



15887 - The Nature and Origin of Compact High-Velocity Clouds

Cycle: 27, 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) MRK969	COS/FUV COS/NUV	3	12-Oct-2020 17:00:25.0	yes
02	(1) MRK969	COS/FUV COS/NUV	2	12-Oct-2020 17:00:26.0	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>
03	(2) UVQSJ011054-154540	COS/FUV COS/NUV	4	12-Oct-2020 17:00:27.0	yes
04	(2) UVQSJ011054-154540	COS/FUV COS/NUV	4	12-Oct-2020 17:00:28.0	yes
54	(2) UVQSJ011054-154540	COS/FUV COS/NUV	4	12-Oct-2020 17:00:29.0	yes
05	(3) IRAS04596-2257	COS/FUV COS/NUV	3	12-Oct-2020 17:00:30.0	yes
06	(3) IRAS04596-2257	COS/FUV COS/NUV	3	12-Oct-2020 17:00:31.0	yes
07	(4) HE0027-3118	COS/FUV COS/NUV	4	12-Oct-2020 17:00:32.0	yes
08	(4) HE0027-3118	COS/FUV COS/NUV	3	12-Oct-2020 17:00:33.0	yes
09	(5) CTS47	COS/FUV COS/NUV	4	12-Oct-2020 17:00:34.0	yes
59	(5) CTS47	COS/FUV COS/NUV	1	12-Oct-2020 17:00:34.0	yes
10	(5) CTS47	COS/FUV COS/NUV	3	12-Oct-2020 17:00:35.0	yes

38 Total Orbits Used

ABSTRACT

Galaxy evolution is driven by the exchange of gas between disks and the surrounding circumgalactic medium. The physics governing this exchange depends on small-scale structure in the gas. This structure can be studied in detail in the Milky Way halo, which hosts a population of ~ 200 poorly understood compact high-velocity clouds (CHVCs) each spanning less than two degrees on the sky. Almost everything we know about CHVCs comes from 21 cm radio observations. To broaden our understanding and fully characterize their properties, we propose a UV absorption-line survey. We have selected a sample of 5 CHVCs from the Galactic All Sky Survey (GASS) and identified a UV-bright AGN that lies directly behind each

Proposal 15887 (STScI Edit Number: 2, Created: Monday, October 12, 2020 at 4:00:36 PM Eastern Standard Time) - Overview
cloud. Using HST/COS observations we will study the CHVCs in absorption in a wide range of UV metal lines, allowing us to probe their metallicity, ionization level, dust content, and kinematics. Together, these measurements will provide key new constraints on the origin of CHVCs, allowing us to discriminate between extragalactic origins (low metallicities and simple kinematics), Galactic origins (high metallicities and complex kinematics) and Magellanic origins (intermediate metallicity). Finally, this proposal will establish empirical constraints on MW halo gas at cloud scales that are just being reached by state-of-the-art hydrodynamical simulations of the circumgalactic medium.

We also request Green Bank Telescope 21 cm pointings in each AGN direction under the joint HST/NRAO category to obtain the reference H I column densities at high spatial resolution and sensitivity.

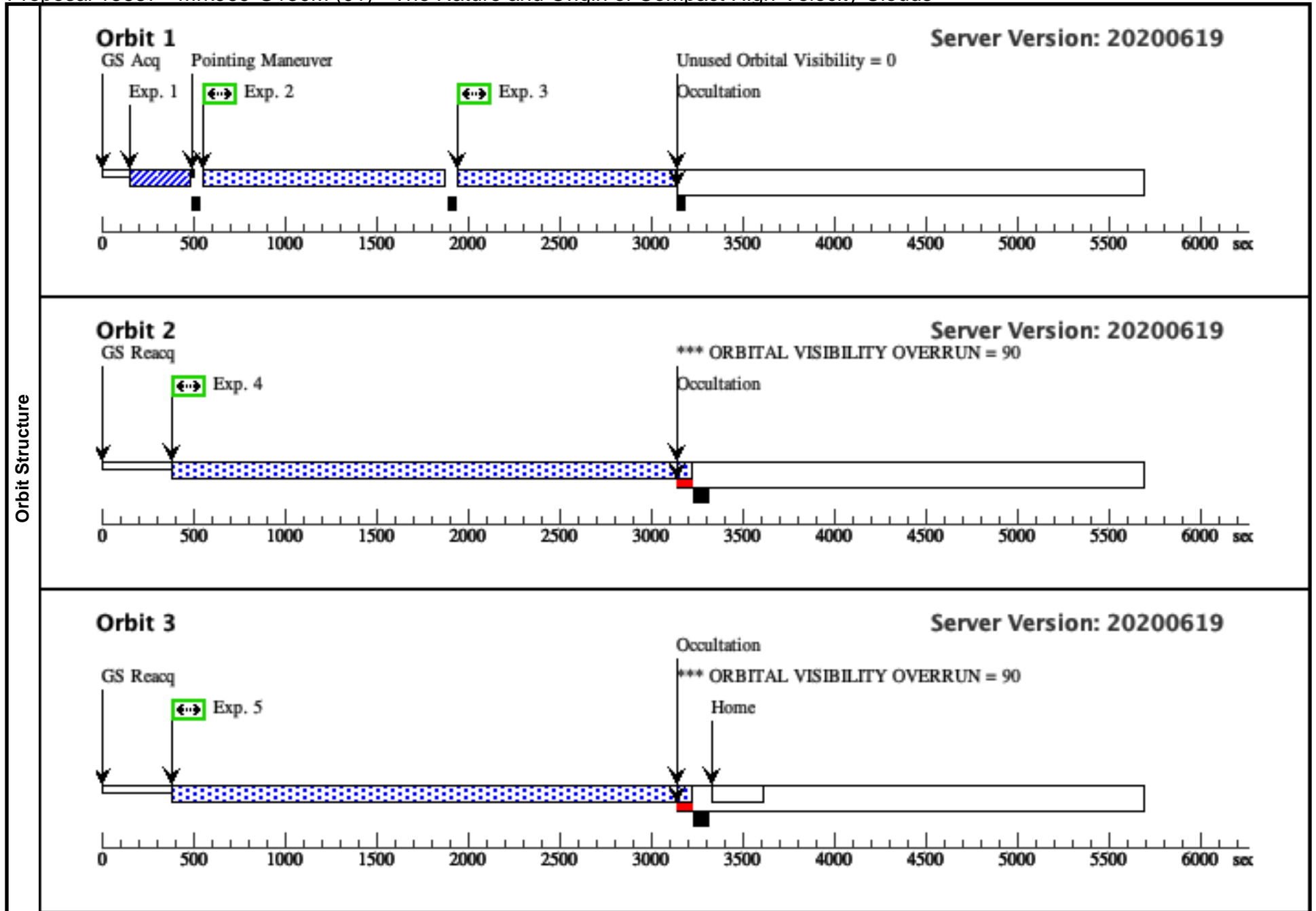
OBSERVING DESCRIPTION

This is a straightforward COS/FUV program to observe 5 AGN with the G130M/1222 and G160M/1533 settings, in order to study Milky Way halo clouds in absorption. Each target will be observed with an NUV ACQ/IMAGE (all with MIRRORB) followed by the TIME-TAG science exposures. We use all four FP-POS positions per cenwave and one grating per visit. The visits are between 2 and 4 orbits long. For Visits 03 and 04 (target UVQJSJ011054-154540), a 2x2 ACQ/SEARCH is included before the ACQ/IMAGE since the coordinates are less well known than for the other four targets.

