



16868 - Science now with HST FGS: High Angular Resolution Survey of B Stars

Cycle: 29, Proposal Category: GO/DD

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) HD239618	FGS	1	03-Nov-2021 14:00:13.0	yes
02	(2) HD239758	FGS	1	03-Nov-2021 14:00:13.0	yes
03	(3) HD216044	FGS	1	03-Nov-2021 14:00:13.0	yes
04	(4) HD216851	FGS	1	03-Nov-2021 14:00:13.0	yes
05	(5) HD224424	FGS	1	03-Nov-2021 14:00:14.0	yes
06	(6) BD+56-473	FGS	1	03-Nov-2021 14:00:14.0	yes
07	(7) HD13669	FGS	1	03-Nov-2021 14:00:14.0	yes
08	(8) HD13758	FGS	1	03-Nov-2021 14:00:14.0	yes
09	(9) HD13890	FGS	1	03-Nov-2021 14:00:14.0	yes
10	(10) HD52159	FGS	1	03-Nov-2021 14:00:15.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
11	(11) HD33232	FGS	1	03-Nov-2021 14:00:15.0	yes
12	(12) HD52244	FGS	1	03-Nov-2021 14:00:15.0	yes
13	(13) HD206135	FGS	1	03-Nov-2021 14:00:15.0	yes
14	(14) HD-217061	FGS	1	03-Nov-2021 14:00:15.0	yes
15	(15) HD-35345	FGS	1	03-Nov-2021 14:00:16.0	yes
16	(16) HD-205618	FGS	1	03-Nov-2021 14:00:16.0	yes
17	(17) BD+56-573	FGS	1	03-Nov-2021 14:00:16.0	yes
18	(18) HD50737	FGS	1	03-Nov-2021 14:00:16.0	yes
19	(19) HD-204116	FGS	1	03-Nov-2021 14:00:16.0	yes
20	(20) MT696	FGS	1	03-Nov-2021 14:00:17.0	yes
21	(21) MT304	FGS	1	03-Nov-2021 14:00:17.0	yes

21 Total Orbits Used

ABSTRACT

With the SI C&DH unavailable to support normal science operations, the FGS remains the only operational instrument on HST that can carry out science observations. To make good use of otherwise unused HST time and resources, we propose to carry out a high angular resolution survey of early type B stars to better constrain and establish the incidence of multiplicity among these astrophysically important (e.g., progenitors of Cepheids, red supergiants, type II SNe) but comparatively neglected stars. This survey is composed of single epoch observations and thus is well suited for making optimal use of the whatever HST time is available. We propose a modest size target list (~30 targets, which can be expanded upon) prioritized according the star's astrophysical significance. FGS2 is an ideal instrument for these observations as it can resolve binary systems with component separations down to ~12 mas and magnitude differences of ~2, and larger magnitude difference for larger separations, well beyond the capability of Gaia, e.g.

For the safety of HST, we propose to use FGS2r2 as this FGS already has the F583W filter element in place for guiding, which also provides HST's best angular resolution. Therefore, no filter wheel needs to be commanded away from its current position, eliminating any risk to the observatory. Moreover, our proposed observations will make use of FGS1 and FGS3 for guiding, and this will keep active their star selector servos (the guide stars will be widely distributed across those two guiders). This will relieve the OTA engineers of the task to manually force guide star acquisitions to

Proposal 16868 (STScI Edit Number: 0, Created: Wednesday, November 3, 2021 at 1:00:17 PM Eastern Standard Time) - Overview
accomplish the same goal, but with the important distinction that valuable science will result from these observations.

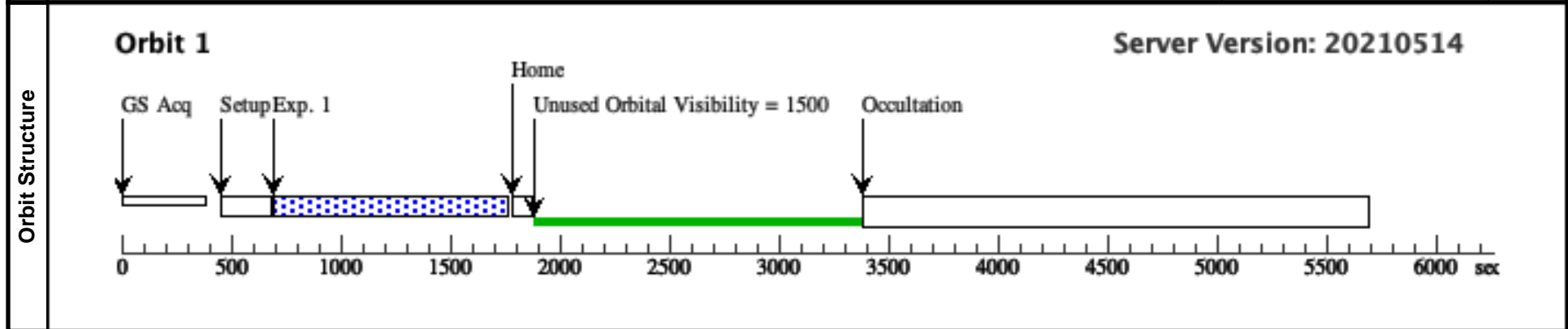
OBSERVING DESCRIPTION

We propose to use FGS2 with the F583W filter to observe astrophysically interesting B and Be stars in TRANS mode to search for resolved binary systems. These observations will be single orbit, single epoch per star, executing during the time when HST is unable to carry out any other science observations.

