



16376 - The (Chandra) Bad Attitude Project

Cycle: 28, Proposal Category: GO

(UV Initiative)

(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) HD156559	COS/FUV COS/NUV	1	16-Oct-2020 16:00:13.0	yes
02	(2) HD24636	COS/FUV COS/NUV	1	16-Oct-2020 16:00:14.0	yes
03	(3) HD185239	COS/FUV COS/NUV	1	16-Oct-2020 16:00:15.0	yes
04	(4) HD62850	COS/FUV COS/NUV	1	16-Oct-2020 16:00:15.0	yes
05	(5) HD150706	COS/FUV COS/NUV	1	16-Oct-2020 16:00:16.0	yes
06	(6) HD38459	COS/FUV COS/NUV	1	16-Oct-2020 16:00:17.0	yes
07	(7) HD39755	COS/FUV COS/NUV	1	16-Oct-2020 16:00:18.0	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>
08	(8) HD41004	COS/FUV COS/NUV	1	16-Oct-2020 16:00:18.0	yes
09	(9) HD172669	COS/FUV COS/NUV	1	16-Oct-2020 16:00:19.0	yes
10	(10) HD180712	COS/FUV COS/NUV	1	16-Oct-2020 16:00:20.0	yes
Z1	(1) HD156559	COS/FUV COS/NUV	1	16-Oct-2020 16:00:21.0	yes
Z2	(10) HD180712	COS/FUV COS/NUV	1	16-Oct-2020 16:00:21.0	yes
Z3	(7) HD39755	COS/FUV COS/NUV	1	16-Oct-2020 16:00:22.0	yes

13 Total Orbits Used

ABSTRACT

Spacecraft heating causes parts of Chandra X-ray Observatory's sky -- especially the Ecliptic poles (EP) -- to be undesirable for scheduling. Normally, the EPs are celestial sweet spots. Always 90 degrees from the Sun, they are good for observations by satellites and from the ground, and receive high exposure by scanning missions like TESS and eROSITA. HST's recent "Ecliptic poles Stellar Survey" (EclipSS) identified 10 FUV-extreme stars among 49 late-type dwarfs of the original target sample. Objective is to obtain short exposures of these objects with Chandra's HRC-I camera (best soft response of the available sensors), to link coronal X-rays to the existing FUV material. Jointly, HST/COS will cover key parts of the spectrum (especially C IV 155 nm) reluctantly sacrificed in the original fast survey (single orbit per target). While the EP target attitudes are "bad" (for Chandra heating), the exploration science is great, and well worth the extra scheduling effort.

OBSERVING DESCRIPTION

The observing scenario is similar for the ten targets, requiring a single COS orbit each. Following the Guide Star acquisition, an NUV imaging ACQ is carried out, using the BOA and either Mirror A or B depending on the target brightness. The target coordinates, from Gaia DR2, are very accurate. The NUV ACQ is followed by exposures with G160M-1533 (134 nm - 171 nm) at the 4 standard FP-POS steps, with equal-length sub-exposures,

Proposal 16376 (STScI Edit Number: 3, Created: Friday, October 16, 2020 at 3:00:23 PM Eastern Standard Time) - Overview
about 550 s for the typical target. The original program had included additional observations with COS NUV, to capture the important chromospheric MgII 280 nm doublet, but discussions with the STScI staff indicated that the sensitivity of the G285M mode, which has been declining rapidly in recent years, would be unsatisfactory for the purpose, so the NUV exposures were dropped (STIS NUV could not be substituted, because COS and STIS cannot be used in the same visit, and the program has allocated only a single orbit per target.)

SAFETY ISSUES. All the targets have been observed previously in the FUV by COS, with no safety issues, even considering the bright H I 121 nm Lyman-alpha line, which is not covered in the present program.

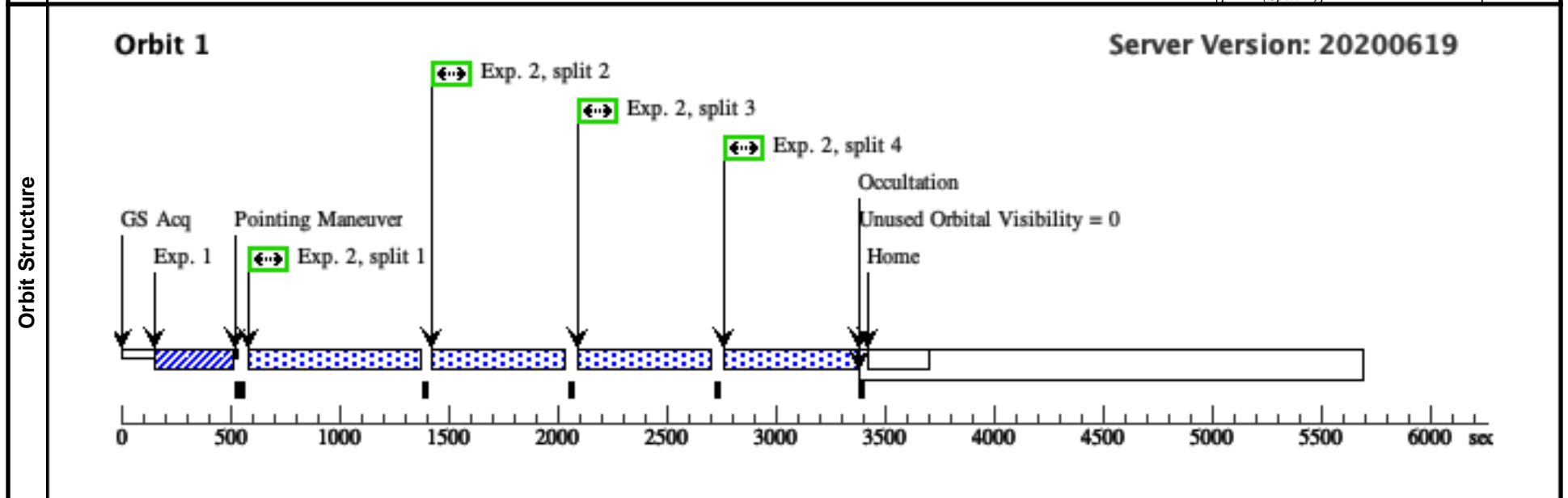
ETC runs were based on the StarCAT UV spectrum of the active mid-G dwarf Kappa Ceti, scaled to the average visual magnitude of the 10 targets, $V = 7.8 \pm 0.6$ mag. Kap Cet has FUV f/f_{BOL} emission-line ratios typical of the (high) activity levels of the Bad Attitude targets. S/N at the important emission lines (e.g., FUV Si IV 139 nm) is predicted to exceed 10 per resel in a single (of the 4) FP splits. The integrated line fluxes will be captured at much higher S/N since the splits will be co-added and each (resolved) emission feature is many resels wide.