Proposal 15887 - Mrk969-G130M (01) - The Nature and Origin of Compact High-Velocity Clouds

Mon Oct 12 21:00:36 GMT 2020

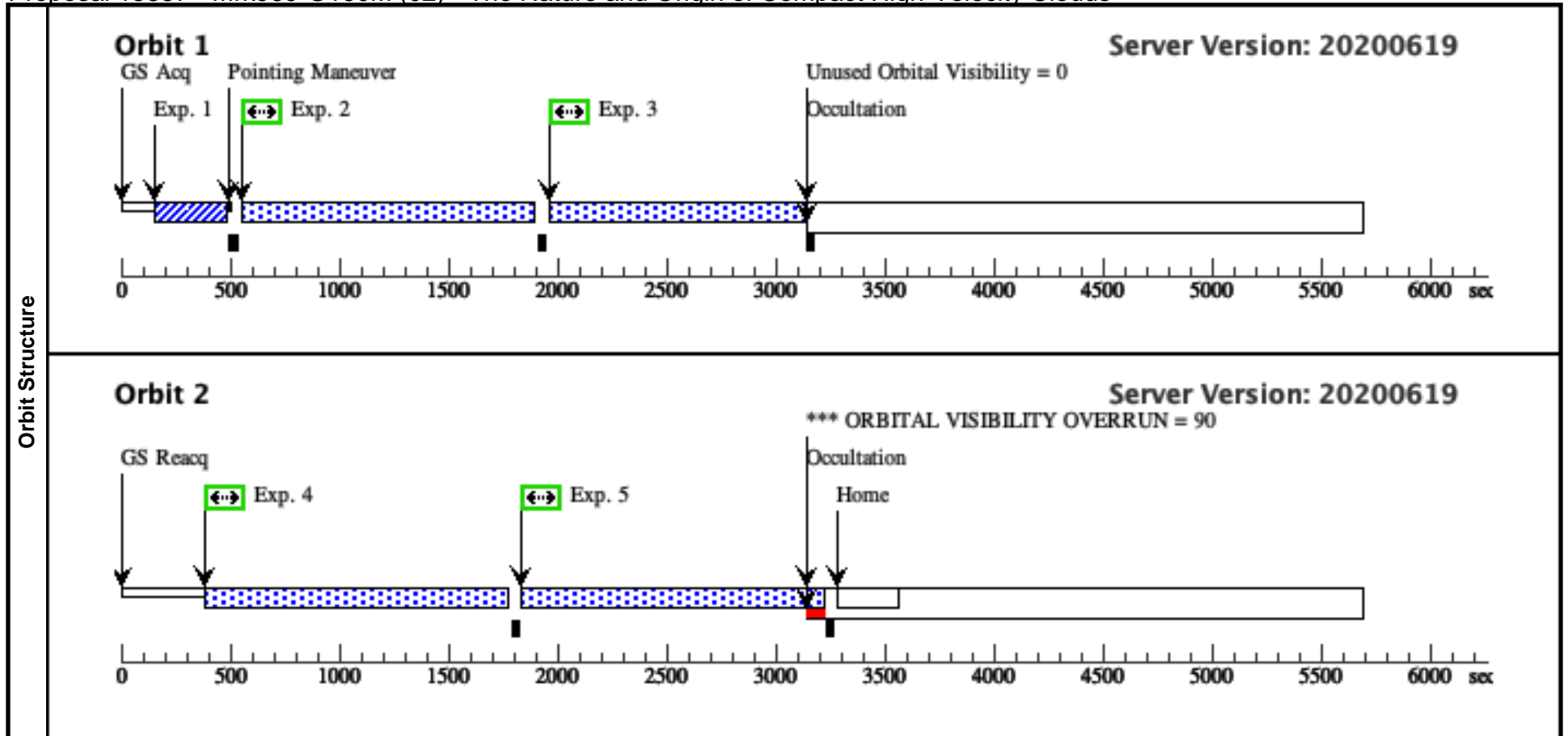
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	(Mrk969-G130M (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Mrk969-G130M (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	MRK969	RA: 01 02 40.2490 (15.6677042d) Dec: -12 50 57.45 (-12.84929d) Equinox: J2000		V=15.0 GALEX FUV=16.88 NUV=16.5 9	Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=ISM Description=[ABSORPTION LINE SYSTEM - GALACTIC, CORONAL GAS, HIGH VELOCITY CLOUD] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IMAG E (1367238)	(1) MRK969	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				16 Secs (16 Secs) [==>]	[1]
	Comments: The TA exposure time is slightly longer than the ETC predicts to allow for the possibility that the target is slightly extended.									
	2	G130M/FP-POS1 (1324263)	(1) MRK969	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=38 72			1138 Secs (1138 Secs) [==>]	[1]
	3	G130M/FP-POS2 (1324263)	(1) MRK969	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=38 72			1135 Secs (1135 Secs) [==>]	[1]
	4	G130M/FP-POS3 (1324263)	(1) MRK969	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=38 72			2783 Secs (2783 Secs) [==>]	[2]
5	G130M/FP-POS4 (1324263)	(1) MRK969	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=38 72			2783 Secs (2783 Secs) [==>]	[3]	



Proposal 15887 - Mrk969-G160M (02) - The Nature and Origin of Compact High-Velocity Clouds

