



11668 - Cosmo-chronometry and Elemental Abundance Distribution of the Ancient Star HE1523-0901

Cycle: 17, Proposal Category: GO
(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) HE1523-0901	STIS/CCD STIS/NUV-MAMA	3	20-Sep-2010 21:03:32.0	yes
02	(1) HE1523-0901	STIS/CCD STIS/NUV-MAMA	3	20-Sep-2010 21:03:39.0	yes
03	(1) HE1523-0901	STIS/CCD STIS/NUV-MAMA	3	20-Sep-2010 21:03:45.0	yes
04	(1) HE1523-0901	STIS/CCD STIS/NUV-MAMA	3	20-Sep-2010 21:03:53.0	yes
05	(1) HE1523-0901	STIS/CCD STIS/NUV-MAMA	3	20-Sep-2010 21:03:58.0	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>
06	(1) HE1523-0901	STIS/CCD STIS/NUV-MAMA	3	20-Sep-2010 21:04:04.0	yes
07	(1) HE1523-0901	STIS/CCD STIS/NUV-MAMA	3	20-Sep-2010 21:04:09.0	yes
08	(1) HE1523-0901	STIS/CCD STIS/NUV-MAMA	3	20-Sep-2010 21:04:15.0	yes
58	(1) HE1523-0901	STIS/CCD STIS/NUV-MAMA	3	20-Sep-2010 21:04:20.0	yes
09	(1) HE1523-0901	STIS/CCD STIS/NUV-MAMA	2	20-Sep-2010 21:04:27.0	yes

29 Total Orbits Used

ABSTRACT

We propose to obtain near-UV HST/STIS spectroscopy of the extremely metal-poor, highly r-process-enhanced halo star HE 1523-0901, in order to produce the most complete abundance distribution of the heaviest stable elements, including platinum, osmium, and lead. These HST abundance data will then be used to estimate the initial abundances of the long-lived radioactive elements thorium and uranium, and by comparison with their observed abundances, enable an accurate age determination of this ancient star. The use of radioactive chronometers in stars provides an independent lower limit on the age of the Galaxy, which can be compared with alternative limits set by globular clusters and by analysis from WMAP. Our proposed observations of HE1523-0901 will also provide significant new information about the early chemical history of the Galaxy, specifically, the nature of the first generations of stars and the types of nucleosynthetic processes that occurred at the onset of Galactic chemical evolution.

OBSERVING DESCRIPTION

We propose to obtain 26 orbits of HE 1523-0901. The initial exposure times we employed adopted expected total overheads of 24 min for the first orbit (including guide star acquisition, target acquisition, pickup target acquisition, overheads -- 6 minutes each), and 11 min for all subsequent orbits (reacquisition time (5 min), overheads (6 min)), and a visibility time of 54 min per orbit. This is now slightly changed, but the total exposure time has not changed a lot. Each visit now contains 3 orbits to ensure that accurate pointing is maintained throughout the visit. All visits are straight forward since they are all the same and there is only one target. We have 9₂ visits in total, where the last visit contains only 2 orbits.

Our target S/N is set to 51/1 at 2900A, 45 at 2650A, and 26 at 2450A. The expected S/N ratios have been calculated by comparison with previous HST observations of the metal-poor star CS 22892-052, a star with similar physical parameters to HE 1523-0901. The physical parameters adopted for HE 1523-0901 are $T_{\text{eff}}/\log g/[Fe/H] = 4630/1.0/-3.0$, while those for CS 22892-052 are $4760/1.3/-3.1$.

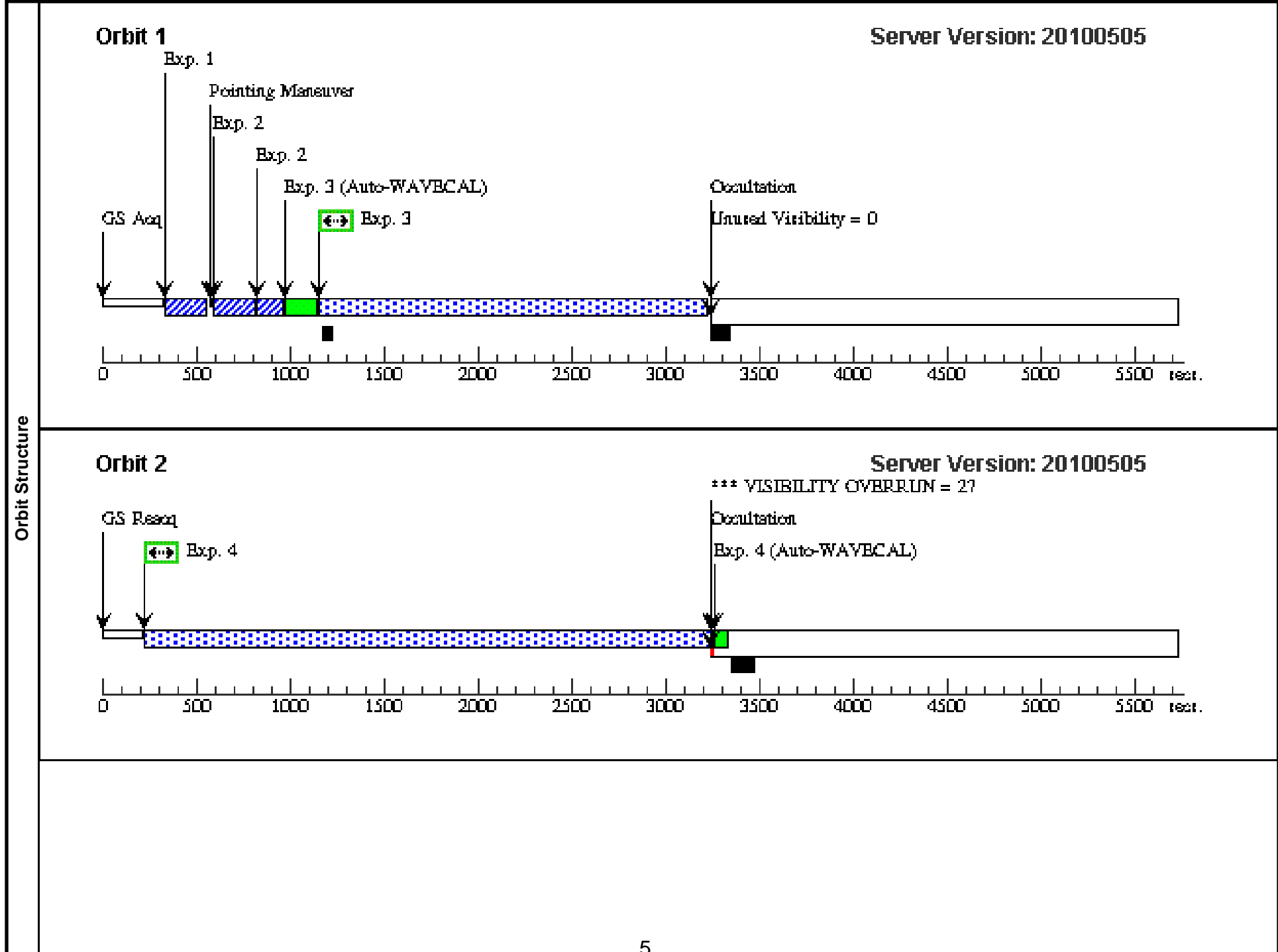
We use the STIS ETC as well as adopting previously measured HST fluxes for CS 22892-052 of 3.8×10^{-15} (2900 A) and 5.5×10^{-15} (3060A) in the following calculations. We increase the expected flux for HE 1523-0901 ($V = 11.1$) by the V magnitude differences with respect to CS 22892-052 ($V = 13.2$), and use the STIS ETC to obtain the following estimates of S/N.

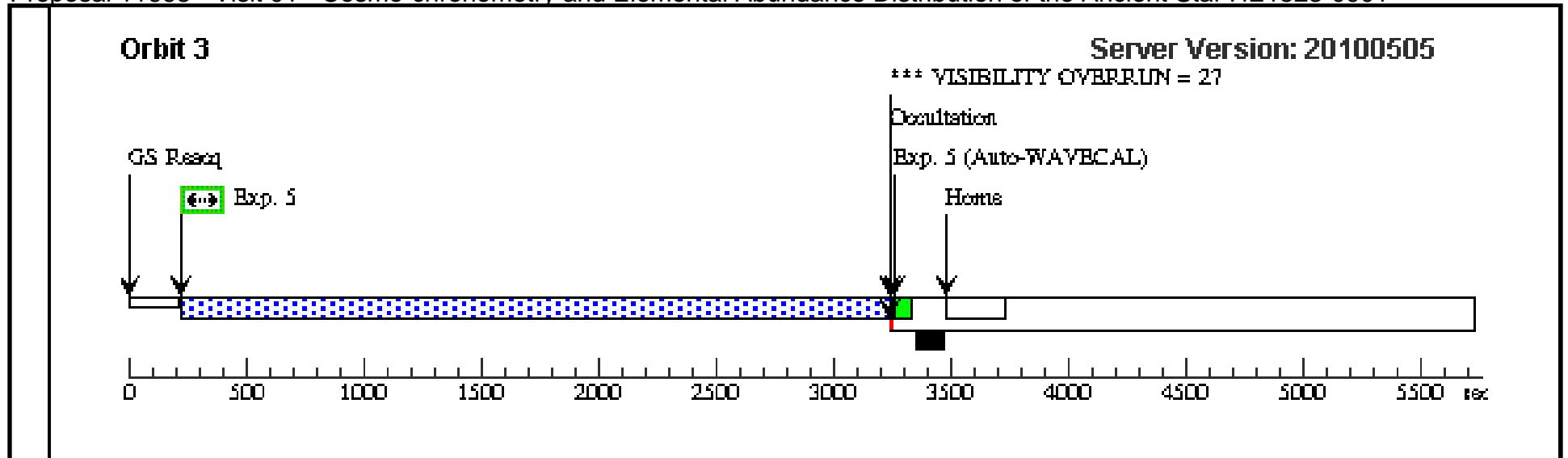
We are requesting full resolution in the original data because we hope to detect many weak, blended lines which will require the highest resolution possible. The star has a surprising rich optical spectrum, so we do not wish to miss the opportunity of detecting weak lines from unanticipated species by observing at less than the full resolution of the STIS Echelle. The wavelengths chosen for expected S/N correspond to local peaks in the continuum in various intervals, and the S/N estimates quoted are per resolution element.

