



16285 - Linking dust extinction properties to depletion in the Milky Way

Cycle: 28, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. Marjorie Declair (PI) (Contact)	Space Telescope Science Institute	mdeclair@stsci.edu
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Dr. Julia Christine Roman-Duval (CoI)	Space Telescope Science Institute	duval@stsci.edu

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) HD-216898	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	22-Jun-2021 17:00:18.0	yes
02	(2) HD-14434	STIS/CCD STIS/NUV-MAMA	3	22-Jun-2021 17:00:19.0	yes
03	(3) HD-206267	STIS/CCD STIS/NUV-MAMA	1	22-Jun-2021 17:00:20.0	yes
04	(4) HD-197770	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	1	22-Jun-2021 17:00:21.0	yes
05	(5) HD-152249	STIS/CCD STIS/NUV-MAMA	1	22-Jun-2021 17:00:21.0	yes

Proposal 16285 (STScI Edit Number: 1, Created: Tuesday, June 22, 2021 at 4:00:34 PM Eastern Standard Time) - Overview

<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	(6) HD-190603	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	1	22-Jun-2021 17:00:22.0	yes
07	(7) HD-192639	STIS/CCD STIS/NUV-MAMA	2	22-Jun-2021 17:00:23.0	yes
08	(8) HD-203938	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	3	22-Jun-2021 17:00:24.0	yes
09	(9) HD-239729	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	4	22-Jun-2021 17:00:25.0	yes
10	(10) HD-93250	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	1	22-Jun-2021 17:00:26.0	yes
11	(11) HD-152723	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	1	22-Jun-2021 17:00:27.0	yes
12	(12) HD-168076	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	3	22-Jun-2021 17:00:28.0	yes
13	(13) HD-149404	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	1	22-Jun-2021 17:00:28.0	yes
14	(14) HD-73882	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	22-Jun-2021 17:00:29.0	yes
15	(15) HD-37903	STIS/CCD STIS/NUV-MAMA	1	22-Jun-2021 17:00:30.0	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>
16	(16) HD-38087	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	22-Jun-2021 17:00:31.0	yes
17	(17) HD-200775	STIS/CCD STIS/FUV-MAMA STIS/NUV-MAMA	2	22-Jun-2021 17:00:32.0	yes
18	(7) HD-192639	STIS/CCD STIS/NUV-MAMA	2	22-Jun-2021 17:00:33.0	yes
19	(3) HD-206267	STIS/CCD STIS/NUV-MAMA	1	22-Jun-2021 17:00:34.0	yes

34 Total Orbits Used

ABSTRACT

With this proposal we aim to investigate the relation between dust grain evolution, dust composition, dust extinction properties and environment in the Milky Way. To enable this, we need to expand the sample of depletion measurements, in particular to increase the number of sightlines with C and Si measurements, the two principal components of dust grains. We propose STIS spectroscopic observations towards 17 stars in a total of 31 orbits. These data (in combination with the available archival data) will allow us to study dust properties in a wide range of environments (from dense to diffuse gas clouds), and help us understand which mechanisms play a role in dust evolution in the Milky Way.

OBSERVING DESCRIPTION

We will observe 17 stars using the STIS Echelle spectrograph with the E230H/c2263 grating (to measure C, Si and Fe depletions). In addition, 12 of these stars need observations with the E140H/i1307 grating (to measure Mg and O depletions). High resolution UV spectra are needed to measure element column densities from absorption lines. The column density of a certain element is directly linked to the optical depth of its corresponding absorption line, which can be derived by comparing the measured line intensity to the continuum intensity (Sembach & Savage, 1992). In order to measure the optical depth of a certain line, we need a sufficiently high SNR around that line. From the results presented in Jenkins (2009), we can roughly predict the column density of a certain element in a given sightline, using the hydrogen column density ($N(H)$) of that sightline, in combination with the Milky Way reference abundance and an estimate for the depletion of that element. The predicted column density can in turn be

Proposal 16285 (STScI Edit Number: 1, Created: Tuesday, June 22, 2021 at 4:00:34 PM Eastern Standard Time) - Overview

used to calculate the equivalent width of the absorption line of interest (using eq. 1. from Morton (2003)). Subsequently, the requested SNR to obtain a 4 sigma detection of this line can be estimated (based on eq. 1 in Tumlinson et al. (2002)). From this, we found that sightlines with $\log[N(\text{H})] > \sim 21.45$ require a reasonable SNR $< \sim 65$ to detect the weakest absorption line (CII line at 2325A). The actual required SNR to detect the CII line for every target depends on the hydrogen column density ($N(\text{H})$) towards that target, and is lower if the density is higher. This determines the required SNR for the E230H observations, as the SiII line is somewhat stronger and the FeII line is much stronger than the CII line. For the E140H observations, all targets are bright enough to be able to detect the MgII and OI lines without any restrictions on the SNR. For these observations, we used a default SNR of 20 for all targets. The exposure time calculator for STIS predicts total exposure times between 400 and 5700 seconds per star.

We verified that the brightness limit for the MAMA detectors was never reached. We are confident about the count rate estimates of the ETC, as we used the UV flux obtained from an IUE spectrum (in the wavelength region of the grating) to normalize the Kurucz model spectrum for each target.

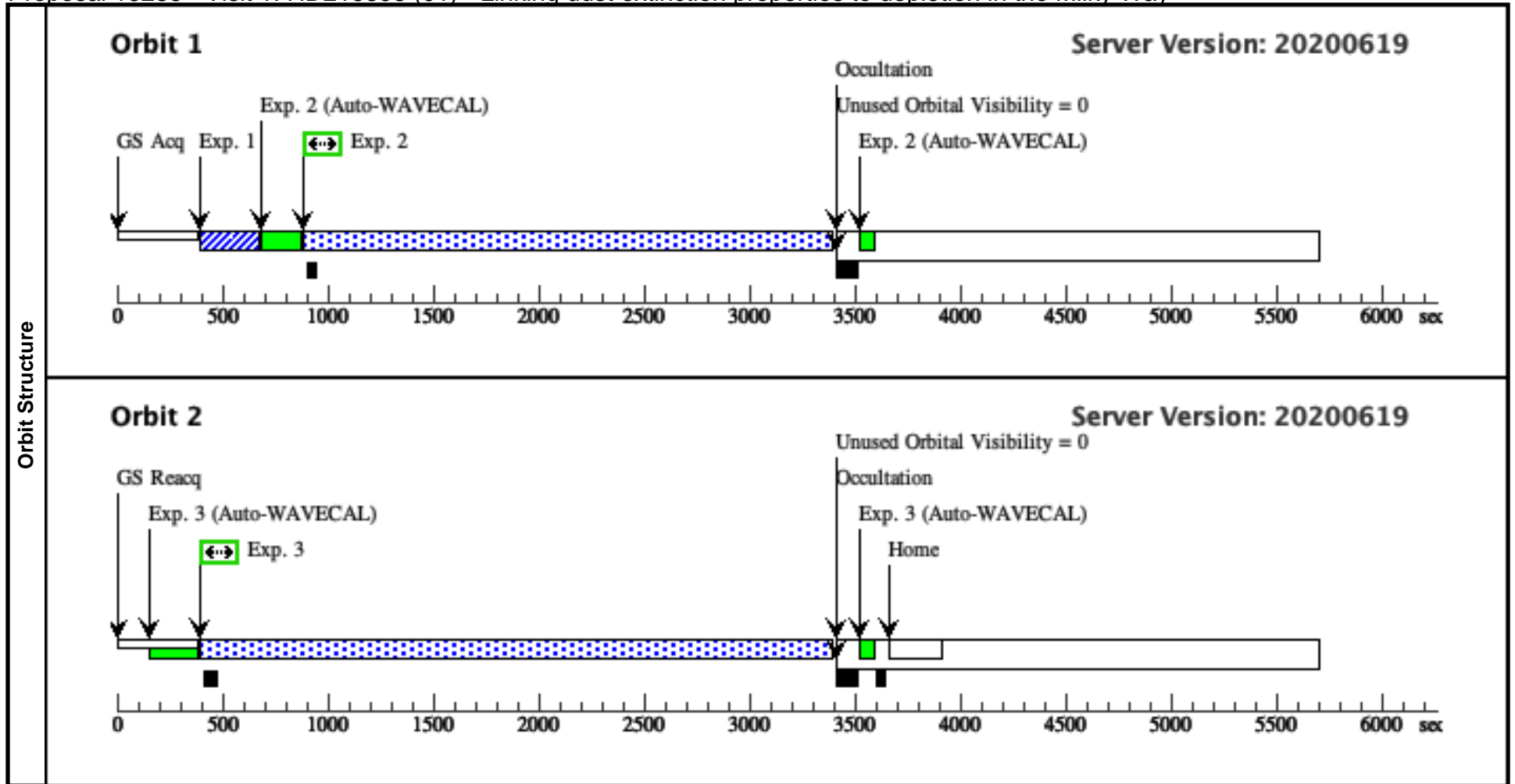
Description of possible implications of reduced-gyro operations:

Specifying a Gyro Mode of 1 for the visits in this program, and re-running the Orbit and Visit Planner, learned that reduced-gyro operations significantly reduce the visit schedulability for all visits. However, all visits are still schedulable. In case the total available exposure time in an orbit reduces, the SNR of the spectra would decrease, possibly resulting in non-detected absorption lines.

Proposal 16285 - Visit 1: HD216898 (01) - Linking dust extinction properties to depletion in the Milky Way