Visit	Proposal 16868, Visit 01				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	HD239618	RA: 21 14 45.4841 (318.6895171d) Dec: +59 45 39.71 (59.76103d) Equinox: J2000			V=8.66
<i>Comments:</i> Category=STAR Description=[BE]						

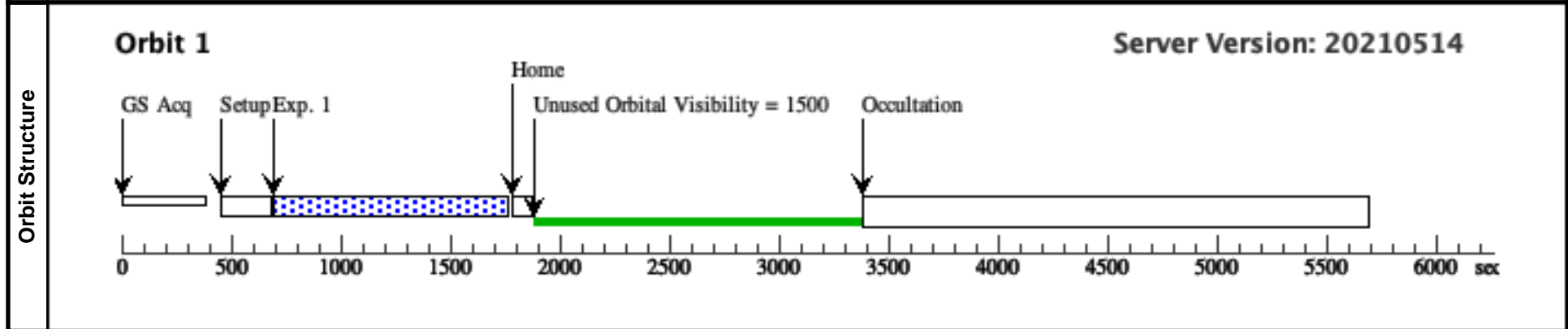
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) HD239618	FGS, TRANS, 2	F583W	STEP-SIZE=1; SCANS=15				800 Secs (800 Secs) [==>]



Visit	Proposal 16868, Visit 02				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	HD239758	RA: 21 44 34.0129 (326.1417204d) Dec: +59 03 25.74 (59.05715d) Equinox: J2000		V=9.43	Reference Frame: ICRS
	<i>Comments:</i> Category=STAR Description=[BE]					

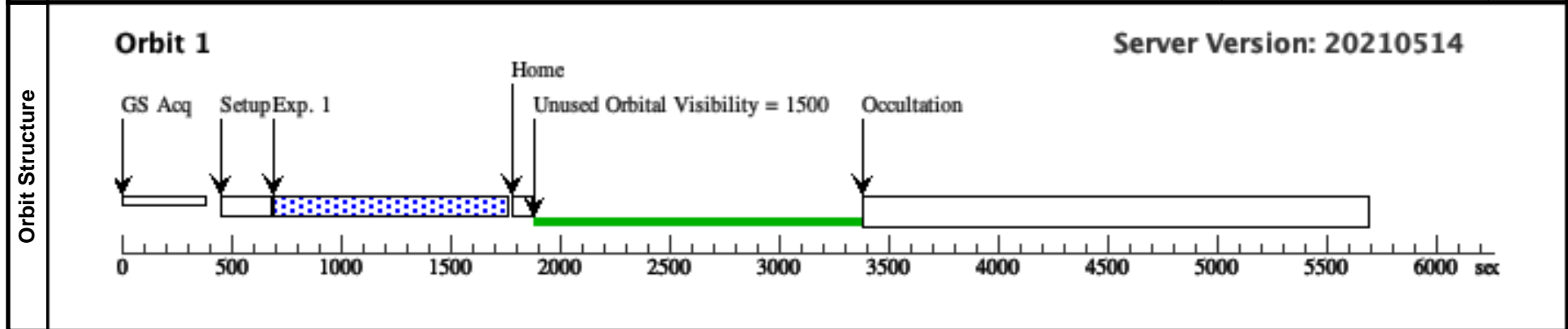
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(2) HD239758	FGS, TRANS, 2	F583W	STEP-SIZE=1; SCANS=15			800 Secs (800 Secs) [==>]	[1]



Visit	Proposal 16868, Visit 03				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	HD216044	RA: 22 48 43.2770 (342.1803208d) Dec: +55 07 33.77 (55.12605d) Equinox: J2000		V=8.52	Reference Frame: ICRS
	<i>Comments:</i> Category=STAR Description=[BE]					

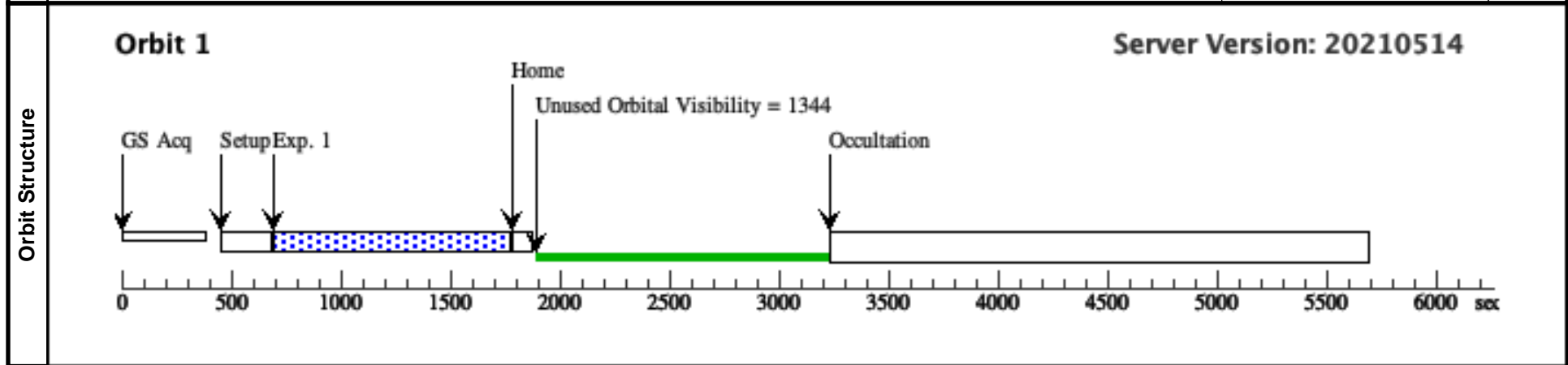
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) HD216044	FGS, TRANS, 2	F583W	STEP-SIZE=1; SCANS=15			800 Secs (800 Secs) [==>]	[1]



Visit	Proposal 16868, Visit 04				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	HD216851	RA: 22 55 47.0641 (343.9461004d) Dec: +43 33 33.44 (43.55929d) Equinox: J2000		V=7.97	Reference Frame: ICRS
	<i>Comments:</i> Category=STAR Description=[BE]					