Proposal 16376 - Visit 01 - The (Chandra) Bad Attitude Project

Visit	Proposal 16376, Visit 01, failed					Fri Oct 16 20:00:23 GMT 2020
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: COS/FUV, COS/NUV					
	Special Requirements: (none)					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	HD156559	RA: 17 14 43.8167 (258.6825696d) Dec: +58 23 2.62 (58.38406d) Equinox: J2000	Proper Motion RA: -3.610 mas/yr Proper Motion Dec: +40.320 mas/yr Parallax: 0.01219" Epoch of Position: 2000 Radial Velocity: -17.98 km/sec	V=7.89+/-0.1 sptyp= F2V; (B-V)= 0.37 mag; dist= 82 pc	Reference Frame: ICRS
	<i>Comments: Gaia DR2 (2018yCat.1345....0G) via SIMBAD</i>					
	<i>Category=STAR Description=[F0-F2] Extended=NO</i>					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 4259)	(1) HD156559	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				31 Secs (31 Secs)	
									[==>]	[1]
	2	(COS.sp.145 7986)	(1) HD156559	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 000; FP-POS=ALL			562 Secs (2248 Secs)	
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]

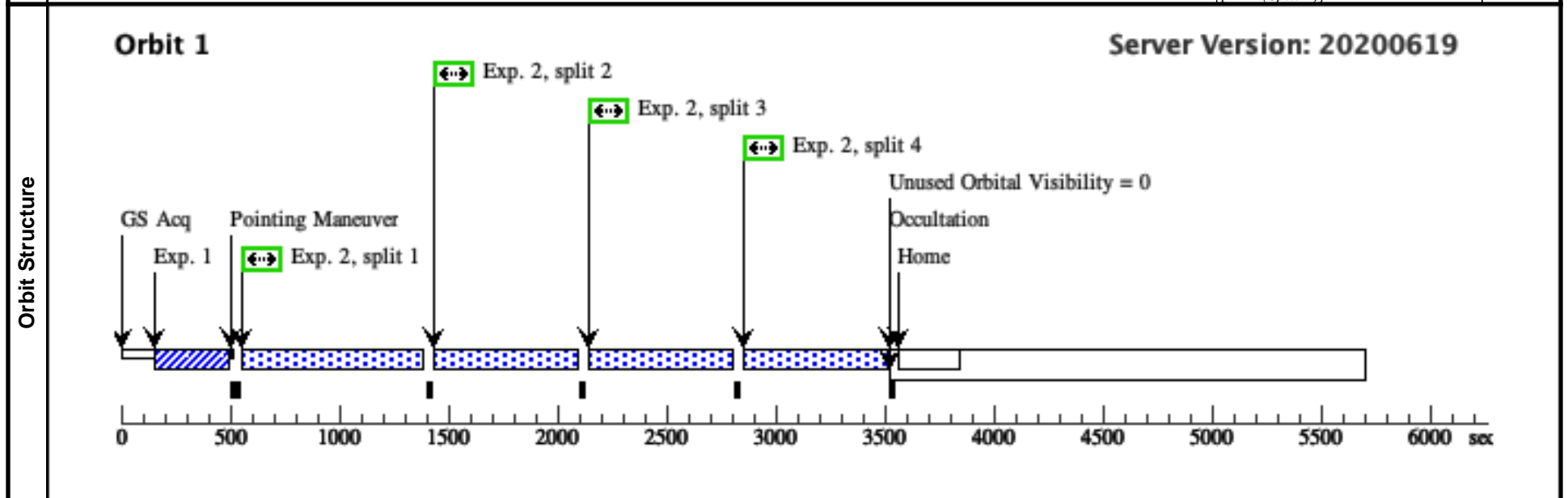


Proposal 16376 - Visit 02 - The (Chandra) Bad Attitude Project

Visit	Proposal 16376, Visit 02, completed Fri Oct 16 20:00:23 GMT 2020				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: COS/FUV, COS/NUV				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(2)	HD24636	RA: 03 48 11.4714 (57.0477975d) Dec: -74 41 38.82 (-74.69412d) Equinox: J2000	Proper Motion RA: +63.490 mas/yr Proper Motion Dec: +24.333 mas/yr Parallax: 0.01753" Epoch of Position: 2000 Radial Velocity: +14.55 km/sec	V=7.13+/-0.1 sptyp= F3V; (B-V)= 0.38 mag; dist= 57 pc	Reference Frame: ICRS
	<i>Comments: Gaia DR2 (2018yCat.1345....0G) via SIMBAD</i>					
	Category=STAR Description=[F3-F9] Extended=NO					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 4262)	(2) HD24636	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				17 Secs (17 Secs)	
									[==>]	[1]
	2	(COS.sp.145 7986)	(2) HD24636	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20000; FP-POS=ALL			603 Secs (2412 Secs)	
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]