Mon Oct 12 21:00:36 GMT 2020

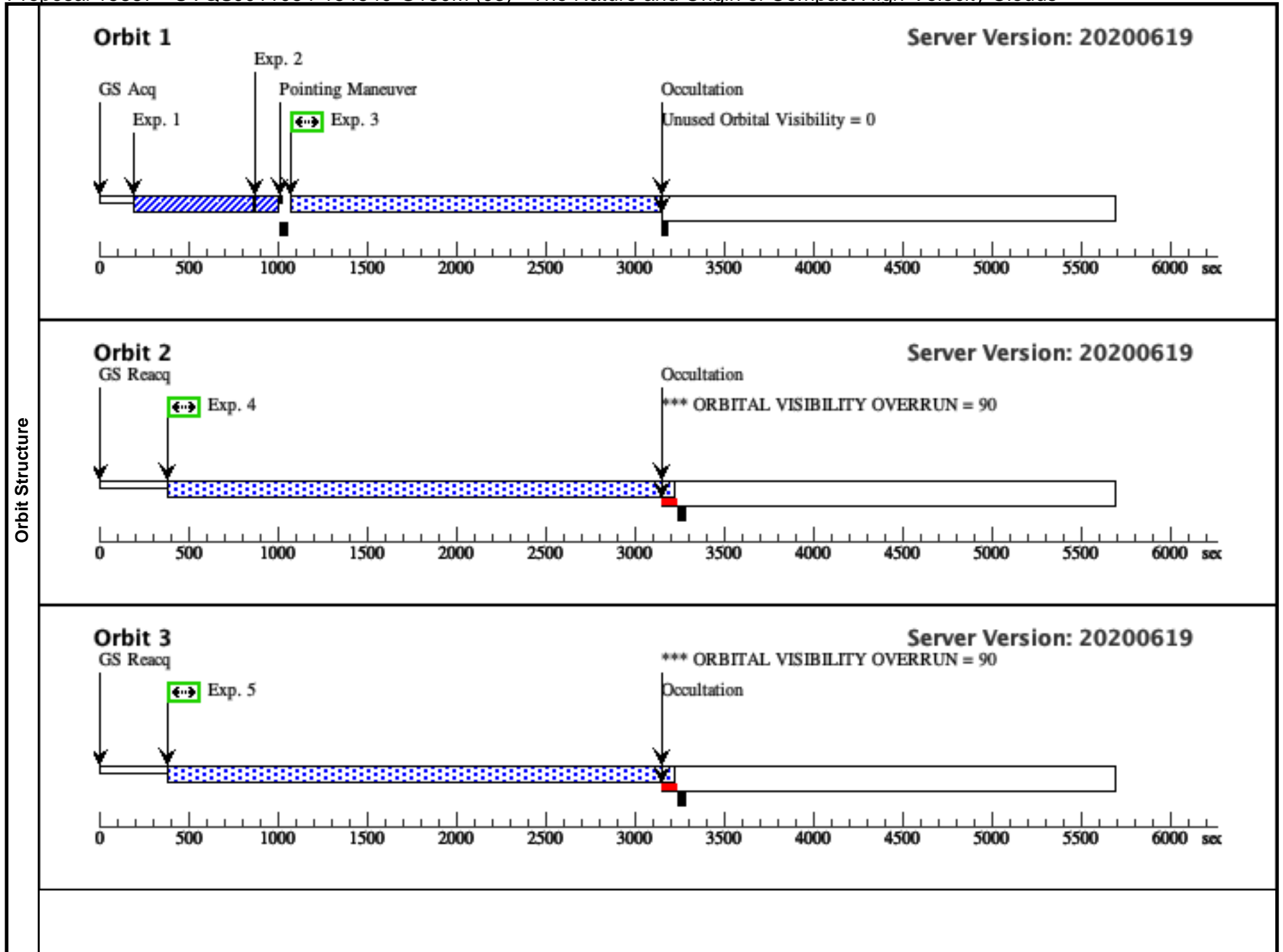
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(1)	MRK969	RA: 01 02 40.2490 (15.6677042d) Dec: -12 50 57.45 (-12.84929d) Equinox: J2000		V=15.0 GALEX FUV=16.88 NUV=16.5 9	Reference Frame: ICRS					
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=ISM Description=[ABSORPTION LINE SYSTEM - GALACTIC, CORONAL GAS, HIGH VELOCITY CLOUD] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	ACQ/IMAG E (1367238)	(1) MRK969	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				16 Secs (16 Secs) [==>]	[1]	
	Comments: The TA exposure time is slightly longer than the ETC predicts to allow for the possibility that the target is slightly extended.										
	2	G160M/FP-POS1 (1324307)	(1) MRK969	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=1; BUFFER-TIME=60 64				1122 Secs (1122 Secs) [==>]	[1]
	3	G160M/FP-POS2 (1324307)	(1) MRK969	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=2; BUFFER-TIME=60 64				1122 Secs (1122 Secs) [==>]	[1]
	4	G160M/FP-POS3 (1324307)	(1) MRK969	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3; BUFFER-TIME=60 64				1334 Secs (1334 Secs) [==>]	[2]
5	G160M/FP-POS4 (1324307)	(1) MRK969	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=4; BUFFER-TIME=60 64				1334 Secs (1334 Secs) [==>]	[2]	

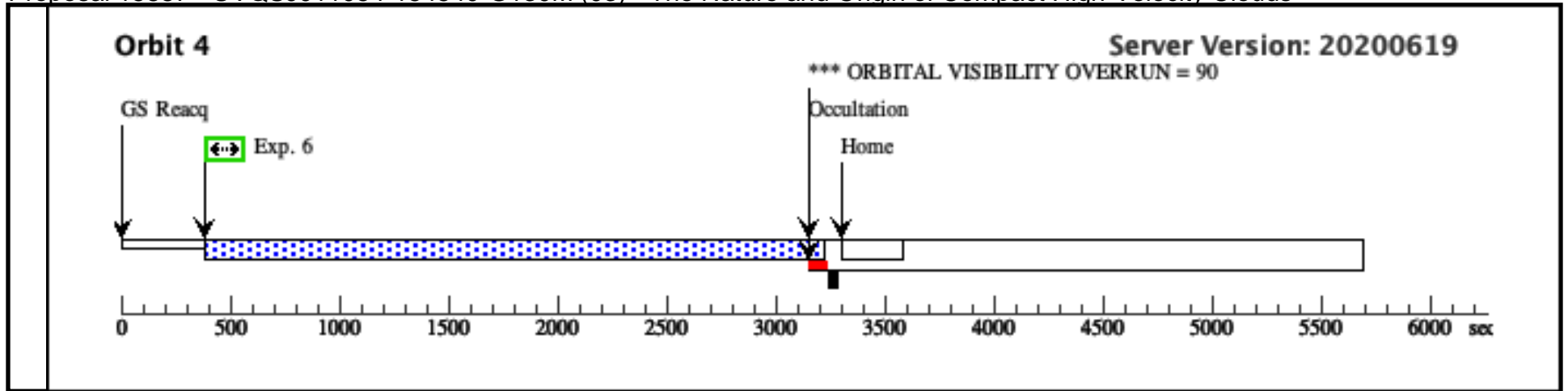


Proposal 15887 - UVQJ011054-154540-G130M (03) - The Nature and Origin of Compact High-Velocity Clouds