Tue Jun 22 21:00:34 GMT 2021

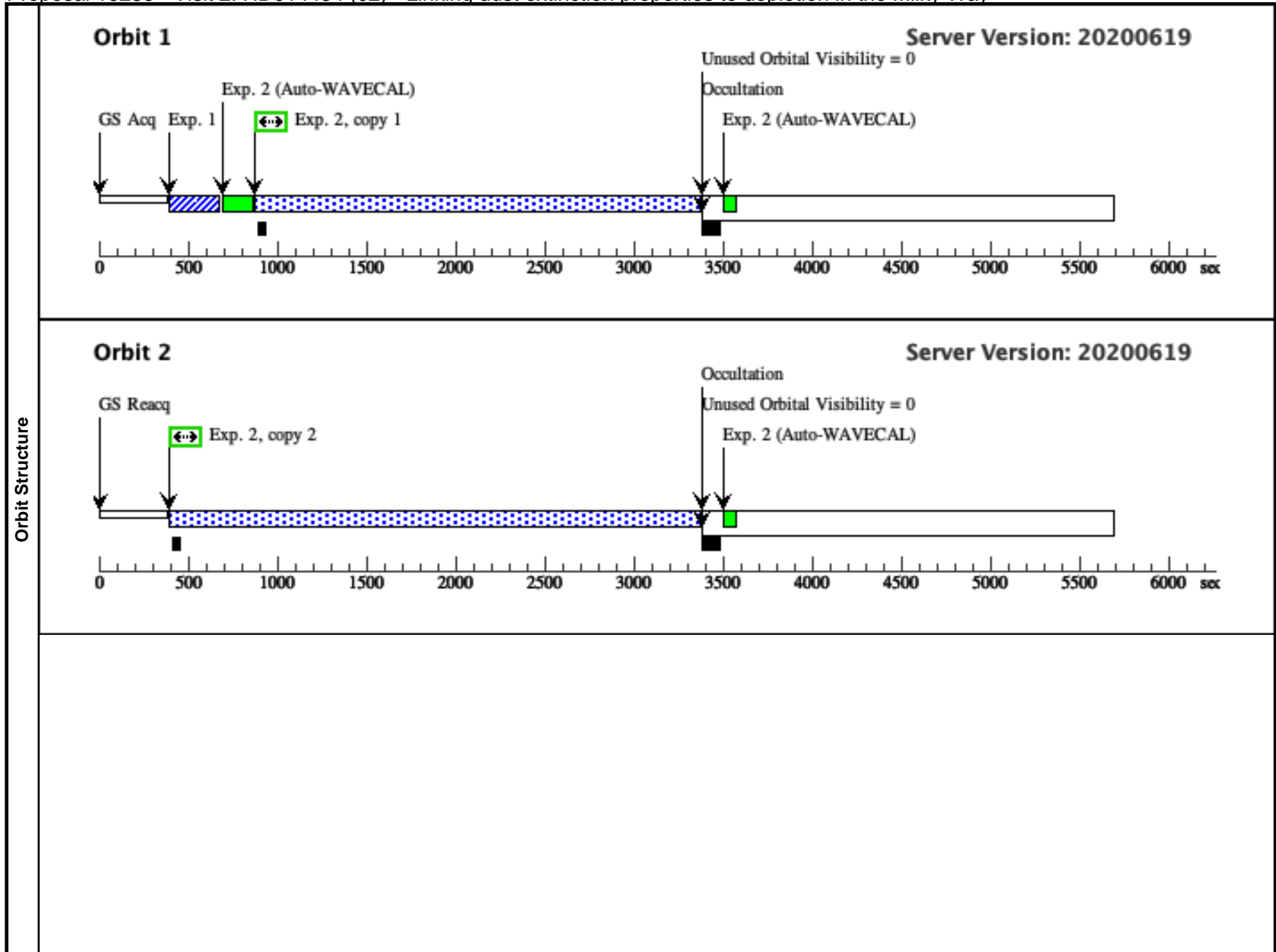
Visit	Proposal 16285, Visit 1: HD216898 (01), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: (none) <i>Comments: STIS observations of HD216898</i>																					
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>HD-216898</td> <td>RA: 22 55 42.4565 (343.9269021d) Dec: +62 18 22.77 (62.30632d) Equinox: J2000</td> <td>Proper Motion RA: -1.1074190380937515E-4 sec of time/yr Proper Motion Dec: - 0.0029340000764932483 arcsec/yr Epoch of Position: 2015.5</td> <td>V=8.04</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[MAIN SEQUENCE O] Extended=NO</p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	HD-216898	RA: 22 55 42.4565 (343.9269021d) Dec: +62 18 22.77 (62.30632d) Equinox: J2000	Proper Motion RA: -1.1074190380937515E-4 sec of time/yr Proper Motion Dec: - 0.0029340000764932483 arcsec/yr Epoch of Position: 2015.5	V=8.04
#		Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																
(1)	HD-216898	RA: 22 55 42.4565 (343.9269021d) Dec: +62 18 22.77 (62.30632d) Equinox: J2000	Proper Motion RA: -1.1074190380937515E-4 sec of time/yr Proper Motion Dec: - 0.0029340000764932483 arcsec/yr Epoch of Position: 2015.5	V=8.04	Reference Frame: ICRS																	
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit												
	1	TA HD216898 98 (1450766)	(1) HD-216898	STIS/CCD, ACQ, F28X500III	MIRROR				1 Secs (1 Secs) [==>]	[1]												
	2	E140H HD216898 (1450035)	(1) HD-216898	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140H 1307 A				1385 Secs (2496 Secs) [==>2496.0 Secs]	[1]												
	3	E230H HD216898 (1449976)	(1) HD-216898	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230H 2263 A				2642 Secs (2989 Secs) [==>2989.0 Secs]	[2]												

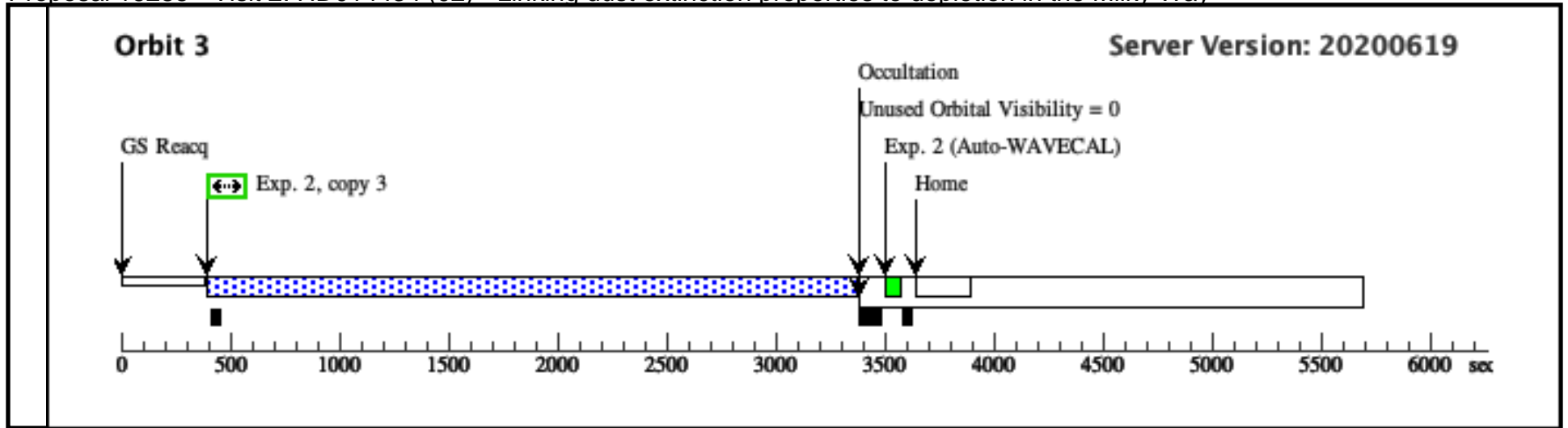


Proposal 16285 - Visit 2: HD014434 (02) - Linking dust extinction properties to depletion in the Milky Way

Tue Jun 22 21:00:34 GMT 2021

Visit	Proposal 16285, Visit 2: HD014434 (02), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none) <i>Comments: STIS observations of HD014434</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(2)	HD-14434	RA: 02 21 52.4115 (35.4683813d) Dec: +56 54 17.98 (56.90499d) Equinox: J2000	Proper Motion RA: -4.554093358814812E-5 sec of time/yr Proper Motion Dec: - 0.0031260000923793996 arcsec/yr Epoch of Position: 2015.5	V=8.49	Reference Frame: ICRS			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[EMISSION LINE STAR, MAIN SEQUENCE O] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA HD0144 34 (1450768)	(2) HD-14434	STIS/CCD, ACQ, F28X500III	MIRROR				3 Secs (3 Secs)	
									[==>]	[1]
	2	E230H HD0 14434 (1449977)	(2) HD-14434	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230H 2263 A				1779 Secs X 3 (8420 Secs)	
									[==>2486.0 Secs (Copy 1)]	[1]
								[==>2967.0 Secs (Copy 2)]	[2]	
								[==>2967.0 Secs (Copy 3)]	[3]	





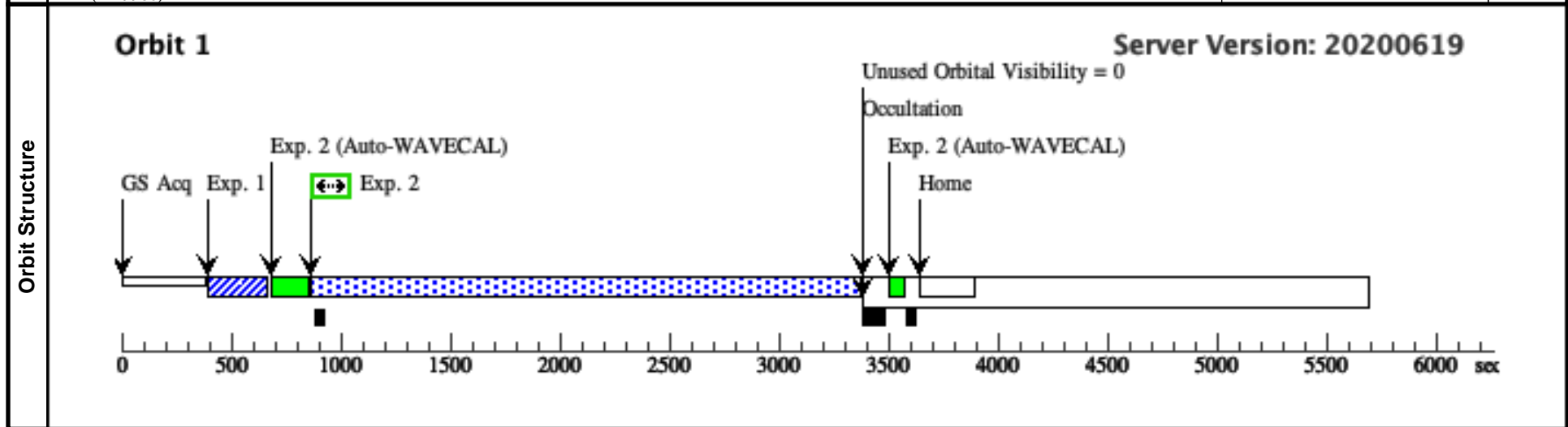
Proposal 16285 - Visit 3: HD206267 (03) - Linking dust extinction properties to depletion in the Milky Way

Tue Jun 22 21:00:35 GMT 2021

Visit	Proposal 16285, Visit 3: HD206267 (03), failed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD				
	Special Requirements: (none)				
<i>Comments: STIS observations of HD206267</i>					

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	HD-206267	RA: 21 38 57.6126 (324.7400525d) Dec: +57 29 20.47 (57.48902d) Equinox: J2000	Proper Motion RA: -3.6666209945109126E-4 sec of time/yr Proper Motion Dec: -0.005764000093222421 arcsec/yr Epoch of Position: 2015.5	V=5.62	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					
Category=STAR Description=[MAIN SEQUENCE O] Extended=NO					

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	TA HD206267 (1450771)	(3) HD-206267	STIS/CCD, ACQ, F28X500III	MIRROR				0.5 Secs (0.5 Secs) [==>]	[1]
2	E230H HD206267 (1449986)	(3) HD-206267	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230H 2263 A				433 Secs (2496 Secs) [==>2496.0 Secs]	[1]



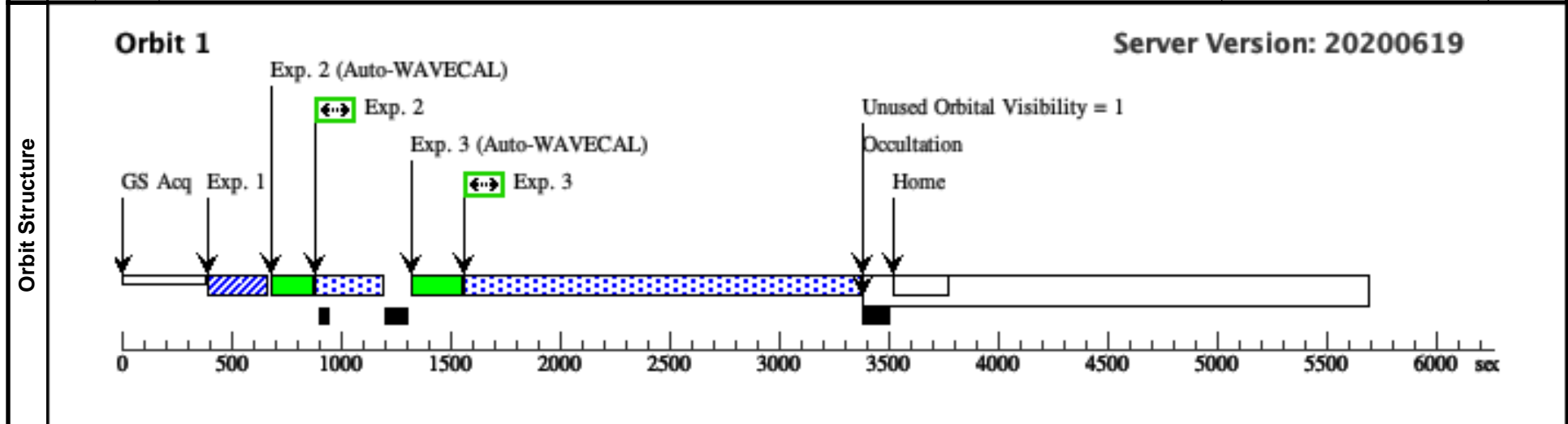
Proposal 16285 - Visit 4: HD197770 (04) - Linking dust extinction properties to depletion in the Milky Way