ADDITIONAL COMMENTS

Peak up problems

Visit	Proposal 11668, Visit 01, completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/NUV-MAMA Special Requirements: PCS MODE FINE; GUID TOL 2"; GYRO MODE 3GOBAD <i>Comments: no dithering used. data should be inspected to see if bad flat field areas impact on important spectral lines.</i>									
	(Visit 01) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 01) Warning (Orbit Planner): VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	HE1523-0901 Alt Name1: S231023250 Alt Name2: 2MASSJ15260106-0911388	RA: 15 26 1.0723 (231.5044679d) Dec: -09 11 38.94 (-9.19415d) Equinox: J2000	Proper Motion RA: -0.0299s/yr Proper Motion Dec: -0.0341"/yr Epoch of Position: 1978.86 Radial Velocity: -162.3 km/sec	V=11.1+/-0.05 B=12.2+-0.05	Reference Frame: ICRS				
<i>Comments: Coordinates are from GSC2.2</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	acq	(1) HE1523-0901	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs [==>]	[1]
	2	acqpeak	(1) HE1523-0901	STIS/CCD, ACQ/PEAK, 0.2X0.06	MIRROR				0.1 Secs [==>]	[1]
	3	obs	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06	E230M 2707 A				1920 Secs [==>2058.0 Secs]	[1]
	4	obs	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06	E230M 2707 A				3017 Secs [==>3017.0 Secs]	[2]
	5	obs	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06	E230M 2707 A				3017 Secs [==>3017.0 Secs]	[3]

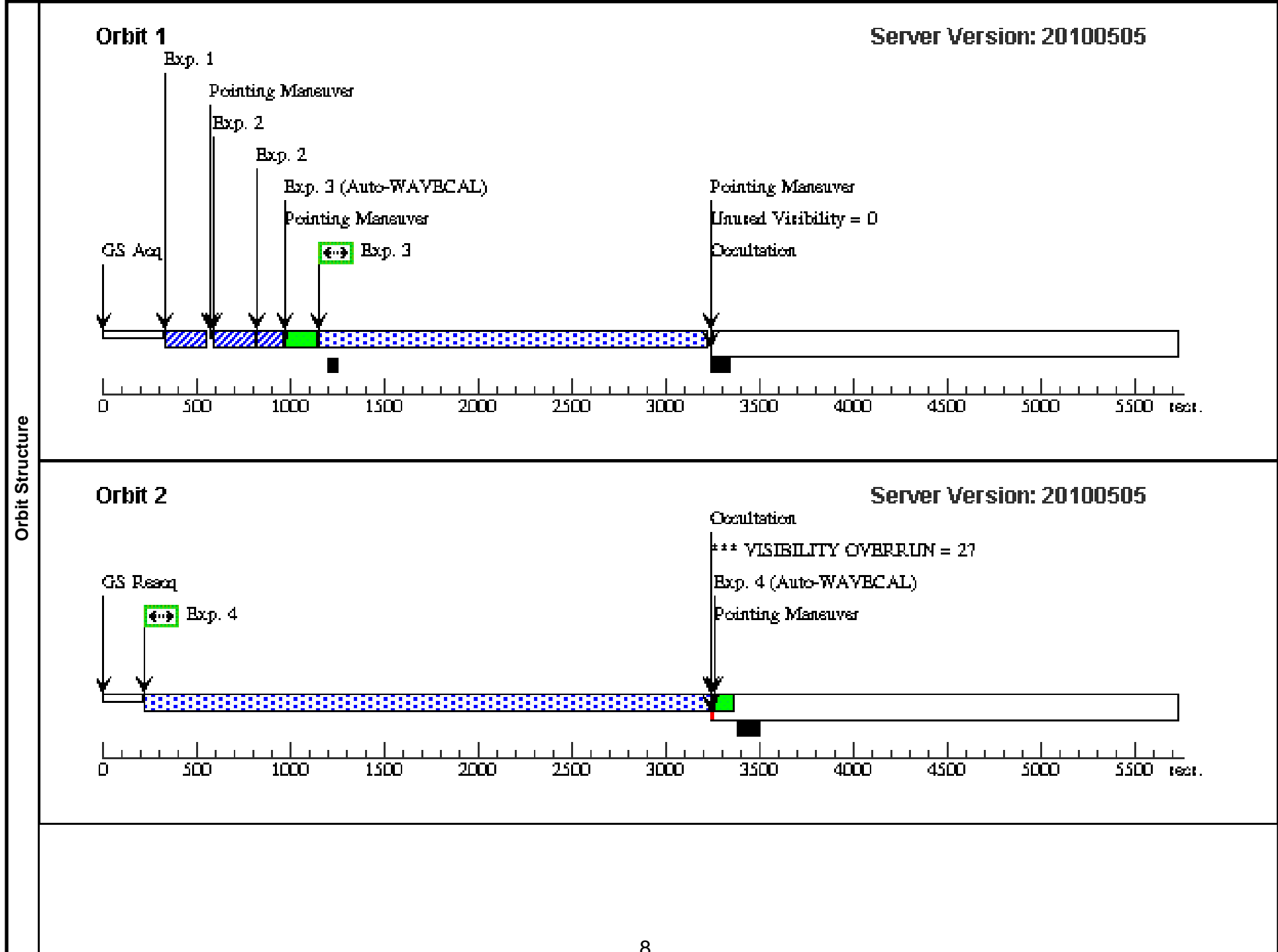


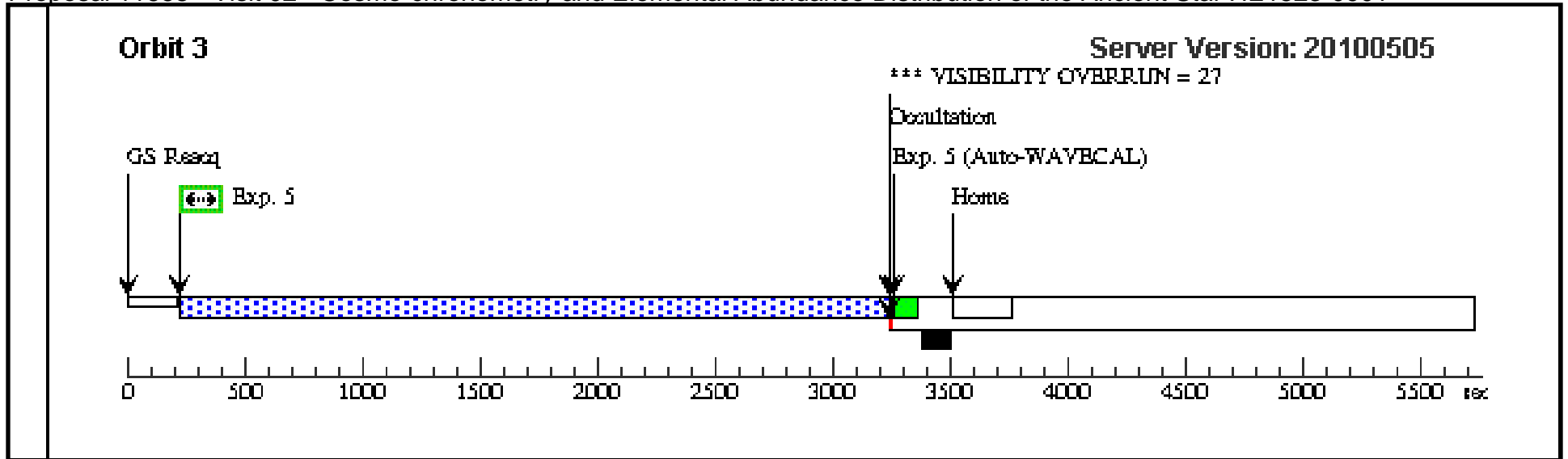


Proposal 11668 - Visit 01 - Cosmo-chronometry and Elemental Abundance Distribution of the Ancient Star HE1523-0901

Tue Sep 21 01:04:32 GMT 2010

Visit	Proposal 11668, Visit 02, completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/NUV-MAMA Special Requirements: PCS MODE FINE; GUID TOL 2"; GYRO MODE 3GOBAD <i>Comments: dithering with FP-slits A,B,C used. data should be inspected to see if bad flat issues have ben resolved.</i>									
	(Visit 02) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 02) Warning (Orbit Planner): VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	HE1523-0901 Alt Name1: S231023250 Alt Name2: 2MASSJ15260106-0911388	RA: 15 26 1.0723 (231.5044679d) Dec: -09 11 38.94 (-9.19415d) Equinox: J2000	Proper Motion RA: -0.0299s/yr Proper Motion Dec: -0.0341"/yr Epoch of Position: 1978.86 Radial Velocity: -162.3 km/sec	V=11.1+/-0.05 B=12.2+-0.05	Reference Frame: ICRS				
<i>Comments: Coordinates are from GSC2.2</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	acq	(1) HE1523-0901	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs [==>]	[1]
	2	acqpeak	(1) HE1523-0901	STIS/CCD, ACQ/PEAK, 0.2X0.06	MIRROR				0.1 Secs [==>]	[1]
	3	obsA	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06FPA	E230M 2707 A				1920 Secs [==>2027.0 Secs]	[1]
	4	obsE	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06FPE	E230M 2707 A				3017 Secs [==>3005.0 Secs]	[2]
	5	obsB	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06FPB	E230M 2707 A				3017 Secs [==>2986.0 Secs]	[3]