Mon Oct 12 21:00:36 GMT 2020

Visit	Proposal 15887, UVQJ011054-154540-G130M (03), scheduling Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
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Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	UVQJ011054-154540	RA: 01 10 54.9900 (17.7291250d) Dec: -15 45 40.10 (-15.76114d) Equinox: J2000		V=15.0 GALEX FUV=17.94 NUV=17.3 8	Reference Frame: ICRS				
Comments: Category=ISM Description=[ABSORPTION LINE SYSTEM - GALACTIC, CORONAL GAS, HIGH VELOCITY CLOUD] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/SEAR CH (1382705)	(2) UVQJ011054-1 54540	COS/NUV, ACQ/SEARCH, PSA	MIRRORB 1222 A	STEP-SIZE=1.767; SCAN-SIZE=2; CENTER=FLUX-W T			80 Secs (80 Secs) [==>]	[1]
	2	ACQ/IMAG E (1367262)	(2) UVQJ011054-1 54540	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				17 Secs (17 Secs) [==>]	[1]
	3	G130M/FP- POS1 (1324274)	(2) UVQJ011054-1 54540	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=99 41			1887 Secs (1887 Secs) [==>]	[1]
	4	G130M/FP- POS2 (1324274)	(2) UVQJ011054-1 54540	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=99 41			2790 Secs (2790 Secs) [==>]	[2]
	5	G130M/FP- POS3 (1324274)	(2) UVQJ011054-1 54540	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=99 41			2790 Secs (2790 Secs) [==>]	[3]
	6	G130M/FP- POS4 (1324274)	(2) UVQJ011054-1 54540	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=99 41			2790 Secs (2790 Secs) [==>]	[4]

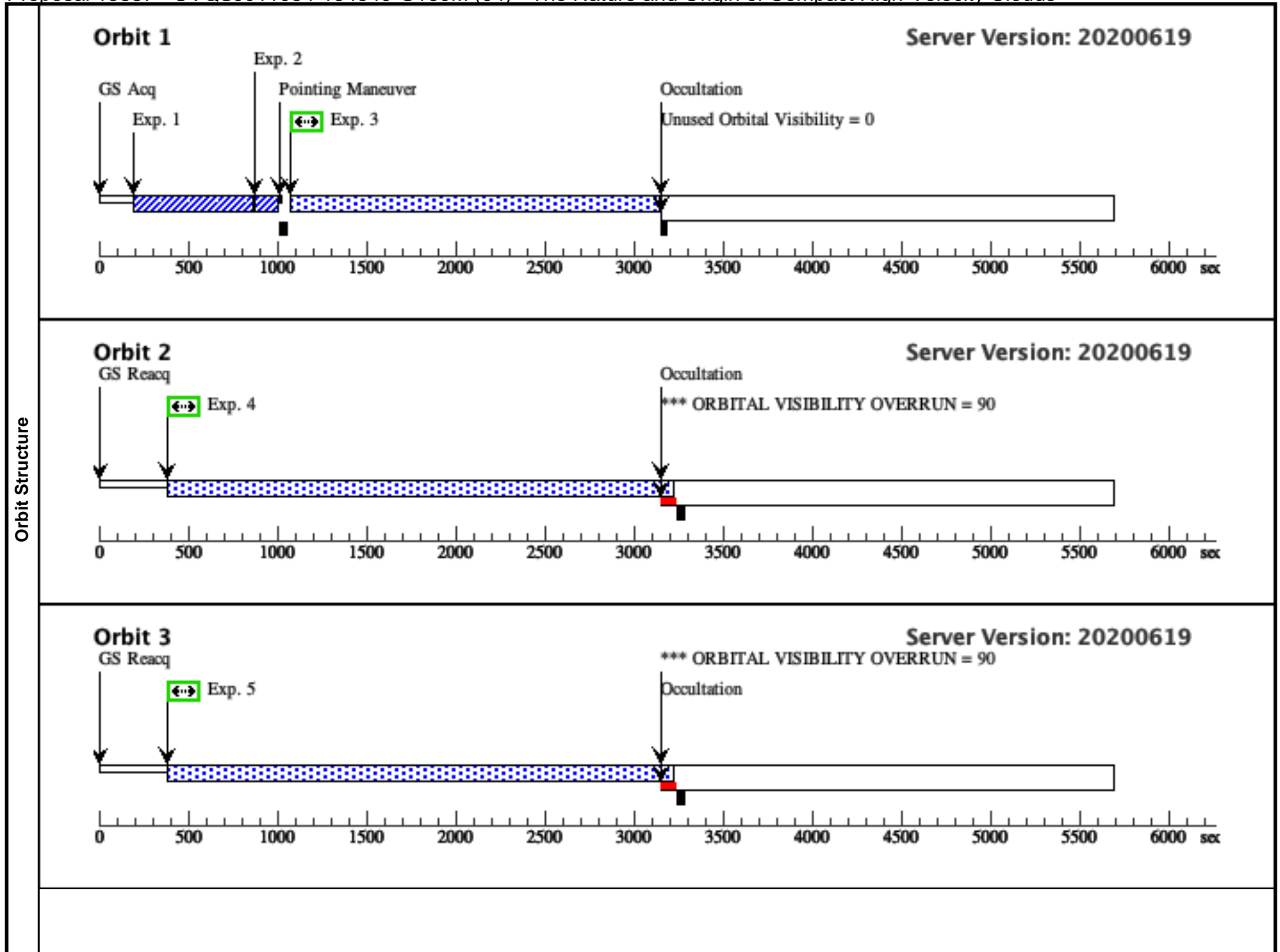


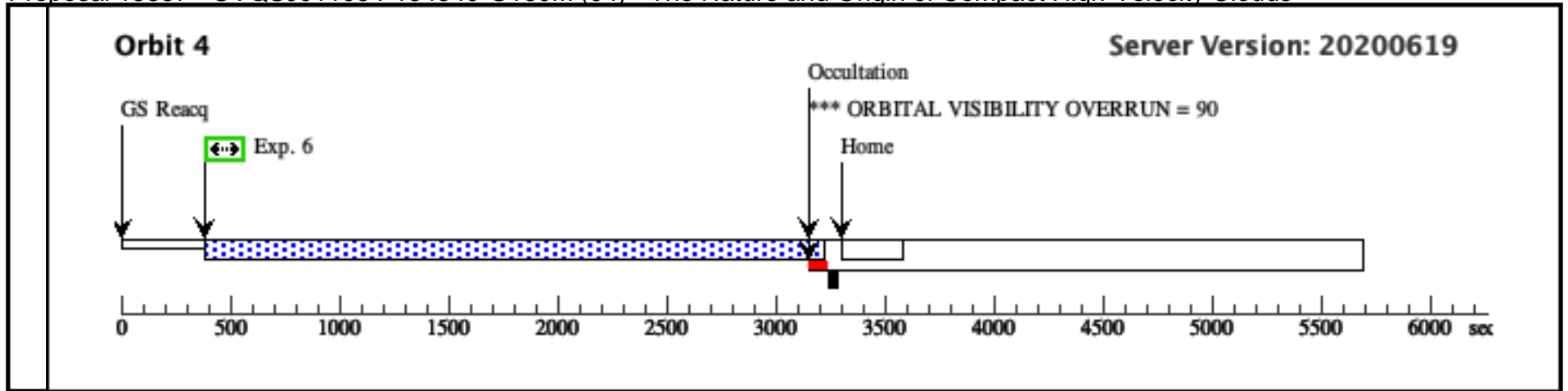


Proposal 15887 - UVQJ011054-154540-G160M (04) - The Nature and Origin of Compact High-Velocity Clouds