Tue Jun 22 21:00:35 GMT 2021

Visit	Proposal 16285, Visit 4: HD197770 (04), completed				
	Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: (none) <i>Comments: STIS observations of HD197770</i>				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	HD-197770	RA: 20 43 13.6789 (310.8069954d) Dec: +57 06 50.30 (57.11397d) Equinox: J2000	Proper Motion RA: -3.3838598119333054E-4 sec of time/yr Proper Motion Dec: -0.004762000048685877 arcsec/yr Epoch of Position: 2015.5	V=6.334	Reference Frame: ICRS
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[ALGOL SYSTEM, B0-B2 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	TA HD197770 (1450774)	(4) HD-197770	STIS/CCD, ACQ, F28X500III	MIRROR				0.5 Secs (0.5 Secs) [==>]	[1]
	2	E140H HD197770 (1450037)	(4) HD-197770	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140H 1307 A				260 Secs (296 Secs) [==>296.0 Secs]	[1]
	<i>Comments: Reported BOT health/safety object seems to be the target object itself. We verified that the brightness limits are not reached with the ETC (ID: 1450037). In the ETC, we used the Kurucz spectral model normalized to the UV flux at 1350A, retrieved from the IUE spectrum of this object (Data ID: swp46572).</i>									
	3	E230H HD197770 (1449989)	(4) HD-197770	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230H 2263 A				1758 Secs (1794 Secs) [==>1794.0 Secs]	[1]



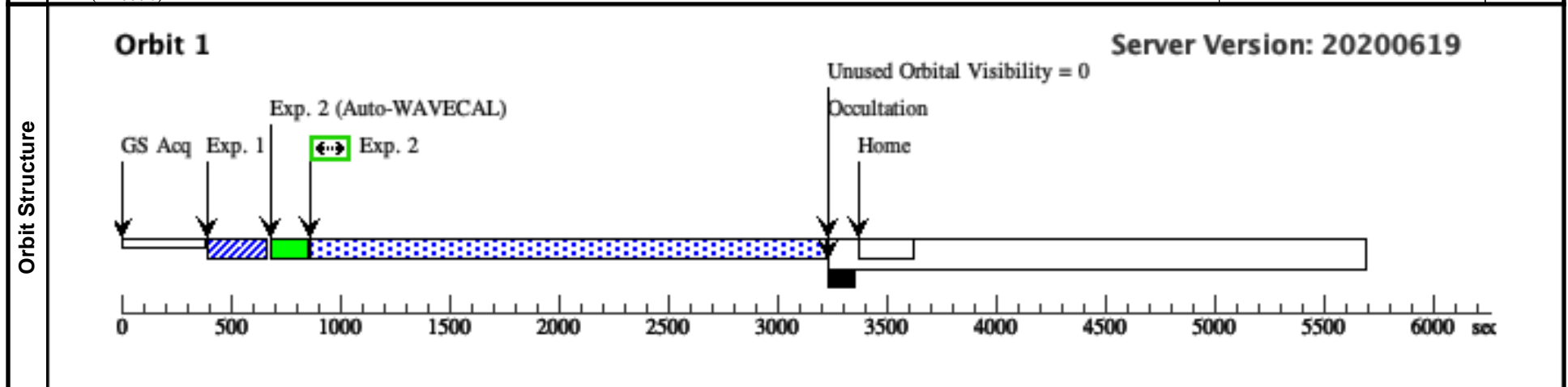
Proposal 16285 - Visit 5: HD152249 (05) - Linking dust extinction properties to depletion in the Milky Way

Tue Jun 22 21:00:35 GMT 2021

Visit	Proposal 16285, Visit 5: HD152249 (05), scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD				
	Special Requirements: (none)				
<i>Comments: STIS observations of HD152249</i>					

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	HD-152249	RA: 16 54 11.6387 (253.5484946d) Dec: -41 50 57.33 (-41.84926d) Equinox: J2000	Proper Motion RA: -3.338243642057528E-5 sec of time/yr Proper Motion Dec: - 0.0023459999511032947 arcsec/yr Epoch of Position: 2015.5	V=6.45	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					
Category=STAR Description=[SUPERGIANT O] Extended=NO					

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	TA HD1522 49 (1450775)	(5) HD-152249	STIS/CCD, ACQ, F28X500III	MIRROR				0.5 Secs (0.5 Secs) [==>]	[1]
2	E230H HD1 52249 (1449990)	(5) HD-152249	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230H 2263 A				796 Secs (2345 Secs) [==>2345.0 Secs]	[1]



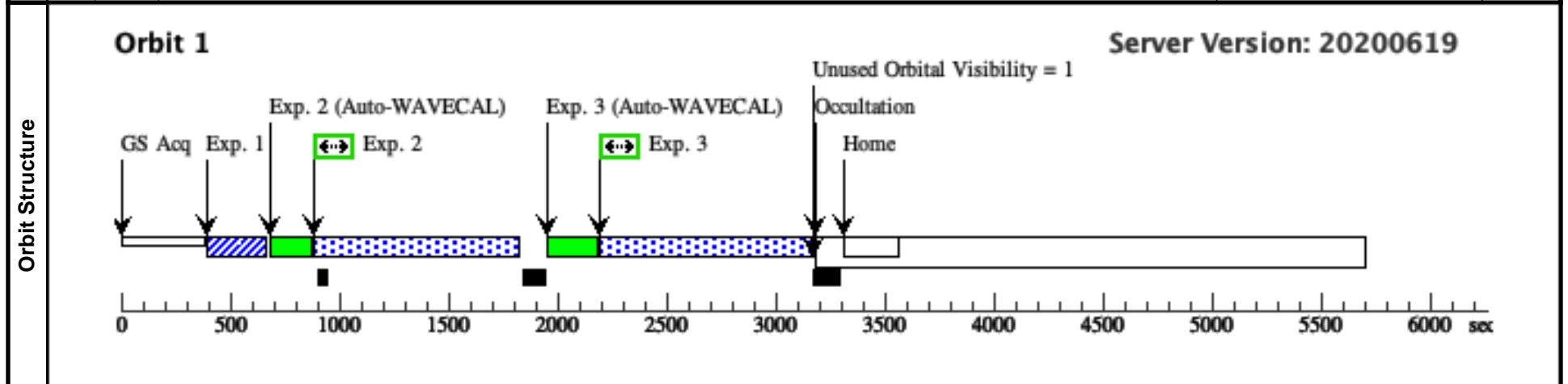
Proposal 16285 - Visit 6: HD190603 (06) - Linking dust extinction properties to depletion in the Milky Way

Tue Jun 22 21:00:35 GMT 2021

Visit	Proposal 16285, Visit 6: HD190603 (06), completed				
	Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: (none) <i>Comments: STIS observations of HD190603</i>				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(6)	HD-190603	RA: 20 04 36.1698 (301.1507075d) Dec: +32 13 6.78 (32.21855d) Equinox: J2000	Proper Motion RA: -2.9573748356308526E-4 sec of time/yr Proper Motion Dec: -0.010862999920391303 arcsec/yr Epoch of Position: 2015.5	V=5.65	Reference Frame: ICRS
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[B0-B2 III-I] Extended=NO					

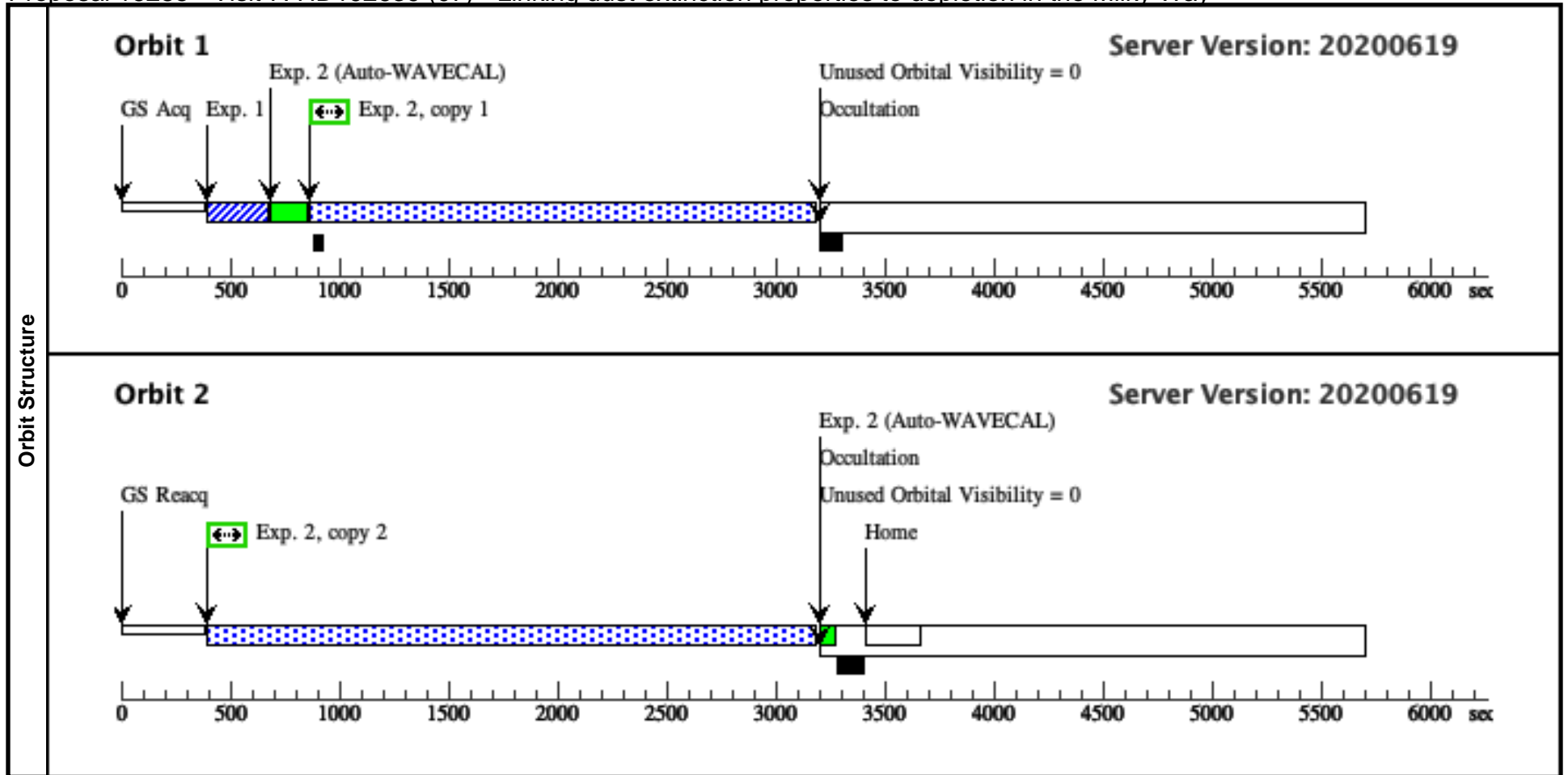
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA HD1906 03 (1450777)	(6) HD-190603	STIS/CCD, ACQ, F28X500III	MIRROR				0.5 Secs (0.5 Secs) [==>]	[1]
	2	E140H HD1 90603 (1450040)	(6) HD-190603	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140H 1307 A				631 Secs (928 Secs) [==>928.0 Secs]	[1]
	<i>Comments: Reported BOT health/safety object seems to be the target object itself. We verified that the brightness limits are not reached with the ETC (ID: 1450040). In the ETC, we used the Kurucz spectral model normalized to the UV flux at 1350A, retrieved from the IUE spectrum of this object (Data ID: swp02121).</i>									
	3	E230H HD1 90603 (1449991)	(6) HD-190603	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230H 2263 A				656 Secs (953 Secs) [==>953.0 Secs]	[1]