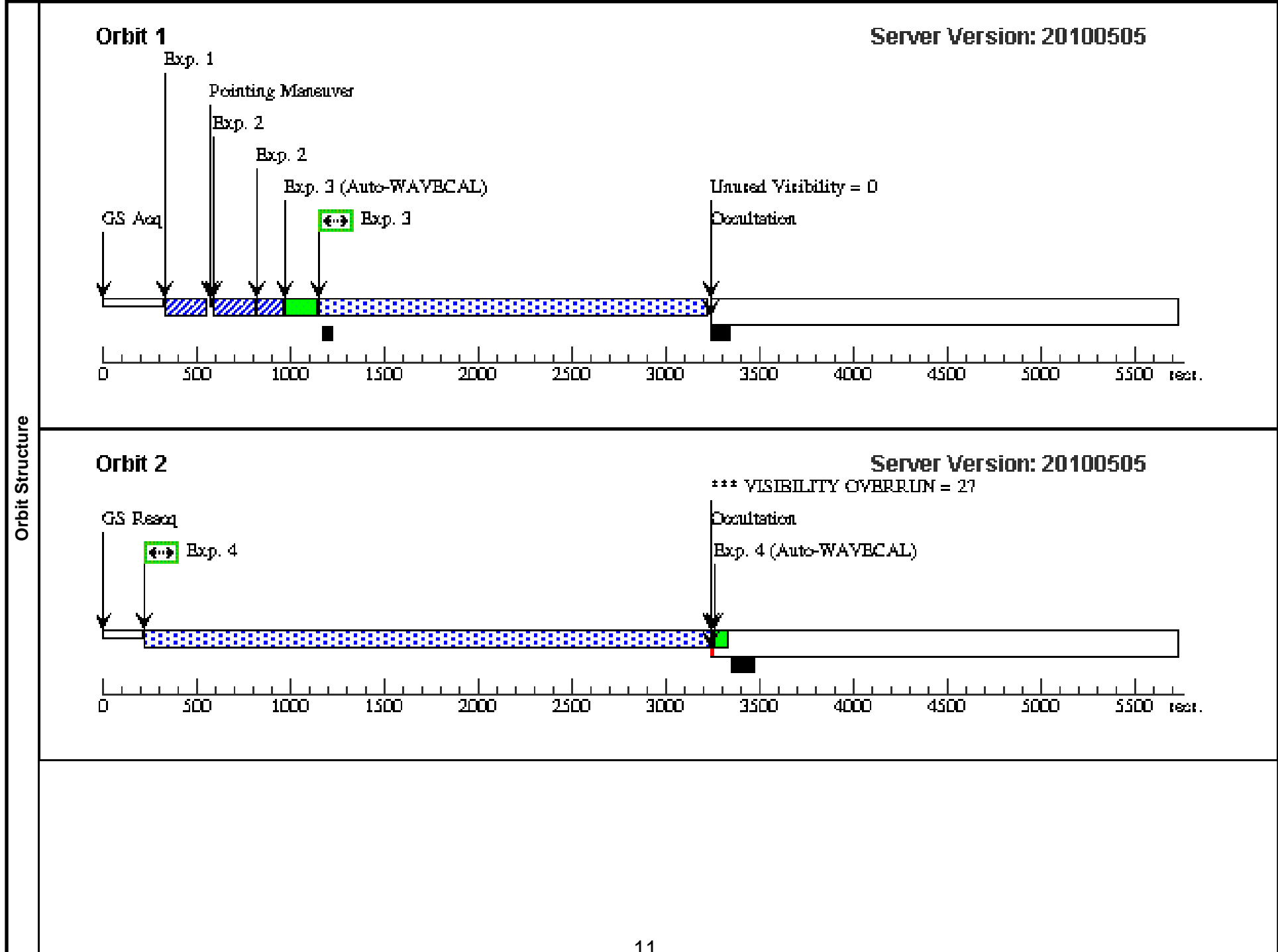


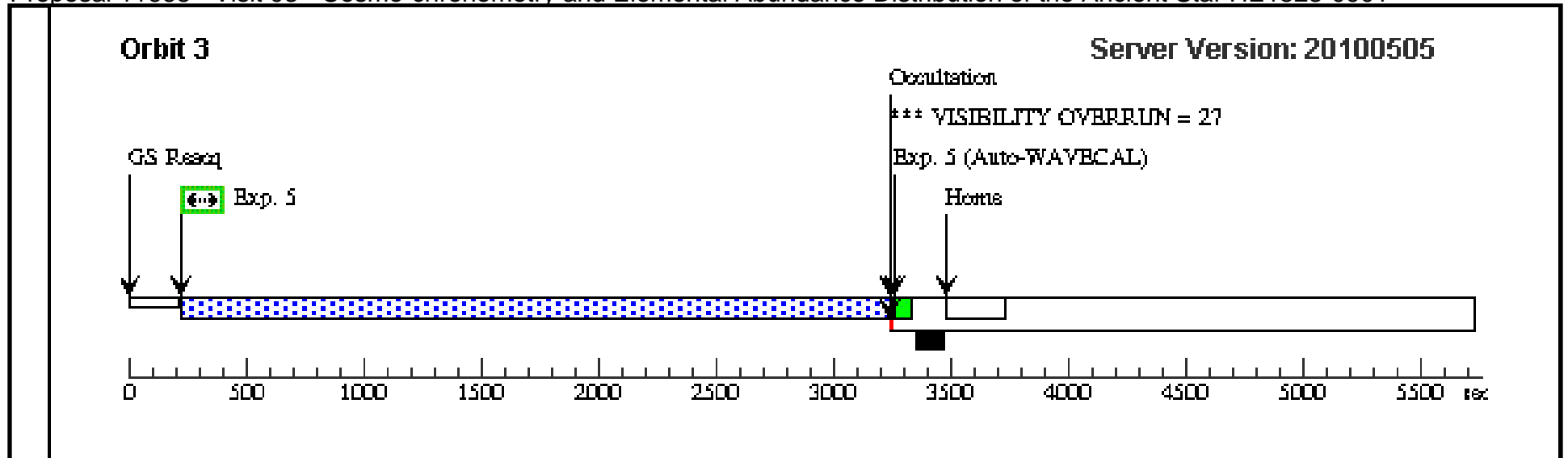


Proposal 11668 - Visit 02 - Cosmo-chronometry and Elemental Abundance Distribution of the Ancient Star HE1523-0901

Tue Sep 21 01:04:33 GMT 2010

Visit	Proposal 11668, Visit 03, completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/NUV-MAMA Special Requirements: PCS MODE FINE; GUID TOL 2"; GYRO MODE 3GOBAD <i>Comments: no dithering used</i>									
	(Visit 03) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 03) Warning (Orbit Planner): VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	HE1523-0901 Alt Name1: S231023250 Alt Name2: 2MASSJ15260106-0911388	RA: 15 26 1.0723 (231.5044679d) Dec: -09 11 38.94 (-9.19415d) Equinox: J2000	Proper Motion RA: -0.0299s/yr Proper Motion Dec: -0.0341"/yr Epoch of Position: 1978.86 Radial Velocity: -162.3 km/sec	V=11.1+/-0.05 B=12.2+-0.05	Reference Frame: ICRS				
<i>Comments: Coordinates are from GSC2.2</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	acq	(1) HE1523-0901	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs [==>]	[1]
	2	acqpeak	(1) HE1523-0901	STIS/CCD, ACQ/PEAK, 0.2X0.06	MIRROR				0.1 Secs [==>]	[1]
	3	obs	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06	E230M 2707 A				1920 Secs [==>2058.0 Secs]	[1]
	4	obs	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06	E230M 2707 A				3017 Secs [==>3017.0 Secs]	[2]
	5	obs	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06	E230M 2707 A				3017 Secs [==>3017.0 Secs]	[3]