Mon Oct 12 21:00:36 GMT 2020

Visit	Proposal 15887, UVQJ011054-154540-G160M (04), failed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																															
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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>(2)</td> <td>UVQJ011054-154540</td> <td>RA: 01 10 54.9900 (17.7291250d) Dec: -15 45 40.10 (-15.76114d) Equinox: J2000</td> <td></td> <td>V=15.0 GALEX FUV=17.94 NUV=17.3 8</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments:</i> <i>Category=ISM</i> <i>Description=[ABSORPTION LINE SYSTEM - GALACTIC, CORONAL GAS, HIGH VELOCITY CLOUD]</i> <i>Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	UVQJ011054-154540	RA: 01 10 54.9900 (17.7291250d) Dec: -15 45 40.10 (-15.76114d) Equinox: J2000		V=15.0 GALEX FUV=17.94 NUV=17.3 8	Reference Frame: ICRS																																																									
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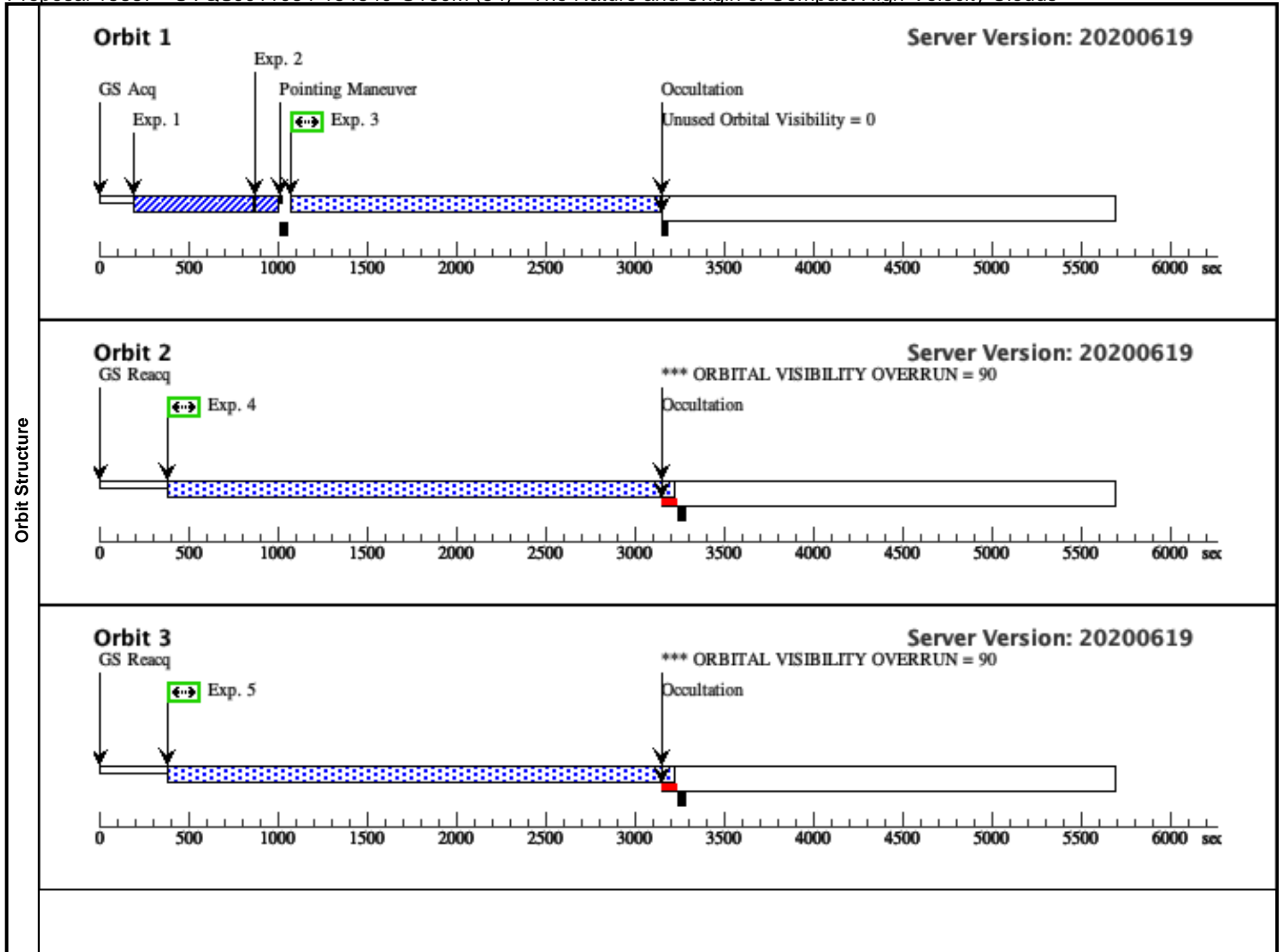


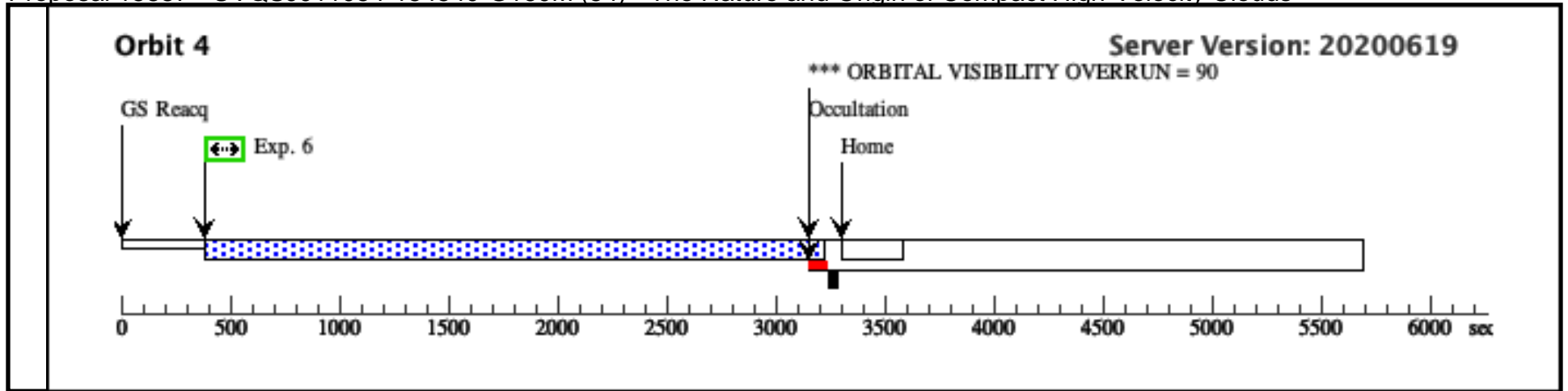


Proposal 15887 - UVQJ011054-154540-G160M (54) - The Nature and Origin of Compact High-Velocity Clouds