Proposal 16285 - Visit 7: HD192639 (07) - Linking dust extinction properties to depletion in the Milky Way

Tue Jun 22 21:00:35 GMT 2021

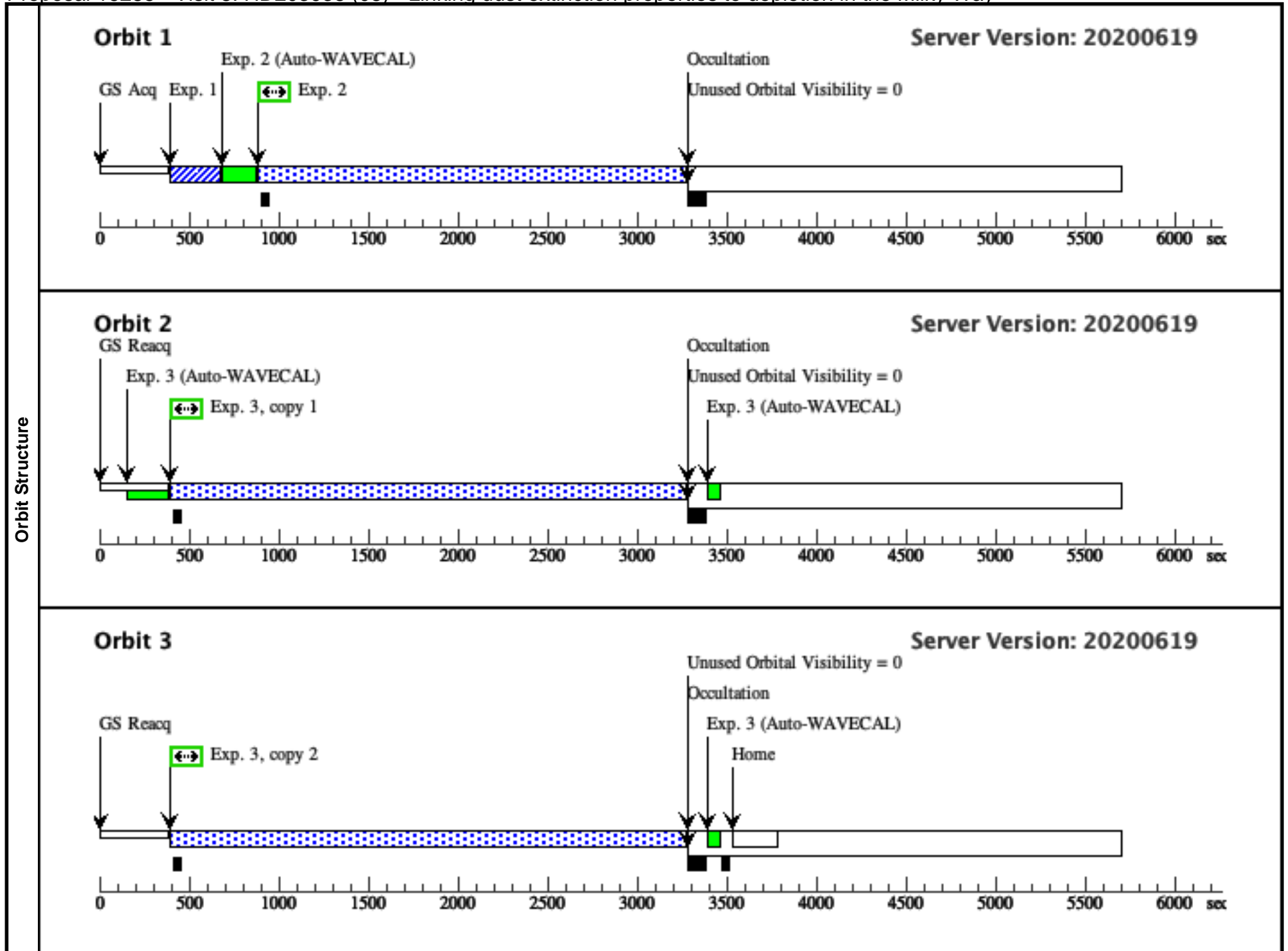
Visit	Proposal 16285, Visit 7: HD192639 (07), failed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none) <i>Comments: STIS observations of HD192639</i>									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(7)	HD-192639	RA: 20 14 30.4223 (303.6267596d) Dec: +37 21 13.80 (37.35383d) Equinox: J2000	Proper Motion RA: -3.363929274111738E-4 sec of time/yr Proper Motion Dec: -7.479999339921051E-4 arcsec/yr Epoch of Position: 2015.5		V=7.11	Reference Frame: ICRS			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[SUPERGIANT O] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA HD1926 39 (1450779)	(7) HD-192639	STIS/CCD, ACQ, F28X50OIII	MIRROR				1 Secs (1 Secs) [==>]	[1]
	2	E230H HD1 92639 (1449992)	(7) HD-192639	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230H 2263 A				2119 Secs X 2 (5083 Secs) [==>2305.0 Secs (Copy 1)] [==>2778.0 Secs (Copy 2)]	[1] [2]



Proposal 16285 - Visit 8: HD203938 (08) - Linking dust extinction properties to depletion in the Milky Way

Tue Jun 22 21:00:35 GMT 2021

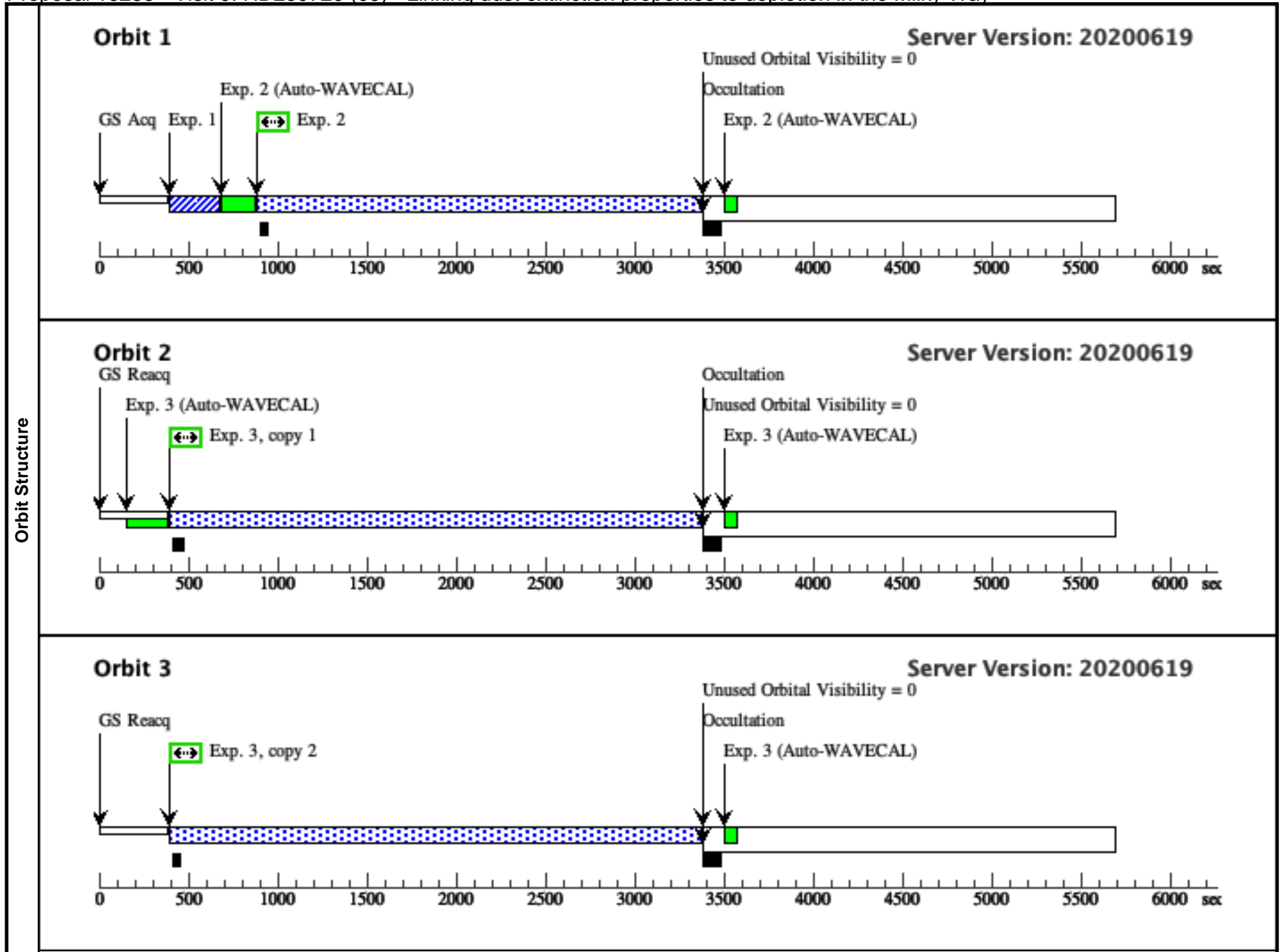
Visit	Proposal 16285, Visit 8: HD203938 (08), completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: (none) <i>Comments: STIS observations of HD203938</i>																					
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(8)</td> <td>HD-203938</td> <td>RA: 21 23 50.1711 (320.9590462d) Dec: +47 09 52.30 (47.16453d) Equinox: J2000</td> <td>Proper Motion RA: -2.637660489714744E-4 sec of time/yr Proper Motion Dec: -0.005280000027596543 arcsec/yr Epoch of Position: 2015.5</td> <td>V=7.08</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[B0-B2 V-IV] Extended=NO</p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(8)	HD-203938	RA: 21 23 50.1711 (320.9590462d) Dec: +47 09 52.30 (47.16453d) Equinox: J2000	Proper Motion RA: -2.637660489714744E-4 sec of time/yr Proper Motion Dec: -0.005280000027596543 arcsec/yr Epoch of Position: 2015.5	V=7.08
#		Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																
(8)	HD-203938	RA: 21 23 50.1711 (320.9590462d) Dec: +47 09 52.30 (47.16453d) Equinox: J2000	Proper Motion RA: -2.637660489714744E-4 sec of time/yr Proper Motion Dec: -0.005280000027596543 arcsec/yr Epoch of Position: 2015.5	V=7.08	Reference Frame: ICRS																	
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit												
	1	TA HD203938 (1450780)	(8) HD-203938	STIS/CCD, ACQ, F28X500III	MIRROR				1 Secs (1 Secs) [==>]	[1]												
	2	E140H HD203938 (1450043)	(8) HD-203938	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140H 1307 A				804 Secs (2370 Secs) [==>2370.0 Secs]	[1]												
	3	E230H HD203938 (1449993)	(8) HD-203938	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230H 2263 A				2466 Secs X 2 (5726 Secs) [==>2863.0 Secs (Copy 1)] [==>2863.0 Secs (Copy 2)]	[2] [3]												