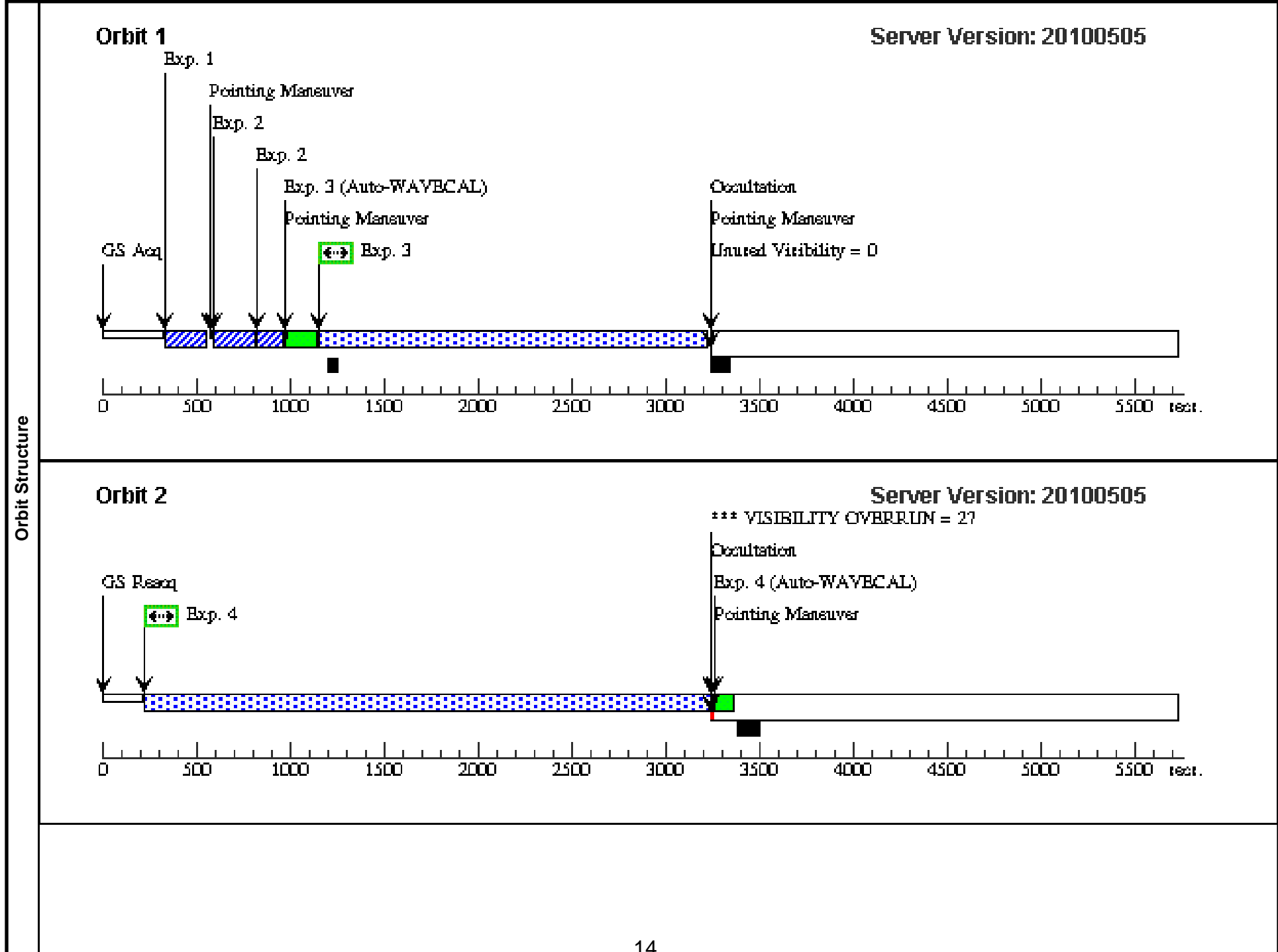


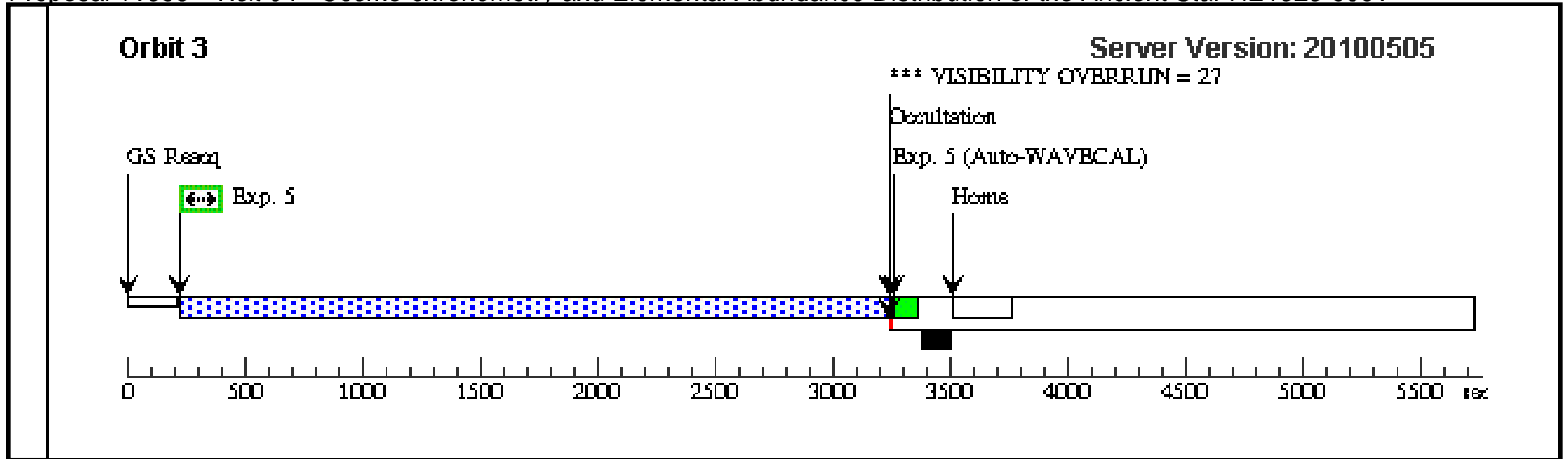


Proposal 11668 - Visit 03 - Cosmo-chronometry and Elemental Abundance Distribution of the Ancient Star HE1523-0901

Tue Sep 21 01:04:34 GMT 2010

Visit	Proposal 11668, Visit 04, completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/NUV-MAMA Special Requirements: PCS MODE FINE; GUID TOL 2"; GYRO MODE 3GOBAD <i>Comments: dithering with FP-slits A,B,C used</i>									
	(Visit 04) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 04) Warning (Orbit Planner): VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	HE1523-0901 Alt Name1: S231023250 Alt Name2: 2MASSJ15260106-0911388	RA: 15 26 1.0723 (231.5044679d) Dec: -09 11 38.94 (-9.19415d) Equinox: J2000	Proper Motion RA: -0.0299s/yr Proper Motion Dec: -0.0341"/yr Epoch of Position: 1978.86 Radial Velocity: -162.3 km/sec	V=11.1+/-0.05 B=12.2+-0.05	Reference Frame: ICRS				
<i>Comments: Coordinates are from GSC2.2</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	acq	(1) HE1523-0901	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs [==>]	[1]
	2	acqpeak	(1) HE1523-0901	STIS/CCD, ACQ/PEAK, 0.2X0.06	MIRROR				0.1 Secs [==>]	[1]
	3	obsA	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06FPA	E230M 2707 A				1920 Secs [==>2027.0 Secs]	[1]
	4	obsE	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06FPE	E230M 2707 A				3017 Secs [==>3005.0 Secs]	[2]
	5	obsB	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06FPB	E230M 2707 A				3017 Secs [==>2986.0 Secs]	[3]