Mon Oct 12 21:00:36 GMT 2020

Visit	Proposal 15887, UVQJ011054-154540-G160M (54), scheduling Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																														
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(2)	UVQJ011054-154540	RA: 01 10 54.9900 (17.7291250d) Dec: -15 45 40.10 (-15.76114d) Equinox: J2000		V=15.0 GALEX FUV=17.94 NUV=17.3 8	Reference Frame: ICRS																																																																										
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#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																																						
1	ACQ/SEAR CH (1382705)	(2) UVQJ011054-1 54540	COS/NUV, ACQ/SEARCH, PSA	MIRRORB	STEP-SIZE=1.767; SCAN-SIZE=2; CENTER=FLUX-W T			80 Secs (80 Secs) [==>]	[1]																																																																						
2	ACQ/IMAG E (1367262)	(2) UVQJ011054-1 54540	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				17 Secs (17 Secs) [==>]	[1]																																																																						
3	G160M/FP- POS1 (1324310)	(2) UVQJ011054-1 54540	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=1; BUFFER-TIME=11 843			1849 Secs (1849 Secs) [==>]	[1]																																																																						
4	G160M/FP- POS2 (1324310)	(2) UVQJ011054-1 54540	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=2; BUFFER-TIME=11 843			2790 Secs (2790 Secs) [==>]	[2]																																																																						
5	G160M/FP- POS3 (1324310)	(2) UVQJ011054-1 54540	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3; BUFFER-TIME=11 843			2790 Secs (2790 Secs) [==>]	[3]																																																																						
6	G160M/FP- POS4 (1324310)	(2) UVQJ011054-1 54540	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=4; BUFFER-TIME=11 843			2790 Secs (2790 Secs) [==>]	[4]																																																																						

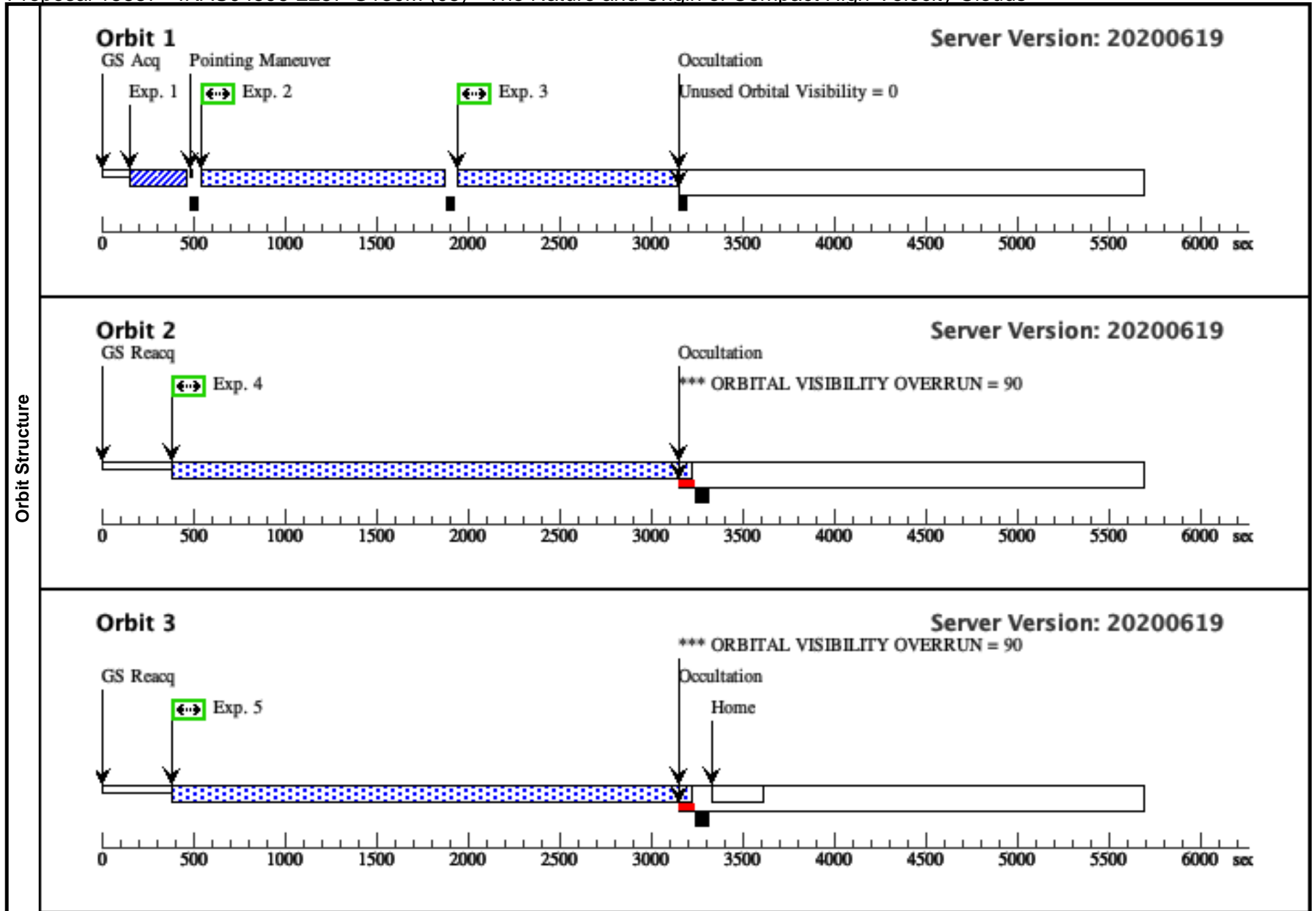




Proposal 15887 - IRAS04596-2257-G130M (05) - The Nature and Origin of Compact High-Velocity Clouds