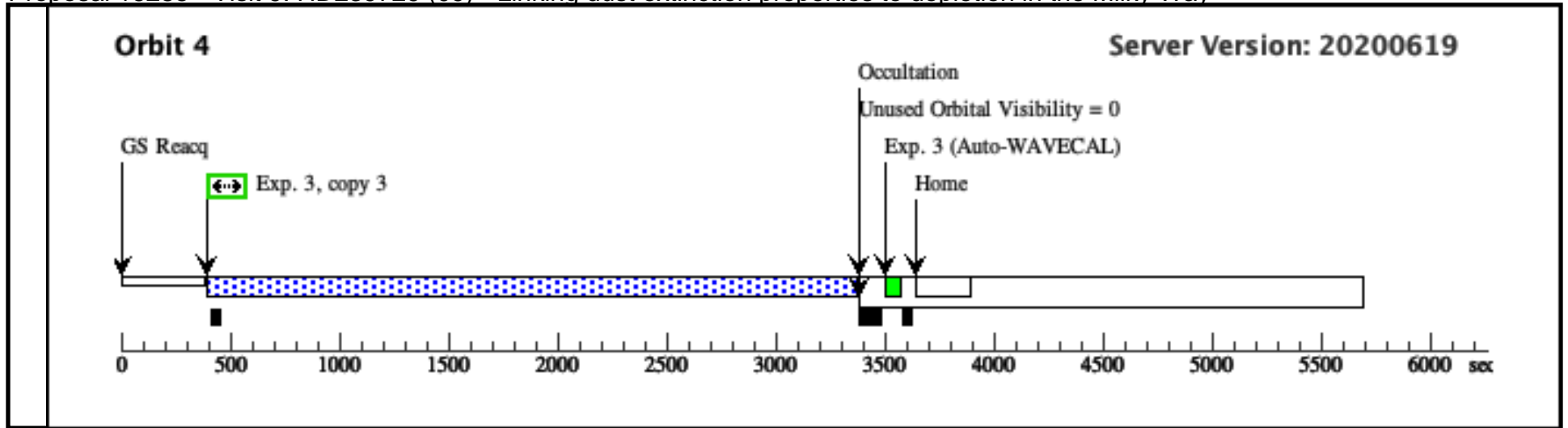


Proposal 16285 - Visit 9: HD239729 (09) - Linking dust extinction properties to depletion in the Milky Way

Tue Jun 22 21:00:35 GMT 2021

Visit	Proposal 16285, Visit 9: HD239729 (09), completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: (none) Comments: <i>STIS observations of HD239729</i>																					
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(9)</td> <td>HD-239729</td> <td>RA: 21 39 27.4009 (324.8641704d) Dec: +57 29 0.74 (57.48354d) Equinox: J2000</td> <td>Proper Motion RA: -3.387022801479468E-4 sec of time/yr Proper Motion Dec: -0.004269999931238999 arcsec/yr Epoch of Position: 2015.5</td> <td>V=8.35</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> Comments: <i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[B0-B2 V-IV] Extended=NO										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(9)	HD-239729	RA: 21 39 27.4009 (324.8641704d) Dec: +57 29 0.74 (57.48354d) Equinox: J2000	Proper Motion RA: -3.387022801479468E-4 sec of time/yr Proper Motion Dec: -0.004269999931238999 arcsec/yr Epoch of Position: 2015.5	V=8.35
#		Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																
(9)	HD-239729	RA: 21 39 27.4009 (324.8641704d) Dec: +57 29 0.74 (57.48354d) Equinox: J2000	Proper Motion RA: -3.387022801479468E-4 sec of time/yr Proper Motion Dec: -0.004269999931238999 arcsec/yr Epoch of Position: 2015.5	V=8.35	Reference Frame: ICRS																	
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit												
	1	TA HD239729 (1450781)	(9) HD-239729	STIS/CCD, ACQ, F28X500III	MIRROR				1 Secs (1 Secs) [==>]	[1]												
	2	E140H HD239729 (1450046)	(9) HD-239729	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140H 1307 A				1643 Secs (2474 Secs) [==>2474.0 Secs]	[1]												
	3	E230H HD239729 (1449994)	(9) HD-239729	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230H 2263 A				2115 Secs X 3 (8901 Secs) [==>2967.0 Secs (Copy 1)] [==>2967.0 Secs (Copy 2)] [==>2967.0 Secs (Copy 3)]	[2] [3] [4]												





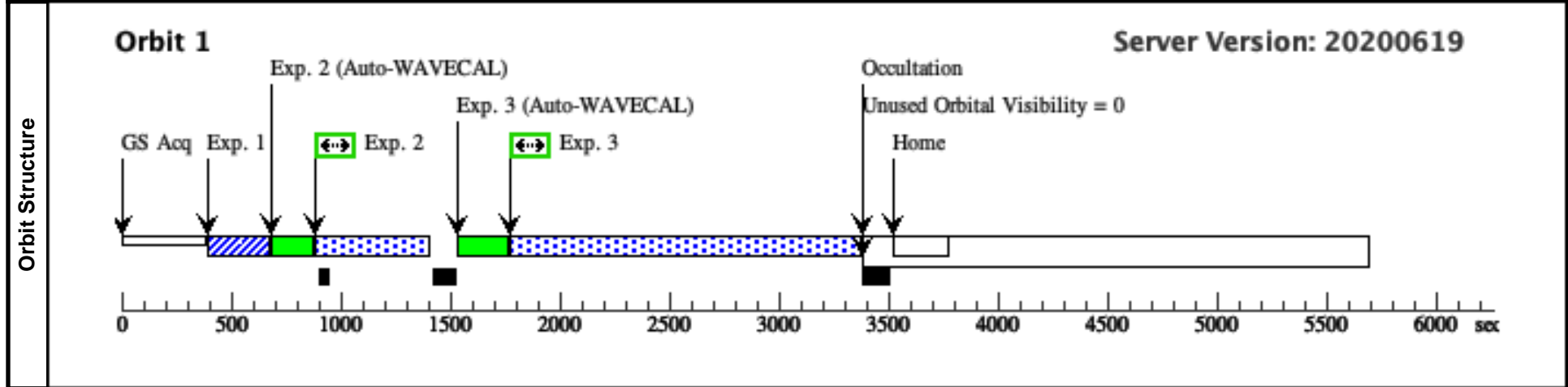
Proposal 16285 - Visit 10: HD093250 (10) - Linking dust extinction properties to depletion in the Milky Way

Tue Jun 22 21:00:35 GMT 2021

Visit	Proposal 16285, Visit 10: HD093250 (10), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				
<i>Comments: STIS observations of HD093250</i>					

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(10)	HD-93250	RA: 10 44 45.0130 (161.1875542d) Dec: -59 33 54.63 (-59.56518d) Equinox: J2000	Proper Motion RA: -9.045362800628832E-4 sec of time/yr Proper Motion Dec: 0.003097 arcsec/yr Epoch of Position: 2015.5	V=7.5	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					
Category=STAR Description=[GIANT O] Extended=NO					

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	TA HD093250 (1450782)	(10) HD-93250	STIS/CCD, ACQ, F28X500III	MIRROR				1 Secs (1 Secs) [==>]	[1]
2	E140H HD093250 (1450047)	(10) HD-93250	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140H 1307 A				138 Secs (506 Secs) [==>506.0 Secs]	[1]
3	E230H HD093250 (1449995)	(10) HD-93250	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230H 2263 A				1215 Secs (1583 Secs) [==>1583.0 Secs]	[1]



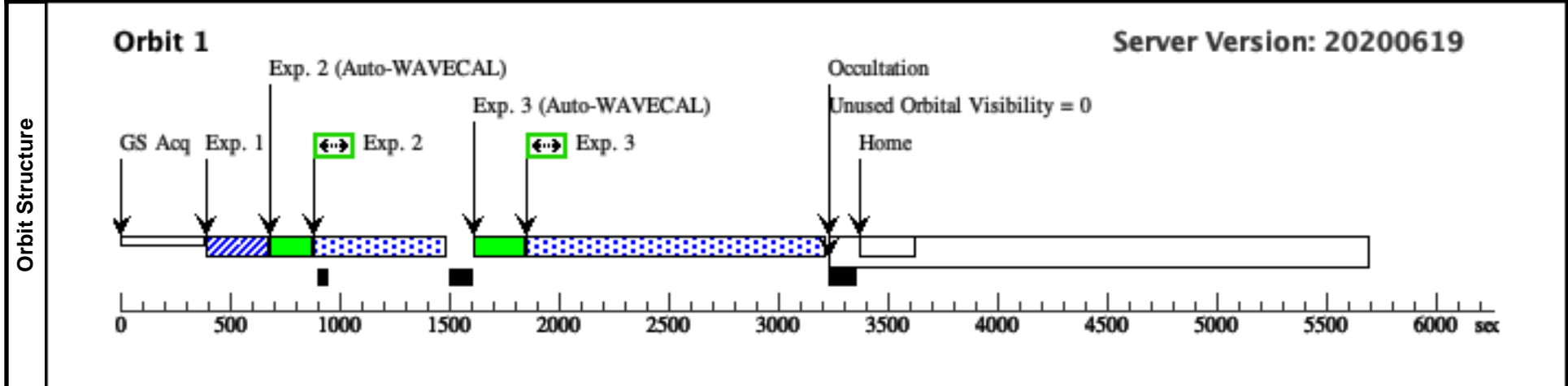
Proposal 16285 - Visit 11: HD152723 (11) - Linking dust extinction properties to depletion in the Milky Way

Tue Jun 22 21:00:35 GMT 2021

Visit	Proposal 16285, Visit 11: HD152723 (11), scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA				
	Special Requirements: (none)				
<i>Comments: STIS observations of HD152723</i>					

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(11)	HD-152723	RA: 16 56 54.6696 (254.2277900d) Dec: -40 30 44.44 (-40.51234d) Equinox: J2000	Proper Motion RA: -1.4468619923898934E-4 sec of time/yr Proper Motion Dec: 9.189999999999999E-4 arcsec/yr Epoch of Position: 2015.5	V=7.1	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					
Category=STAR Description=[GIANT O] Extended=NO					

