</p>									

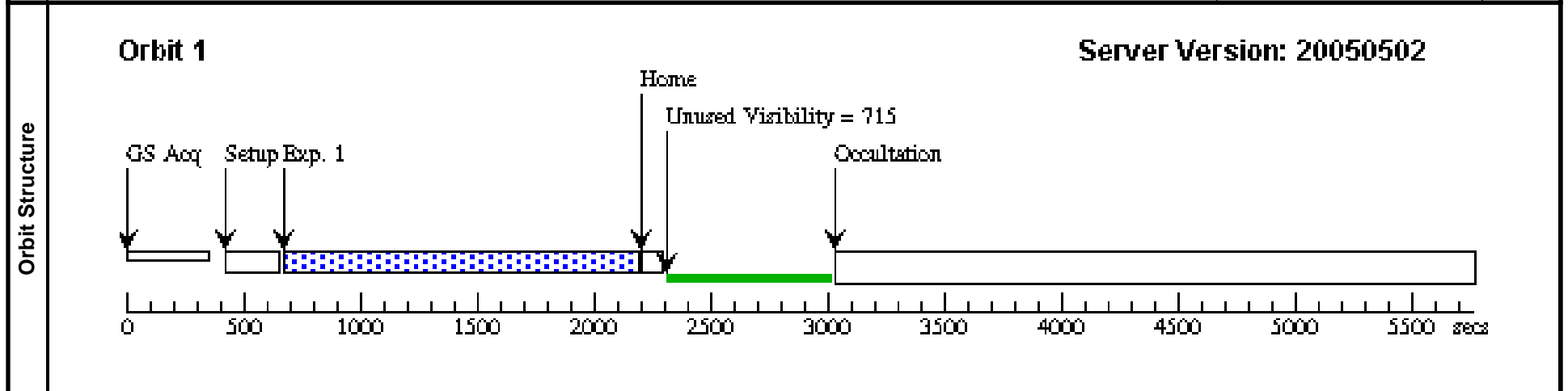
Proposal 10612 - Visit 49 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:05 GMT 2005

Visit	Proposal 10612, Visit 49				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(49)	MT556	RA: 20 33 30.7900 (308.3782917d)		V=11.01+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-00027	Dec: +41 15 22.70 (41.25631d)		B-V=1.77,	
		Alt Name2: Schulte18	Equinox: J2000 Plate Id: 00VV		B11b	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(49) MT556	FGS, TRANS, 1	F583W	SCANS=18; STEP-SIZE=0.5	POS TARG 0,0		1224.0 Secs [==>]	[1]



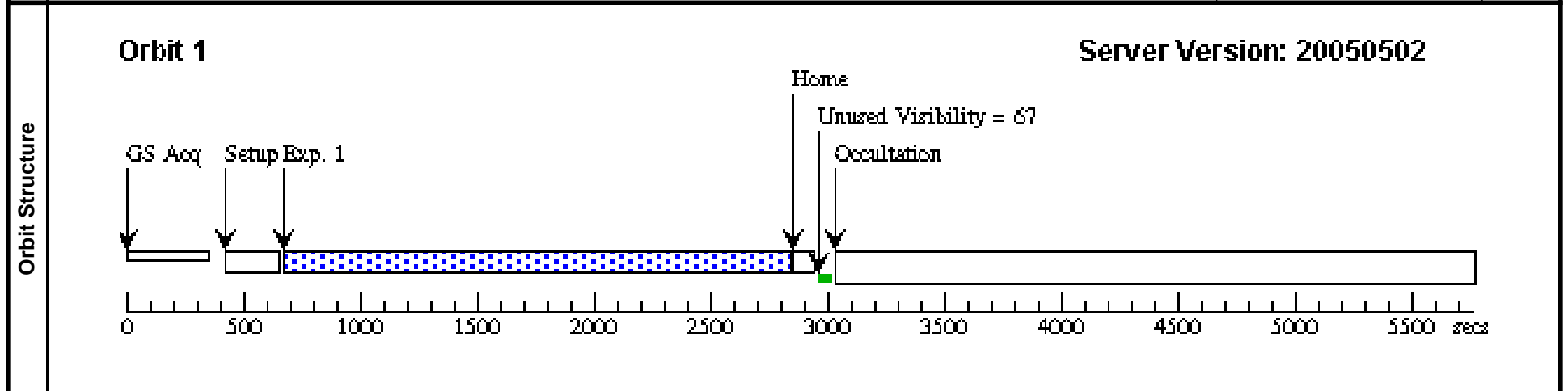
Proposal 10612 - Visit 50 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:06 GMT 2005

Visit	Proposal 10612, Visit 50				
	Priority: L				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(50)	MT575	RA: 20 33 34.3300 (308.3930417d)		V=13.41+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01358	Dec: +41 18 11.20 (41.30311d)		B-V=1.77,	
		Alt Name2: CygOB2-708	Equinox: J2000 Plate Id: 00VV		B1.5V	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(50) MT575	FGS, TRANS, 1	F583W	SCANS=26; STEP-SIZE=0.5	POS TARG 0,0		1768.0 Secs [==>]	[1]



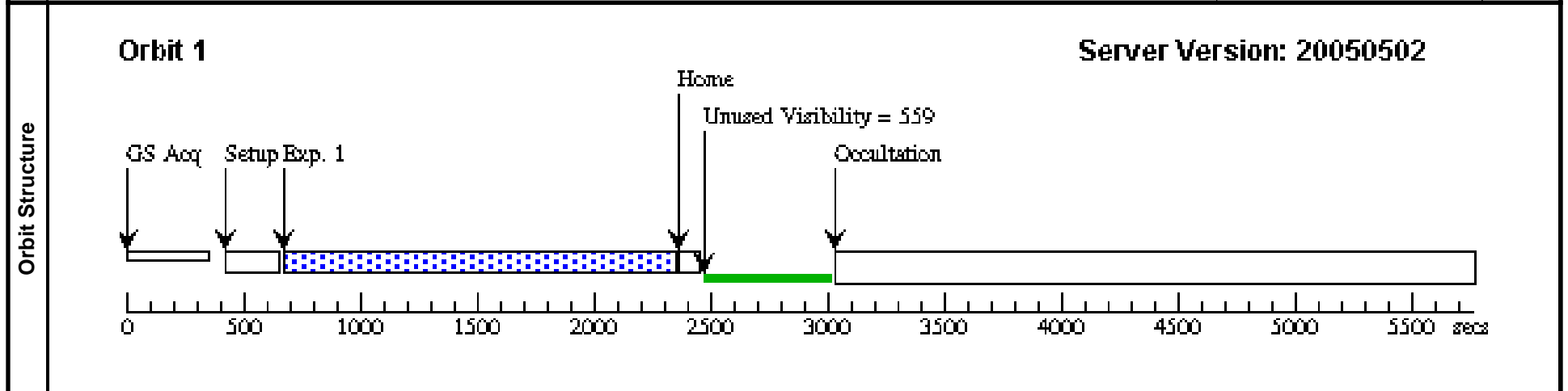
Proposal 10612 - Visit 51 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:07 GMT 2005