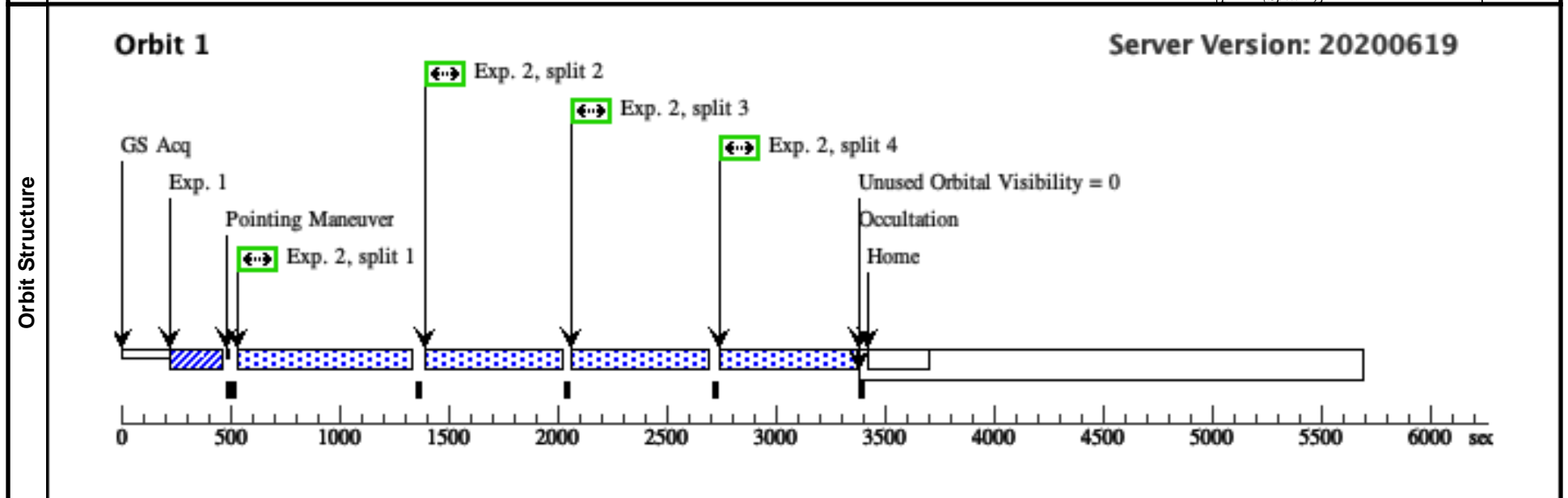


Proposal 16376 - Visit 03 - The (Chandra) Bad Attitude Project

Visit	Proposal 16376, Visit 03, completed Fri Oct 16 20:00:23 GMT 2020				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: COS/FUV, COS/NUV				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	HD185239	RA: 19 34 51.8807 (293.7161696d) Dec: +57 46 21.45 (57.77262d) Equinox: J2000	Proper Motion RA: -35.219 mas/yr Proper Motion Dec: +22.666 mas/yr Parallax: 0.01227" Epoch of Position: 2000 Radial Velocity: +11.169 km/sec	V=8.16+/-0.1 sptyp= F8V; (B-V)= 0.41 mag; dist= 81 pc	Reference Frame: ICRS
	<i>Comments: Gaia DR2 (2018yCat.1345....0G) via SIMBAD</i>					
	<i>Category=STAR Description=[F3-F9] Extended=NO</i>					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 4277)	(3) HD185239	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				7 Secs (7 Secs) [==>]	[1]
	2	(COS.sp.145 7986)	(3) HD185239	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 000; FP-POS=ALL			574 Secs (2296 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]



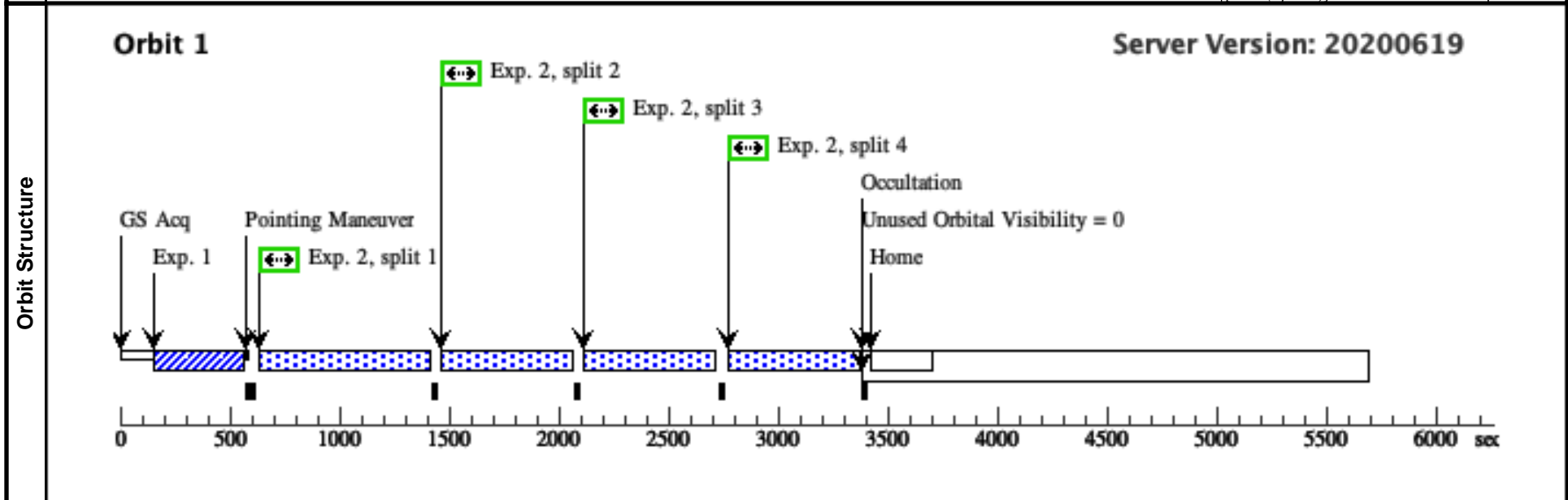
Proposal 16376 - Visit 04 - The (Chandra) Bad Attitude Project

Fri Oct 16 20:00:23 GMT 2020

Visit	Proposal 16376, Visit 04, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: COS/FUV, COS/NUV				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	HD62850	RA: 07 42 36.0621 (115.6502588d) Dec: -59 17 50.74 (-59.29743d) Equinox: J2000	Proper Motion RA: -53.907 mas/yr Proper Motion Dec: +158.499 mas/yr Parallax: 0.030384" Epoch of Position: 2000 Radial Velocity: +17.86 km/sec	V=7.19+/-0.1 sptyp= G3V; (B-V)= 0.64 mag; dist= 33 pc	Reference Frame: ICRS
	<i>Comments: Gaia DR2 (2018yCat.1345....0G) via SIMBAD</i>					
	<i>Category=STAR Description=[G V-IV] Extended=NO</i>					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 4291)	(4) HD62850	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				55 Secs (55 Secs) [=>]	[1]
	2	(COS.sp.145 7986)	(4) HD62850	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20000; FP-POS=ALL			550 Secs (2200 Secs) [=>(Split 1)] [=>(Split 2)] [=>(Split 3)] [=>(Split 4)]	[1]