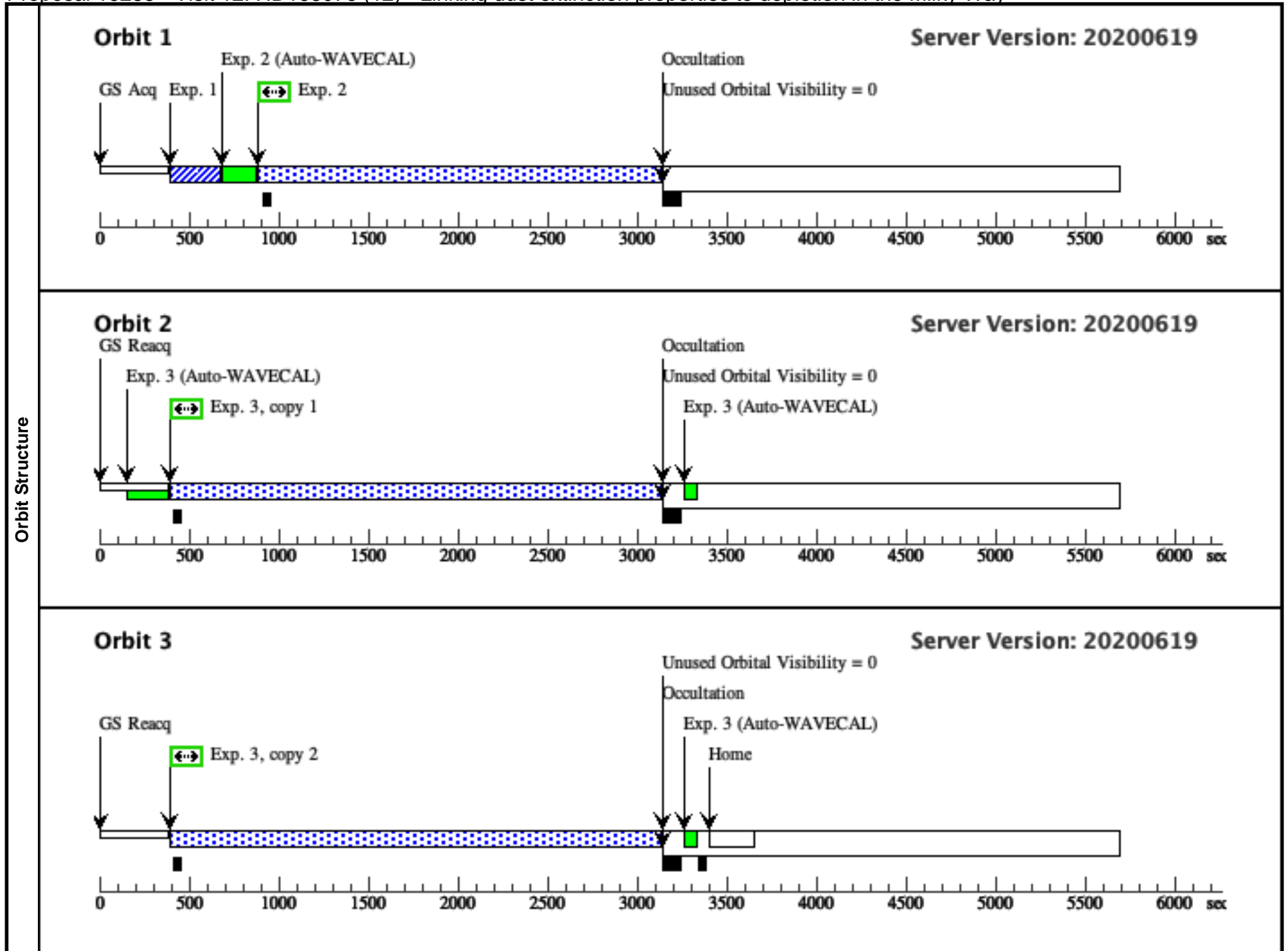
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	TA HD1527 23 (1450783)	(11) HD-152723	STIS/CCD, ACQ, F28X500III	MIRROR				1 Secs (1 Secs) [==>]	[1]
2	E140H HD1 52723 (1450052)	(11) HD-152723	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140H 1307 A				110 Secs (589 Secs) [==>589.0 Secs]	[1]
<i>Comments: Reported BOT health/safety object seems to be the target object itself. We verified that the brightness limits are not reached with the ETC (ID: 1450052). In the ETC, we used the Kurucz spectral model normalized to the UV flux at 1350A, retrieved from the IUE spectrum of this object (Data ID: swp31626).</i>									
3	E230H HD1 52723 (1449997)	(11) HD-152723	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230H 2263 A				870 Secs (1349 Secs) [==>1349.0 Secs]	[1]
<i>Comments: Reported BOT health/safety object seems to be the target object itself. We verified that the brightness limits are not reached with the ETC (ID: 1449997). In the ETC, we used the Kurucz spectral model normalized to the UV flux at 2325A, retrieved from the IUE spectrum of this object (Data ID: lwp11466).</i>									



Proposal 16285 - Visit 12: HD168076 (12) - Linking dust extinction properties to depletion in the Milky Way

Tue Jun 22 21:00:35 GMT 2021

Visit	Proposal 16285, Visit 12: HD168076 (12), completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: (none) <i>Comments: STIS observations of HD168076</i>									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	HD-168076	RA: 18 18 36.4223 (274.6517596d) Dec: -13 48 2.43 (-13.80068d) Equinox: J2000	Proper Motion RA: 6.38430551769854E-6 sec of time/yr Proper Motion Dec: 0.002097 arcsec/yr Epoch of Position: 2015.5	V=8.25	Reference Frame: ICRS				
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[GIANT O] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA HD168076 (1450784)	(12) HD-168076	STIS/CCD, ACQ, F28X50OIII	MIRROR				2 Secs (2 Secs) [==>]	[1]
	2	E140H HD168076 (1450055)	(12) HD-168076	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140H 1307 A				1107 Secs (2230 Secs) [==>2230.0 Secs]	[1]
	3	E230H HD168076 (1449999)	(12) HD-168076	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230H 2263 A				1885 Secs X 2 (5454 Secs) [==>2727.0 Secs (Copy 1)] [==>2727.0 Secs (Copy 2)]	[2] [3]



Orbit Structure

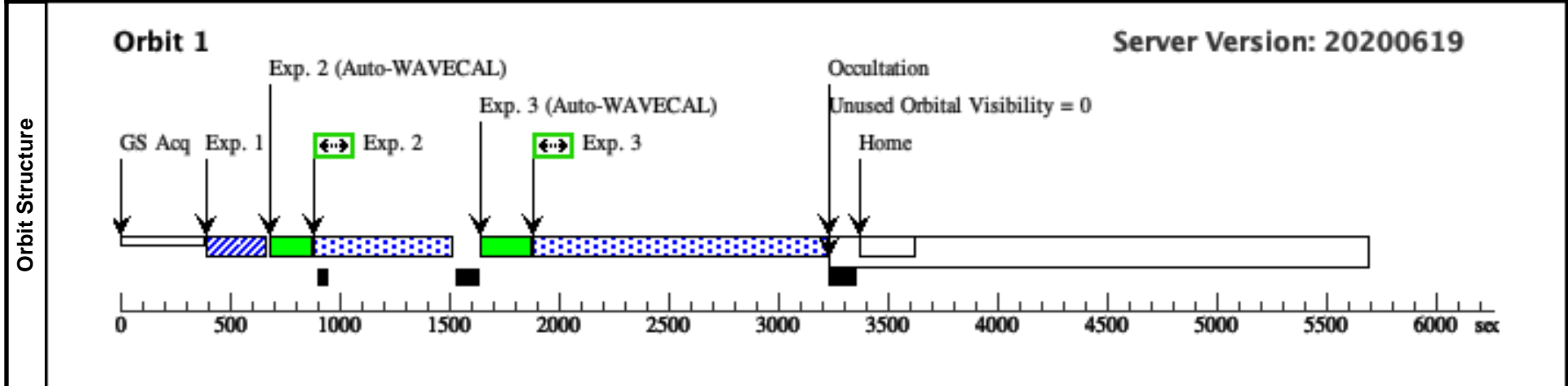
Proposal 16285 - Visit 13: HD149404 (13) - Linking dust extinction properties to depletion in the Milky Way

Tue Jun 22 21:00:35 GMT 2021

Visit	Proposal 16285, Visit 13: HD149404 (13), scheduling				
	Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: (none) <i>Comments: STIS observations of HD149404</i>				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(13)	HD-149404	RA: 16 36 22.5581 (249.0939921d) Dec: -42 51 31.95 (-42.85888d) Equinox: J2000	Proper Motion RA: -3.0621702964730627E-4 sec of time/yr Proper Motion Dec: -0.002823000022544875 arcsec/yr Epoch of Position: 2015.5	V=5.52	Reference Frame: ICRS
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[SUPERGIANT O] Extended=NO					

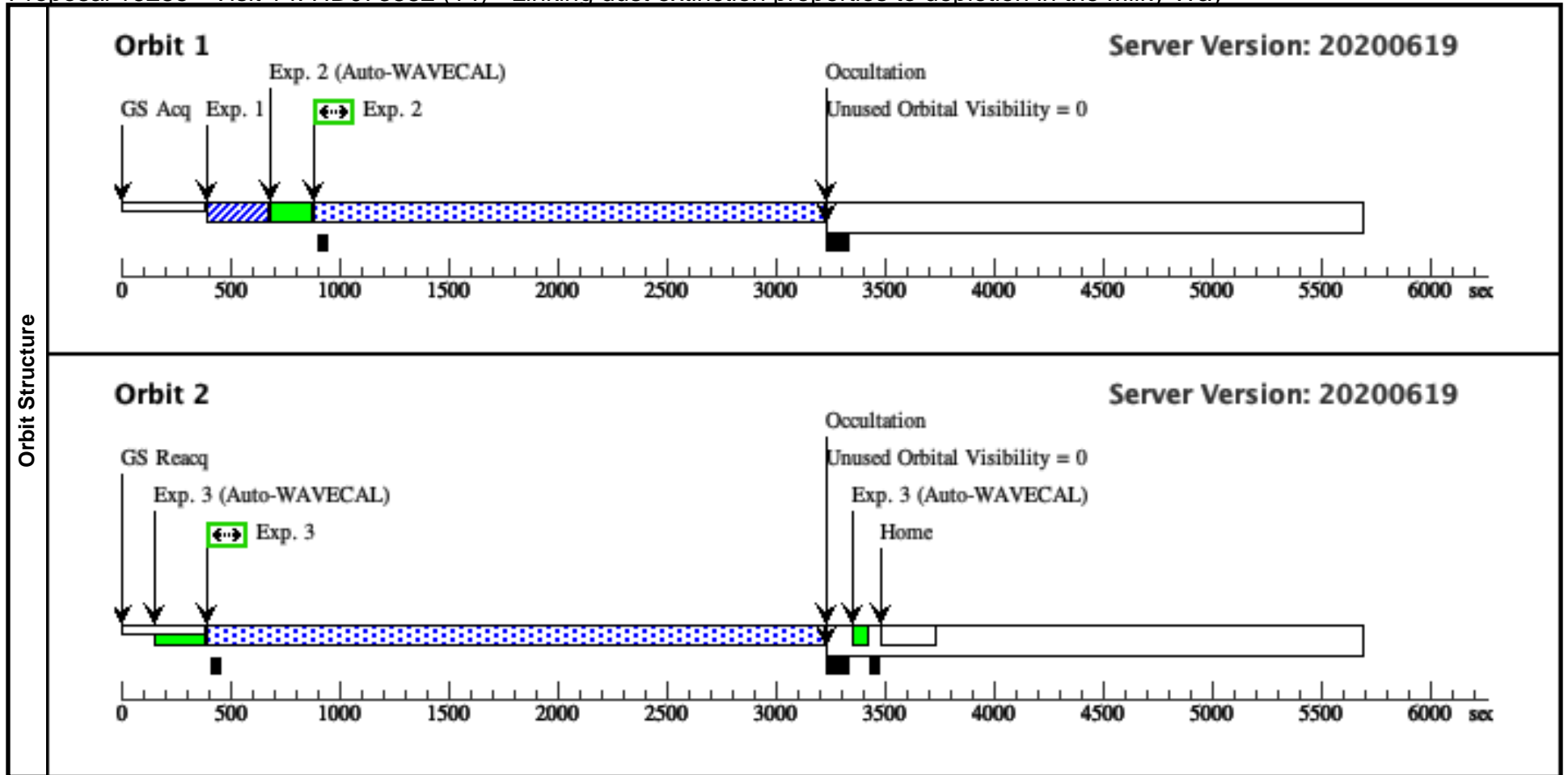
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA HD1494 04 (1450785)	(13) HD-149404	STIS/CCD, ACQ, F28X500III	MIRROR				0.5 Secs (0.5 Secs) [==>]	[1]
	2	E140H HD1 49404 (1450058)	(13) HD-149404	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140H 1307 A				98 Secs (619 Secs) [==>619.0 Secs]	[1]
	3	E230H HD1 49404 (1450001)	(13) HD-149404	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230H 2263 A				800 Secs (1321 Secs) [==>1321.0 Secs]	[1]
	<i>Comments: Reported BOT health/safety object seems to be the target object itself. We verified that the brightness limits are not reached with the ETC (ID: 1450058). In the ETC, we used the Kurucz spectral model normalized to the UV flux at 1350A, retrieved from the IUE spectrum of this object (Data ID: swp48001).</i>									
	<i>Comments: Reported BOT health/safety object seems to be the target object itself. We verified that the brightness limits are not reached with the ETC (ID: 1450001). In the ETC, we used the Kurucz spectral model normalized to the UV flux at 2325A, retrieved from the IUE spectrum of this object (Data ID: lwp25826).</i>									