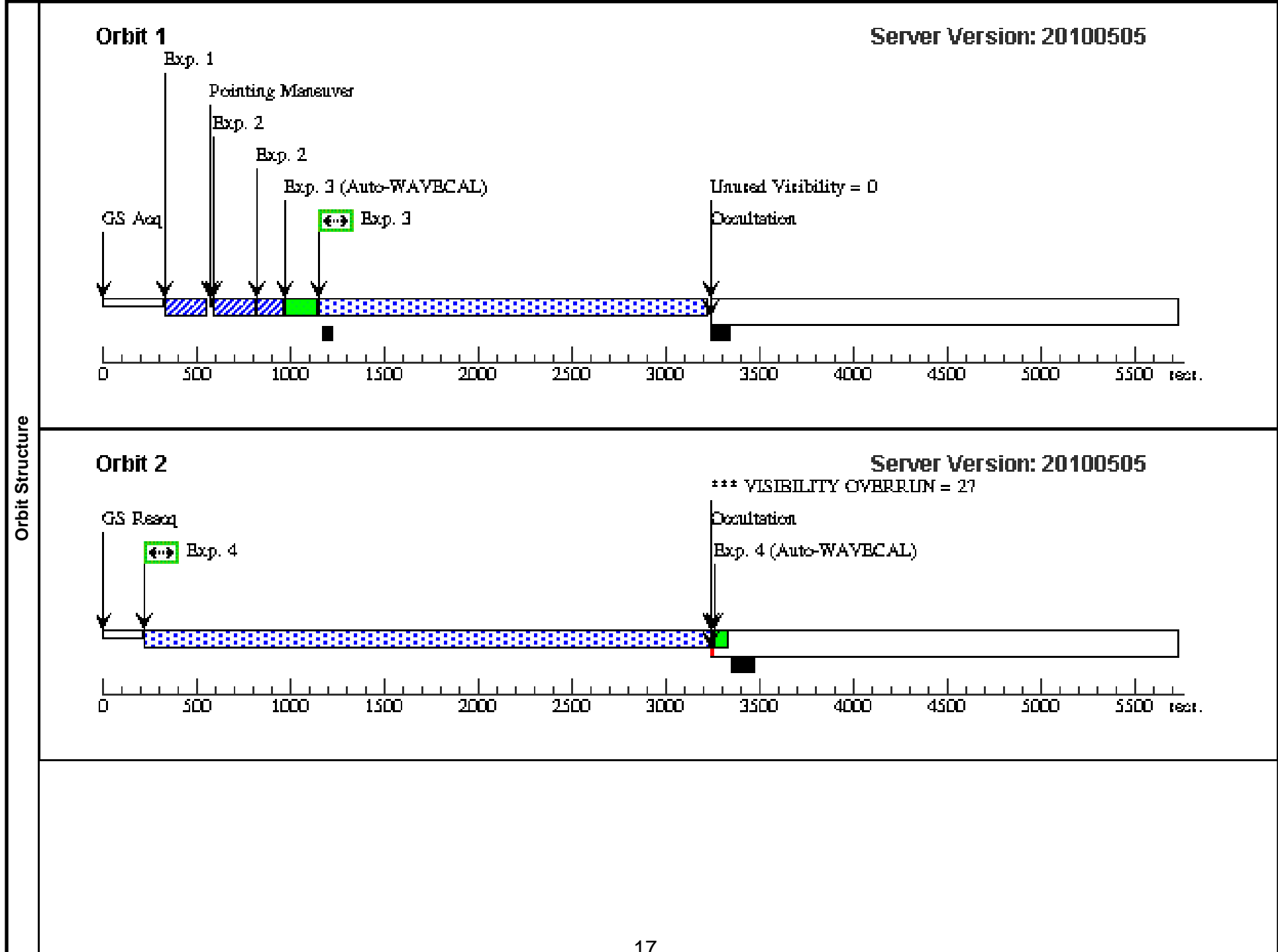


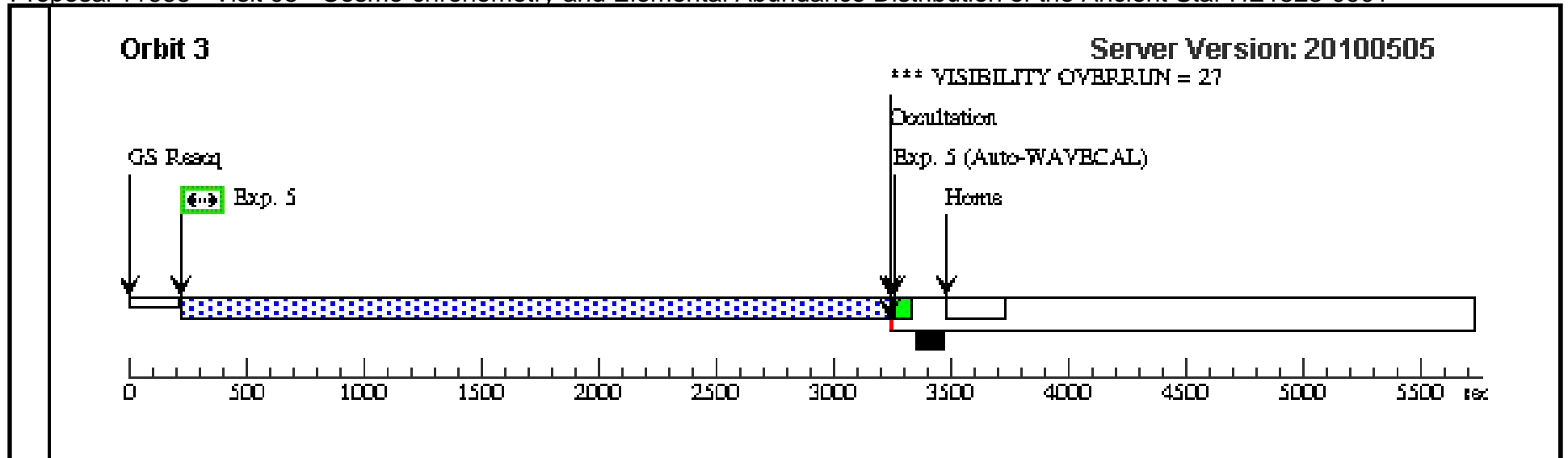


Proposal 11668 - Visit 04 - Cosmo-chronometry and Elemental Abundance Distribution of the Ancient Star HE1523-0901

Tue Sep 21 01:04:34 GMT 2010

Visit	Proposal 11668, Visit 05, completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/NUV-MAMA Special Requirements: PCS MODE FINE; GUID TOL 2"; GYRO MODE 3GOBAD <i>Comments: no dithering used</i>									
	(Visit 05) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 05) Warning (Orbit Planner): VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	HE1523-0901 Alt Name1: S231023250 Alt Name2: 2MASSJ15260106-0911388	RA: 15 26 1.0723 (231.5044679d) Dec: -09 11 38.94 (-9.19415d) Equinox: J2000	Proper Motion RA: -0.0299s/yr Proper Motion Dec: -0.0341"/yr Epoch of Position: 1978.86 Radial Velocity: -162.3 km/sec	V=11.1+/-0.05 B=12.2+-0.05	Reference Frame: ICRS				
<i>Comments: Coordinates are from GSC2.2</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	acq	(1) HE1523-0901	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs [==>]	[1]
	2	acqpeak	(1) HE1523-0901	STIS/CCD, ACQ/PEAK, 0.2X0.06	MIRROR				0.1 Secs [==>]	[1]
	3	obs	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06	E230M 2707 A				1920 Secs [==>2058.0 Secs]	[1]
	4	obs	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06	E230M 2707 A				3017 Secs [==>3017.0 Secs]	[2]
	5	obs	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06	E230M 2707 A				3017 Secs [==>3017.0 Secs]	[3]