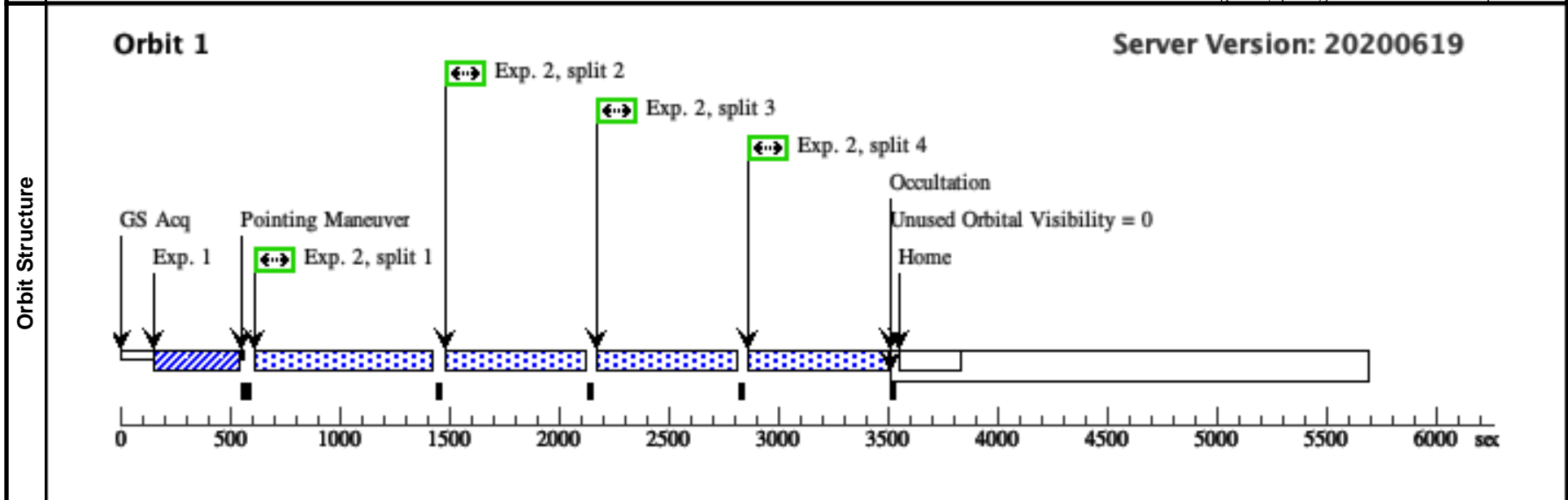
Proposal 16376 - Visit 05 - The (Chandra) Bad Attitude Project

Fri Oct 16 20:00:23 GMT 2020

Visit	Proposal 16376, Visit 05, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: COS/FUV, COS/NUV				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	HD150706	RA: 16 31 17.5834 (247.8232642d) Dec: +79 47 23.20 (79.78978d) Equinox: J2000	Proper Motion RA: +94.884 mas/yr Proper Motion Dec: -86.971 mas/yr Parallax: 0.035345" Epoch of Position: 2000 Radial Velocity: -17.208 km/sec	V=7.02+/-0.1 sptyp= G3V; (B-V)= 0.60 mag; dist= 28 pc	Reference Frame: ICRS
<i>Comments: Gaia DR2 (2018yCat.1345....0G) via SIMBAD</i>						
<i>Category=STAR</i>						
<i>Description=[G V-IV]</i>						
<i>Extended=NO</i>						

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 4290)	(5) HD150706	COS/NUV, ACQ/IMAGE, BOA	MIRRORB					46 Secs (46 Secs)
2	(COS.sp.145 7986)	(5) HD150706	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20000; FP-POS=ALL				587 Secs (2348 Secs)	[1]
									[==>(Split 1)]	
									[==>(Split 2)]	
									[==>(Split 3)]	
									[==>(Split 4)]	