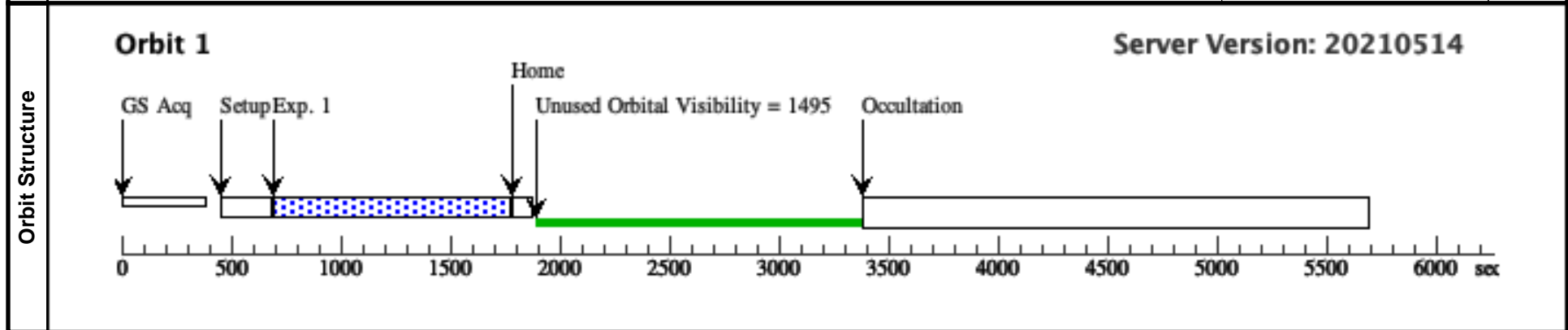
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(4) HD216851	FGS, TRANS, 2	F583W	STEP-SIZE=1; SCANS=15			800 Secs (800 Secs) [==>]	[1]



Visit	Proposal 16868, Visit 05				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	HD224424	RA: 23 57 47.6943 (359.4487262d) Dec: +59 43 12.42 (59.72012d) Equinox: J2000			V=8.1
<i>Comments:</i> Category=STAR Description=[BE]						

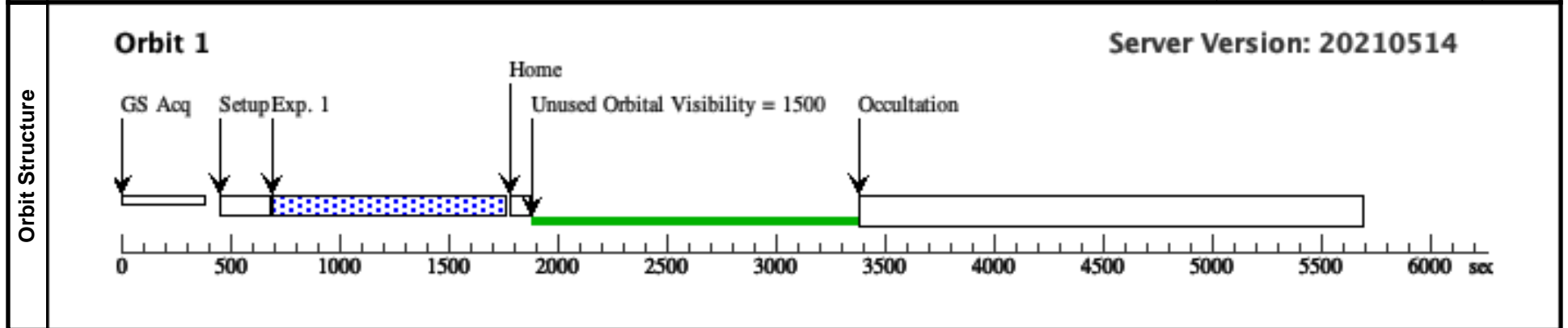
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(5) HD224424	FGS, TRANS, 2	F583W	STEP-SIZE=1; SCANS=15				800 Secs (800 Secs) [==>]



Visit	Proposal 16868, Visit 06				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(6)	BD+56-473	RA: 02 16 57.7125 (34.2404688d) Dec: +57 07 48.73 (57.13020d) Equinox: J2000			V=9.07
<i>Comments:</i> Category=STAR Description=[BE]						

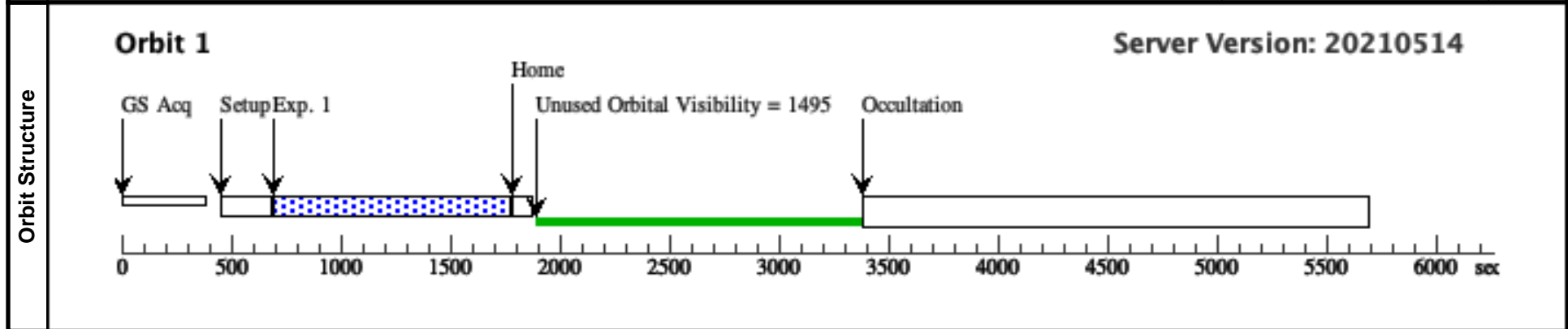
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(6) BD+56-473	FGS, TRANS, 2	F583W	STEP-SIZE=1; SCANS=15				800 Secs (800 Secs) [==>]



Visit	Proposal 16868, Visit 07				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(7)	HD13669	RA: 02 15 2.6066 (33.7608608d) Dec: +55 47 35.60 (55.79322d) Equinox: J2000		V=7.9	Reference Frame: ICRS
	<i>Comments:</i> Category=STAR Description=[BE]					

