13180 - Search for a Transit of Alpha Centauri Bb, the First Earth-mass Exoplanet Orbiting a Sun-like Star

Cycle: 20, Proposal Category: GO/DD

(Availability Mode: AVAILABLE)

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VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(1) ALPHA-CEN-A (2) ALPHA-CEN-B WAVE	STIS/CCD	16	11-Jun-2013 01:33:21.0	yes
02	(1) ALPHA-CEN-A	S/C	1	11-Jun-2013 02:08:22.0	yes
04	(1) ALPHA-CEN-A	S/C	1	11-Jun-2013 02:08:23.0	yes
03	(1) ALPHA-CEN-A	S/C	1	11-Jun-2013 02:08:25.0	yes
05	(1) ALPHA-CEN-A	S/C	1	11-Jun-2013 02:08:26.0	yes

20 Total Orbits Used

ABSTRACT

The eagerly awaited detection of an Earth-mass planet using the radial-velocity technique has been announced last week (Dumusque et al. 2012). This planet, Alpha Cen Bb orbits our close neighbor alpha Cen B and has the potential to become a true Rosetta stone in exoplanet science, if its transiting nature were revealed. HST/STIS is the only facility able to detect a transit from such a small planet at a high confidence level. We propose to quasi-continuously monitor the expected transit window of Alpha Cen B b during 26 hours (16 orbits) to encompass the orbital solutions allowed by the published radial-velocity dataset, that we reanalyzed for this purpose. If alpha Cen Bb is transiting, our proposed observations will not only confirm the existence of the planet but also yield for the first time the density of an Earth-mass exoplanet and constrain its interior composition. Our observations using the G750M grating will provide the first spectrum of a terrestrial exoplanet, with possibly detectable water features. In the case of an exosphere tail, detection of the sodium doublet would be achievable, depending on the tail extension. Finally, the transit light curve shape will constrain alpha Cen Bb's orbital eccentricity. This would be an important constraint for planetary formation and evolution models in binary systems. If no transit is detected, our observations will still be important: detection of p-mode oscillations and granulation is expected for alpha Cen A and B, which will constrain convection and radiative transport modeling in the atmosphere of cool main-sequence stars.

OBSERVING DESCRIPTION

This program aims at searching for a transit of the Earth-mass planet detected around Alpha Centauri Bb. The transit could occur at the inferior conjunction, which ephemeris can be derived from the radial velocities, albeit with a 1-sigma uncertainty of ~4h. Therefore, we will use a CVZ opportunity to quasi-continuously monitor the expected transit window of Alpha Cen B b during 26 hours (16 orbits) to encompass the possible orbital solutions. Not only the CVZ window shall contain a transit, but it shall also allow for a specific roll angle of the telescope, in order to exclude

Alpha Centauri A from the long slit. These conditions are met during the 2013 July CVZ opportunity.

We propose to do the acquisition of Alpha Cen B in the same way as for programs #12374, 12758, or 13060, where an ACQ exposure is first performed on Alpha Cen A before shifting the pointing to Alpha Cen B, which is defined here as an offset target. ACQ and ACQ/PEAK exposures are then performed on Alpha Cen B, using the narrowest long slit (52"x0.05") in order to obtain the best possible centering of the star in the largest slit (52"x2") that will be used for the science exposures. This choice is made to minimize slit losses while hiding Alpha Cen A (which is also why the telescope roll angle matters).

For the science exposures, we will use STIS/CCD with G750M (6094) and an exposure time of 6s. Alpha Cen B *will be saturated* and we estimate that the bleeding should extent over no more than +/-30 pixels from the spectral trace (and would not reach the diffraction spikes from Alpha Cen A for the selected roll angle).

Visit

Proposal 13180, July CVZ (01), implementation Tue Jun 11 06:08:33 GMT 2013

Diagnostic Status: Warning

Scientific Instruments: STIS/CCD

Special Requirements: CVZ; ORIENT 60D TO 60 D; BETWEEN 07-JUL-2013:16:00:00 AND 08-JUL-2013:19:06:00

Comments: This CVZ observation is to be done from July 07 17:18 UT to July 08 19:06 UT.

The visit is to schedule from July 07 16:58 UT to July 08 19:52 UT (Start of GSACQ to end of HOME).

Diagnostics

(July CVZ (01)) Warning (Orbit Planner): LONG SU LIKELY TO INTERSECT THE SAA

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	ALPHA-CEN-A	RA: 14 39 30.2940 (219.8762250d)	Proper Motion RA: -3.64 arcsec/yr	V=-0.01	Reference Frame: ICRS
	Alt Name1: HR-5459	Dec: -60 49 58.86 (-60.83302d)	Proper Motion Dec: +0.11 arcsec/yr		
	Alt Name2: HD128620	Equinox: J2000	Parallax: 0.747"		
			Epoch of Position: 2012.0		
			Radial Velocity: 24 km/sec		

Comments: The star coordinates are copied from Proposal 13060 by T. Ayres and were directly measured from high-precision Chandra HRC-I images. They differ minimally from those cited in Simbad.

(2)	ALPHA-CEN-B	Offset from ALPHA-CEN-A		V=1.33	Offset Position (ALPHA-CEN-B)
	Alt Name1: HR-5460	RA Offset: -0.625 Secs			
	Alt Name2: HD128621	Dec Offset: 0.104 Arcsec			

Comments: These offset are calculated from a position angle (theta) and separation (rho) between Alpha Cen A and Alpha Cen B, taking Alpha Cen A as the reference:
rho = 4.57"
theta = 271.3 deg

From there, we have:
RA_offset = -rho x COS(theta) = -4.57" = -0.305s*
RA_offset = RA_offset / COS(DEC) = -9.34" = -0.625s*
*DEC_offset = rho * SIN(theta) = 0.104".*

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ-AlphaCenA (STIS.ta.444649)	(1) ALPHA-CEN-A	STIS/CCD, ACQ, F25ND5	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	 ***[1]***
2	ACQ-AlphaCenB (STIS.ta.444660)	(2) ALPHA-CEN-B	STIS/CCD, ACQ, F25ND5	MIRROR				0.1 Secs (0.1 Secs) *[==>]*	 ***[1]***
3	ACQ/PEAK-AlphaCenB	(2) ALPHA-CEN-B	STIS/CCD, ACQ/PEAK, 52X0.05	G750M 6094 A				0.1 Secs (0.1 Secs) *[==>]*	 ***[1]***
Comments: Setting GAIN=4, which needs to be done within the AVAILABLE mode, is required to avoid saturation for this acquisition.									
4	GO-WAVE CAL	WAVE	STIS/CCD, ACCUM, 52X0.2	G750M 6094 A				*[==>]*	***[1]***

	5	SCI-AlphaCenB (STIS.sp.44662)	(2) ALPHA-CEN-B	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=300; WAVECAL=NO	6 Secs X 333 (1998 Secs)	

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Comments: This exposure will be deliberately satured (time to saturation = 0.3s).

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Comments: This exposure will be deliberately satured (time to saturation = 0.3s).

	7	SCI-AlphaCenB (STIS.sp.44662)	(2) ALPHA-CEN-B	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=300	NEW OBSET	6 Secs X 333 (1998 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]*	***[5]***

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Comments: This exposure will be deliberately satured (time to saturation = 0.3s).

	8	SCI-AlphaCenB (STIS.sp.44662)	(2) ALPHA-CEN-B	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=300	NEW OBSET	6 Secs X 117 (702 Secs)	

		[==>(Copy 1)] *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]* *[==>(Copy 34)]* *[==>(Copy 35)]* *[==>(Copy 36)]* *[==>(Copy 37)]* *[==>(Copy 38)]* *[==>(Copy 39)]* *[==>(Copy 40)]* *[==>(Copy 41)]* *[==>(Copy 42)]* *[==>(Copy 43)]* *[==>(Copy 44)]* *[==>(Copy 45)]*	***[8]***

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Comments: This exposure will be deliberately satured (time to saturation = 0.3s).

	9	SCI-AlphaCenB (STIS.sp.44662)	(2) ALPHA-CEN-B	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=300	NEW ALIGNMENT	6 Secs X 116 (696 Secs)	

		[==>(Copy 1)] *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]* *[==>(Copy 34)]* *[==>(Copy 35)]* *[==>(Copy 36)]* *[==>(Copy 37)]* *[==>(Copy 38)]* *[==>(Copy 39)]* *[==>(Copy 40)]* *[==>(Copy 41)]* *[==>(Copy 42)]* *[==>(Copy 43)]* *[==>(Copy 44)]* *[==>(Copy 45)]*	***[9]***

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Comments: This exposure will be deliberately satured (time to saturation = 0.3s).

	10	SCI-AlphaCenB (STIS.sp.44662)	(2) ALPHA-CEN-B	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=300	NEW ALIGNMENT	6 Secs X 106 (636 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]*	***[9]***

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Comments: This exposure will be deliberately satured (time to saturation = 0.3s).

	11	SCI-AlphaCenB (STIS.sp.44662)	(2) ALPHA-CEN-B	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=300	NEW OBSET	6 Secs X 109 (654 Secs)	

		[==>(Copy 1)] *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]* *[==>(Copy 34)]* *[==>(Copy 35)]* *[==>(Copy 36)]* *[==>(Copy 37)]* *[==>(Copy 38)]* *[==>(Copy 39)]* *[==>(Copy 40)]* *[==>(Copy 41)]* *[==>(Copy 42)]* *[==>(Copy 43)]* *[==>(Copy 44)]* *[==>(Copy 45)]*	***[10]***

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Comments: This exposure will be deliberately satured (time to saturation = 0.3s).

	12	SCI-AlphaCenB (STIS.sp.44662)	(2) ALPHA-CEN-B	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=300	NEW ALIGNMENT	6 Secs X 115 (690 Secs)	

		[==>(Copy 1)] *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]* *[==>(Copy 34)]* *[==>(Copy 35)]* *[==>(Copy 36)]* *[==>(Copy 37)]* *[==>(Copy 38)]* *[==>(Copy 39)]* *[==>(Copy 40)]* *[==>(Copy 41)]* *[==>(Copy 42)]* *[==>(Copy 43)]* *[==>(Copy 44)]* *[==>(Copy 45)]*	***[11]***

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Comments: This exposure will be deliberately satured (time to saturation = 0.3s).