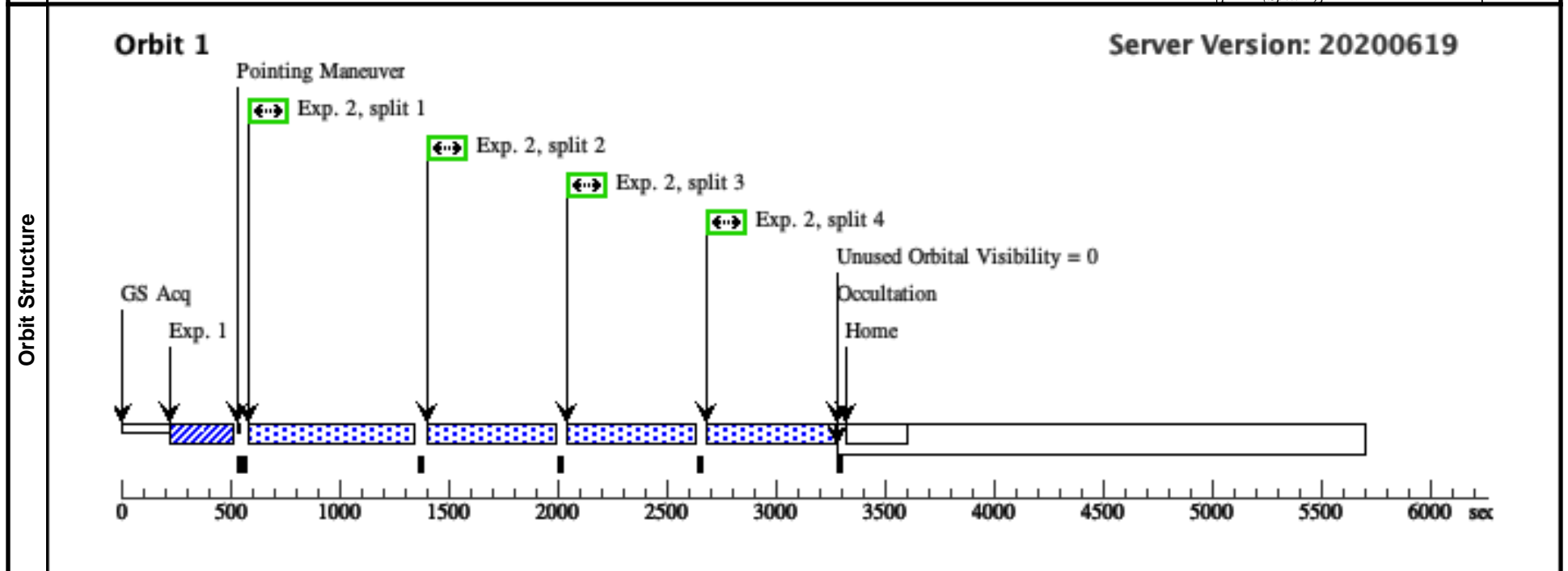


Proposal 16376 - Visit 06 - The (Chandra) Bad Attitude Project

Visit	Proposal 16376, Visit 06, completed Fri Oct 16 20:00:23 GMT 2020				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: COS/FUV, COS/NUV				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(6)	HD38459	RA: 05 43 26.4569 (85.8602371d) Dec: -47 49 22.71 (-47.82297d) Equinox: J2000	Proper Motion RA: +52.693 mas/yr Proper Motion Dec: +215.061 mas/yr Parallax: 0.02834" Epoch of Position: 2000 Radial Velocity: +26.552 km/sec	V=8.50+/-0.1 sptyp= K1V; (B-V)= 0.87 mag; dist= 37 pc	Reference Frame: ICRS
	<i>Comments: Gaia DR2 (2018yCat.1345....0G) via SIMBAD</i>					
	<i>Category=STAR Description=[K V-IV] Extended=NO</i>					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 4340)	(6) HD38459	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				33 Secs (33 Secs) [==>]	[1]
	2	(COS.sp.145 7986)	(6) HD38459	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 000; FP-POS=ALL			535 Secs (2140 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]



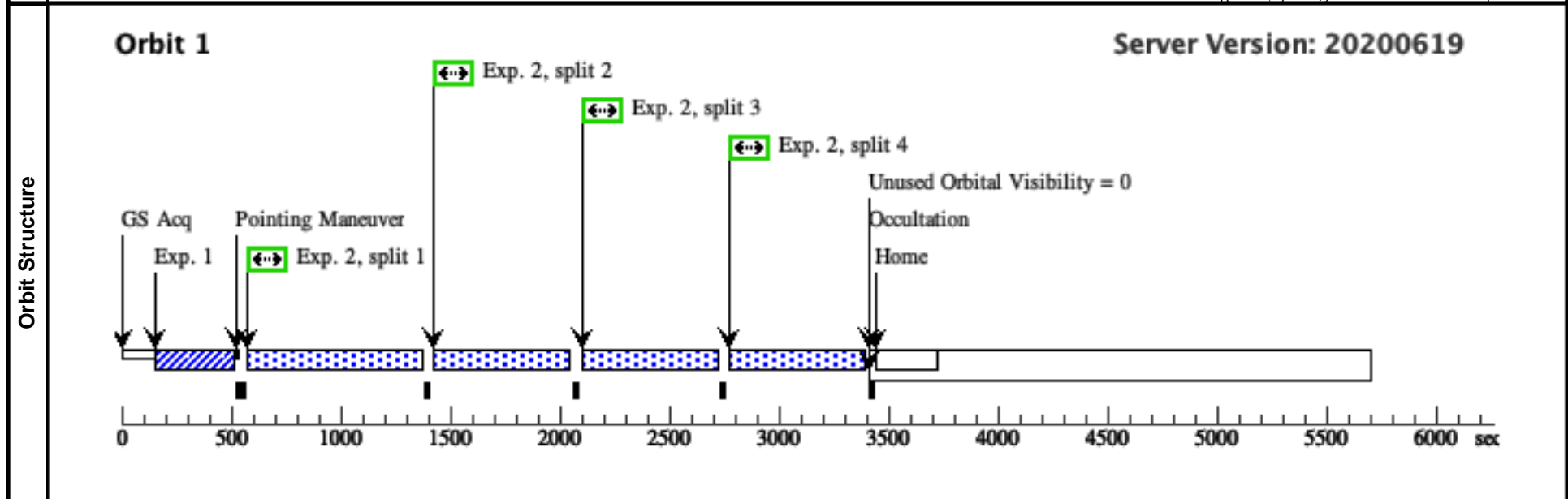
Proposal 16376 - Visit 07 - The (Chandra) Bad Attitude Project

Fri Oct 16 20:00:23 GMT 2020

Visit	Proposal 16376, Visit 07, failed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: COS/FUV, COS/NUV				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(7)	HD39755	RA: 05 50 18.6773 (87.5778221d) Dec: -62 04 48.72 (-62.08020d) Equinox: J2000	Proper Motion RA: -35.477 mas/yr Proper Motion Dec: -34.417 mas/yr Parallax: 0.012359" Epoch of Position: 2000 Radial Velocity: 0.0 km/sec	V=7.82+/-0.1 sptyp= F2V; (B-V)= 0.38 mag; dist= 81 pc	Reference Frame: ICRS
	<i>Comments: Gaia DR2 (2018yCat.1345....0G) via SIMBAD</i>					
	<i>Category=STAR Description=[F0-F2] Extended=NO</i>					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 (7) 4260)	HD39755	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				28 Secs (28 Secs)	
									[==>]	[1]
	2	(COS.sp.145 (7) 7986)	HD39755	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 000; FP-POS=ALL			569 Secs (2276 Secs)	
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]