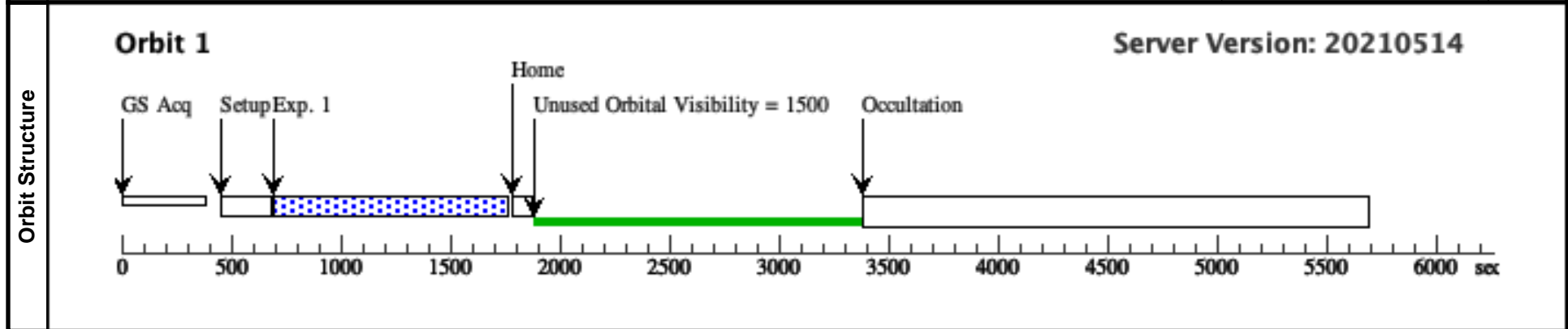
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(7) HD13669	FGS, TRANS, 2	F583W	STEP-SIZE=1; SCANS=15			800 Secs (800 Secs) [==>]	[1]



Visit	Proposal 16868, Visit 08				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(8)	HD13758	RA: 02 16 4.4324 (34.0184683d) Dec: +57 44 41.68 (57.74491d) Equinox: J2000			V=9.14
<i>Comments:</i> Category=STAR Description=[BE]						

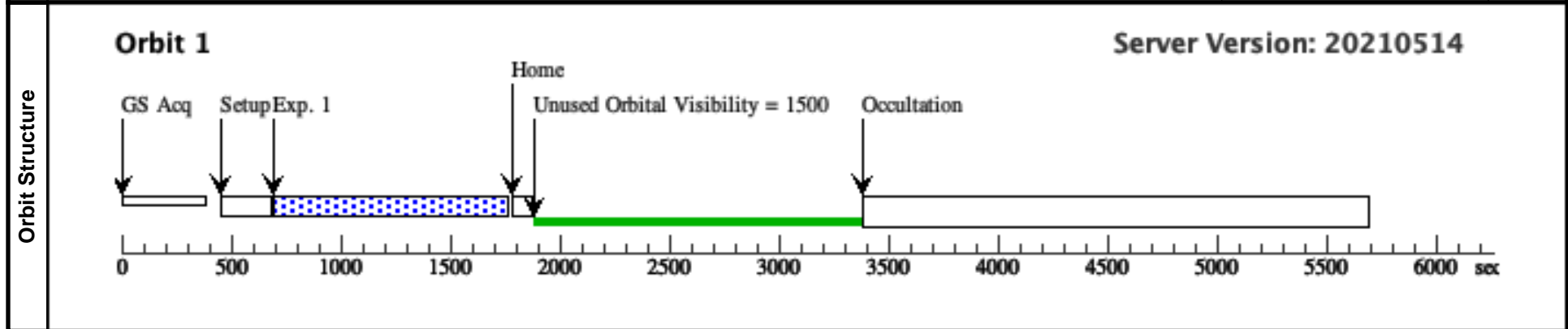
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(8) HD13758	FGS, TRANS, 2	F583W	STEP-SIZE=1; SCANS=15				800 Secs (800 Secs) [==>]



Visit	Proposal 16868, Visit 09				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(9)	HD13890	RA: 02 17 8.2170 (34.2842375d) Dec: +56 46 11.09 (56.76975d) Equinox: J2000		V=8.5	Reference Frame: ICRS
	<i>Comments:</i> Category=STAR Description=[BE]					

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(9) HD13890	FGS, TRANS, 2	F583W	STEP-SIZE=1; SCANS=15			800 Secs (800 Secs) [==>]	[1]



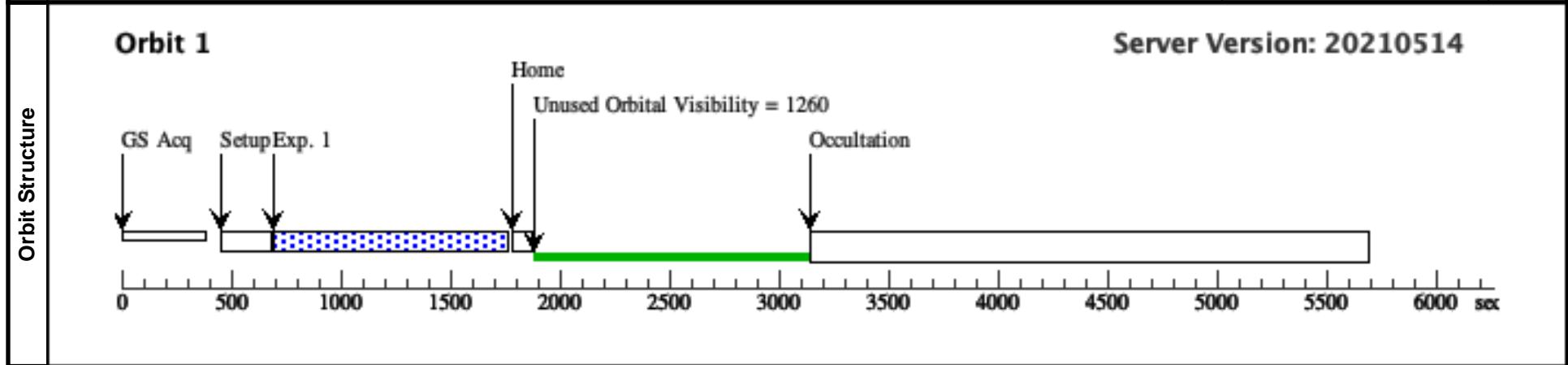
Proposal 16868 - Visit 10 - Science now with HST FGS: High Angular Resolution Survey of B Stars