13	SCI-AlphaCenB (STIS.sp.44662)	(2) ALPHA-CEN-B	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=300	NEW ALIGNMENT	6 Secs X 111 (666 Secs)	

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Comments: This exposure will be deliberately satured (time to saturation = 0.3s).

	14	SCI-AlphaCenB (STIS.sp.44662)	(2) ALPHA-CEN-B	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=300	NEW OBSET	6 Secs X 114 (684 Secs)	

		[==>(Copy 1)] *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]* *[==>(Copy 15)]* *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]* *[==>(Copy 34)]* *[==>(Copy 35)]* *[==>(Copy 36)]* *[==>(Copy 37)]* *[==>(Copy 38)]* *[==>(Copy 39)]* *[==>(Copy 40)]* *[==>(Copy 41)]* *[==>(Copy 42)]* *[==>(Copy 43)]* *[==>(Copy 44)]* *[==>(Copy 45)]*	***[13]***

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Comments: This exposure will be deliberately satured (time to saturation = 0.3s).

	15	SCI-AlphaCenB (STIS.sp.44662)	(2) ALPHA-CEN-B	STIS/CCD, ACCUM, 52X2	G750M 6094 A	CR-SPLIT=NO; GAIN=4; SIZEAXIS2=300	NEW OBSET	6 Secs X 300 (1800 Secs) *[==>(Copy 1)]* *[==>(Copy 2)]* *[==>(Copy 3)]* *[==>(Copy 4)]* *[==>(Copy 5)]* *[==>(Copy 6)]* *[==>(Copy 7)]* *[==>(Copy 8)]* *[==>(Copy 9)]* *[==>(Copy 10)]* *[==>(Copy 11)]* *[==>(Copy 12)]* *[==>(Copy 13)]* *[==>(Copy 14)]*	***[13]***

		[==>(Copy 15)] *[==>(Copy 16)]* *[==>(Copy 17)]* *[==>(Copy 18)]* *[==>(Copy 19)]* *[==>(Copy 20)]* *[==>(Copy 21)]* *[==>(Copy 22)]* *[==>(Copy 23)]* *[==>(Copy 24)]* *[==>(Copy 25)]* *[==>(Copy 26)]* *[==>(Copy 27)]* *[==>(Copy 28)]* *[==>(Copy 29)]* *[==>(Copy 30)]* *[==>(Copy 31)]* *[==>(Copy 32)]* *[==>(Copy 33)]* *[==>(Copy 34)]* *[==>(Copy 35)]* *[==>(Copy 36)]* *[==>(Copy 37)]* *[==>(Copy 38)]* *[==>(Copy 39)]* *[==>(Copy 40)]* *[==>(Copy 41)]* *[==>(Copy 42)]* *[==>(Copy 43)]* *[==>(Copy 44)]* *[==>(Copy 45)]* *[==>(Copy 46)]* *[==>(Copy 47)]* *[==>(Copy 48)]* *[==>(Copy 49)]* *[==>(Copy 50)]* *[==>(Copy 51)]* *[==>(Copy 52)]* *[==>(Copy 53)]* *[==>(Copy 54)]* *[==>(Copy 55)]* *[==>(Copy 56)]* *[==>(Copy 57)]* *[==>(Copy 58)]* *[==>(Copy 59)]*	***[14]***

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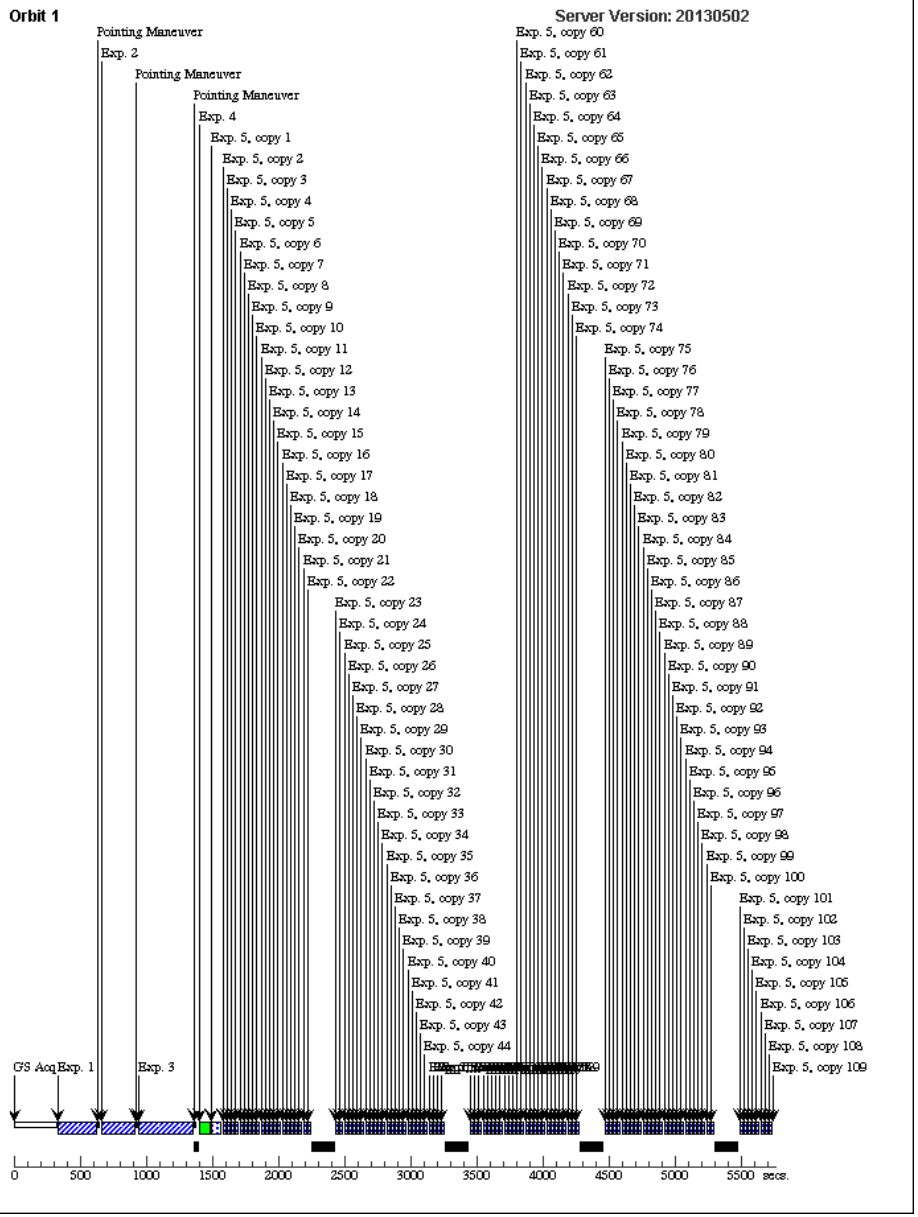
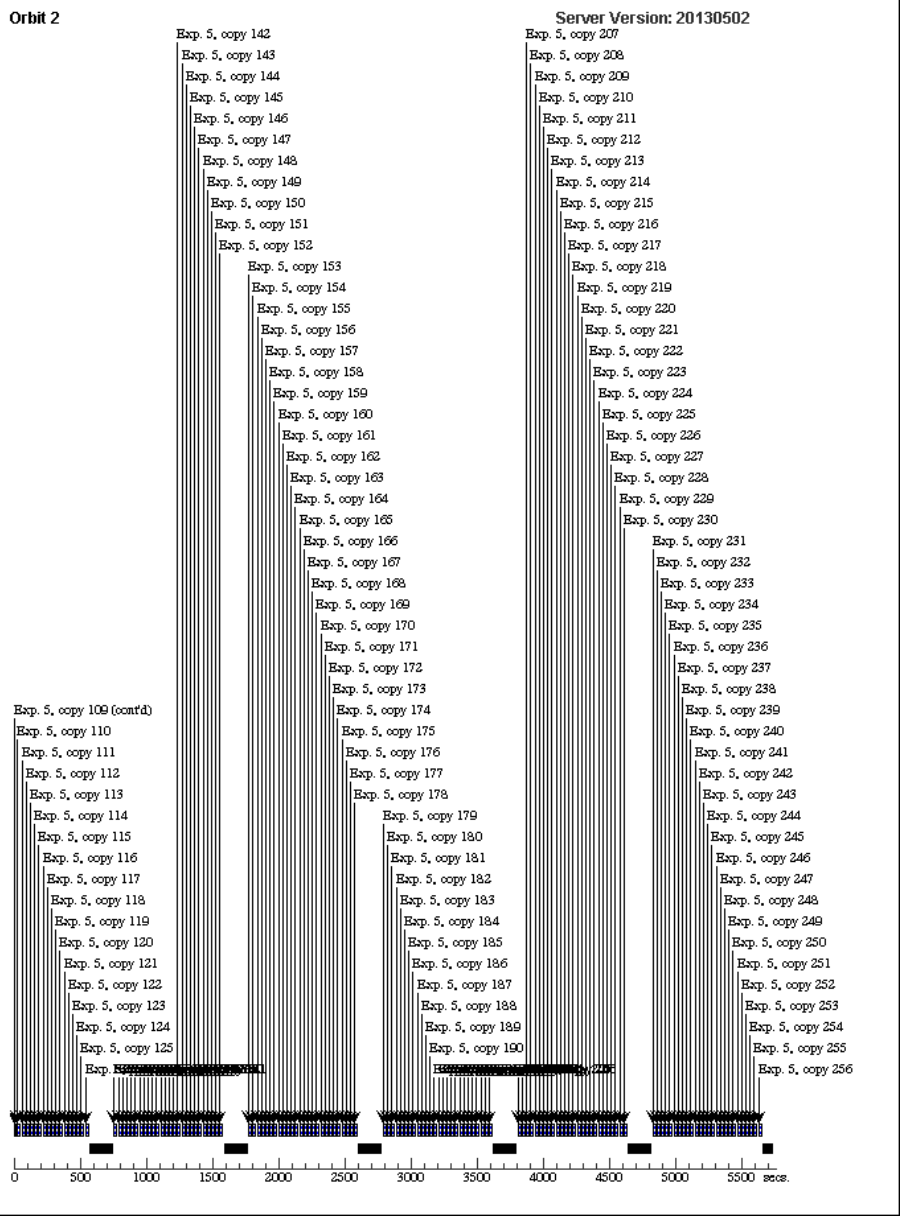
					[==>(Copy 295)] *[==>(Copy 296)]* *[==>(Copy 297)]* *[==>(Copy 298)]* *[==>(Copy 299)]* *[==>(Copy 300)]*	
Comments: This exposure will be deliberately satured (time to saturation = 0.3s).						
16	GO-WAVE CAL	WAVE	STIS/CCD, ACCUM, 52X0.2	G750M 6094 A	*[==>]*	***[15]***