Proposal 16285 - Visit 14: HD073882 (14) - Linking dust extinction properties to depletion in the Milky Way

Tue Jun 22 21:00:35 GMT 2021

Visit	Proposal 16285, Visit 14: HD073882 (14), completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: (none) Comments: <i>STIS observations of HD073882</i>																					
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(14)</td> <td>HD-73882</td> <td>RA: 08 39 9.5290 (129.7897042d) Dec: -40 25 9.20 (-40.41922d) Equinox: J2000</td> <td>Proper Motion RA: -3.301280171532504E-4 sec of time/yr Proper Motion Dec: 0.00383 arcsec/yr Epoch of Position: 2015.5</td> <td>V=7.19</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> Comments: <i>This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[GIANT O, MAIN SEQUENCE O] Extended=NO										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(14)	HD-73882	RA: 08 39 9.5290 (129.7897042d) Dec: -40 25 9.20 (-40.41922d) Equinox: J2000	Proper Motion RA: -3.301280171532504E-4 sec of time/yr Proper Motion Dec: 0.00383 arcsec/yr Epoch of Position: 2015.5	V=7.19
#		Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																
(14)	HD-73882	RA: 08 39 9.5290 (129.7897042d) Dec: -40 25 9.20 (-40.41922d) Equinox: J2000	Proper Motion RA: -3.301280171532504E-4 sec of time/yr Proper Motion Dec: 0.00383 arcsec/yr Epoch of Position: 2015.5	V=7.19	Reference Frame: ICRS																	
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit												
	1	TA HD073882 (1450786)	(14) HD-73882	STIS/CCD, ACQ, F28X500III	MIRROR				1 Secs (1 Secs) [==>]	[1]												
	2	E140H HD073882 (1450060)	(14) HD-73882	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140H 1307 A				737 Secs (2323 Secs) [==>2323.0 Secs]	[1]												
	3	E230H HD073882 (1450002)	(14) HD-73882	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230H 2263 A				1978 Secs (2816 Secs) [==>2816.0 Secs]	[2]												



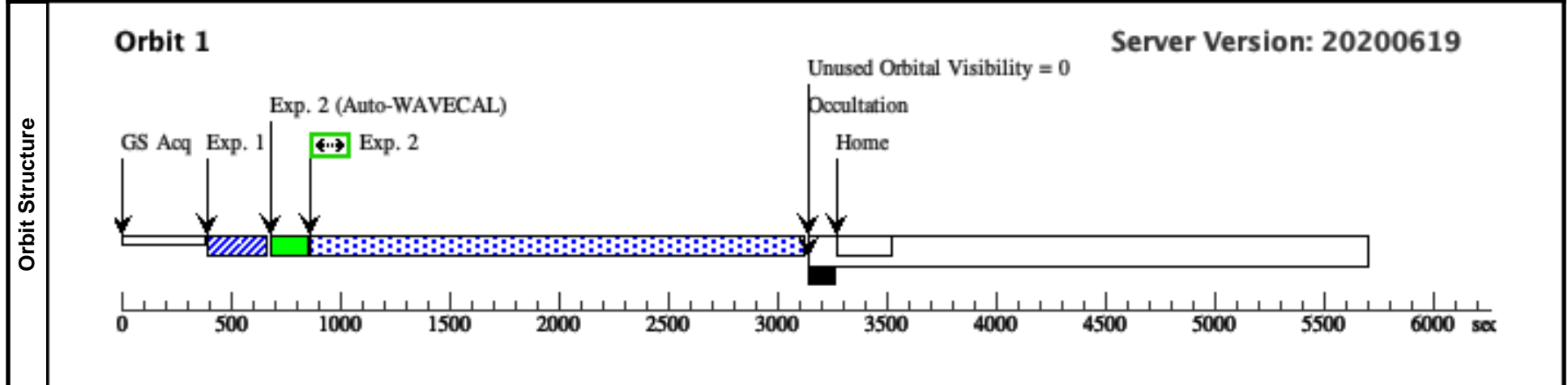
Proposal 16285 - Visit 15: HD037903 (15) - Linking dust extinction properties to depletion in the Milky Way

Tue Jun 22 21:00:35 GMT 2021

Visit	Proposal 16285, Visit 15: HD037903 (15), completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD				
	Special Requirements: (none)				
<i>Comments: STIS observations of HD037903</i>					

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(15)	HD-37903	RA: 05 41 38.3890 (85.4099542d) Dec: -02 15 32.48 (-2.25902d) Equinox: J2000	Proper Motion RA: 6.872007301594279E-6 sec of time/yr Proper Motion Dec: -1.2200007404317148E-4 arcsec/yr Epoch of Position: 2015.5	V=7.83	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					
Category=STAR Description=[B3-B5 V-IV, EMISSION LINE STAR] Extended=NO					

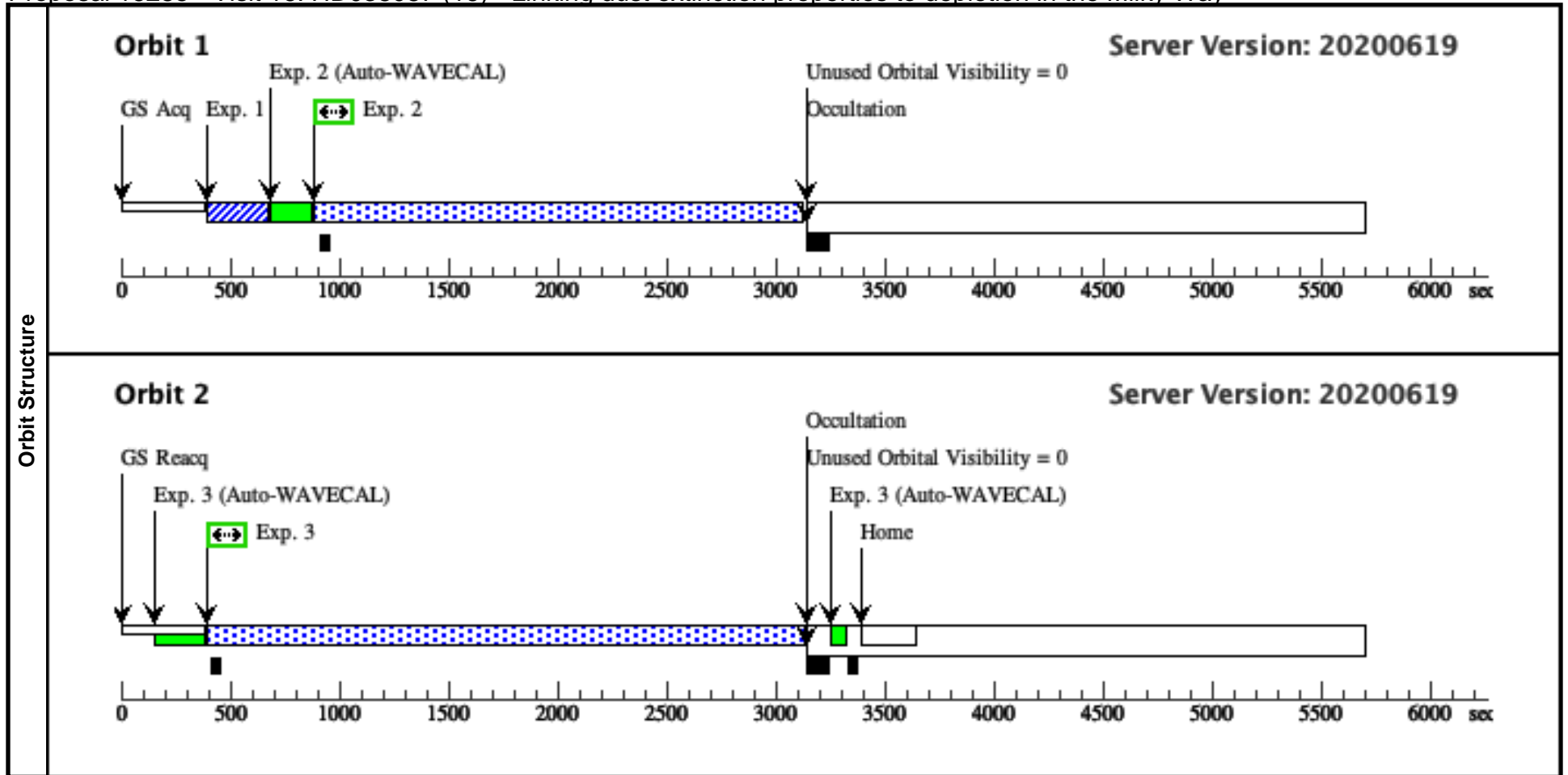
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	TA HD0379 03 (1450787)	(15) HD-37903	STIS/CCD, ACQ, F28X500III	MIRROR				0.5 Secs (0.5 Secs) [==>]	[1]
2	E230H HD0 37903 (1450006)	(15) HD-37903	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230H 2263 A				1752 Secs (2249 Secs) [==>2249.0 Secs]	[1]
<i>Comments: Reported BOT health/safety object seems to be the target object itself. We verified that the brightness limits are not reached with the ETC (ID: 1450006). In the ETC, we used the Kurucz spectral model normalized to the UV flux at 2325A, retrieved from the IUE spectrum of this object (Data ID: lwr07025).</i>									



Proposal 16285 - Visit 16: HD038087 (16) - Linking dust extinction properties to depletion in the Milky Way