Wed Nov 03 18:00:18 GMT 2021

Visit	Proposal 16868, Visit 10				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(10)	HD52159	RA: 06 59 42.6457 (104.9276904d) Dec: -11 09 26.60 (-11.15739d) Equinox: J2000		V=9.63	Reference Frame: ICRS
	<i>Comments:</i> Category=STAR Description=[BE]					

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(10) HD52159	FGS, TRANS, 2	F583W	STEP-SIZE=1; SCANS=15			800 Secs (800 Secs) [==>]	[1]



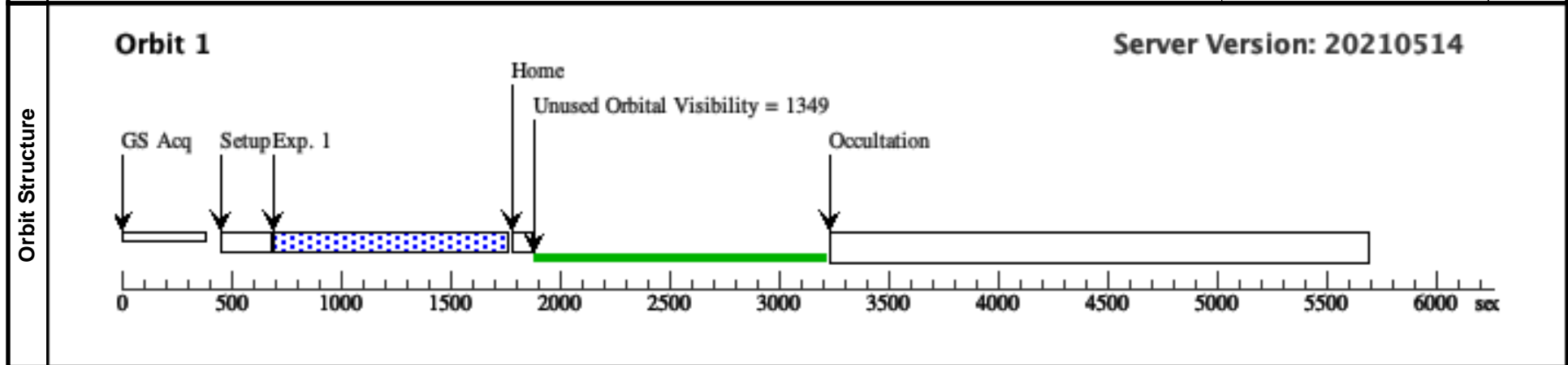
Proposal 16868 - Visit 11 - Science now with HST FGS: High Angular Resolution Survey of B Stars

Wed Nov 03 18:00:18 GMT 2021

Visit	Proposal 16868, Visit 11				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(11)	HD33232	RA: 05 10 48.2027 (77.7008446d) Dec: +41 00 10.43 (41.00290d) Equinox: J2000		V=8.16	Reference Frame: ICRS
	<i>Comments:</i> Category=STAR Description=[BE]					

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(11) HD33232	FGS, TRANS, 2	F583W	STEP-SIZE=1; SCANS=15			800 Secs (800 Secs) [==>]	[1]



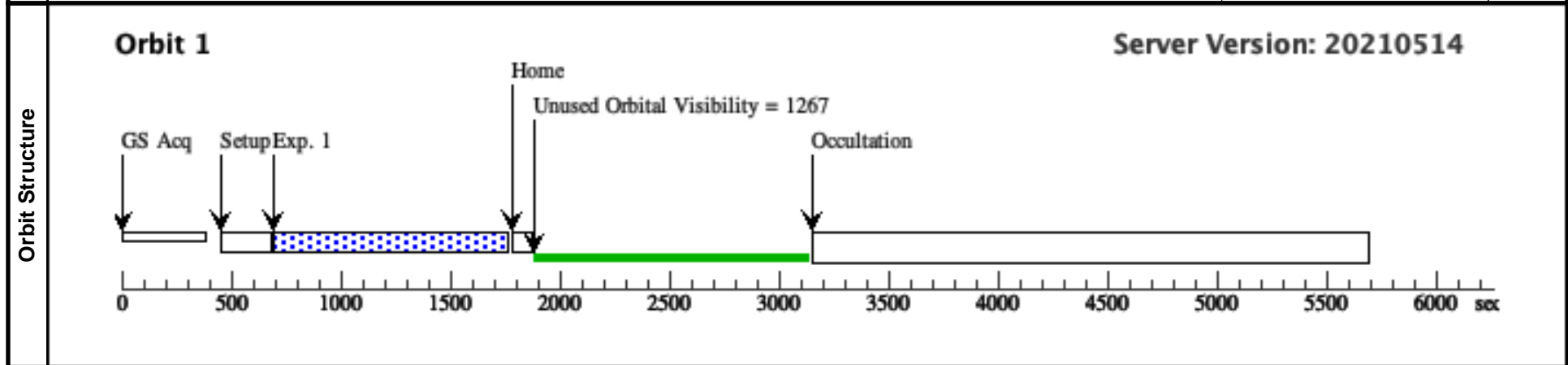
Proposal 16868 - Visit 12 - Science now with HST FGS: High Angular Resolution Survey of B Stars

Wed Nov 03 18:00:18 GMT 2021

Visit	Proposal 16868, Visit 12				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(12)	HD52244	RA: 06 59 46.4591 (104.9435796d) Dec: -16 12 2.73 (-16.20076d) Equinox: J2000		V=9.19	Reference Frame: ICRS
	<i>Comments:</i> Category=STAR Description=[BE]					

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(12) HD52244	FGS, TRANS, 2	F583W	STEP-SIZE=1; SCANS=15			800 Secs (800 Secs) [==>]	[1]