Orbit Structure

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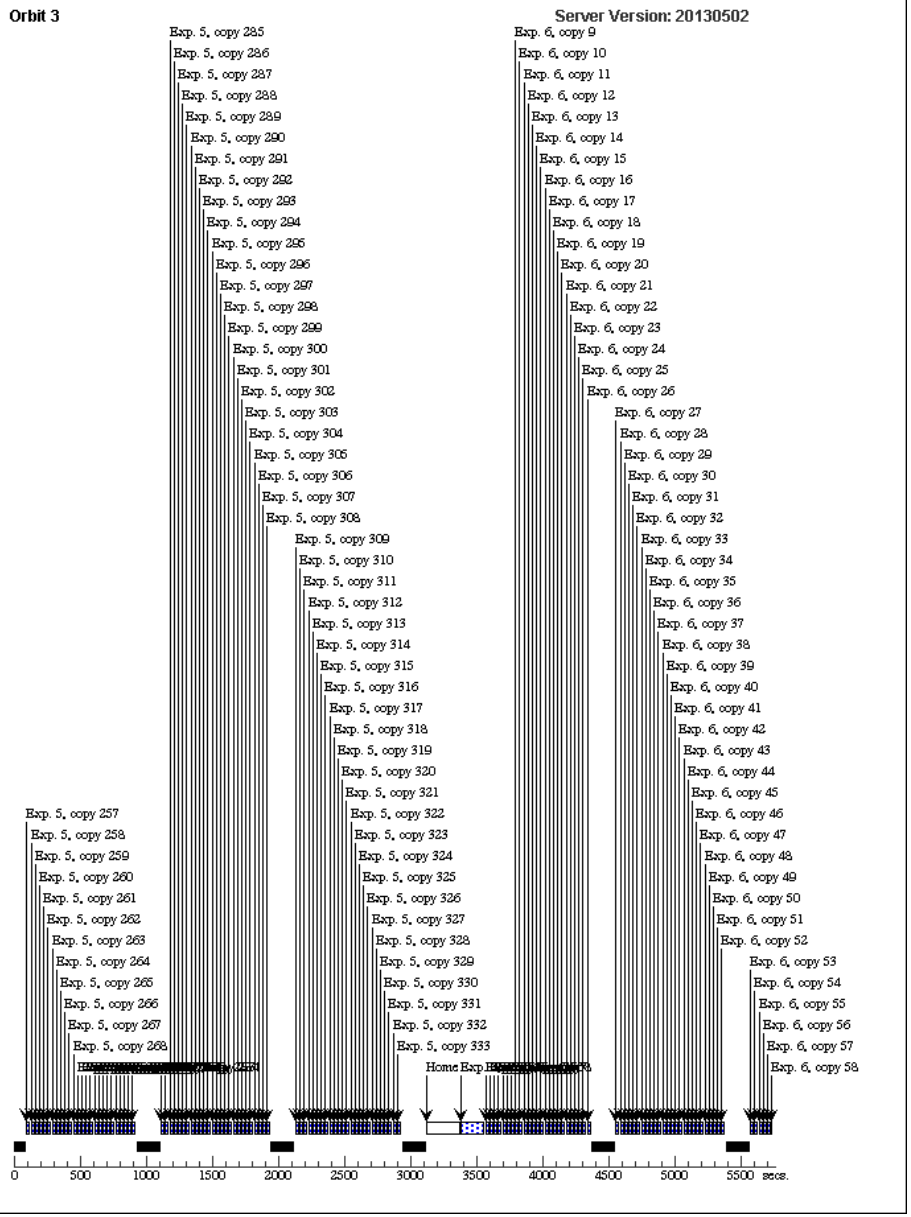
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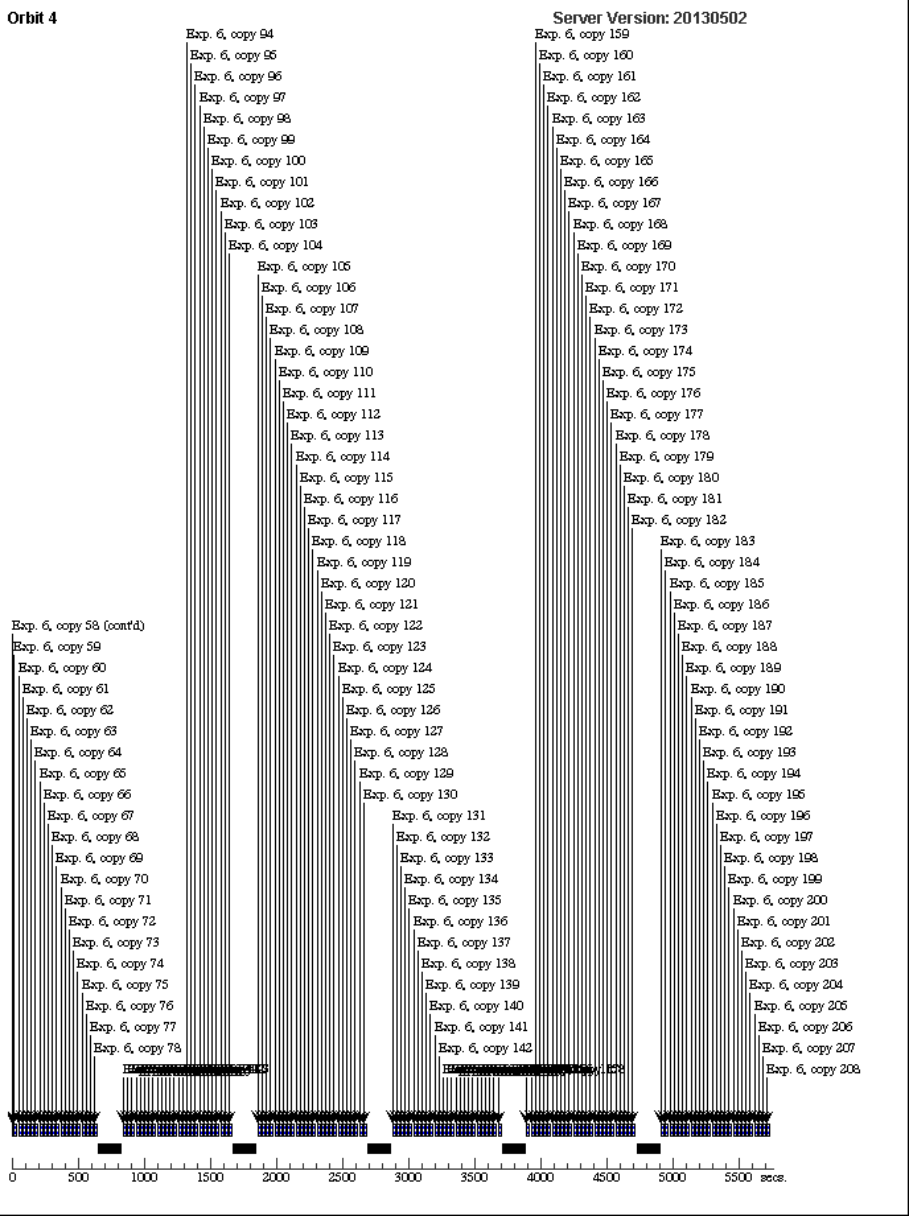
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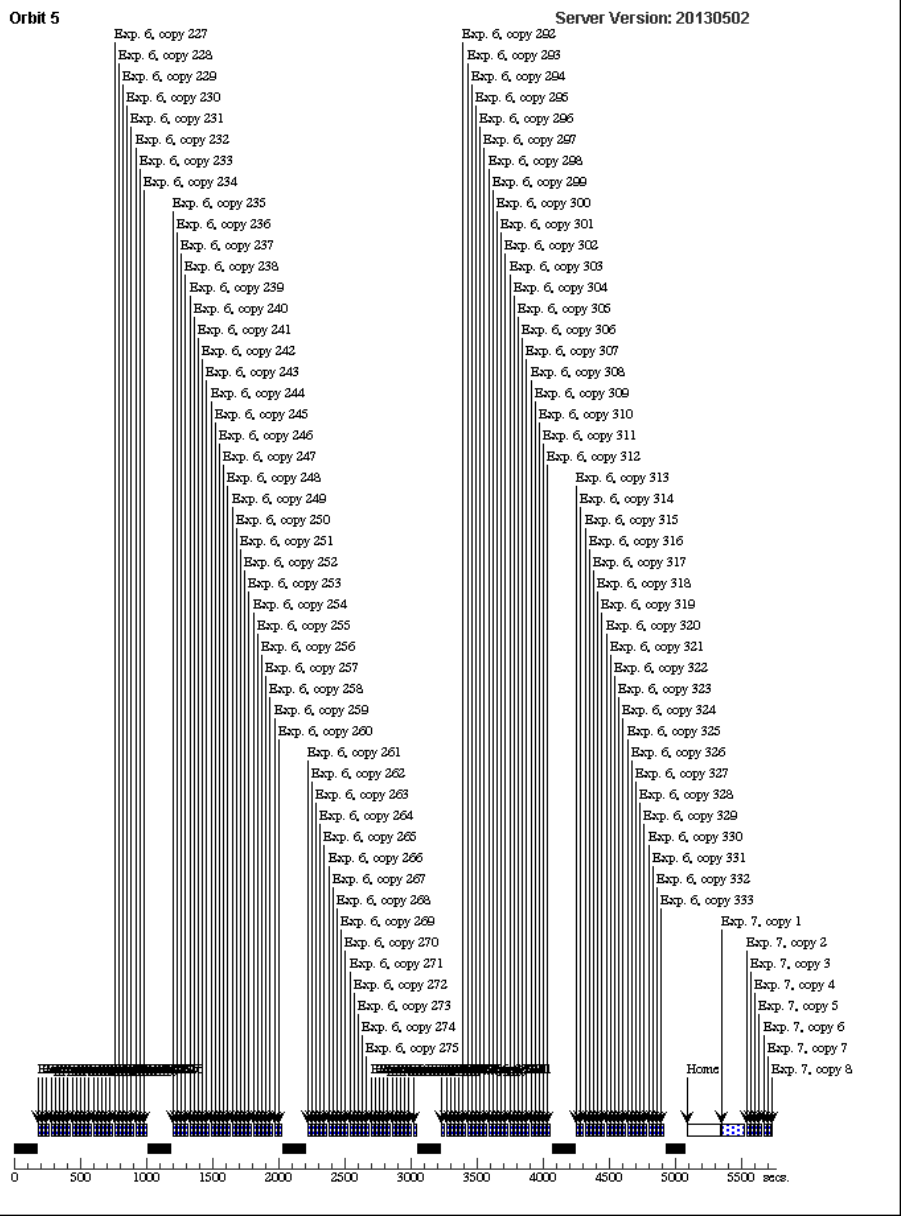