Visit	Proposal 10612, Visit 51				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(51)	MT588	RA: 20 33 36.9900 (308.4041250d)		V=12.4+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01434	Dec: +41 16 11.20 (41.26978d)		B-V=1.66,	
		Alt Name2: Schulte70	Equinox: J2000 Plate Id: 00VV		B0V	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(51) MT588	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs [==>]	[1]



Proposal 10612 - Visit 52 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:07 GMT 2005

Visit	Proposal 10612, Visit 52 Priority: H Diagnostic Status: No Diagnostics Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
(52)		MT601	RA: 20 33 39.1400 (308.4130833d) Dec: +41 19 26.10 (41.32392d)		V=11.07+/-0.02 B-V=1.47, O9.5III	Coordinate Source: GSC_SURVEY_PLATE				
	Alt Name1: GSC03161-01360 Alt Name2: Schulte19 Equinox: J2000 Plate Id: 00VV Comments: VI393Cyg. POSITION FROM MASSEY & THOMPSON (1991, AJ, 101, 1408) SINCE GSC VALUE IS PROBABLY BLENDED WITH NEARBY STAR MT599.									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(52) MT601	FGS, TRANS, 1	F583W	SCANS=18; STEP-SIZE=0.5	POS TARG 0,0		1224.0 Secs [==>]	[1]
Orbit Structure	<p>Orbit 1 Server Version: 20050502</p> <p>The diagram shows a horizontal timeline from 0 to 5500 seconds. Key events are marked with arrows: 'GS Acq' at ~100s, 'Setup Exp. 1' at ~400s, 'Home' at ~2200s, and 'Occultation' at ~3000s. A blue checkered bar represents the exposure period from ~600s to ~2200s. A green bar represents the observation period from ~2200s to ~3000s. The text 'Unused Visibility = 715' is shown above the timeline.</p>									

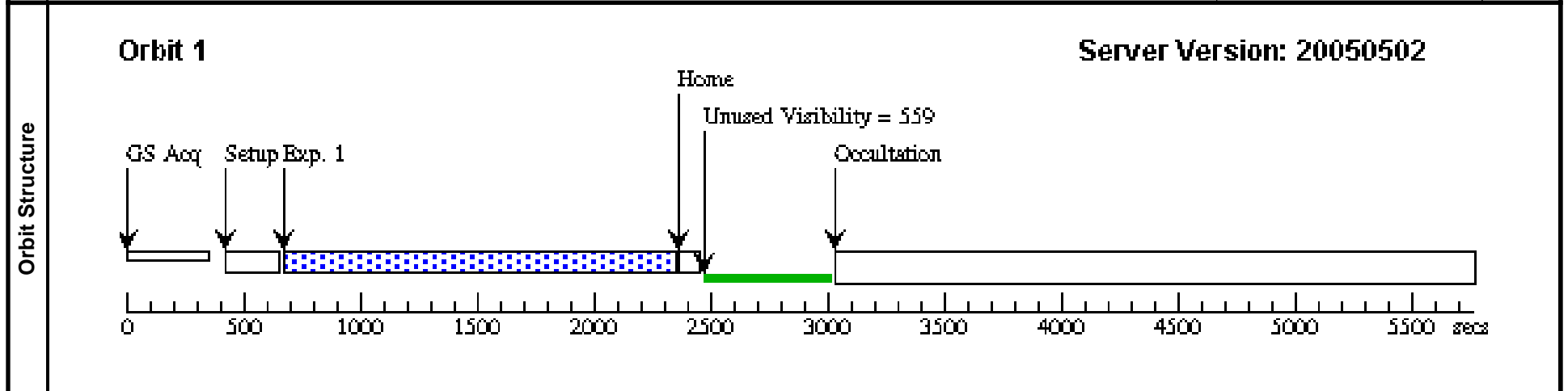
Proposal 10612 - Visit 53 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:08 GMT 2005

Visit	Proposal 10612, Visit 53				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(53)	MT605	RA: 20 33 39.8000 (308.4158333d)		V=11.78+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01135	Dec: +41 22 52.20 (41.38117d)		B-V=1.19,	
		Alt Name2: CygOB2-426	Equinox: J2000 Plate Id: 00VV		B0.5V	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(53) MT605	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs [==>]	[1]



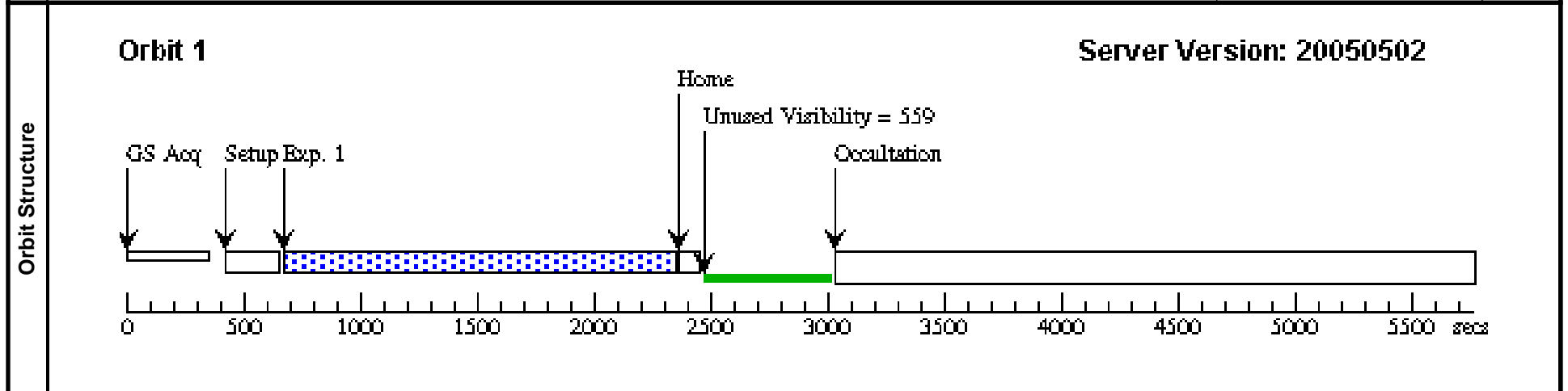
Proposal 10612 - Visit 54 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:09 GMT 2005