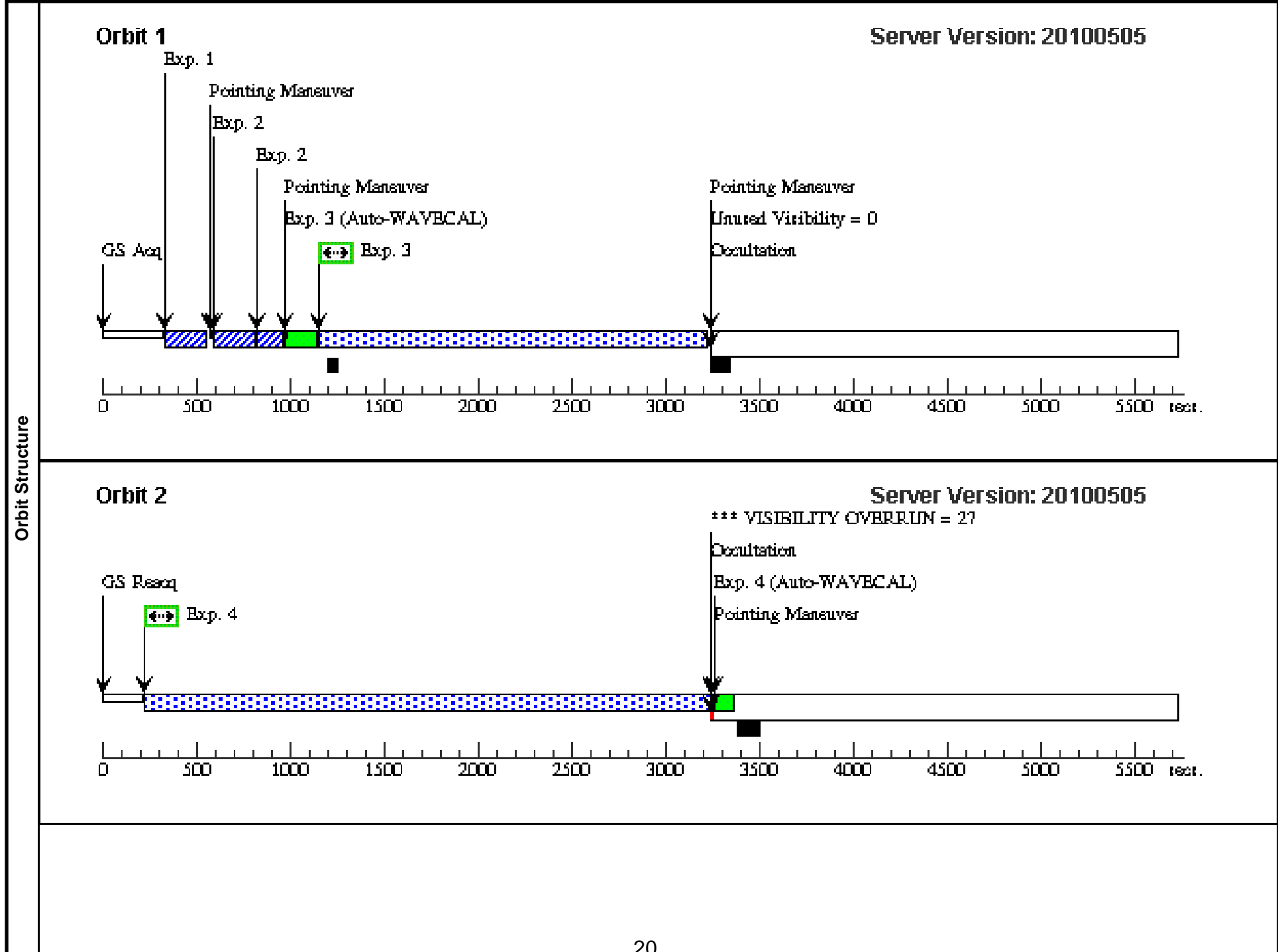


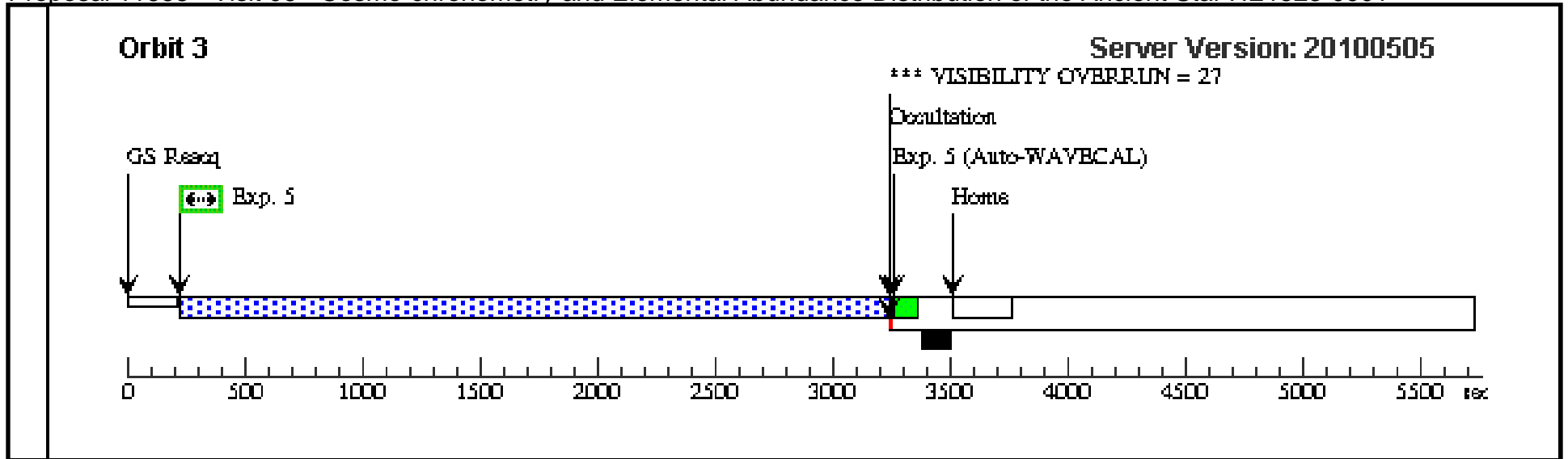


Proposal 11668 - Visit 05 - Cosmo-chronometry and Elemental Abundance Distribution of the Ancient Star HE1523-0901

Tue Sep 21 01:04:35 GMT 2010

Visit	Proposal 11668, Visit 06, completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/NUV-MAMA Special Requirements: PCS MODE FINE; GUID TOL 2"; GYRO MODE 3GOBAD <i>Comments: dithering with FP-slits A,B,C used</i>									
	(Visit 06) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 06) Warning (Orbit Planner): VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	HE1523-0901 Alt Name1: S231023250 Alt Name2: 2MASSJ15260106-0911388	RA: 15 26 1.0723 (231.5044679d) Dec: -09 11 38.94 (-9.19415d) Equinox: J2000	Proper Motion RA: -0.0299s/yr Proper Motion Dec: -0.0341"/yr Epoch of Position: 1978.86 Radial Velocity: -162.3 km/sec	V=11.1+/-0.05 B=12.2+-0.05	Reference Frame: ICRS				
<i>Comments: Coordinates are from GSC2.2</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	acq	(1) HE1523-0901	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs [==>]	[1]
	2	acqpeak	(1) HE1523-0901	STIS/CCD, ACQ/PEAK, 0.2X0.06	MIRROR				0.1 Secs [==>]	[1]
	3	obsA	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06FPA	E230M 2707 A				1920 Secs [==>2027.0 Secs]	[1]
	4	obsE	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06FPE	E230M 2707 A				3017 Secs [==>3005.0 Secs]	[2]
	5	obsB	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06FPB	E230M 2707 A				3017 Secs [==>2986.0 Secs]	[3]

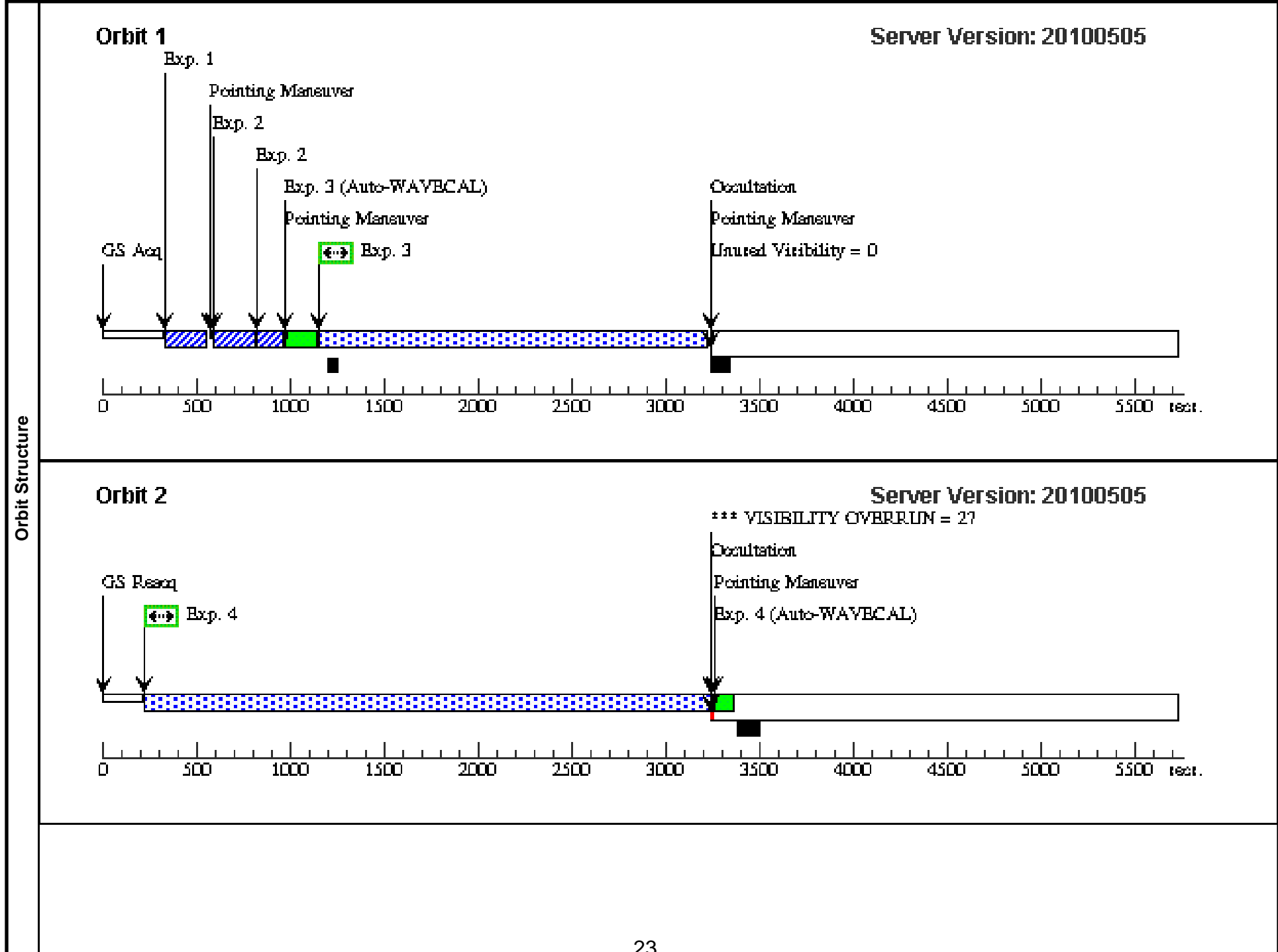


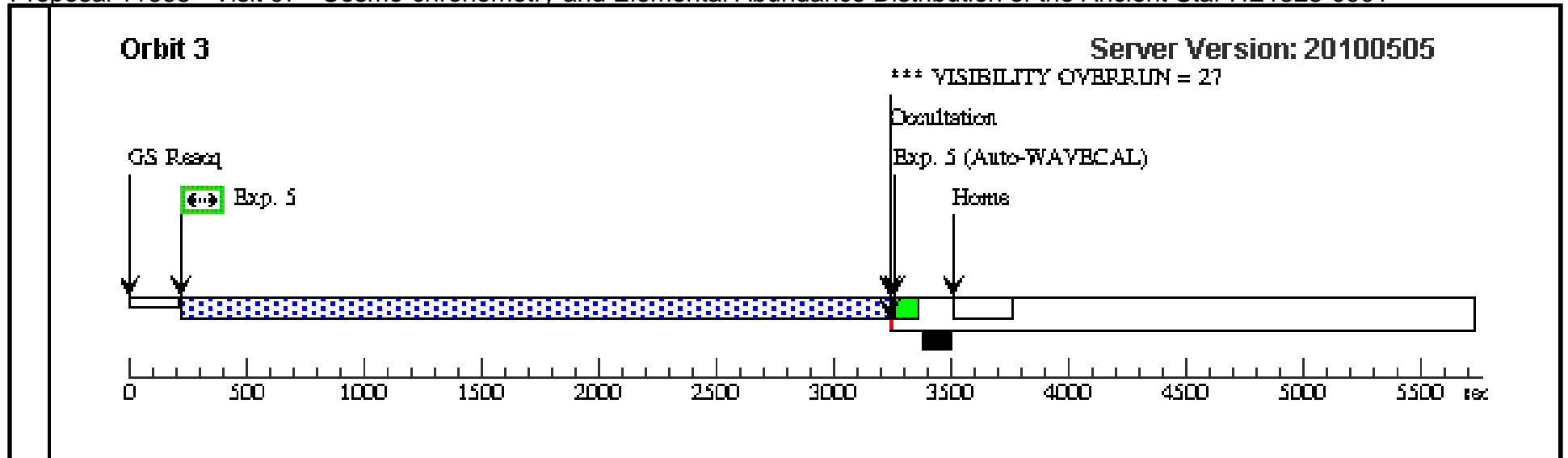


Proposal 11668 - Visit 06 - Cosmo-chronometry and Elemental Abundance Distribution of the Ancient Star HE1523-0901