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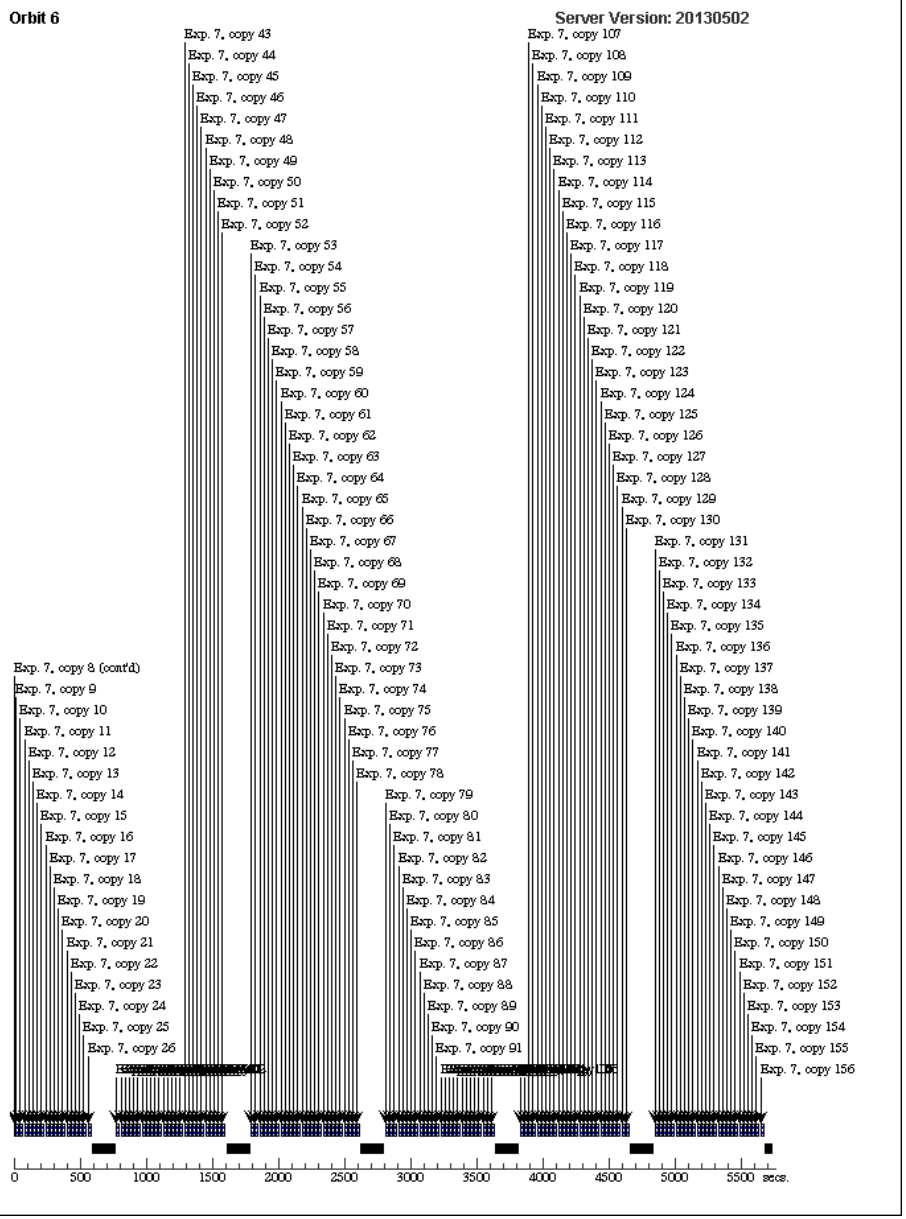
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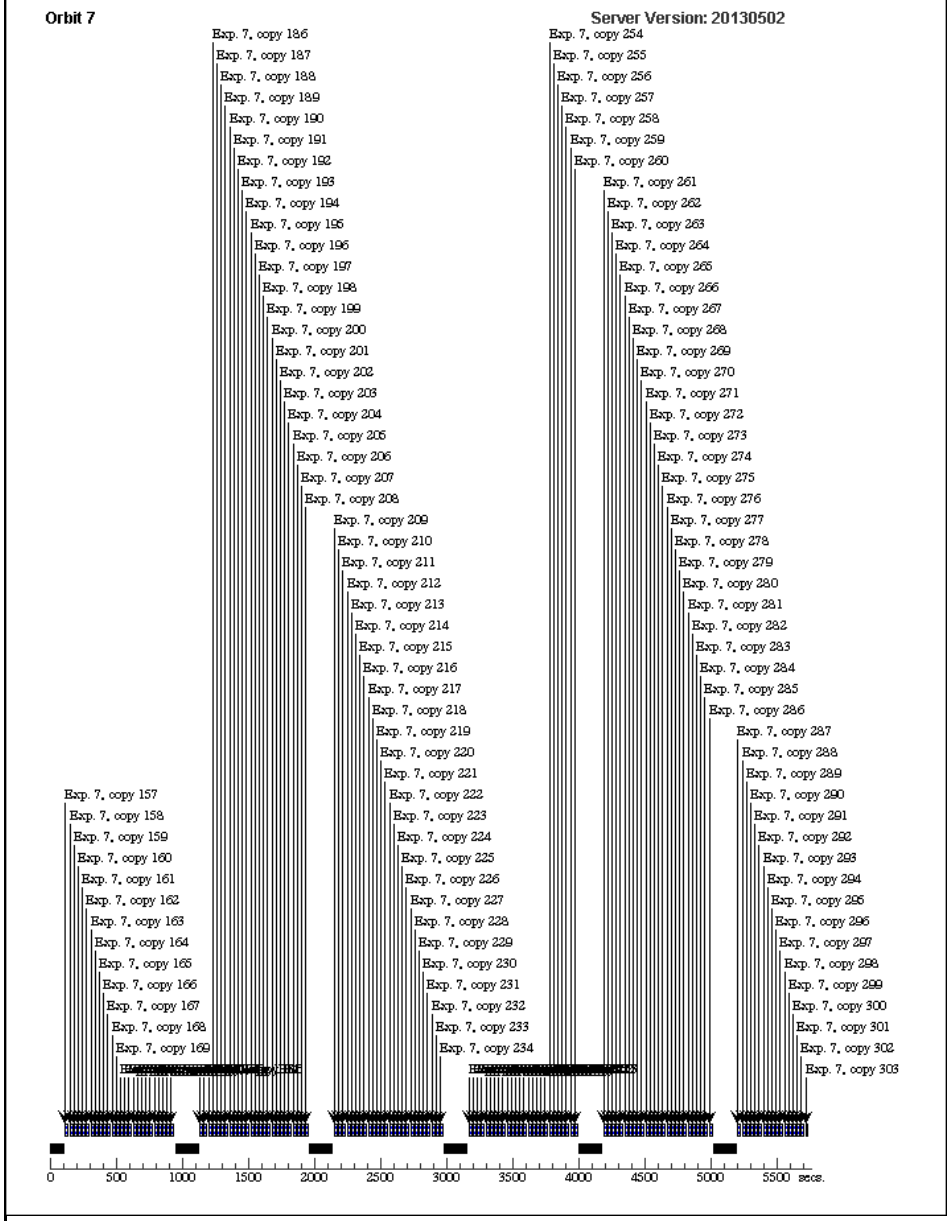
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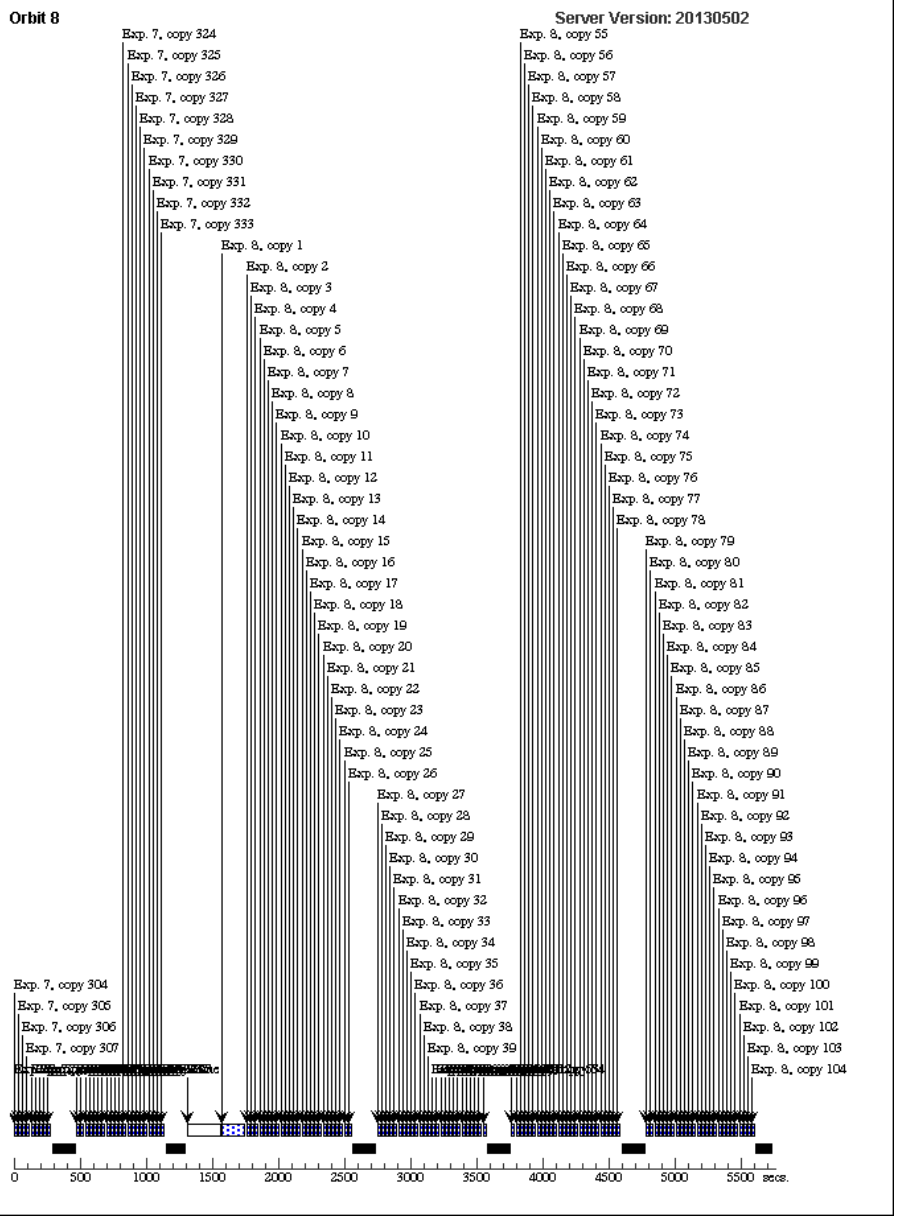
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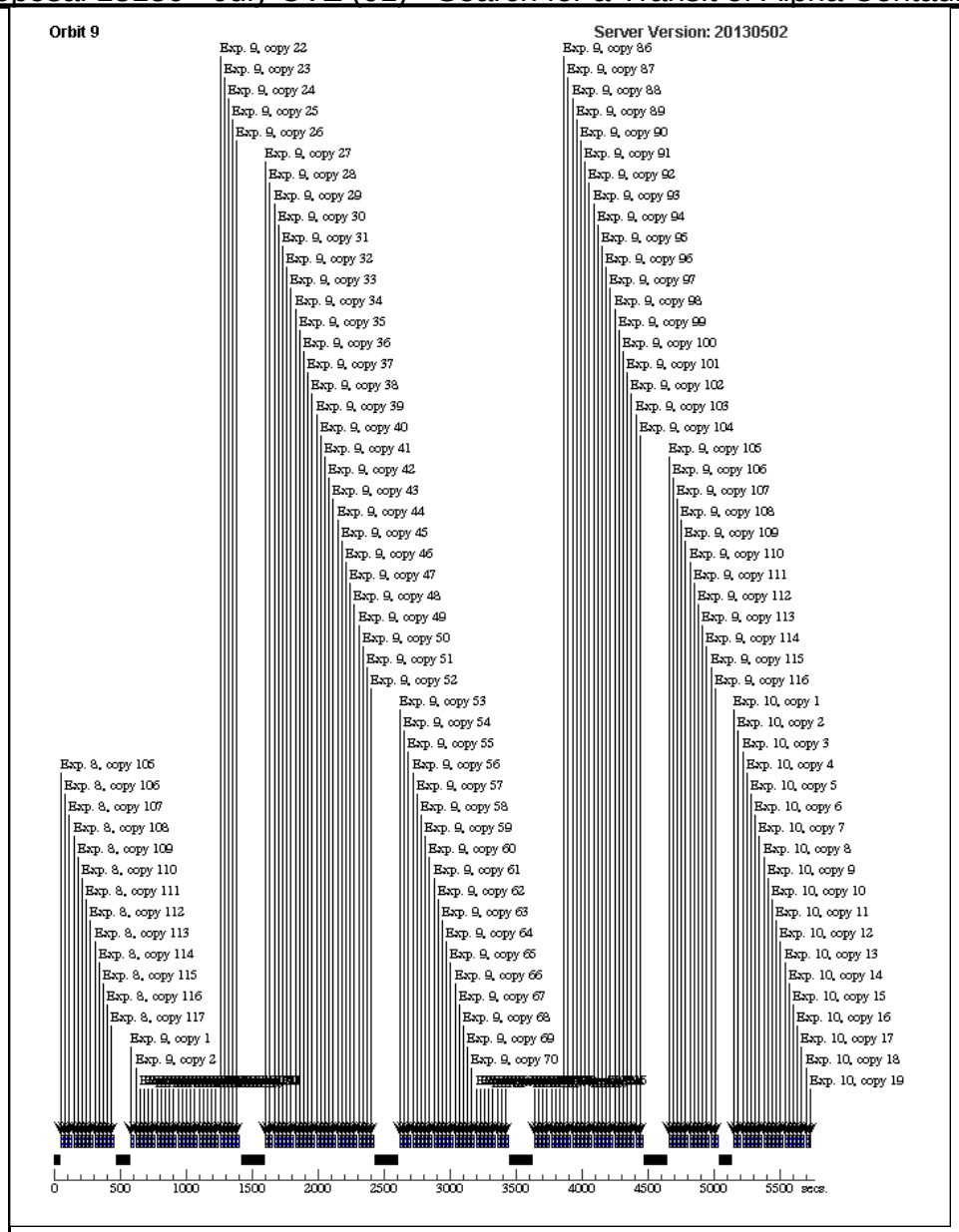