Visit	Proposal 10612, Visit 54				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(54)	MT611	RA: 20 33 40.8500 (308.4202083d)		V=12.77+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01086	Dec: +41 30 19.10 (41.50531d)		B-V=1.55,	
		Alt Name2: CygOB2-413	Equinox: J2000 Plate Id: 00VV		O7Vp	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(54) MT611	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs [==>]	[1]



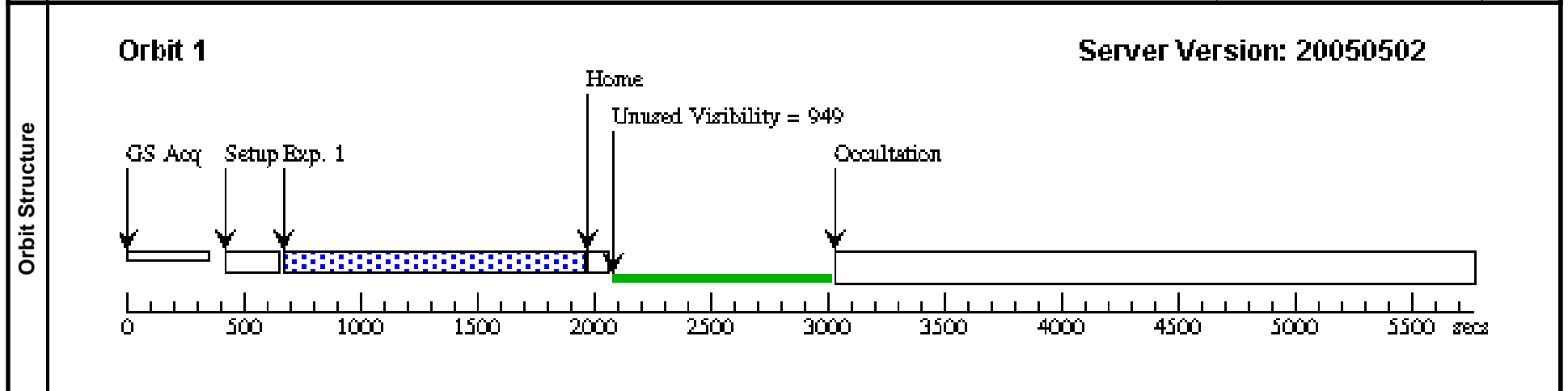
Proposal 10612 - Visit 55 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:09 GMT 2005

Visit	Proposal 10612, Visit 55				
	Priority: H				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(55)	MT632	RA: 20 33 46.1100 (308.4421250d)		V=9.88+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01084	Dec: +41 33 1.00 (41.55028d)		B-V=1.59,	
		Alt Name2: Schulte10	Equinox: J2000		O9.5I	
			Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(55) MT632	FGS, TRANS, 1	F583W	SCANS=15; STEP-SIZE=0.5	POS TARG 0,0		1020.0 Secs	
									[==>]	[1]



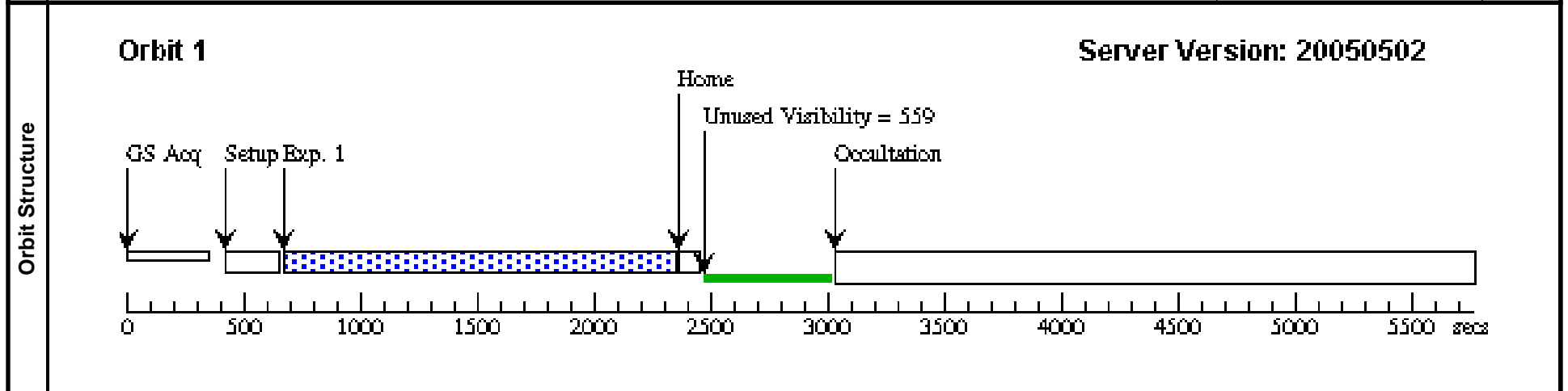
Proposal 10612 - Visit 56 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:10 GMT 2005

Visit	Proposal 10612, Visit 56				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(56)	MT642	RA: 20 33 47.8200 (308.4492500d)		V=11.78+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01347	Dec: +41 20 41.50 (41.34486d)		B-V=1.55,	
		Alt Name2: Schulte26	Equinox: J2000 Plate Id: 00VV		B1III/Ib	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(56) MT642	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs [==>]	[1]