Mon Oct 12 21:00:36 GMT 2020

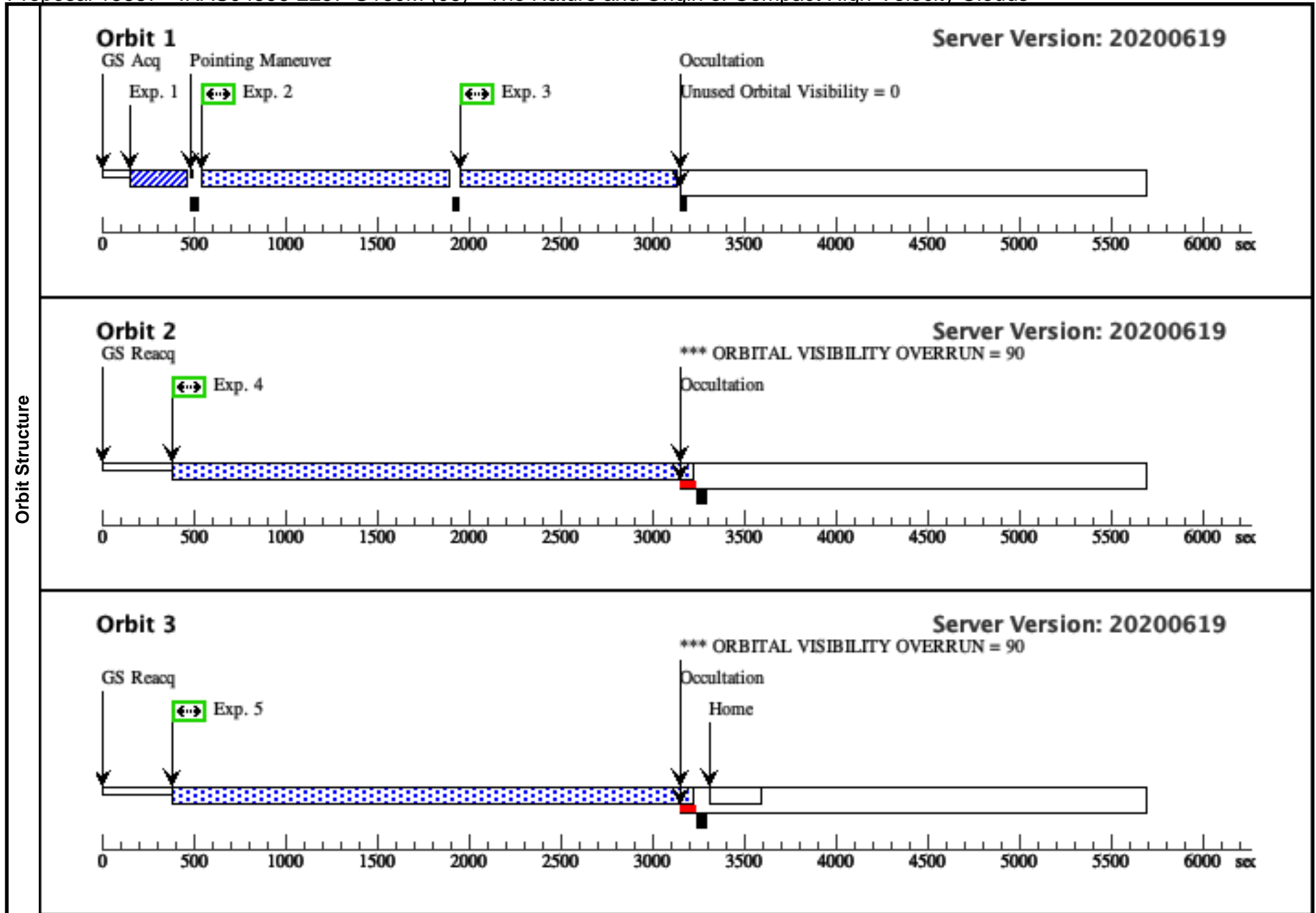
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	(IRAS04596-2257-G130M (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (IRAS04596-2257-G130M (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	IRAS04596-2257	RA: 05 01 48.6170 (75.4525708d) Dec: -22 53 23.10 (-22.88975d) Equinox: J2000		V=15.13 GALEX FUV=17.14 NUV=16.7 6	Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=ISM Description=[ABSORPTION LINE SYSTEM - GALACTIC, CORONAL GAS, HIGH VELOCITY CLOUD] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IMAG E (1367263)	(3) IRAS04596-2257	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				10 Secs (10 Secs) [==>]	[1]
	2	G130M/FP-POS1 (1324276)	(3) IRAS04596-2257	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=42 60			1147 Secs (1147 Secs) [==>]	[1]
	3	G130M/FP-POS2 (1324276)	(3) IRAS04596-2257	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=42 60			1146 Secs (1146 Secs) [==>]	[1]
	4	G130M/FP-POS3 (1324276)	(3) IRAS04596-2257	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=42 60			2791 Secs (2791 Secs) [==>]	[2]
	5	G130M/FP-POS4 (1324276)	(3) IRAS04596-2257	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=42 60			2791 Secs (2791 Secs) [==>]	[3]



Proposal 15887 - IRAS04596-2257-G160M (06) - The Nature and Origin of Compact High-Velocity Clouds