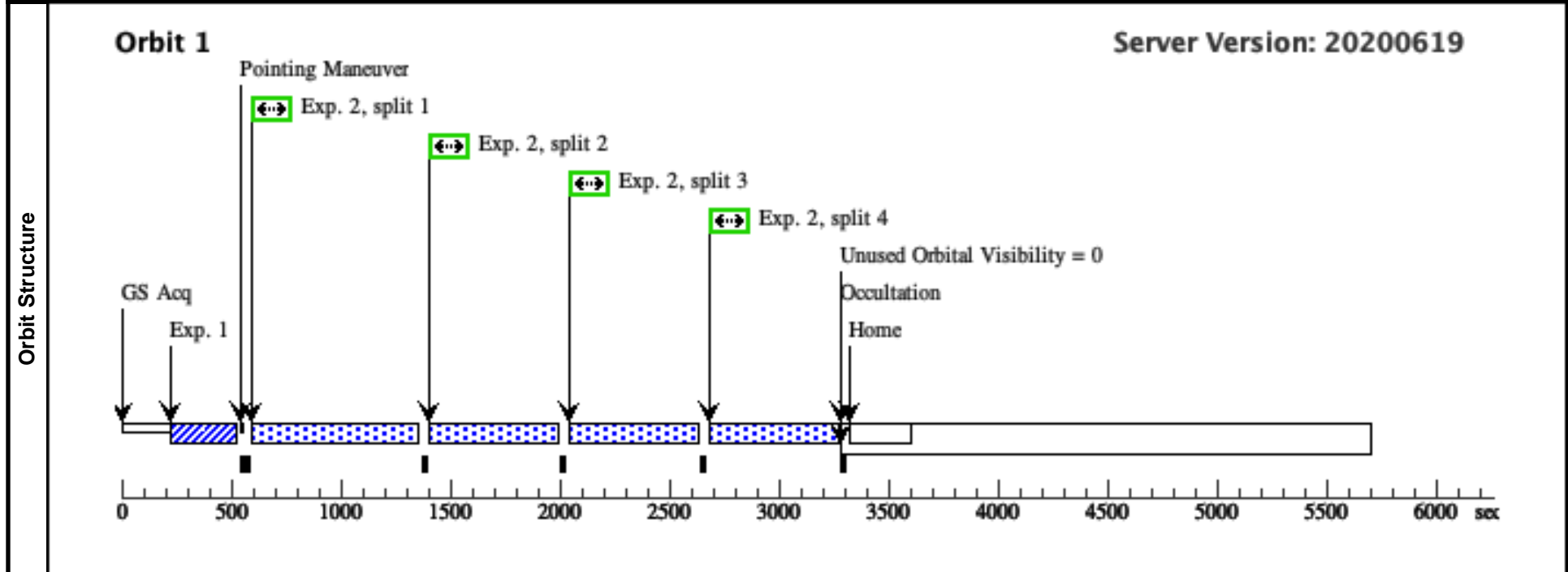
Proposal 16376 - Visit 08 - The (Chandra) Bad Attitude Project

Fri Oct 16 20:00:23 GMT 2020

Visit	Proposal 16376, Visit 08, completed				
	Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: ORIENT 281D TO 341 D; ORIENT 101D TO 161 D <i>Comments: AB 0.5" dHp=3.7 PA=176; ORIENT to separate fainter secondary from primary spectrum</i>				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(8)	HD41004	RA: 05 59 49.6474 (89.9568642d) Dec: -48 14 22.81 (-48.23967d) Equinox: J2000	Proper Motion RA: -41.520 mas/yr Proper Motion Dec: +59.652 mas/yr Parallax: 0.02404" Epoch of Position: 2000 Radial Velocity: +42.50 km/sec	V=8.65+/-0.1 sptyp= K1V; (B-V)= 0.84 mag; dist= 42 pc	Reference Frame: ICRS
	<i>Comments: Gaia DR2 (2018yCat.1345....0G) via SIMBAD</i> Category=STAR Description=[K V-IV] Extended=NO					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 4338)	(8) HD41004	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				37 Secs (37 Secs) [==>]	[1]
	2	(COS.sp.145 7986)	(8) HD41004	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 000; FP-POS=ALL			533 Secs (2132 Secs) [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]



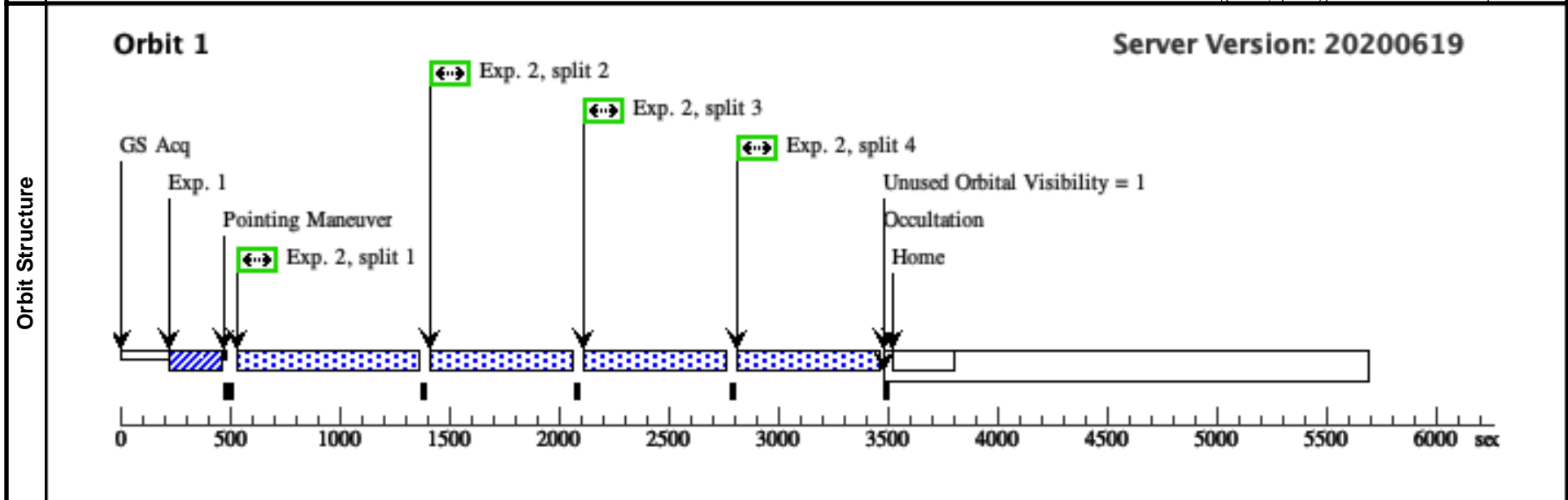
Proposal 16376 - Visit 09 - The (Chandra) Bad Attitude Project

Fri Oct 16 20:00:23 GMT 2020

Visit	Proposal 16376, Visit 09, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: COS/FUV, COS/NUV				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(9)	HD172669	RA: 18 36 23.4524 (279.0977183d) Dec: +66 54 47.67 (66.91324d) Equinox: J2000	Proper Motion RA: +69.414 mas/yr Proper Motion Dec: -56.918 mas/yr Parallax: 0.02769" Epoch of Position: 2000 Radial Velocity: -6.671 km/sec	V=7.60+/-0.1 sptyp= G3V; (B-V)= 0.58 mag; dist= 36 pc	Reference Frame: ICRS
	<i>Comments: Gaia DR2 (2018yCat.1345....0G) via SIMBAD</i>					
	Category=STAR Description=[G V-IV] Extended=NO					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 4288)	(9) HD172669	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				5 Secs (5 Secs)	
									[==>]	[1]
	2	(COS.sp.145 7986)	(9) HD172669	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 000; FP-POS=ALL			599 Secs (2396 Secs)	
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									[==>(Split 2)]	
									[==>(Split 3)]	[1]
									[==>(Split 4)]	