Tue Sep 21 01:04:36 GMT 2010

Visit	Proposal 11668, Visit 07, scheduling Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/NUV-MAMA Special Requirements: PCS MODE FINE; GUID TOL 2"; GYRO MODE 3GOBAD <i>Comments: dithering with FP-slits A,B,C used</i>									
	(Visit 07) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 07) Warning (Orbit Planner): VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	HE1523-0901 Alt Name1: S231023250 Alt Name2: 2MASSJ15260106-0911388	RA: 15 26 1.0723 (231.5044679d) Dec: -09 11 38.94 (-9.19415d) Equinox: J2000	Proper Motion RA: -0.0299s/yr Proper Motion Dec: -0.0341"/yr Epoch of Position: 1978.86 Radial Velocity: -162.3 km/sec	V=11.1+/-0.05 B=12.2+-0.05	Reference Frame: ICRS				
<i>Comments: Coordinates are from GSC2.2</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	acq	(1) HE1523-0901	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs [==>]	[1]
	2	acqpeak	(1) HE1523-0901	STIS/CCD, ACQ/PEAK, 0.2X0.06	MIRROR				0.1 Secs [==>]	[1]
	3	obsA	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06FPA	E230M 2707 A				1920 Secs [==>2027.0 Secs]	[1]
	4	obsE	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06FPE	E230M 2707 A				3017 Secs [==>3005.0 Secs]	[2]
	5	obsB	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06FPB	E230M 2707 A				3017 Secs [==>2986.0 Secs]	[3]

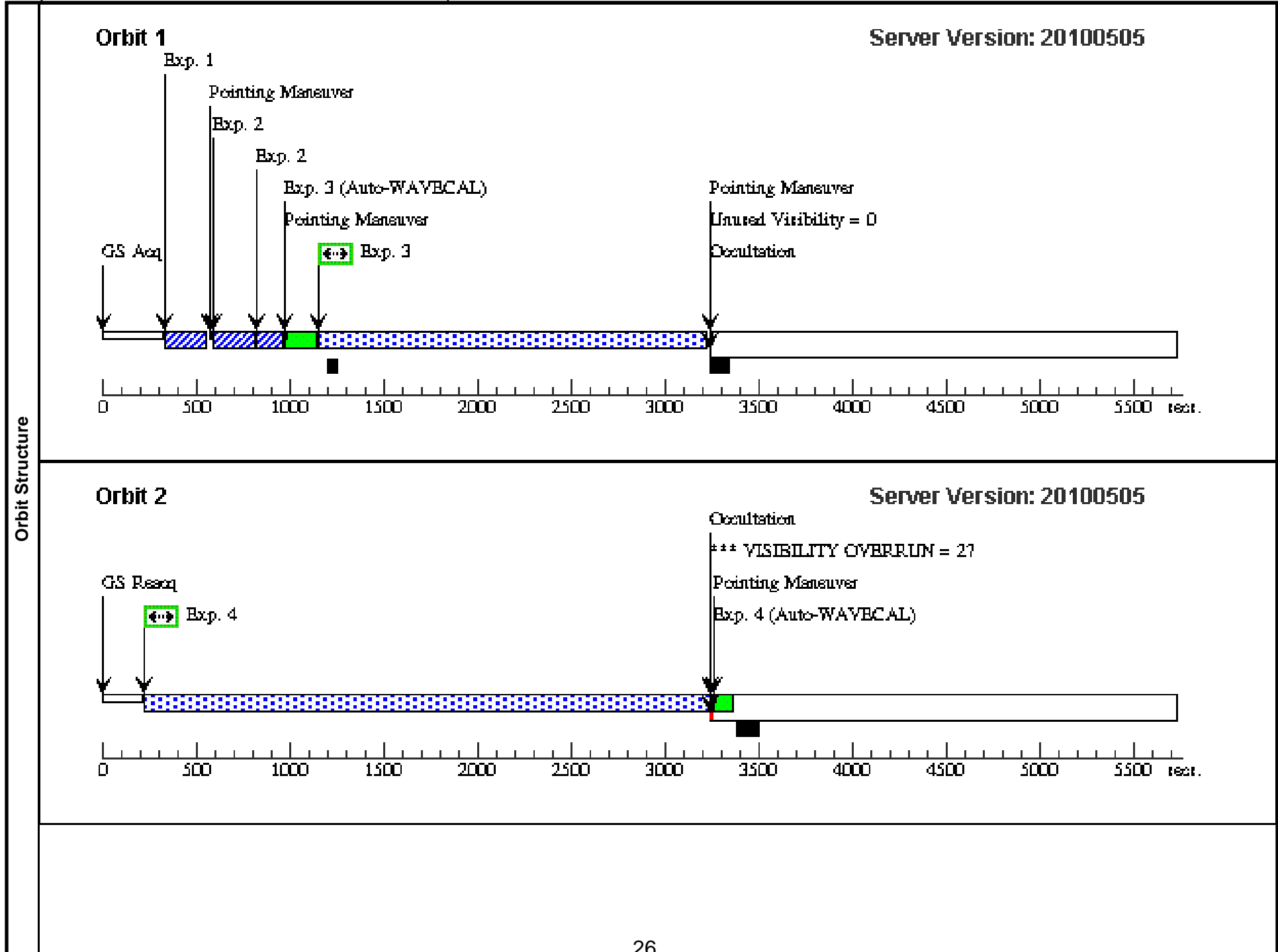


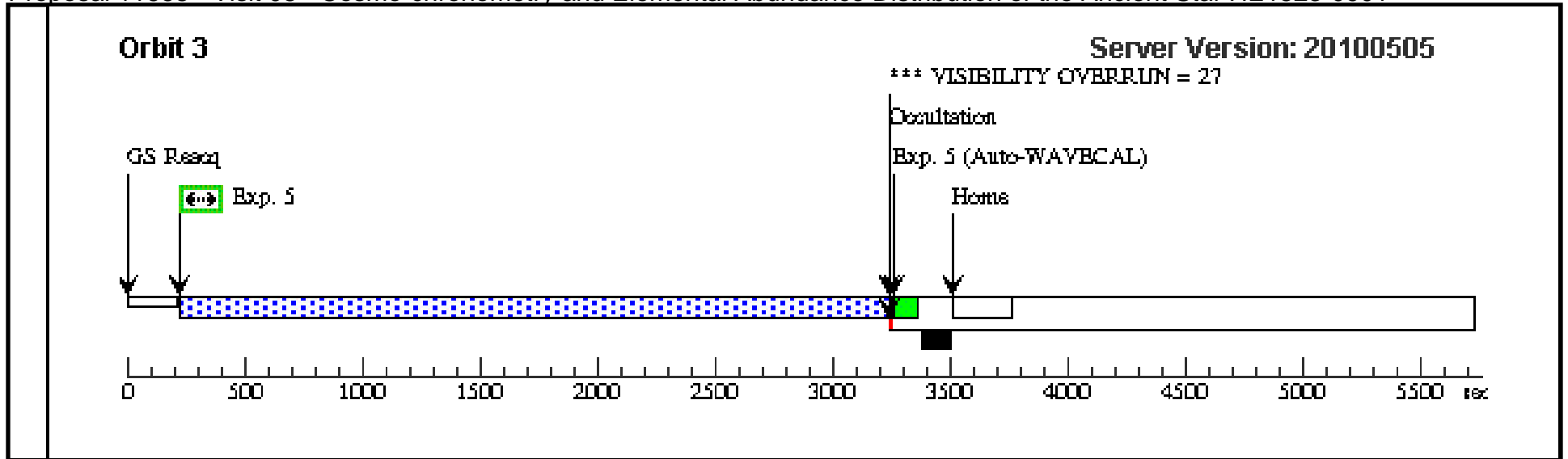


Proposal 11668 - Visit 07 - Cosmo-chronometry and Elemental Abundance Distribution of the Ancient Star HE1523-0901

Tue Sep 21 01:04:36 GMT 2010

Visit	Proposal 11668, Visit 08, failed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/NUV-MAMA Special Requirements: PCS MODE FINE; GUID TOL 2"; GYRO MODE 3GOBAD <i>Comments: dithering with FP-slits A,B,C used</i>									
	(Visit 08) Warning (Orbit Planner): VISIBILITY OVERRUN (Visit 08) Warning (Orbit Planner): VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	HE1523-0901 Alt Name1: S231023250 Alt Name2: 2MASSJ15260106-0911388	RA: 15 26 1.0723 (231.5044679d) Dec: -09 11 38.94 (-9.19415d) Equinox: J2000	Proper Motion RA: -0.0299s/yr Proper Motion Dec: -0.0341"/yr Epoch of Position: 1978.86 Radial Velocity: -162.3 km/sec	V=11.1+/-0.05 B=12.2+-0.05	Reference Frame: ICRS				
<i>Comments: Coordinates are from GSC2.2</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	acq	(1) HE1523-0901	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs [==>]	[1]
	2	acqpeak	(1) HE1523-0901	STIS/CCD, ACQ/PEAK, 0.2X0.06	MIRROR				0.1 Secs [==>]	[1]
	3	obsA	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06FPA	E230M 2707 A				1920 Secs [==>2027.0 Secs]	[1]
	4	obsE	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06FPE	E230M 2707 A				3017 Secs [==>3005.0 Secs]	[2]
	5	obsB	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06FPB	E230M 2707 A				3017 Secs [==>2986.0 Secs]	[3]