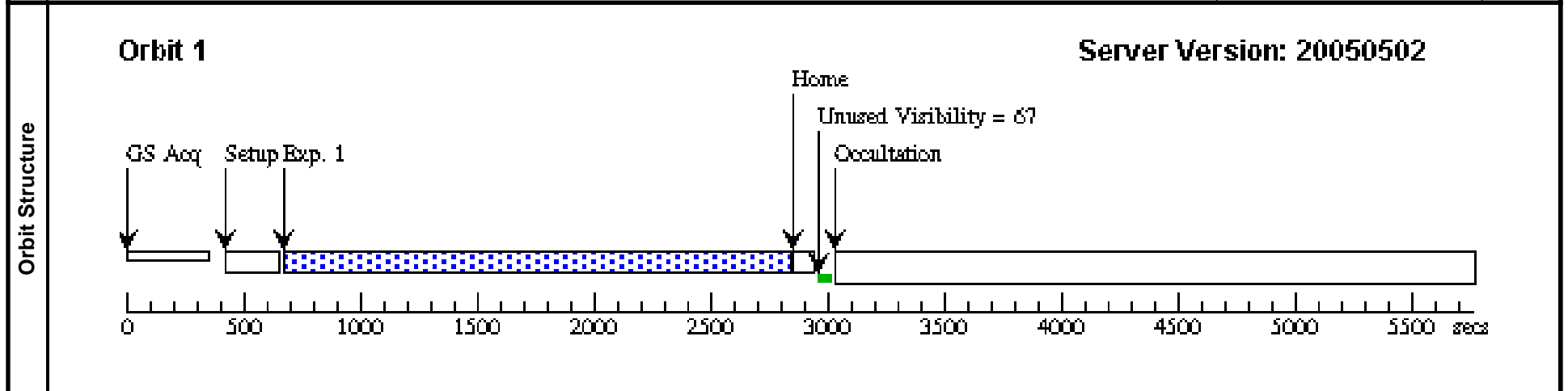
Proposal 10612 - Visit 57 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:10 GMT 2005

Visit	Proposal 10612, Visit 57				
	Priority: L				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(57)	MT692	RA: 20 33 59.2600 (308.4969167d)		V=13.61+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03157-00193	Dec: +41 05 38.30 (41.09397d)		B-V=1.69,	
		Alt Name2: CygOB2-1074	Equinox: J2000		B0:V	
			Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(57) MT692	FGS, TRANS, 1	F583W	SCANS=26; STEP-SIZE=0.5	POS TARG 0,0		1768.0 Secs	
									[==>]	[1]



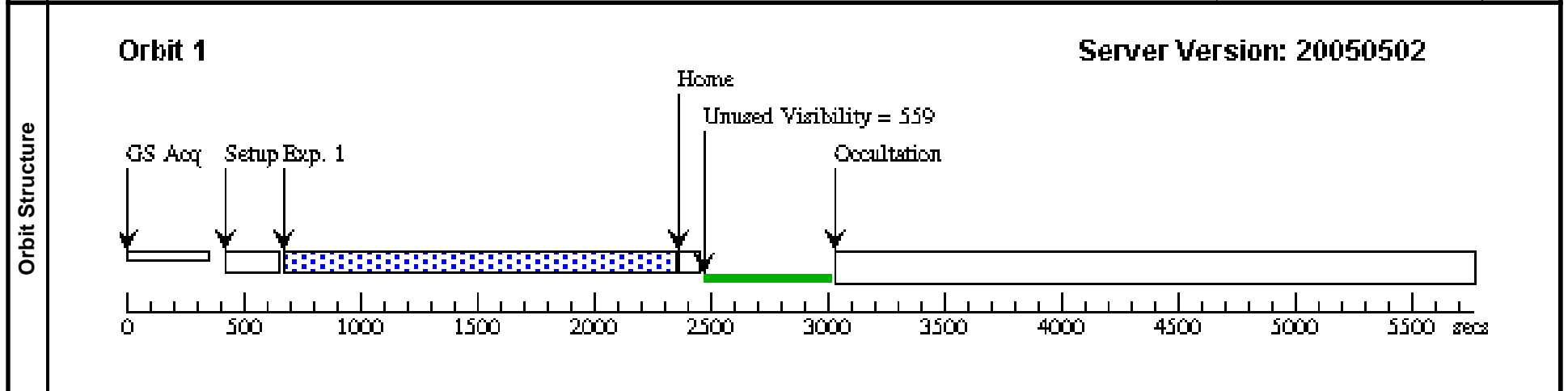
Proposal 10612 - Visit 58 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:11 GMT 2005

Visit	Proposal 10612, Visit 58				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(58)	MT696	RA: 20 33 59.5300 (308.4980417d)		V=12.32+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01408	Dec: +41 17 35.60 (41.29322d)		B-V=1.65,	
			Equinox: J2000		O9.5V	
		Alt Name2: Schulte27	Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(58) MT696	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs	
									[==>]	[1]



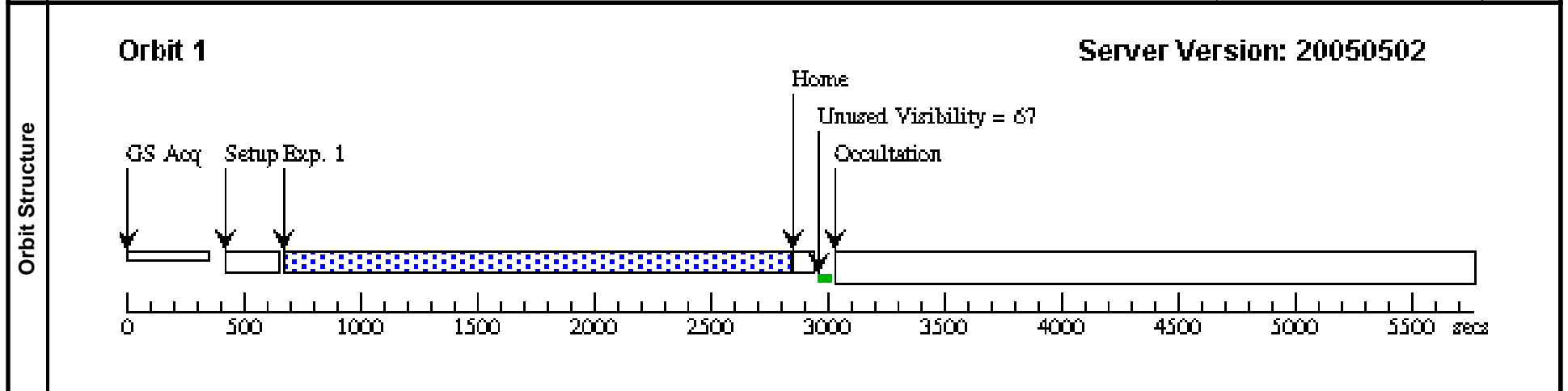
Proposal 10612 - Visit 59 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:12 GMT 2005