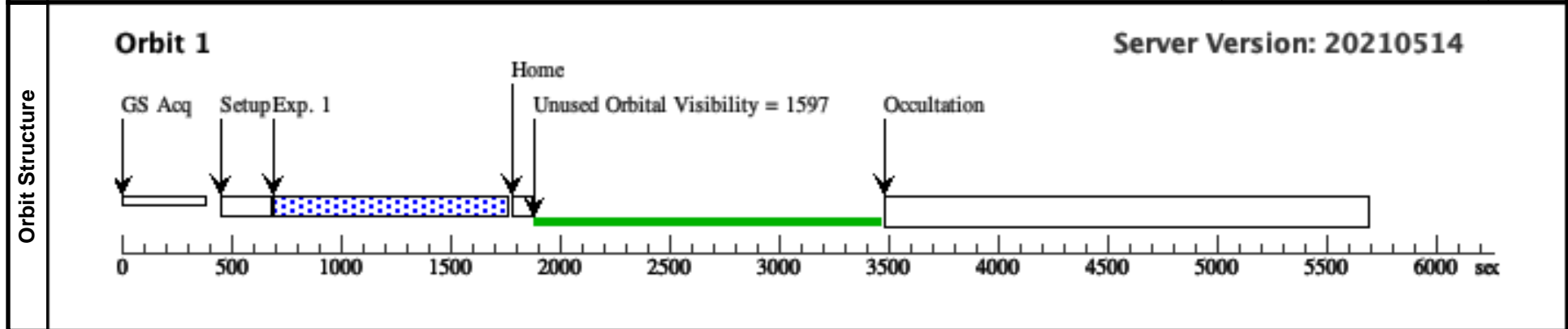
Proposal 16868 - Visit 13 - Science now with HST FGS: High Angular Resolution Survey of B Stars

Wed Nov 03 18:00:18 GMT 2021

Visit	Proposal 16868, Visit 13				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(13)	HD206135	RA: 21 36 57.0540 (324.2377250d) Dec: +68 11 7.30 (68.18536d) Equinox: J2000		V=8.27	Reference Frame: ICRS
	<i>Comments:</i> Category=STAR Description=[BE]					

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(13) HD206135	FGS, TRANS, 2	F583W	STEP-SIZE=1; SCANS=15			800 Secs (800 Secs) [==>]	[1]



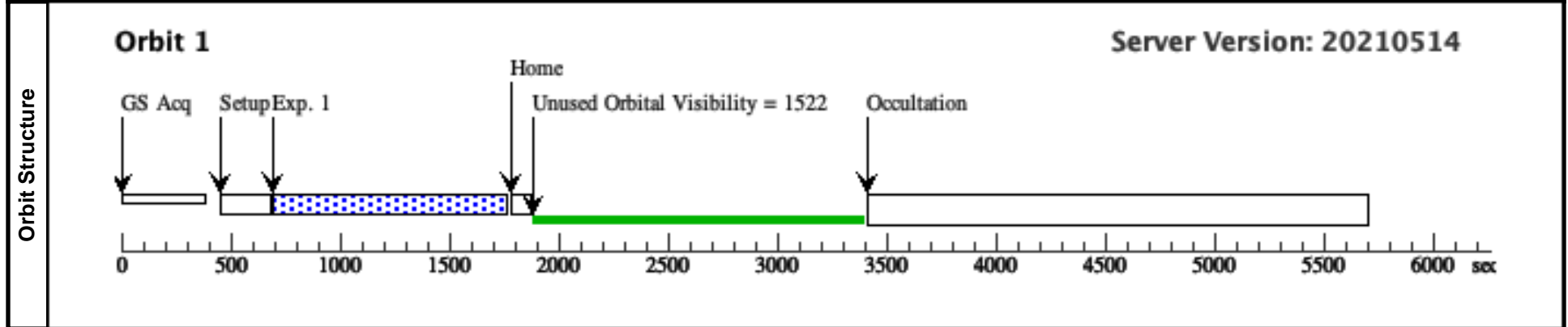
Proposal 16868 - Visit 14 - Science now with HST FGS: High Angular Resolution Survey of B Stars

Wed Nov 03 18:00:18 GMT 2021

Visit	Proposal 16868, Visit 14				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(14)	HD-217061	RA: 22 56 42.5508 (344.1772950d) Dec: +62 37 29.52 (62.62487d) Equinox: J2000	Proper Motion RA: 5.668953542265405E-5 sec of time/yr Proper Motion Dec: -0.003498999899420596 arcsec/yr Epoch of Position: 2015.5	V=8.9	Reference Frame: ICRS
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					
	Category=STAR Description=[BE]					

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(14) HD-217061	FGS, TRANS, 2	F583W	STEP-SIZE=1; SCANS=15			800 Secs (800 Secs) [==>]	[1]



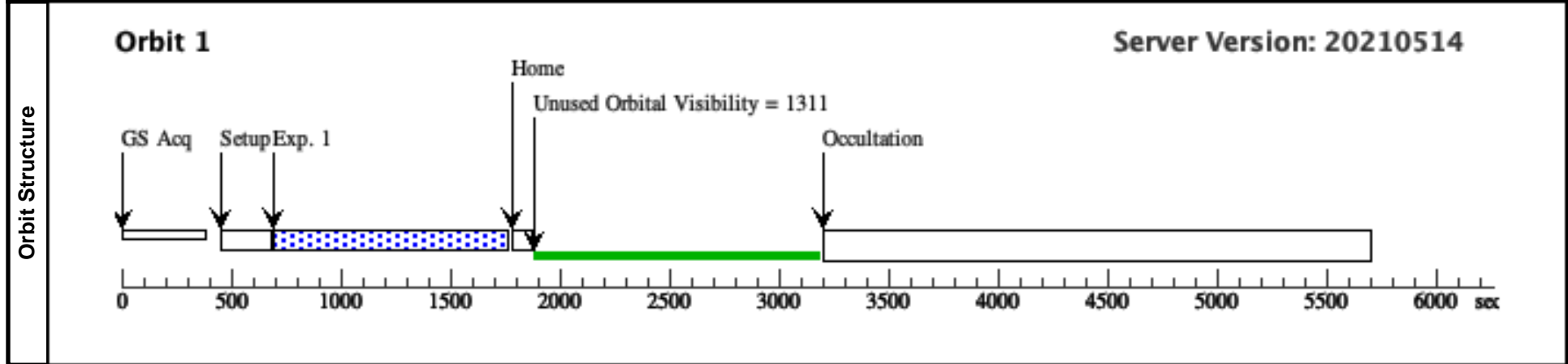
Proposal 16868 - Visit 15 - Science now with HST FGS: High Angular Resolution Survey of B Stars

Wed Nov 03 18:00:18 GMT 2021

Visit	Proposal 16868, Visit 15				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(15)	HD-35345	RA: 05 25 44.7834 (81.4365975d) Dec: +35 38 49.87 (35.64719d) Equinox: J2000	Proper Motion RA: -4.380885568249683E-5 sec of time/yr Proper Motion Dec: - 0.0031360000548374956 arcsec/yr Epoch of Position: 2015.5	V=8.43	Reference Frame: SIMBAD
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					
	Category=STAR Description=[BE]					