Tue Jun 22 21:00:35 GMT 2021

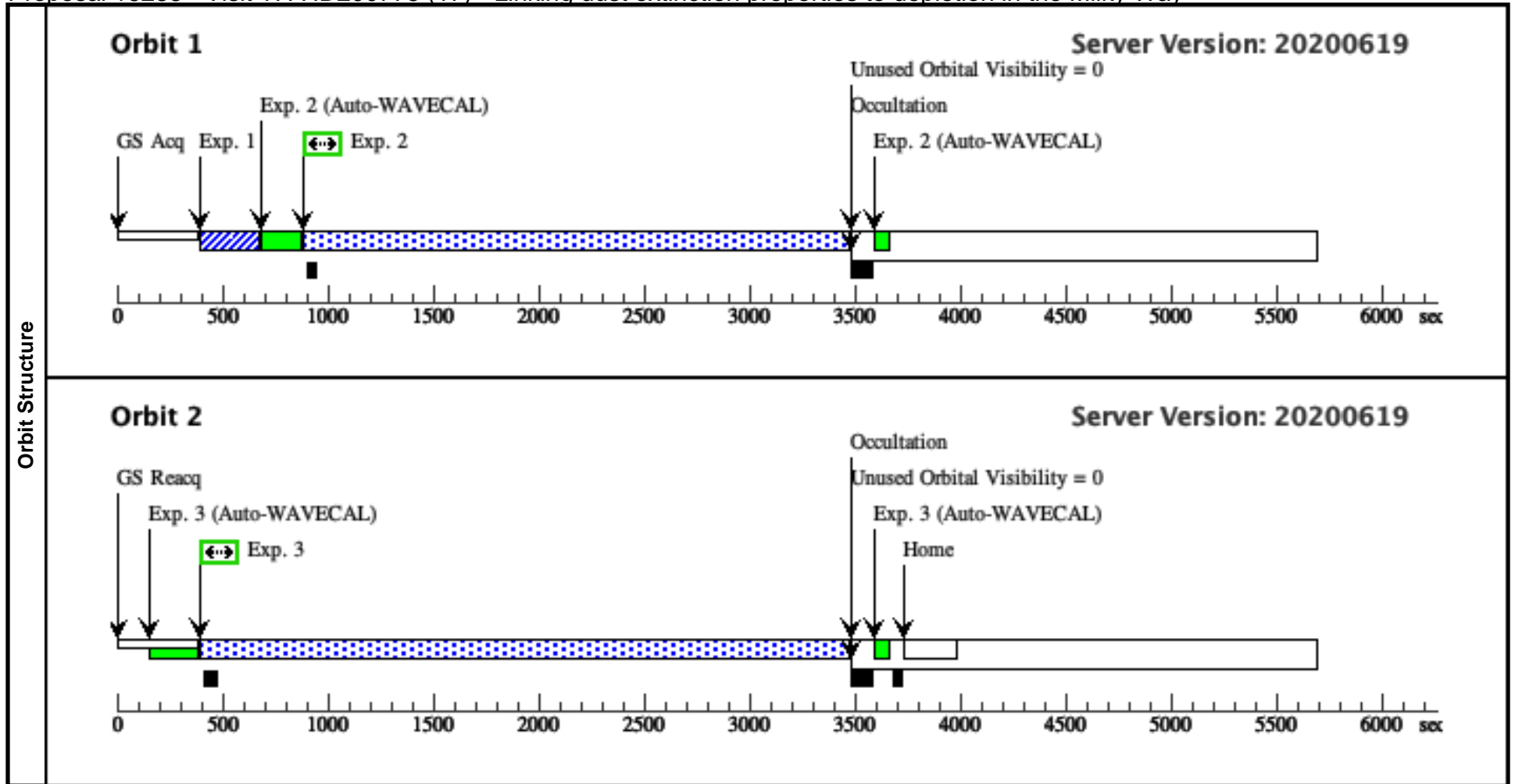
Visit	Proposal 16285, Visit 16: HD038087 (16), completed Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: (none) <i>Comments: STIS observations of HD038087</i>									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(16)	HD-38087	RA: 05 43 0.5743 (85.7523929d) Dec: -02 18 45.43 (-2.31262d) Equinox: J2000	Proper Motion RA: -5.237599187580766E-5 sec of time/yr Proper Motion Dec: -0.00246200008859887 arcsec/yr Epoch of Position: 2015.5	V=8.29	Reference Frame: ICRS			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[B3-B5 III-I] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA HD038087 (1450788)	(16) HD-38087	STIS/CCD, ACQ, F28X500III	MIRROR				2 Secs (2 Secs) [==>]	[1]
	2	E140H HD038087 (1450065)	(16) HD-38087	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140H 1307 A				315 Secs (2223 Secs) [==>2223.0 Secs]	[1]
	3	E230H HD038087 (1450010)	(16) HD-38087	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230H 2263 A				2398 Secs (2720 Secs) [==>2720.0 Secs]	[2]



Proposal 16285 - Visit 17: HD200775 (17) - Linking dust extinction properties to depletion in the Milky Way

Tue Jun 22 21:00:36 GMT 2021

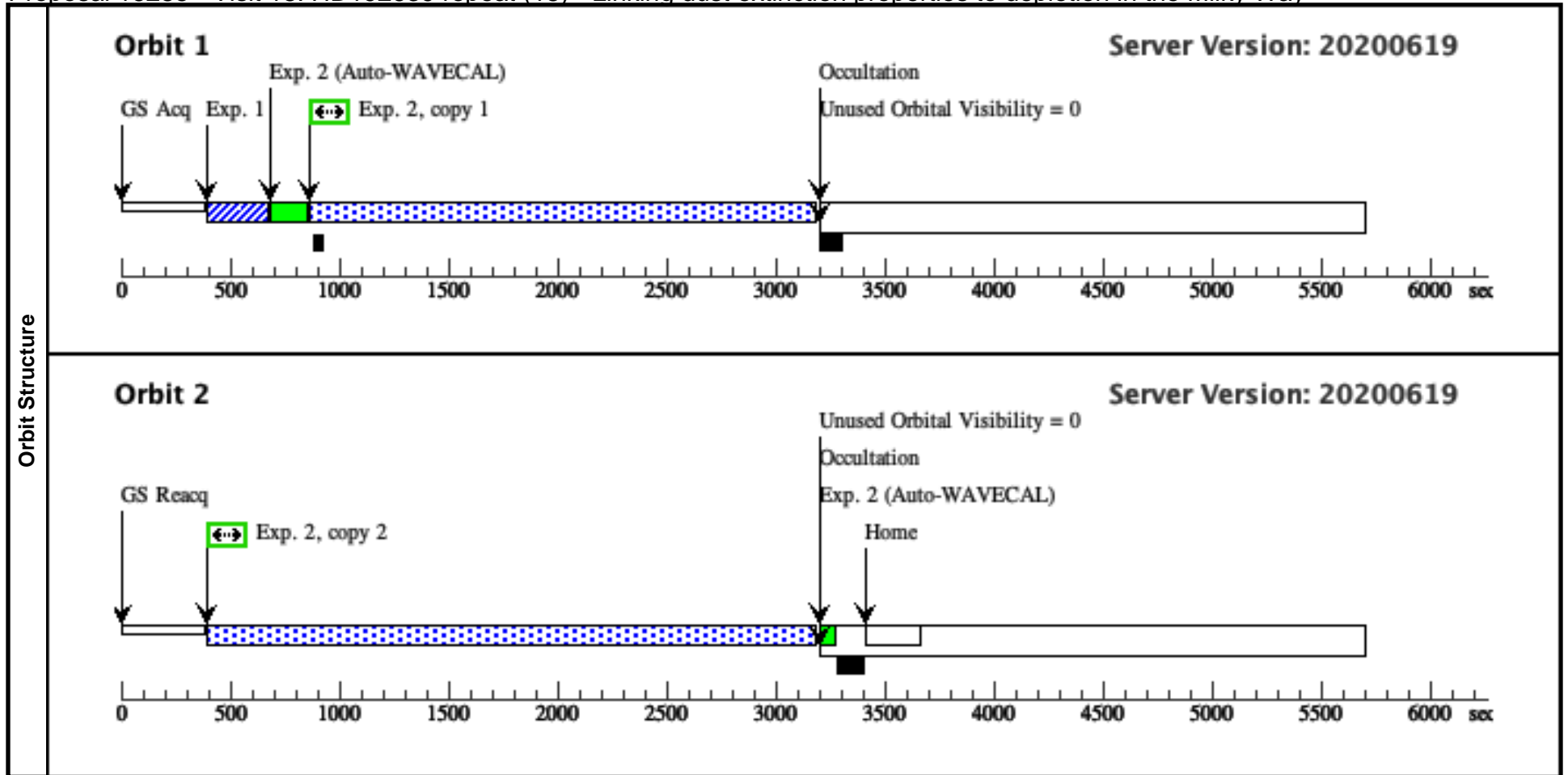
Visit	Proposal 16285, Visit 17: HD200775 (17), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD, STIS/FUV-MAMA Special Requirements: (none) Comments: STIS observations of HD200775									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
		(17)	HD-200775	RA: 21 01 36.9416 (315.4039233d) Dec: +68 09 47.75 (68.16326d) Equinox: J2000	Proper Motion RA: 0.001494055043315708 sec of time/yr Proper Motion Dec: - 0.0015660000144634978 arcsec/yr Epoch of Position: 2015.5	V=7.427	Reference Frame: ICRS			
	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=STAR Description=[B0-B2 V-IV, HERBIG AE/BE] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA HD2007 75 (1450789)	(17) HD-200775	STIS/CCD, ACQ, F28X50OIII	MIRROR				1 Secs (1 Secs) [==>]	[1]
	2	E140H HD2 00775 (1450066)	(17) HD-200775	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140H 1307 A				737 Secs (2571 Secs) [==>2571.0 Secs]	[1]
	3	E230H HD2 00775 (1450011)	(17) HD-200775	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230H 2263 A				2960 Secs (3064 Secs) [==>3064.0 Secs]	[2]



Proposal 16285 - Visit 18: HD192639 repeat (18) - Linking dust extinction properties to depletion in the Milky Way

Tue Jun 22 21:00:36 GMT 2021

Visit	Proposal 16285, Visit 18: HD192639 repeat (18), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: STIS/NUV-MAMA, STIS/CCD Special Requirements: (none) <i>Comments: STIS observations of HD192639</i>									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(7)	HD-192639	RA: 20 14 30.4223 (303.6267596d) Dec: +37 21 13.80 (37.35383d) Equinox: J2000	Proper Motion RA: -3.363929274111738E-4 sec of time/yr Proper Motion Dec: -7.479999339921051E-4 arcsec/yr Epoch of Position: 2015.5		V=7.11	Reference Frame: ICRS			
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i> Category=STAR Description=[SUPERGIANT O] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA HD192639 (1450779)	(7) HD-192639	STIS/CCD, ACQ, F28X50OIII	MIRROR				1 Secs (1 Secs) [==>]	[1]
	2	E230H HD192639 (1449992)	(7) HD-192639	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230H 2263 A				2119 Secs X 2 (5083 Secs) [==>2305.0 Secs (Copy 1)] [==>2778.0 Secs (Copy 2)]	[1] [2]



Proposal 16285 - Visit 3 Repeat: HD206267 (19) - Linking dust extinction properties to depletion in the Milky Way

Tue Jun 22 21:00:36 GMT 2021

Visit	Proposal 16285, Visit 3 Repeat: HD206267 (19)				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: STIS/NUV-MAMA, STIS/CCD				
	Special Requirements: (none)				
<i>Comments: STIS observations of HD206267</i>					

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(3)	HD-206267	RA: 21 38 57.6126 (324.7400525d) Dec: +57 29 20.47 (57.48902d) Equinox: J2000	Proper Motion RA: -3.6666209945109126E-4 sec of time/yr Proper Motion Dec: -0.005764000093222421 arcsec/yr Epoch of Position: 2015.5	V=5.62	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>						
Category=STAR Description=[MAIN SEQUENCE O] Extended=NO						

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	TA HD206267 (1450771)	(3) HD-206267	STIS/CCD, ACQ, F28X500III	MIRROR				0.5 Secs (0.5 Secs) [==>]	[1]
	2	E230H HD206267 (1449986)	(3) HD-206267	STIS/NUV-MAMA, ACCUM, 0.2X0.2	E230H 2263 A				433 Secs (2496 Secs) [==>2496.0 Secs]	[1]