Visit	Proposal 10612, Visit 59				
	Priority: L				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(59)	MT716	RA: 20 34 4.8500 (308.5202083d)		V=13.5+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03157-00727	Dec: +41 05 12.80 (41.08689d)		B-V=1.84,	
		Alt Name2: CygOB2-1076	Equinox: J2000		O9V	
			Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(59) MT716	FGS, TRANS, 1	F583W	SCANS=26; STEP-SIZE=0.5	POS TARG 0,0		1768.0 Secs	
									[==>]	[1]



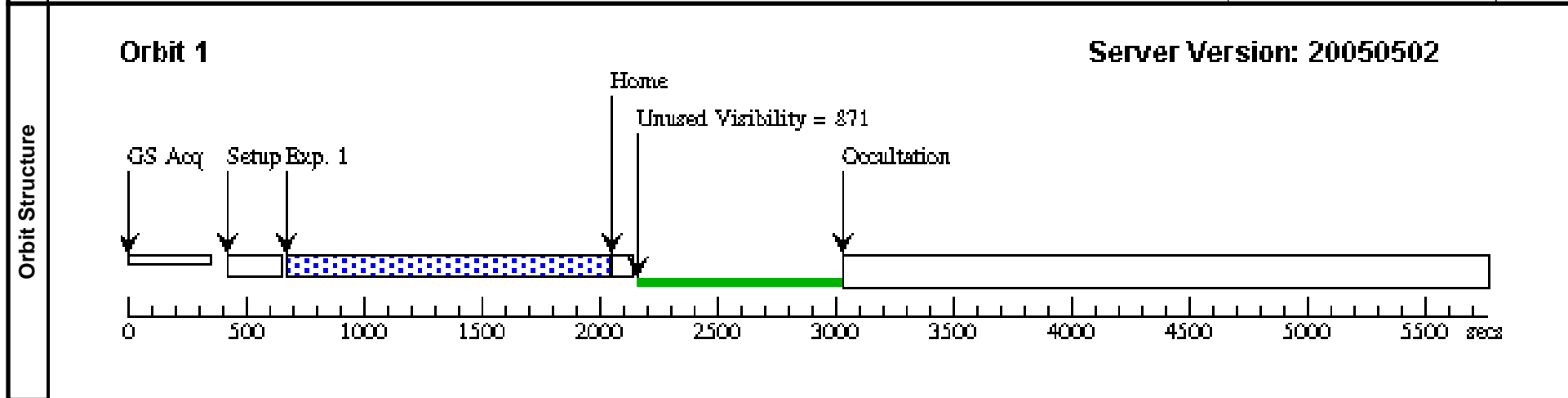
Proposal 10612 - Visit 60 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:12 GMT 2005

Visit	Proposal 10612, Visit 60				
	Priority: H				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(60)	MT734	RA: 20 34 8.5000 (308.5354167d)		V=10.03+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-00646	Dec: +41 36 59.40 (41.61650d)		B-V=1.49,	
		Alt Name2: Schulte11	Equinox: J2000 Plate Id: 00VV		O5If	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(60) MT734	FGS, TRANS, 1	F583W	SCANS=16; STEP-SIZE=0.5	POS TARG 0,0		1088.0 Secs [==>]	[1]



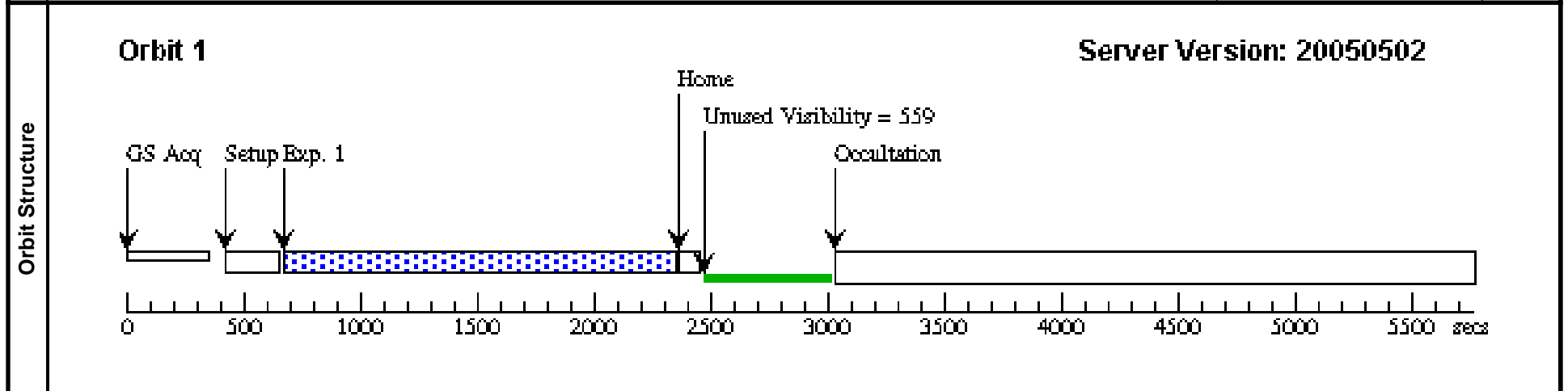
Proposal 10612 - Visit 61 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:13 GMT 2005

Visit	Proposal 10612, Visit 61				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(61)	MT736	RA: 20 34 9.5500 (308.5397917d)		V=12.79+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01131	Dec: +41 34 13.80 (41.57050d)		B-V=1.46,	
		Alt Name2: Schulte75	Equinox: J2000 Plate Id: 00VV		O9V	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(61) MT736	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs [==>]	[1]