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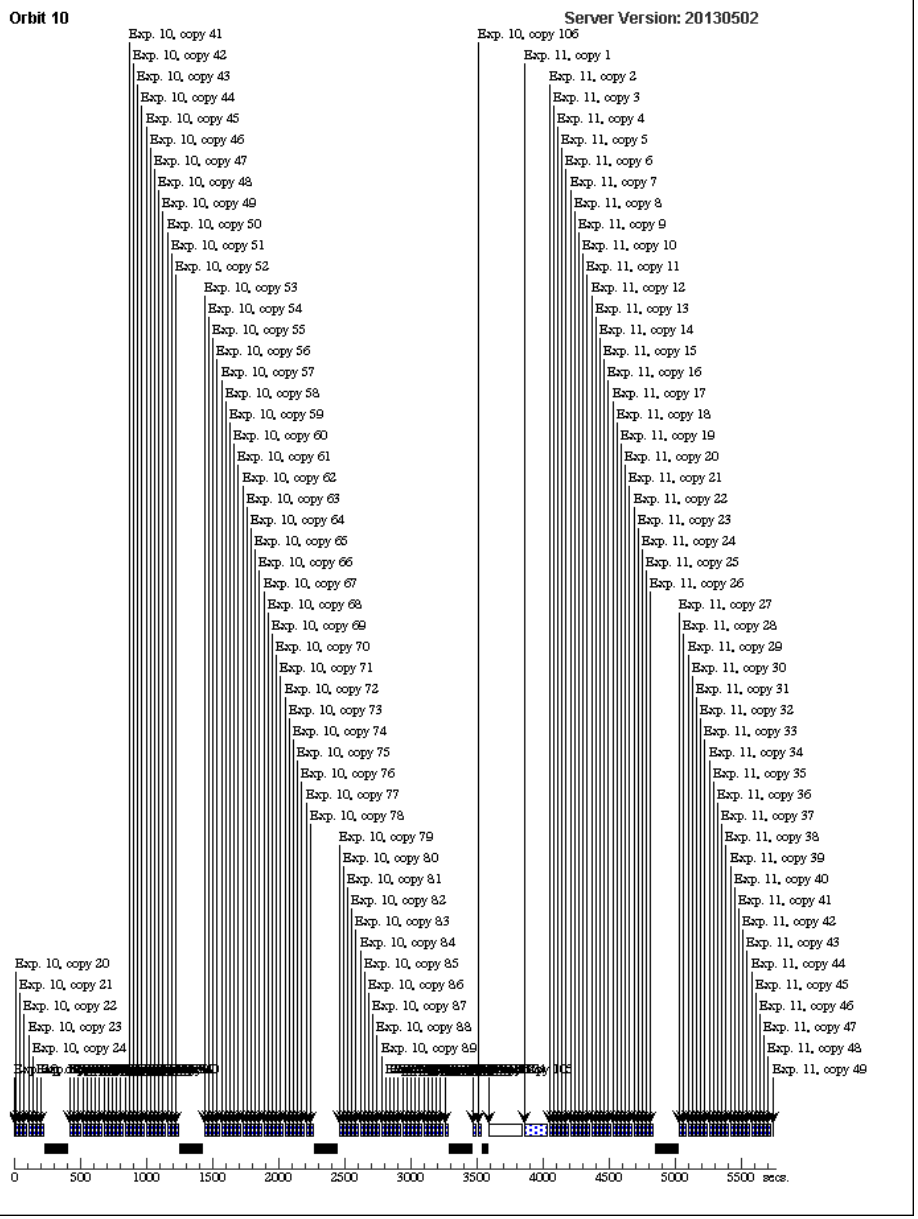
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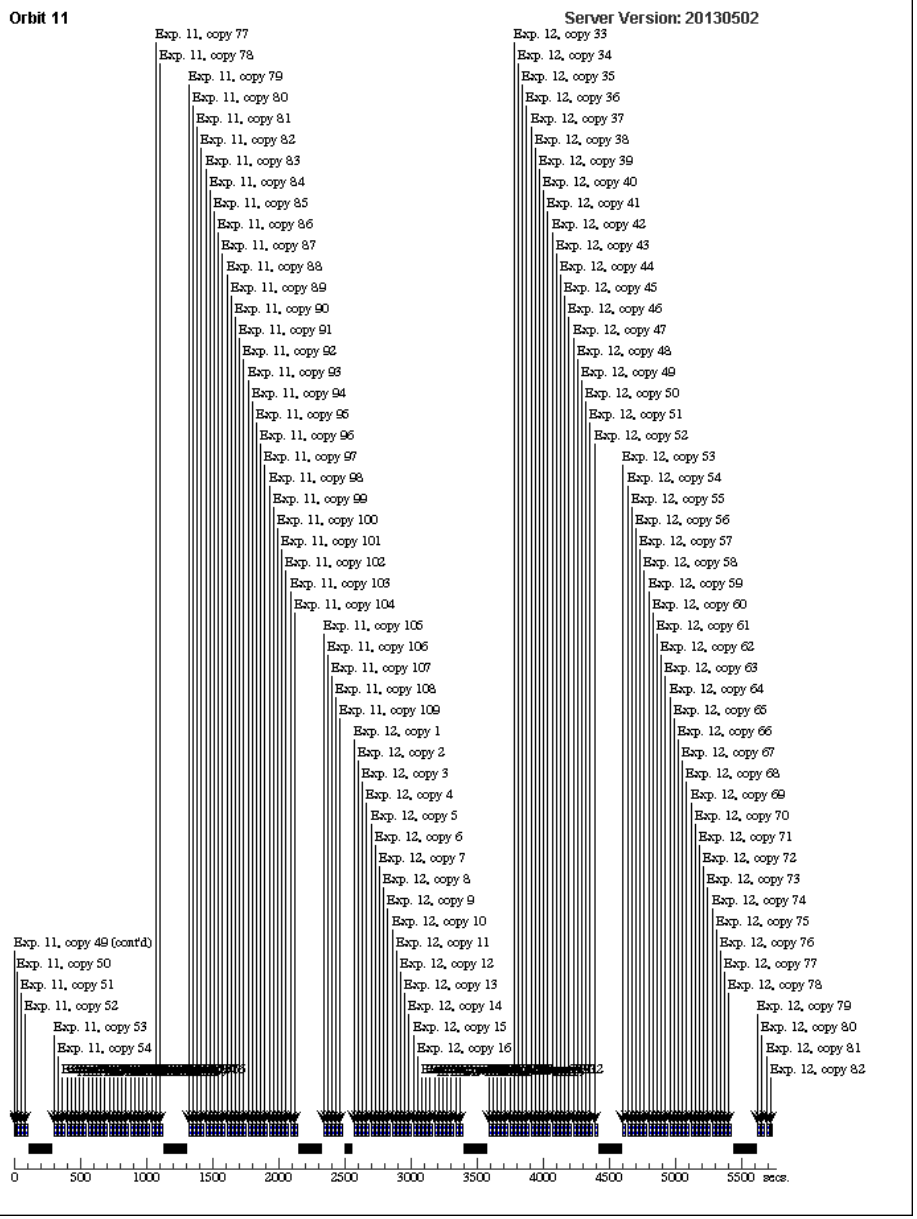
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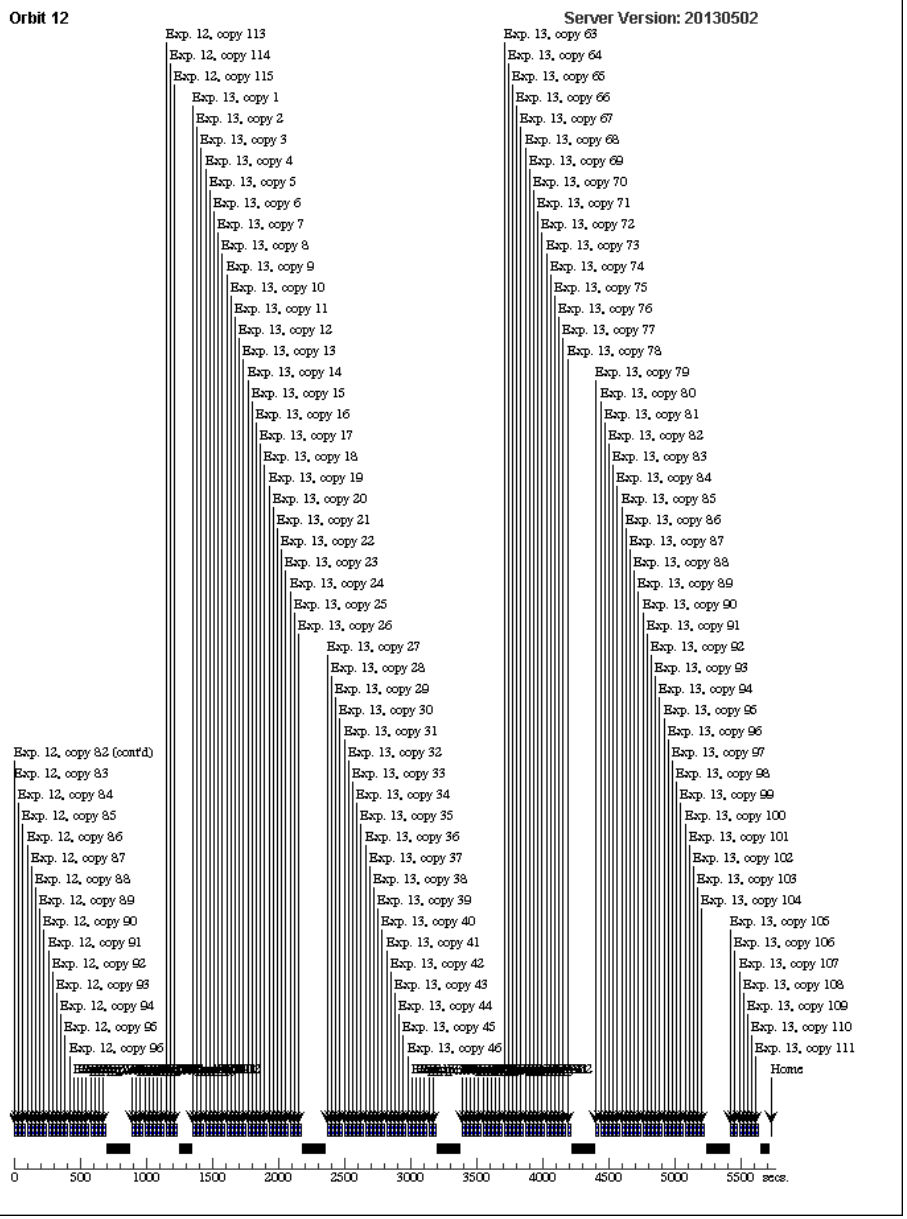
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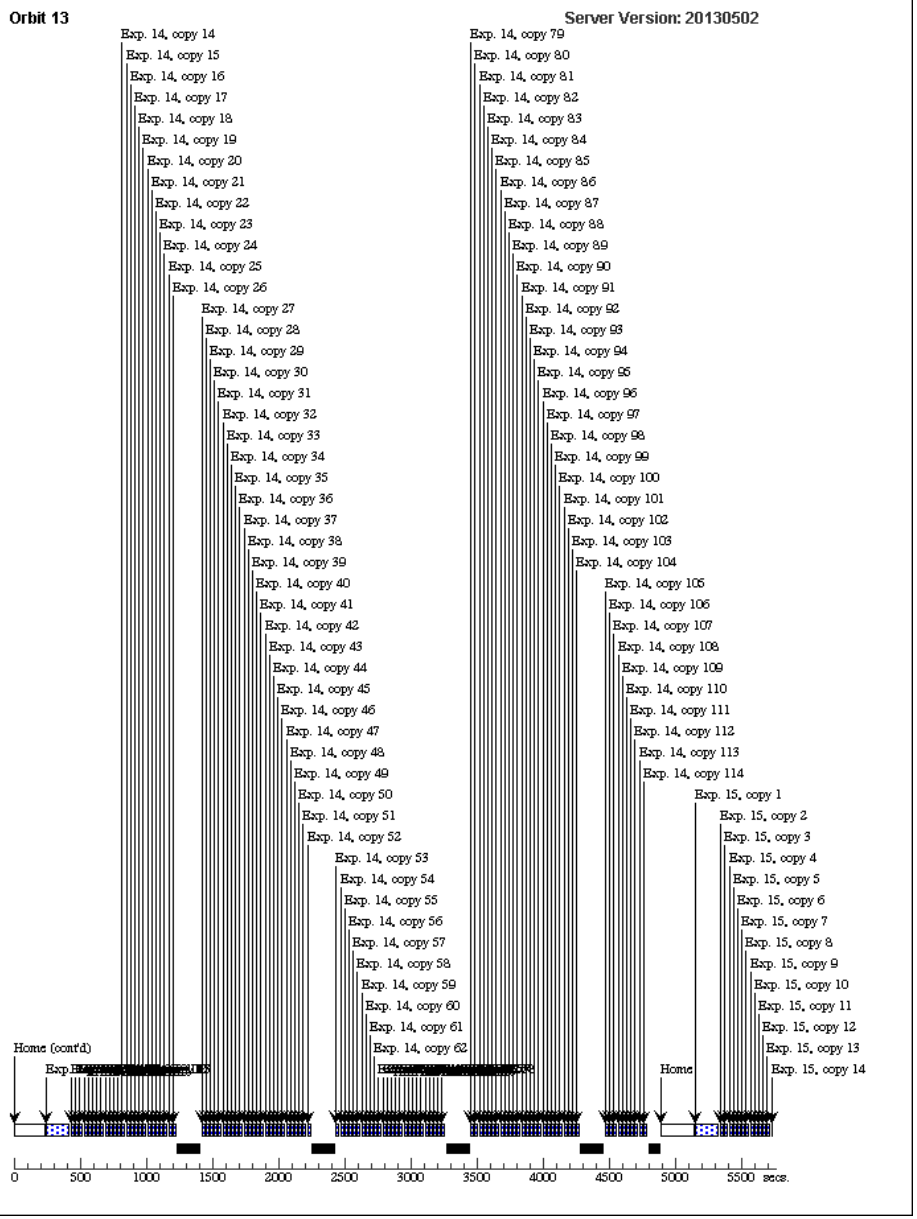