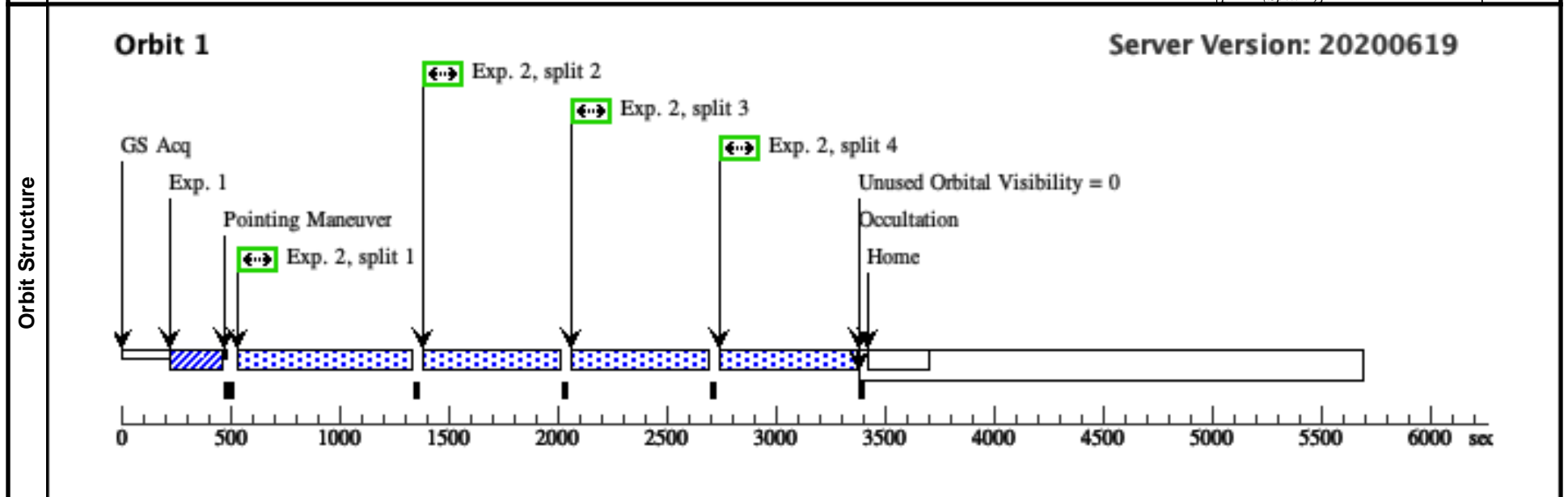


Proposal 16376 - Visit 10 - The (Chandra) Bad Attitude Project

Visit	Proposal 16376, Visit 10, failed					Fri Oct 16 20:00:23 GMT 2020
	Diagnostic Status: No Diagnostics					
	Scientific Instruments: COS/FUV, COS/NUV					
	Special Requirements: (none)					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(10)	HD180712	RA: 19 14 1.4613 (288.5060888d) Dec: +59 33 6.56 (59.55182d) Equinox: J2000	Proper Motion RA: +44.358 mas/yr Proper Motion Dec: +111.331 mas/yr Parallax: 0.02216" Epoch of Position: 2000 Radial Velocity: -13.597 km/sec	V=7.99+/-0.1 sptyp= F8V; (B-V)= 0.58 mag; dist= 45 pc	Reference Frame: ICRS
<i>Comments: Gaia DR2 (2018yCat.1345....0G) via SIMBAD</i>						
<i>Category=STAR</i>						
<i>Description=[F3-F9]</i>						
<i>Extended=NO</i>						

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 4280)	(10) HD180712	COS/NUV, ACQ/IMAGE, BOA	MIRRORA					5 Secs (5 Secs)
[==>]										[1]
2	(COS.sp.145 7986)	(10) HD180712	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 000; FP-POS=ALL				575 Secs (2300 Secs)	
[==>(Split 1)]										[1]
[==>(Split 2)]										
[==>(Split 3)]										
[==>(Split 4)]										



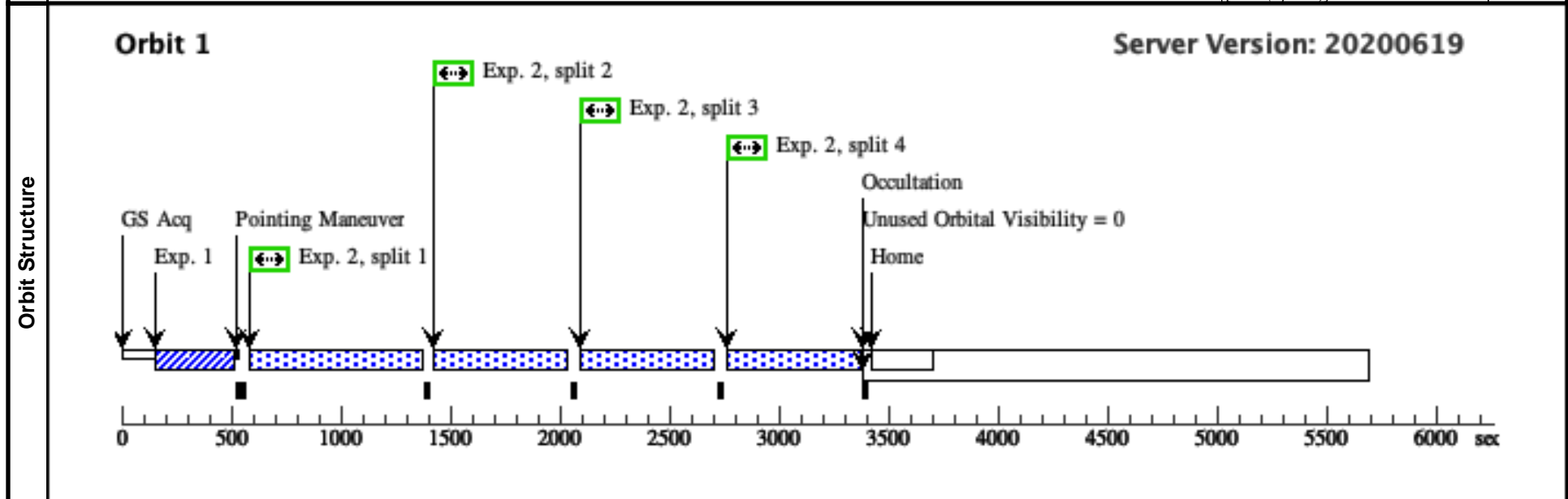
Proposal 16376 - HOPR01 (Z1) - The (Chandra) Bad Attitude Project