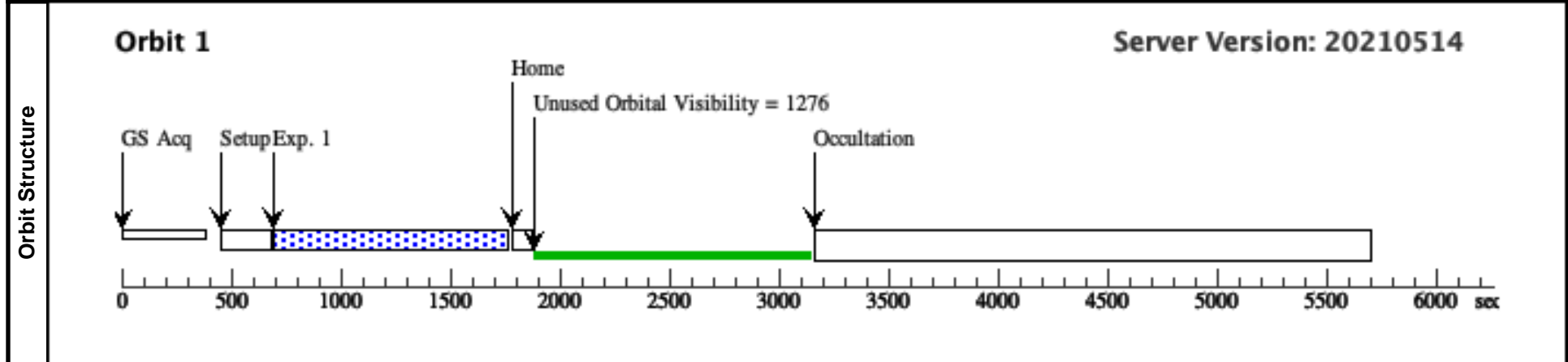
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(15) HD-35345	FGS, TRANS, 2	F583W	STEP-SIZE=1; SCANS=15			800 Secs (800 Secs) [==>]	[1]



Visit	Proposal 16868, Visit 16				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(16)	HD-205618	RA: 21 35 44.4771 (323.9353212d) Dec: +29 44 43.72 (29.74548d) Equinox: J2000	Proper Motion RA: 2.7872542754030094E-5 sec of time/yr Proper Motion Dec: -0.010900000006586197 arcsec/yr Epoch of Position: 2015.5	V=8.16	Reference Frame: SIMBAD
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					
	Category=STAR Description=[BE]					

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(16) HD-205618	FGS, TRANS, 2	F583W	STEP-SIZE=1; SCANS=15			800 Secs (800 Secs) [==>]	[1]



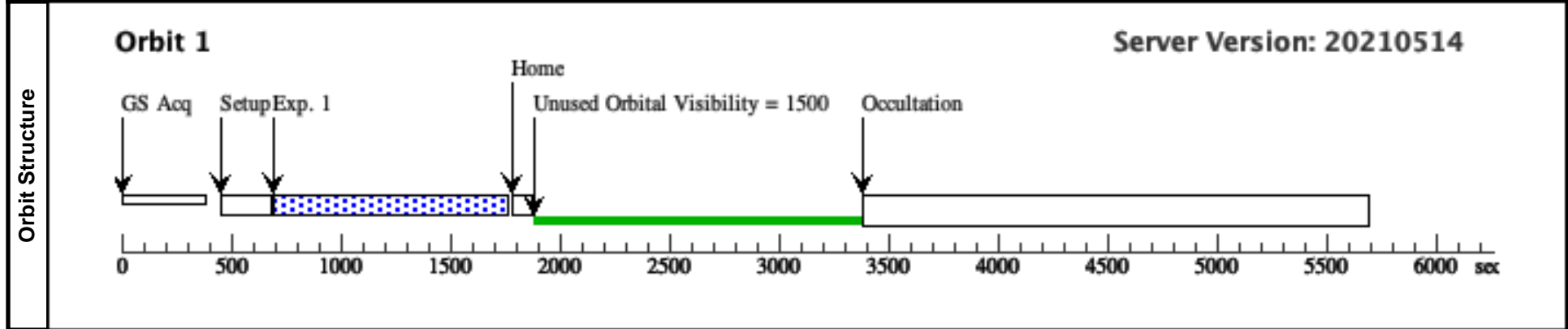
Proposal 16868 - Visit 17 - Science now with HST FGS: High Angular Resolution Survey of B Stars

Wed Nov 03 18:00:18 GMT 2021

Visit	Proposal 16868, Visit 17				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(17)	BD+56-573	RA: 02 22 6.4425 (35.5268437d) Dec: +57 05 25.01 (57.09028d) Equinox: J2000	Proper Motion RA: 4.343689831343421E-5 sec of time/yr Proper Motion Dec: -6.779999921491253E-4 arcsec/yr Epoch of Position: 2015.5	V=9.66	Reference Frame: SIMBAD
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					
	Category=STAR Description=[BE]					

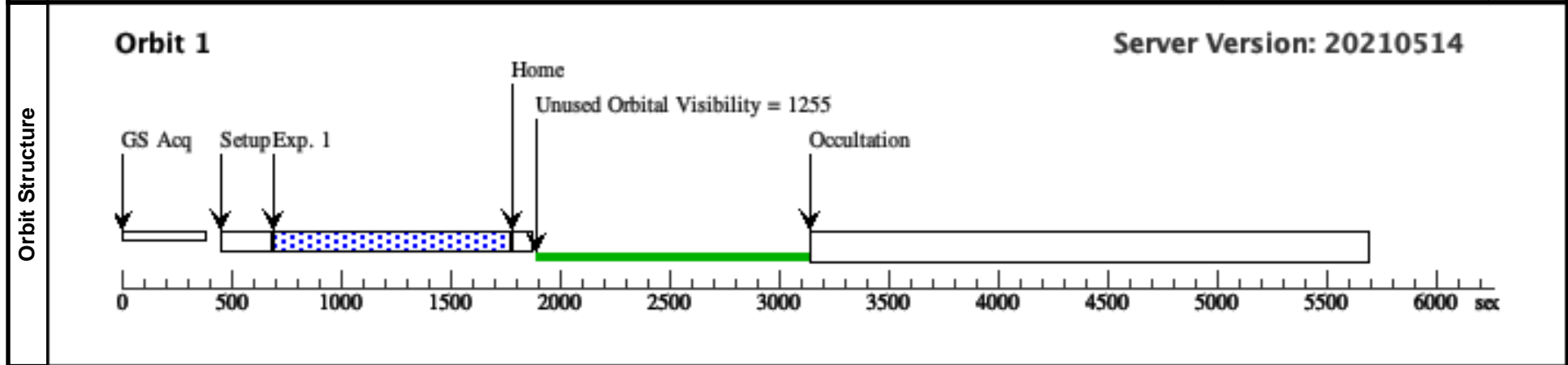
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(17) BD+56-573	FGS, TRANS, 2	F583W	STEP-SIZE=1; SCANS=15			800 Secs (800 Secs) [==>]	[1]