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Exp. 14, copy 106
Exp. 14, copy 107
Exp. 14, copy 108
Exp. 14, copy 109
Exp. 14, copy 110
Exp. 14, copy 111
Exp. 14, copy 112
Exp. 14, copy 113
Exp. 14, copy 114
Exp. 15, copy 1
Exp. 15, copy 2
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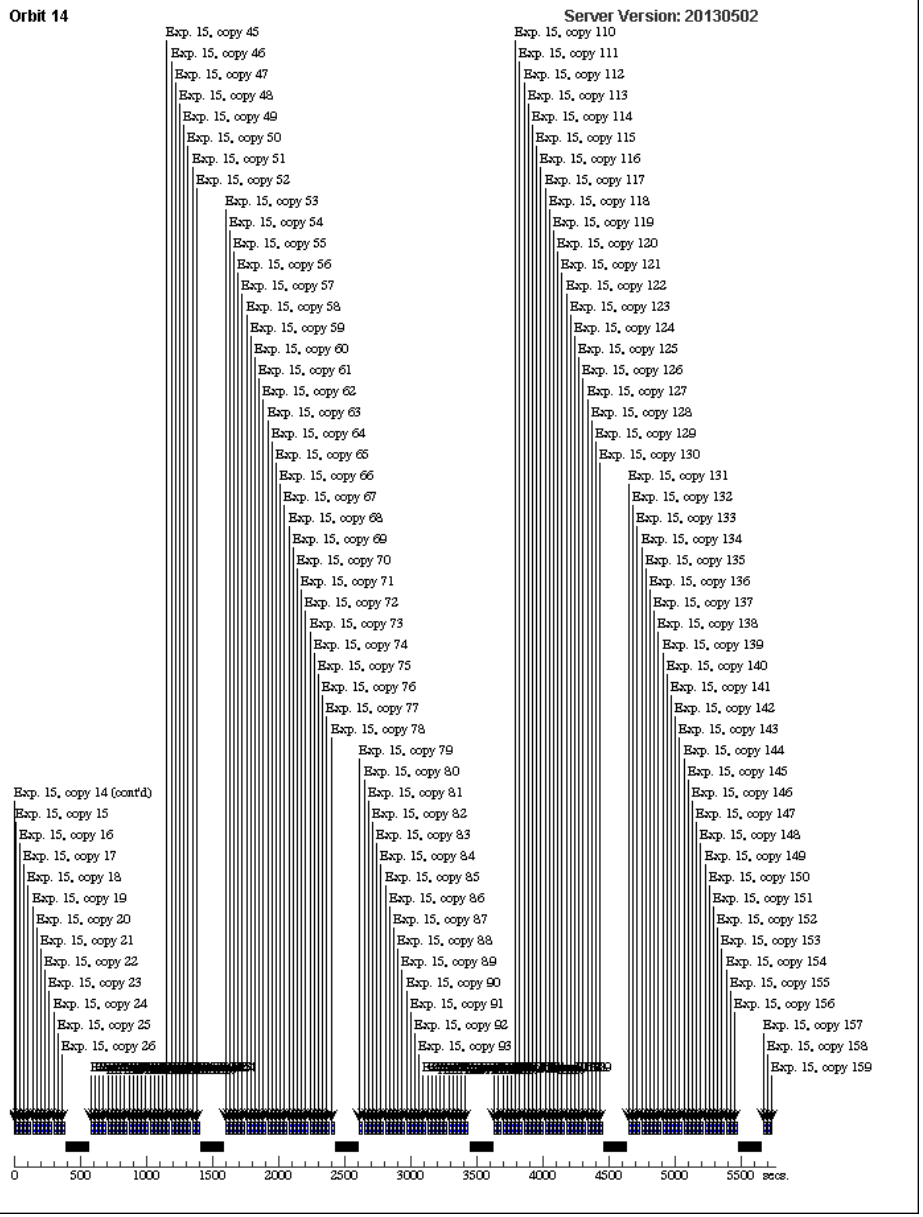