Fri Oct 16 20:00:23 GMT 2020

Visit	Proposal 16376, HOPR01 (Z1), scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: COS/FUV, COS/NUV				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	HD156559	RA: 17 14 43.8167 (258.6825696d) Dec: +58 23 2.62 (58.38406d) Equinox: J2000	Proper Motion RA: -3.610 mas/yr Proper Motion Dec: +40.320 mas/yr Parallax: 0.01219" Epoch of Position: 2000 Radial Velocity: -17.98 km/sec	V=7.89+/-0.1 sptyp= F2V; (B-V)= 0.37 mag; dist= 82 pc	Reference Frame: ICRS
	<i>Comments: Gaia DR2 (2018yCat.1345....0G) via SIMBAD</i>					
	Category=STAR Description=[F0-F2] Extended=NO					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 4259)	(1) HD156559	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				31 Secs (31 Secs)	
									[==>]	[1]
	2	(COS.sp.145 7986)	(1) HD156559	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 000; FP-POS=ALL			562 Secs (2248 Secs)	
									[==>(Split 1)]	
									[==>(Split 2)]	
									[==>(Split 3)]	[1]
									[==>(Split 4)]	



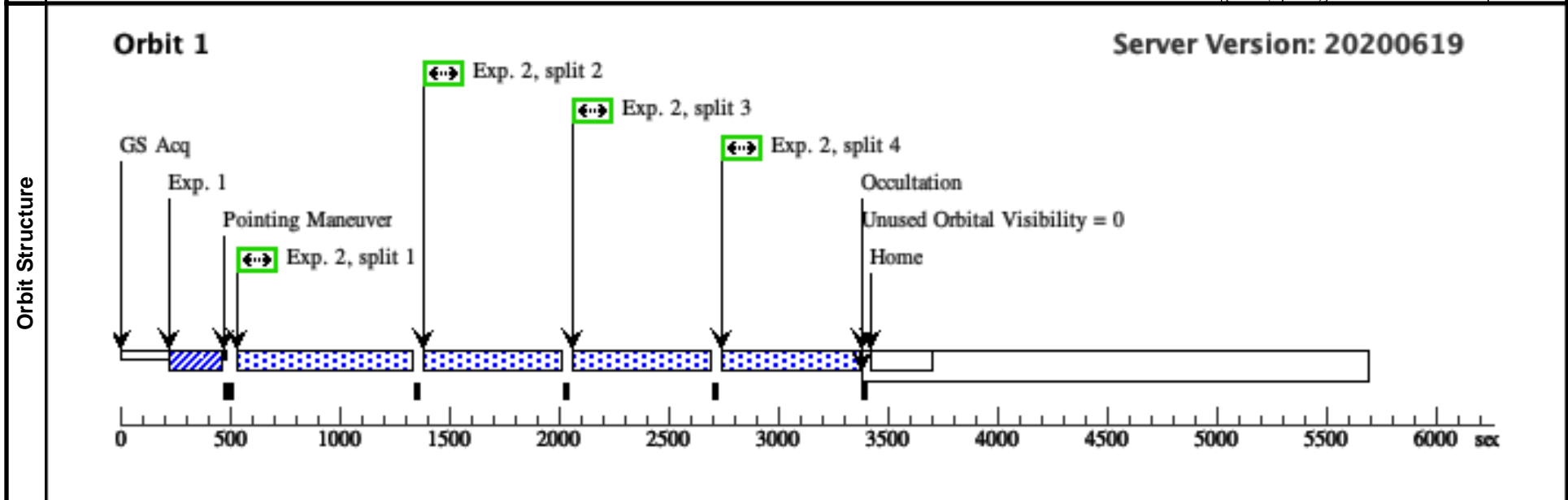
Proposal 16376 - HOPR10 (Z2) - The (Chandra) Bad Attitude Project

Fri Oct 16 20:00:23 GMT 2020

Visit	Proposal 16376, HOPR10 (Z2), scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: COS/FUV, COS/NUV				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(10)	HD180712	RA: 19 14 1.4613 (288.5060888d) Dec: +59 33 6.56 (59.55182d) Equinox: J2000	Proper Motion RA: +44.358 mas/yr Proper Motion Dec: +111.331 mas/yr Parallax: 0.02216" Epoch of Position: 2000 Radial Velocity: -13.597 km/sec	V=7.99+/-0.1 sptyp= F8V; (B-V)= 0.58 mag; dist= 45 pc	Reference Frame: ICRS
	<i>Comments: Gaia DR2 (2018yCat.1345....0G) via SIMBAD</i>					
	Category=STAR Description=[F3-F9] Extended=NO					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 4280)	(10) HD180712	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				5 Secs (5 Secs)	
									[==>]	[1]
	2	(COS.sp.145 7986)	(10) HD180712	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 000; FP-POS=ALL			575 Secs (2300 Secs)	
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]



Proposal 16376 - HOPR07 (Z3) - The (Chandra) Bad Attitude Project

Fri Oct 16 20:00:23 GMT 2020

Visit	Proposal 16376, HOPR07 (Z3)				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: COS/FUV, COS/NUV				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(7)	HD39755	RA: 05 50 18.6773 (87.5778221d) Dec: -62 04 48.72 (-62.08020d) Equinox: J2000	Proper Motion RA: -35.477 mas/yr Proper Motion Dec: -34.417 mas/yr Parallax: 0.012359" Epoch of Position: 2000 Radial Velocity: 0.0 km/sec	V=7.82+/-0.1 sptyp= F2V; (B-V)= 0.38 mag; dist= 81 pc	Reference Frame: ICRS
	<i>Comments: Gaia DR2 (2018yCat.1345....0G) via SIMBAD</i>					
	<i>Category=STAR Description=[F0-F2] Extended=NO</i>					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 4260)	(7) HD39755	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				28 Secs (28 Secs)	
									[==>]	[1]
	2	(COS.sp.145 7986)	(7) HD39755	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20 000; FP-POS=ALL			569 Secs (2276 Secs)	
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]