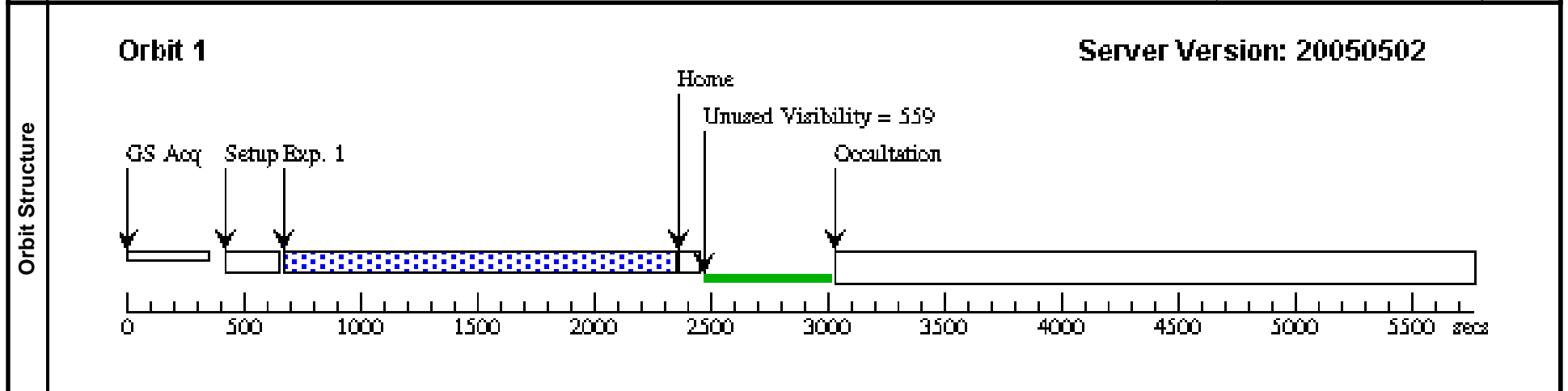
Proposal 10612 - Visit 62 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:14 GMT 2005

Visit	Proposal 10612, Visit 62				
	Priority: H				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(62)	MT745	RA: 20 34 13.5100 (308.5562917d)		V=11.91+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01195	Dec: +41 35 2.70 (41.58408d)		B-V=1.50,	
		Alt Name2: Schulte29	Equinox: J2000		O7V	
			Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(62) MT745	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs	
									[==>]	[1]



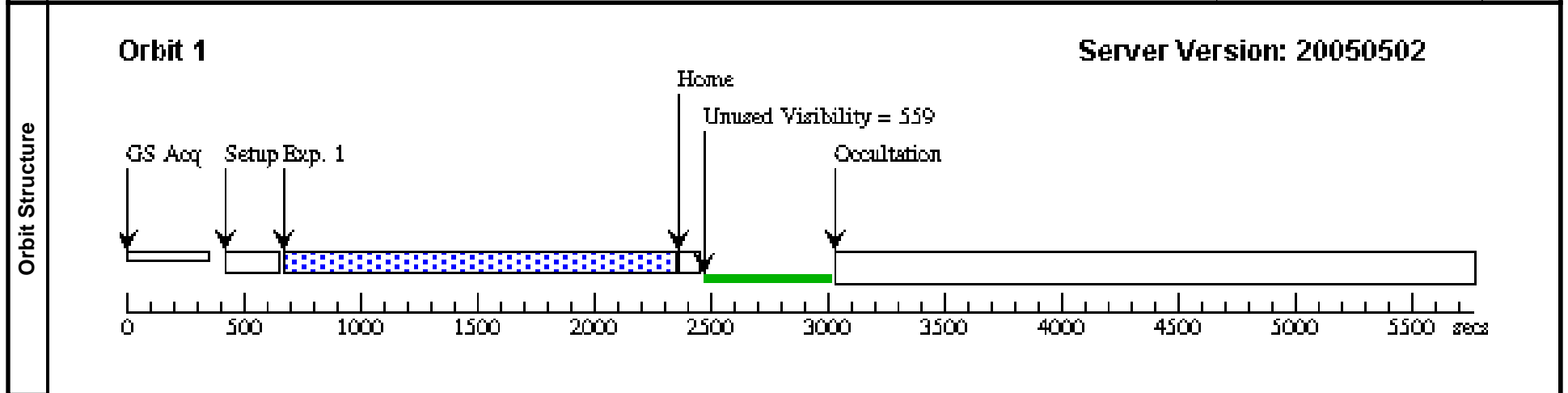
Proposal 10612 - Visit 63 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:14 GMT 2005

Visit	Proposal 10612, Visit 63				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(63)	MT771	RA: 20 34 29.5900 (308.6232917d)		V=12.06+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01048	Dec: +41 31 45.30 (41.52925d)		B-V=2.05,	
		Alt Name2: CygOB2-335	Equinox: J2000		O7V	
			Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(63) MT771	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs	
									[==>]	[1]



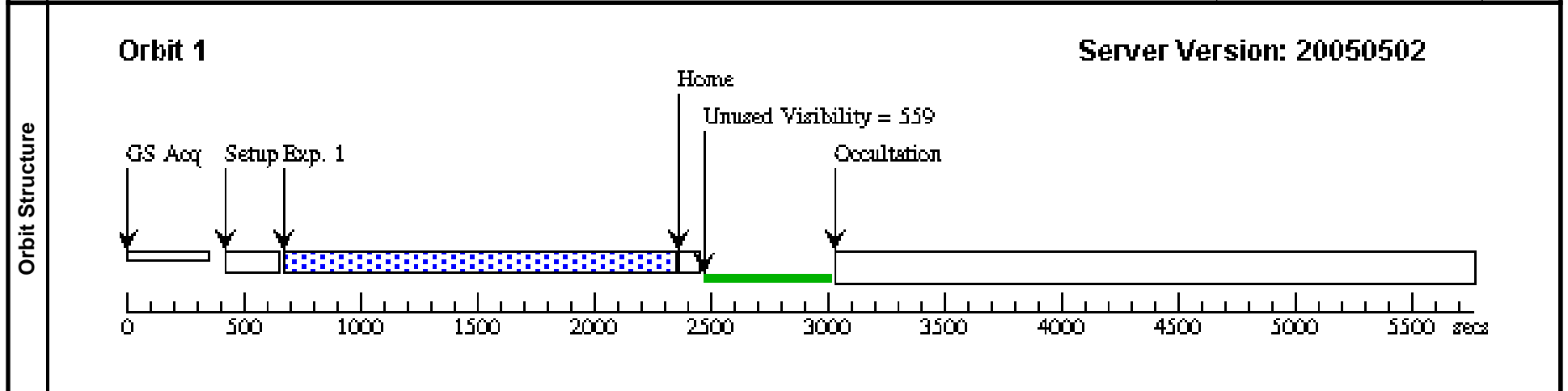
Proposal 10612 - Visit 64 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:15 GMT 2005