Orbit 14
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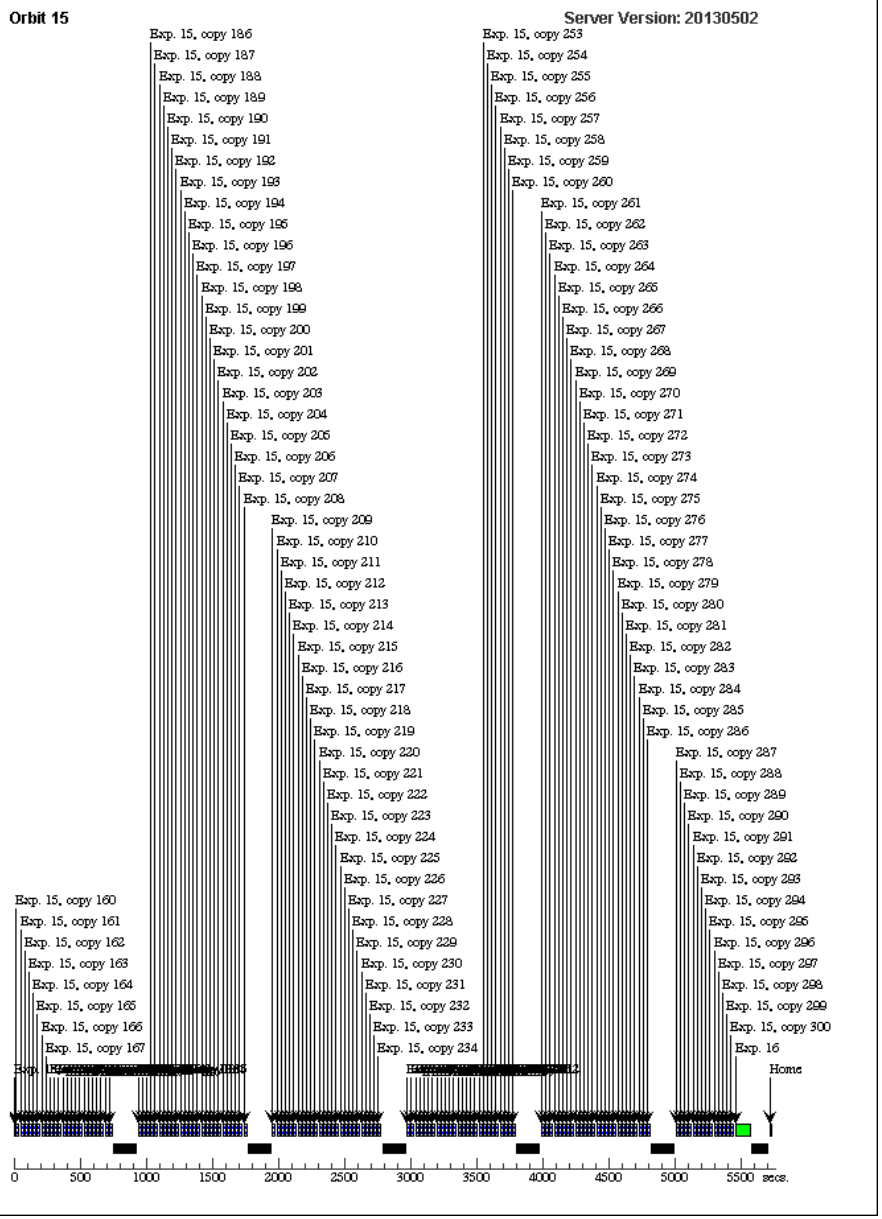
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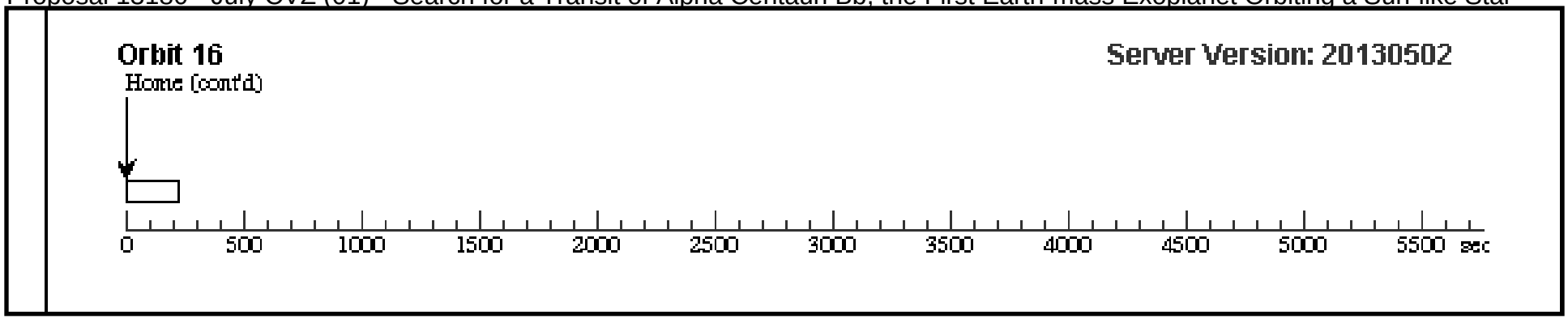
Orbit 16
Server Version: 20130502
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Visit