Visit	Proposal 16868, Visit 18				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(18)	HD50737	RA: 06 53 52.1678 (103.4673658d) Dec: -13 11 9.11 (-13.18586d) Equinox: J2000			V=8.
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>						
Category=STAR Description=[BE]						

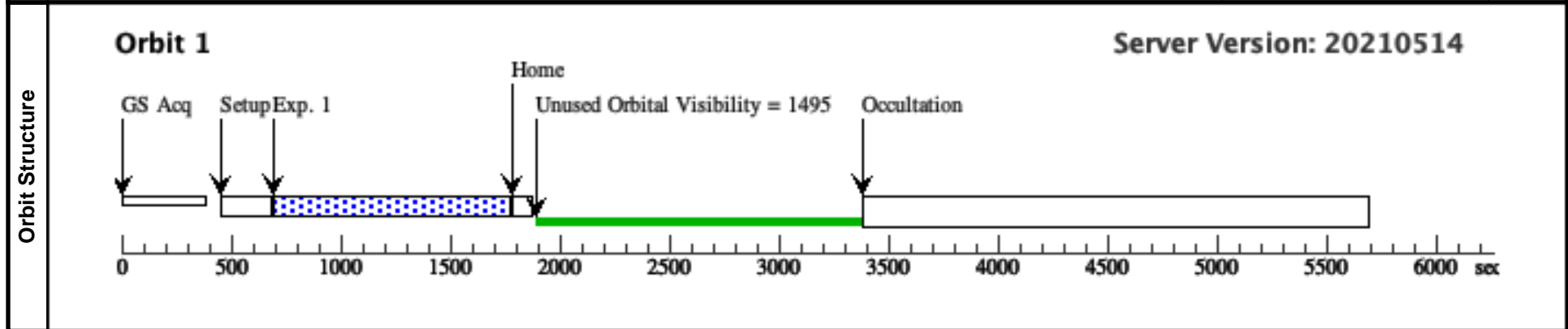
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(18) HD50737	FGS, TRANS, 2	F583W	STEP-SIZE=1; SCANS=15				800 Secs (800 Secs) [==>]



Visit	Proposal 16868, Visit 19				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(19)	HD-204116	RA: 21 24 30.3360 (321.1264000d) Dec: +55 22 0.22 (55.36673d) Equinox: J2000		V=7.55	Reference Frame: ICRS
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					
	Category=STAR Description=[BE]					

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(19) HD-204116	FGS, TRANS, 2	F583W	STEP-SIZE=1; SCANS=15			800 Secs (800 Secs) [==>]	[1]

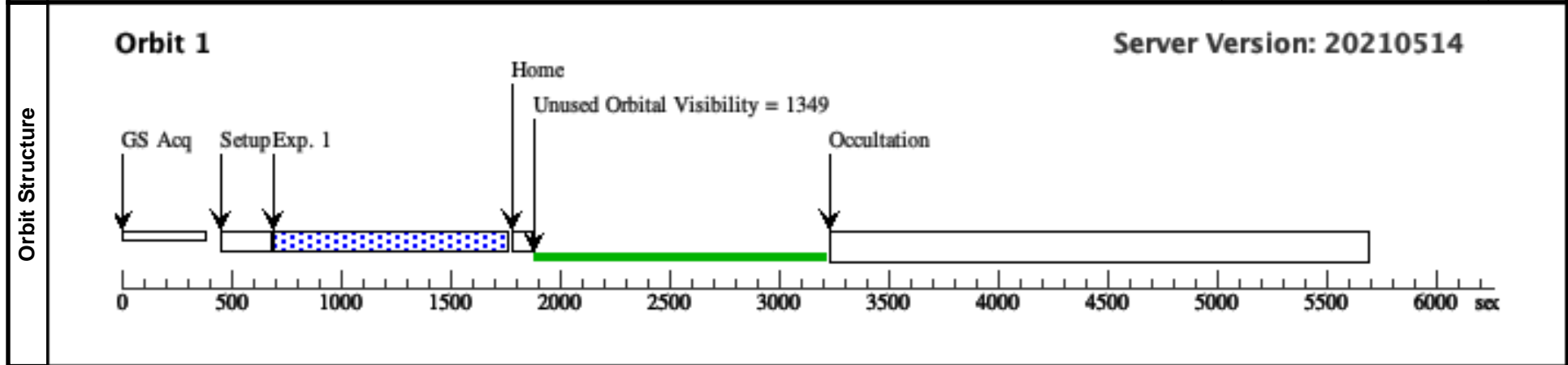


Visit	Proposal 16868, Visit 20				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(20)	MT696	RA: 20 33 59.5280 (308.4980333d) Dec: +41 17 35.48 (41.29319d) Equinox: J2000		V=12.32	Reference Frame: ICRS

Comments:
Category=STAR
Description=[OF]

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(20) MT696	FGS, TRANS, 2	F583W	SCANS=15; STEP-SIZE=1			800 Secs (800 Secs) [==>]	[1]



Visit	Proposal 16868, Visit 21				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: FGS				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(21)	MT304	RA: 20 32 40.9597 (308.1706654d) Dec: +41 14 29.28 (41.24147d) Equinox: J2000		V=11.1	Reference Frame: ICRS
<i>Comments:</i> Category=STAR Description=[MAIN SEQUENCE O]						

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(21) MT304	FGS, TRANS, 2	F583W	SCANS=15; STEP-SIZE=1			800 Secs (800 Secs) [==>]	[1]