Visit	Proposal 10612, Visit 64				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(64)	MT793	RA: 20 34 43.5600 (308.6815000d)		V=12.29+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01374	Dec: +41 29 4.00 (41.48444d)		B-V=1.54,	
		Alt Name2: Schulte30	Equinox: J2000 Plate Id: 00VV		B1.5III?	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(64) MT793	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs [==>]	[1]



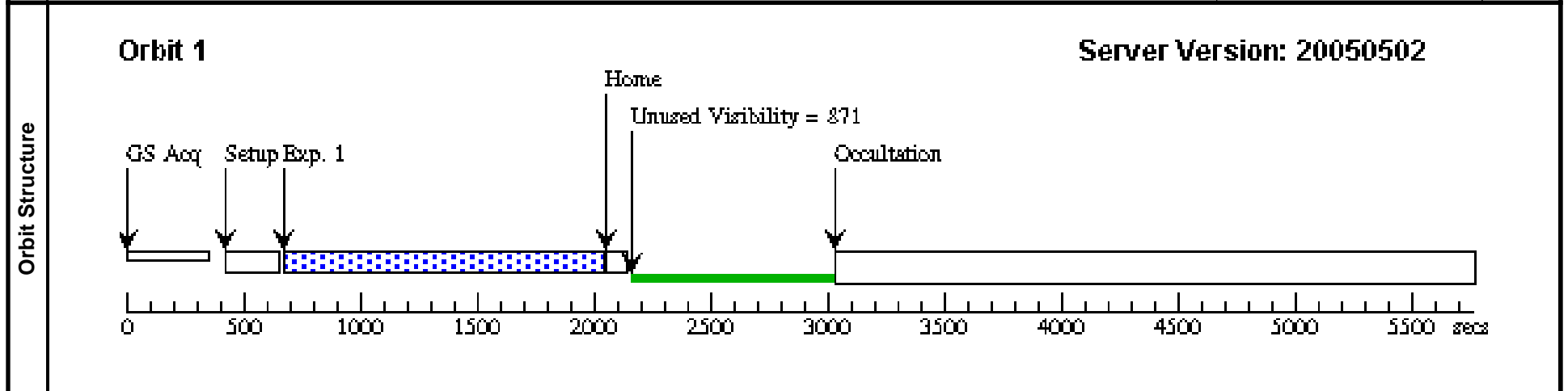
Proposal 10612 - Visit 65 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:16 GMT 2005

Visit	Proposal 10612, Visit 65				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(65)	BD+40D4212	RA: 20 31 37.4700 (307.9061250d)		V=10.29+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03157-00299	Dec: +41 13 20.30 (41.22231d)		B-V=1.63,	
		Alt Name2: Schulte3	Equinox: J2000		O8.5III((f))	
			Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(65) BD+40D4212	FGS, TRANS, 1	F583W	SCANS=16; STEP-SIZE=0.5	POS TARG 0,0		1088.0 Secs	
									[==>]	[1]



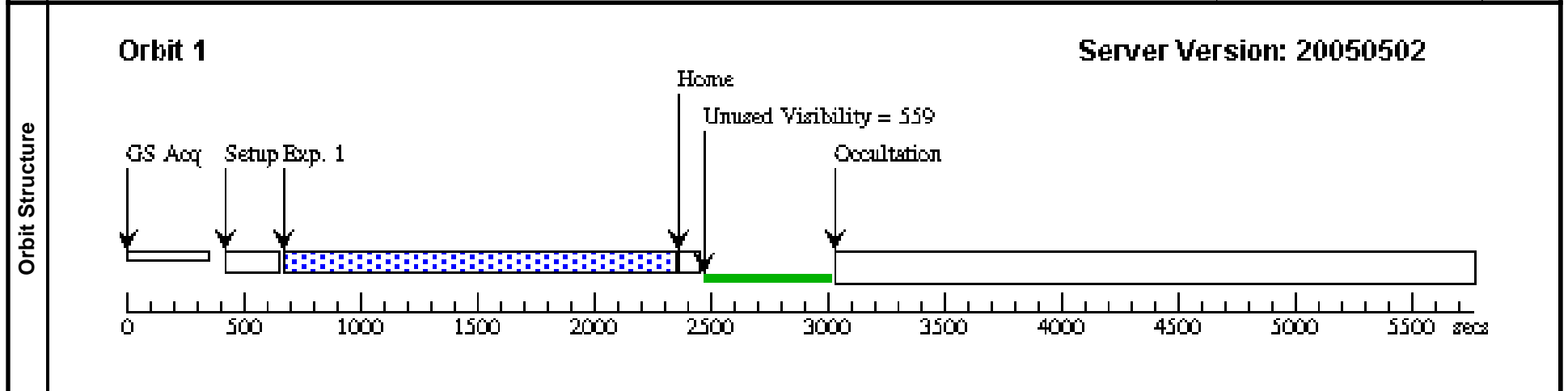
Proposal 10612 - Visit 66 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:16 GMT 2005

Visit	Proposal 10612, Visit 66				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(66)	WR145	RA: 20 32 6.3000 (308.0262500d)		V=11.89+/-0.05	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03157-00233	Dec: +40 48 29.60 (40.80822d)		B-V=2.19,	
		Alt Name2: V1923Cyg	Equinox: J2000		WN7/WCE	
			Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(66) WR145	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs	
									[==>]	[1]



Proposal 10612 - Visit 67 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:17 GMT 2005

Visit	Proposal 10612, Visit 67 Priority: M Diagnostic Status: No Diagnostics Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
(67)		BD+40D4220	RA: 20 32 22.4200 (308.0934167d) Dec: +41 18 19.10 (41.30531d)		V=9.21+/-0.02 B-V=1.43, O7e	Coordinate Source: GUIDE_STAR_CATALOG				
Exposures	<i>Comments: V729Cyg</i>									
	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	(67) BD+40D4220	FGS, TRANS, 1	F583W	SCANS=15; STEP-SIZE=0.5	POS TARG 0,0			1425.0 Secs [==>]	[1]	
<i>Comments: Long scan (1.90 arcsec) to include B component</i>										
Orbit Structure	<div style="display: flex; justify-content: space-between;"> Orbit 1 Server Version: 20050502 </div> <p>The diagram illustrates the orbit structure over a 5500-second period. It features a horizontal axis with tick marks every 500 seconds. Key events are marked with vertical arrows: 'GS Acq' at 0s, 'Setup Exp. 1' at 500s, 'Home' at 2500s, and 'Occultation' at 3000s. A blue checkered region between 700s and 2400s is labeled 'Unused Visibility = 544'. A green bar is present between 2500s and 3000s. The main observation period is shown as a long horizontal bar from approximately 700s to 5500s.</p>									