Proposal 13180, July CVZ Test GSACQ (02) Tue Jun 11 06:10:27 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: S/C

Special Requirements: ORIENT 60.0D TO 60.0 D

Fixed Targets

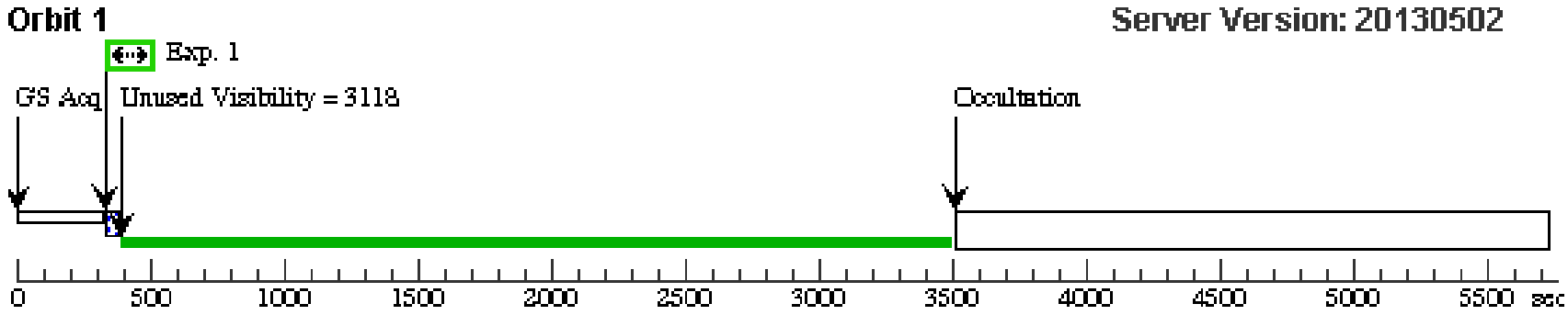
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	ALPHA-CEN-A	RA: 14 39 30.2940 (219.8762250d)	Proper Motion RA: -3.64 arcsec/yr	V=-0.01	Reference Frame: ICRS
	Alt Name1: HR-5459	Dec: -60 49 58.86 (-60.83302d)	Proper Motion Dec: +0.11 arcsec/yr		
	Alt Name2: HD128620	Equinox: J2000	Parallax: 0.747"		
			Epoch of Position: 2012.0		
			Radial Velocity: 24 km/sec		

Comments: The star coordinates are copied from Proposal 13060 by T. Ayres and were directly measured from high-precision Chandra HRC-I images. They differ minimally from those cited in Simbad.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) ALPHA-CEN-A	S/C, DATA, V1			POS TARG -213.63 48,-224.7904; SAA CONTOUR 02; GSPAIR S7QX0004 02F1S7QX000526F2		60 Secs (60 Secs) *[==>]*	***[1]***

Orbit Structure



Visit

Proposal 13180, July CVZ Test GSACQ (04) Tue Jun 11 06:10:27 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: S/C

Special Requirements: ORIENT 60.0D TO 60.0 D

Fixed Targets

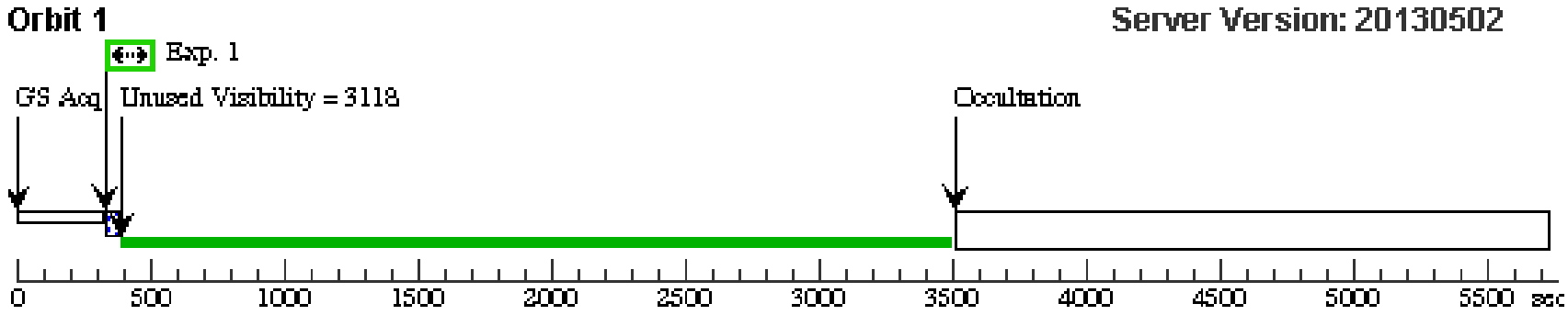
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	ALPHA-CEN-A	RA: 14 39 30.2940 (219.8762250d)	Proper Motion RA: -3.64 arcsec/yr	V=-0.01	Reference Frame: ICRS
	Alt Name1: HR-5459	Dec: -60 49 58.86 (-60.83302d)	Proper Motion Dec: +0.11 arcsec/yr		
	Alt Name2: HD128620	Equinox: J2000	Parallax: 0.747"		
			Epoch of Position: 2012.0		
			Radial Velocity: 24 km/sec		

Comments: The star coordinates are copied from Proposal 13060 by T. Ayres and were directly measured from high-precision Chandra HRC-I images. They differ minimally from those cited in Simbad.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) ALPHA-CEN-A	S/C, DATA, V1			POS TARG -213.63 48,-224.7904; SAA CONTOUR 02; GSPAIR S7QX0004 02F1S7QX000526F2		60 Secs (60 Secs) *[==>]*	***[1]***

Orbit Structure



Visit

Proposal 13180, July CVZ Test GSACQ (03) Tue Jun 11 06:10:28 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: S/C

Special Requirements: ORIENT 60.0D TO 60.0 D

Fixed Targets

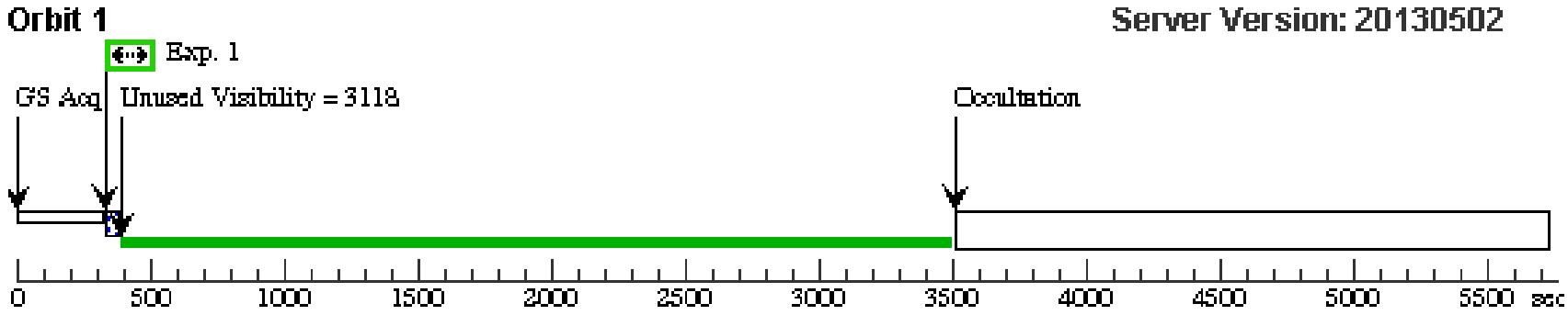
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	ALPHA-CEN-A	RA: 14 39 30.2940 (219.8762250d)	Proper Motion RA: -3.64 arcsec/yr	V=-0.01	Reference Frame: ICRS
	Alt Name1: HR-5459	Dec: -60 49 58.86 (-60.83302d)	Proper Motion Dec: +0.11 arcsec/yr		
	Alt Name2: HD128620	Equinox: J2000	Parallax: 0.747"		
			Epoch of Position: 2012.0		
			Radial Velocity: 24 km/sec		

Comments: The star coordinates are copied from Proposal 13060 by T. Ayres and were directly measured from high-precision Chandra HRC-I images. They differ minimally from those cited in Simbad.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) ALPHA-CEN-A	S/C, DATA, V1			POS TARG -213.63 48,-224.7904; SAA CONTOUR 02; GSPAIR S7QX0005 72F2S7QX000367F1		60 Secs (60 Secs) *[==>]*	*[1]*

Orbit Structure



Visit

Proposal 13180, July CVZ Test GSACQ (05) Tue Jun 11 06:10:29 GMT 2013

Diagnostic Status: No Diagnostics

Scientific Instruments: S/C

Special Requirements: ORIENT 60.0D TO 60.0 D

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	ALPHA-CEN-A	RA: 14 39 30.2940 (219.8762250d)	Proper Motion RA: -3.64 arcsec/yr	V=-0.01	Reference Frame: ICRS
	Alt Name1: HR-5459	Dec: -60 49 58.86 (-60.83302d)	Proper Motion Dec: +0.11 arcsec/yr		
	Alt Name2: HD128620	Equinox: J2000	Parallax: 0.747"		
			Epoch of Position: 2012.0		
			Radial Velocity: 24 km/sec		

Comments: The star coordinates are copied from Proposal 13060 by T. Ayres and were directly measured from high-precision Chandra HRC-I images. They differ minimally from those cited in Simbad.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(1) ALPHA-CEN-A	S/C, DATA, V1			POS TARG -213.63 48,-224.7904; SAA CONTOUR 02; GSPAIR S7QX0005 72F2S7QX000367F1		60 Secs (60 Secs) *[==>]*	*[1]*

Orbit Structure