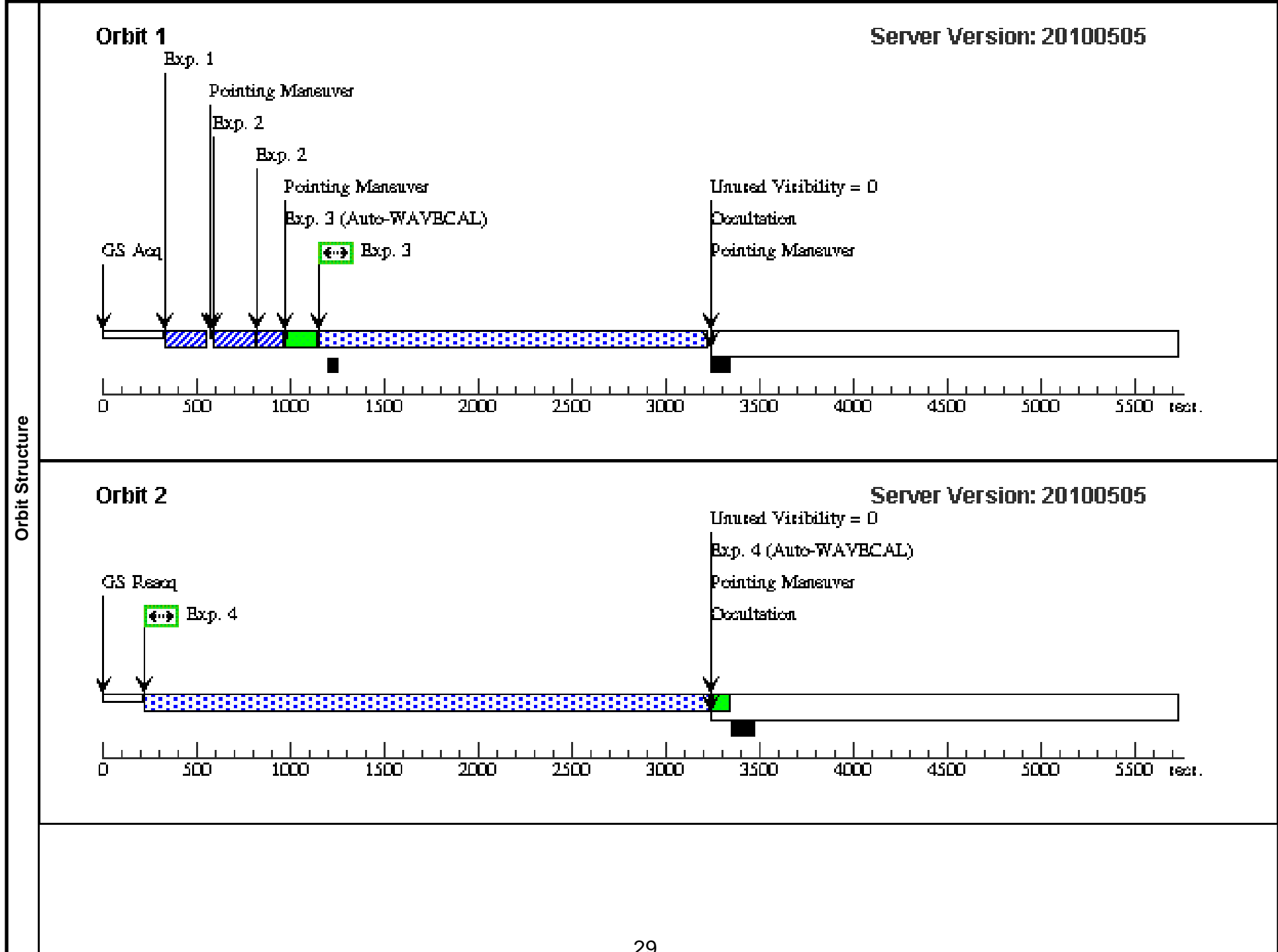


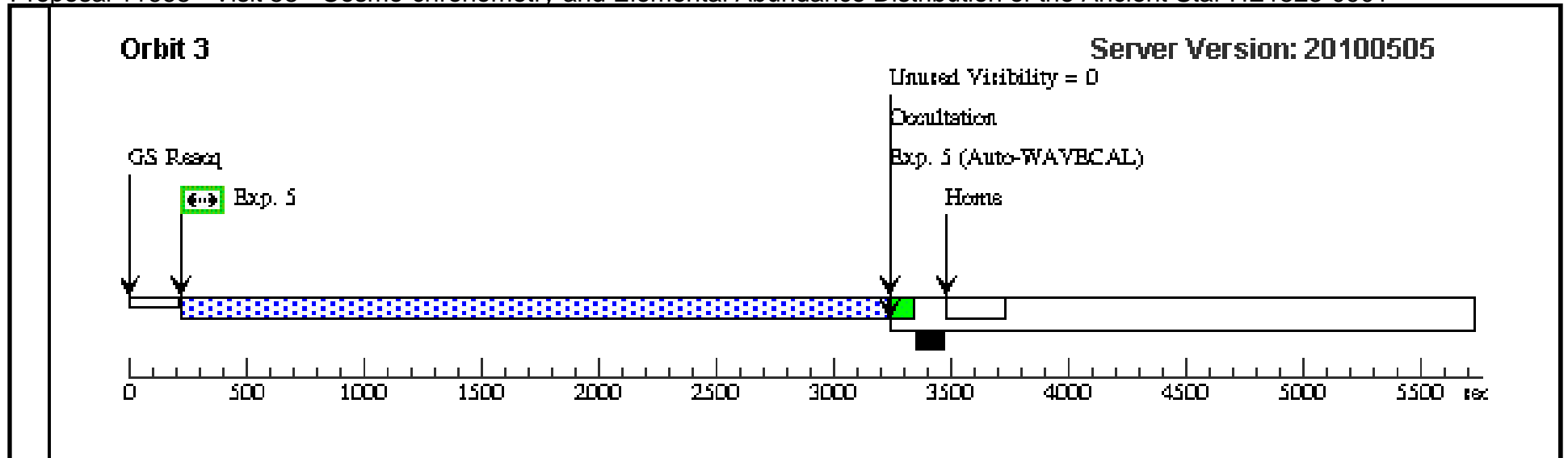


Proposal 11668 - Visit 08 - Cosmo-chronometry and Elemental Abundance Distribution of the Ancient Star HE1523-0901

Tue Sep 21 01:04:37 GMT 2010

Visit	Proposal 11668, Visit 58 Diagnostic Status: No Diagnostics Scientific Instruments: STIS/CCD, STIS/NUV-MAMA Special Requirements: PCS MODE FINE; GUID TOL 2"; GYRO MODE 3GOBAD Comments: dithering with FP-slits A,B,C used									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(1)	HE1523-0901	RA: 15 26 1.0723 (231.5044679d) Alt Name1: S231023250 Alt Name2: 2MASSJ15260106-0911388	Dec: -09 11 38.94 (-9.19415d) Equinox: J2000	Proper Motion RA: -0.0299s/yr Proper Motion Dec: -0.0341"/yr Epoch of Position: 1978.86 Radial Velocity: -162.3 km/sec	V=11.1+/-0.05 B=12.2+-0.05	Reference Frame: ICRS			
	Comments: Coordinates are from GSC2.2									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	acq	(1) HE1523-0901	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs	
									[==>]	[1]
	2	acqpeak	(1) HE1523-0901	STIS/CCD, ACQ/PEAK, 0.2X0.06	MIRROR				0.1 Secs	
									[==>]	[1]
	3	obsA	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06FPA	E230M	2707 A			1920 Secs	
								[==>2027.0 Secs]	[1]	
4	obsE	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06FPE	E230M	2707 A			3017 Secs		
								[==>2978.0 Secs]	[2]	
5	obsB	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06FPB	E230M	2707 A			3017 Secs		
								[==>2959.0 Secs]	[3]	





Proposal 11668 - Visit 58 - Cosmo-chronometry and Elemental Abundance Distribution of the Ancient Star HE1523-0901

Tue Sep 21 01:04:37 GMT 2010

Visit	Proposal 11668, Visit 09, completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/NUV-MAMA Special Requirements: PCS MODE FINE; GUID TOL 2"; GYRO MODE 3GOBAD <i>Comments: dithering with FP-slits A,B,C used</i>									
	Diagnosics (Visit 09) Warning (Orbit Planner): VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	HE1523-0901 Alt Name1: S231023250 Alt Name2: 2MASSJ15260106-0911388	RA: 15 26 1.0723 (231.5044679d) Dec: -09 11 38.94 (-9.19415d) Equinox: J2000	Proper Motion RA: -0.0299s/yr Proper Motion Dec: -0.0341"/yr Epoch of Position: 1978.86 Radial Velocity: -162.3 km/sec	V=11.1+/-0.05 B=12.2+-0.05	Reference Frame: ICRS				
<i>Comments: Coordinates are from GSC2.2</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	acq	(1) HE1523-0901	STIS/CCD, ACQ, F28X50LP	MIRROR				0.1 Secs [==>]	[1]
	2	acqpeak	(1) HE1523-0901	STIS/CCD, ACQ/PEAK, 0.2X0.06	MIRROR				0.1 Secs [==>]	[1]
	3	obsA	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06FPA	E230M 2707 A				1920 Secs [==>2027.0 Secs]	[1]
	4	obsE	(1) HE1523-0901	STIS/NUV-MAMA, ACCUM, 0.2X0.06FPE	E230M 2707 A				3017 Secs [==>3005.0 Secs]	[2]