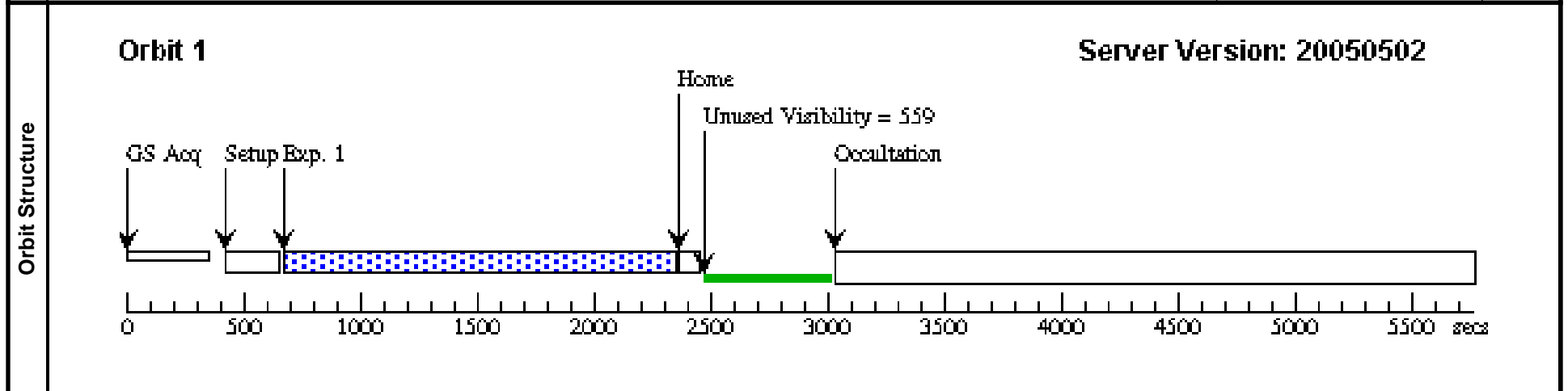
Proposal 10612 - Visit 68 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:18 GMT 2005

Visit	Proposal 10612, Visit 68				
	Priority: L				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(68)	A23	RA: 20 30 39.7100 (307.6654583d)		V=10.81+/-0.36	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03157-00601	Dec: +41 08 49.00 (41.14694d)		B0.7Ib, K=5.96	
			Equinox: J2000			
			Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(68) A23	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs	
									[==>]	[1]



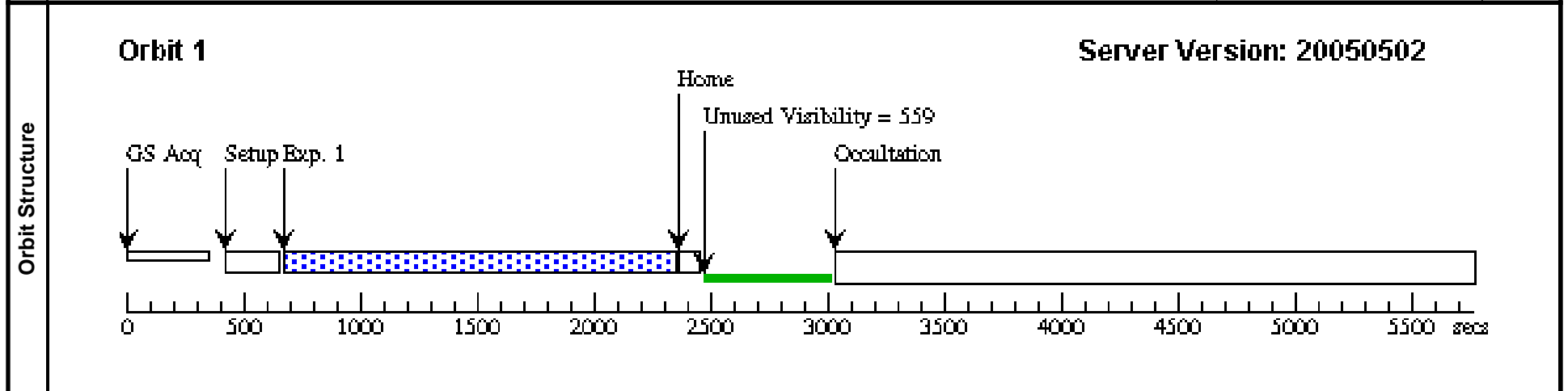
Proposal 10612 - Visit 69 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:18 GMT 2005

Visit	Proposal 10612, Visit 69				
	Priority: L				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
Special Requirements: PCS MODE FINE; SCHED 100%					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(69)	A27	RA: 20 34 44.7200 (308.6863333d)		V=10.91+/-0.37	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03157-00581	Dec: +40 51 46.70 (40.86297d)		B0Ia, K=5.75	
			Equinox: J2000 Plate Id: 00VV			

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(69) A27	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs [==>]	[1]



Proposal 10612 - Visit 70 - Binary Stars in Cyg OB2: Relics of Massive Star Formation in a Super-Star Cluster

Mon Jun 20 16:38:19 GMT 2005

Visit	Proposal 10612, Visit 70				
	Priority: M				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS Special Requirements: PCS MODE FINE; SCHED 100%				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(70)	SCHULTE73	RA: 20 34 21.9400 (308.5914167d)		V=12.5+/-0.02	Coordinate Source: GUIDE_STAR_CATALOG
		Alt Name1: GSC03161-01397	Dec: +41 17 1.60 (41.28378d)		B-V=1.70,	
		Alt Name2: CygOB2-766	Equinox: J2000 Plate Id: 00VV		O8V?	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		(70) SCHULTE73	FGS, TRANS, 1	F583W	SCANS=20; STEP-SIZE=0.5	POS TARG 0,0		1360.0 Secs [==>]	[1]