Mon Oct 12 21:00:37 GMT 2020

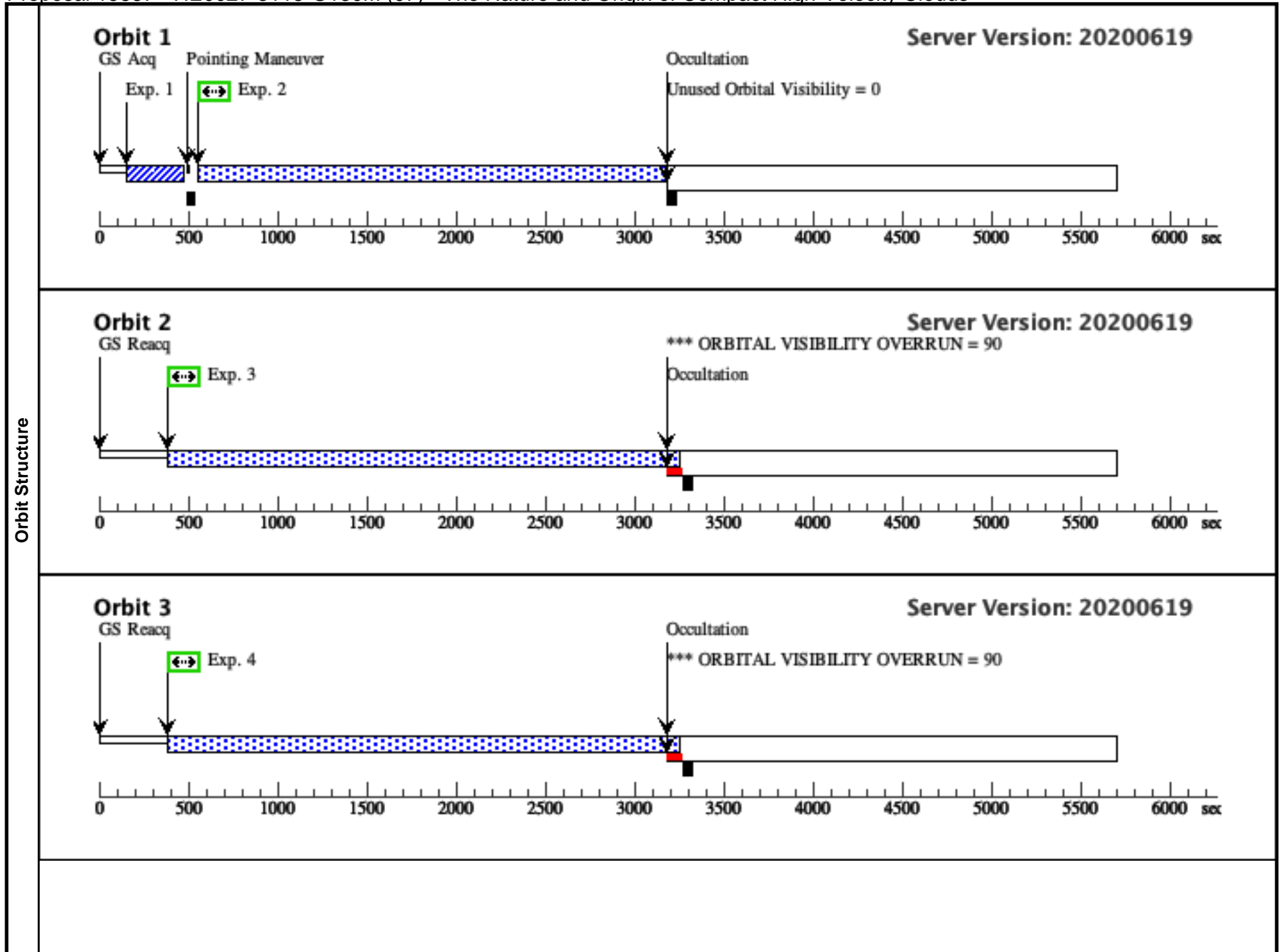
Visit	Proposal 15887, IRAS04596-2257-G160M (06), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
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Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	IRAS04596-2257	RA: 05 01 48.6170 (75.4525708d) Dec: -22 53 23.10 (-22.88975d) Equinox: J2000		V=15.13 GALEX FUV=17.14 NUV=16.7 6	Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=ISM Description=[ABSORPTION LINE SYSTEM - GALACTIC, CORONAL GAS, HIGH VELOCITY CLOUD] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IMAG E (1367263)	(3) IRAS04596-2257	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				10 Secs (10 Secs) [==>]	[1]
	2	G160M/FP-POS1 (1324311)	(3) IRAS04596-2257	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=1; BUFFER-TIME=73 65			1132 Secs (1132 Secs) [==>]	[1]
	3	G160M/FP-POS2 (1324311)	(3) IRAS04596-2257	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=2; BUFFER-TIME=73 65			1132 Secs (1132 Secs) [==>]	[1]
	4	G160M/FP-POS3 (1324311)	(3) IRAS04596-2257	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3; BUFFER-TIME=73 65			2791 Secs (2791 Secs) [==>]	[2]
	5	G160M/FP-POS4 (1324311)	(3) IRAS04596-2257	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=4; BUFFER-TIME=73 65			2791 Secs (2791 Secs) [==>]	[3]

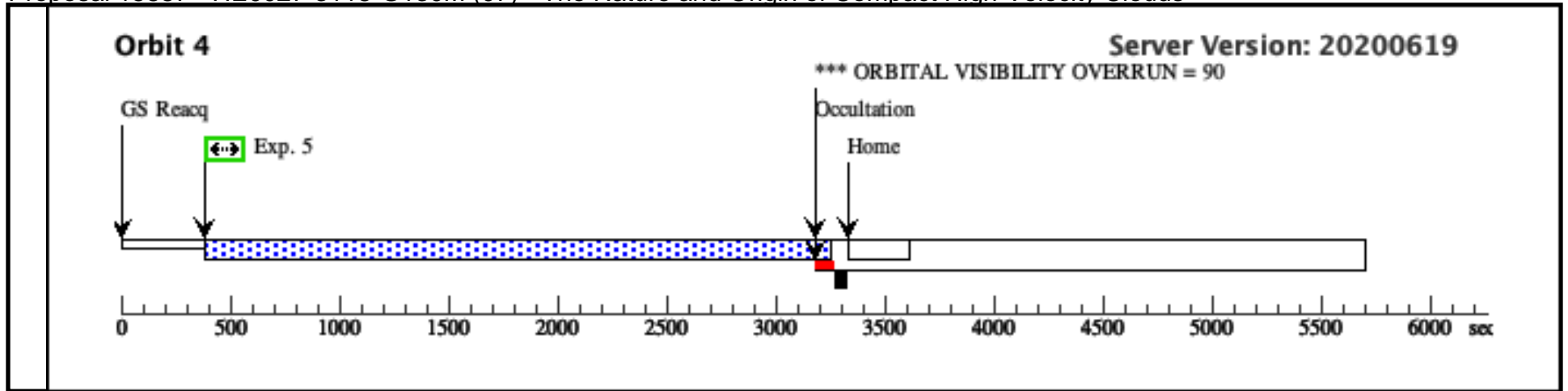


Proposal 15887 - HE0027-3118-G130M (07) - The Nature and Origin of Compact High-Velocity Clouds

Mon Oct 12 21:00:37 GMT 2020

Visit	Proposal 15887, HE0027-3118-G130M (07), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																
	(HE0027-3118-G130M (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (HE0027-3118-G130M (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (HE0027-3118-G130M (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																																
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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>(4)</td> <td>HE0027-3118</td> <td>RA: 00 29 37.3320 (7.4055500d) Dec: -31 02 8.99 (-31.03583d) Equinox: J2000</td> <td></td> <td>V=17.24 GALEX FUV=17.27 NUV=17.19</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(4)	HE0027-3118	RA: 00 29 37.3320 (7.4055500d) Dec: -31 02 8.99 (-31.03583d) Equinox: J2000		V=17.24 GALEX FUV=17.27 NUV=17.19	Reference Frame: ICRS	Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=ISM Description=[ABSORPTION LINE SYSTEM - GALACTIC, CORONAL GAS, HIGH VELOCITY CLOUD] Extended=NO																																																			
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																											
(4)	HE0027-3118	RA: 00 29 37.3320 (7.4055500d) Dec: -31 02 8.99 (-31.03583d) Equinox: J2000		V=17.24 GALEX FUV=17.27 NUV=17.19	Reference Frame: ICRS																																																												
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#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																								
1	ACQ/IMAG E (1367264)	(4) HE0027-3118	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				14 Secs (14 Secs) [==>]	[1]																																																								
2	G130M/FP-POS1 (1324291)	(4) HE0027-3118	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=66 73			2432 Secs (2432 Secs) [==>]	[1]																																																								
3	G130M/FP-POS2 (1324291)	(4) HE0027-3118	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=66 73			2814 Secs (2814 Secs) [==>]	[2]																																																								
4	G130M/FP-POS3 (1324291)	(4) HE0027-3118	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=66 73			2814 Secs (2814 Secs) [==>]	[3]																																																								
5	G130M/FP-POS4 (1324291)	(4) HE0027-3118	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=66 73			2814 Secs (2814 Secs) [==>]	[4]																																																								
Exposures																																																																	

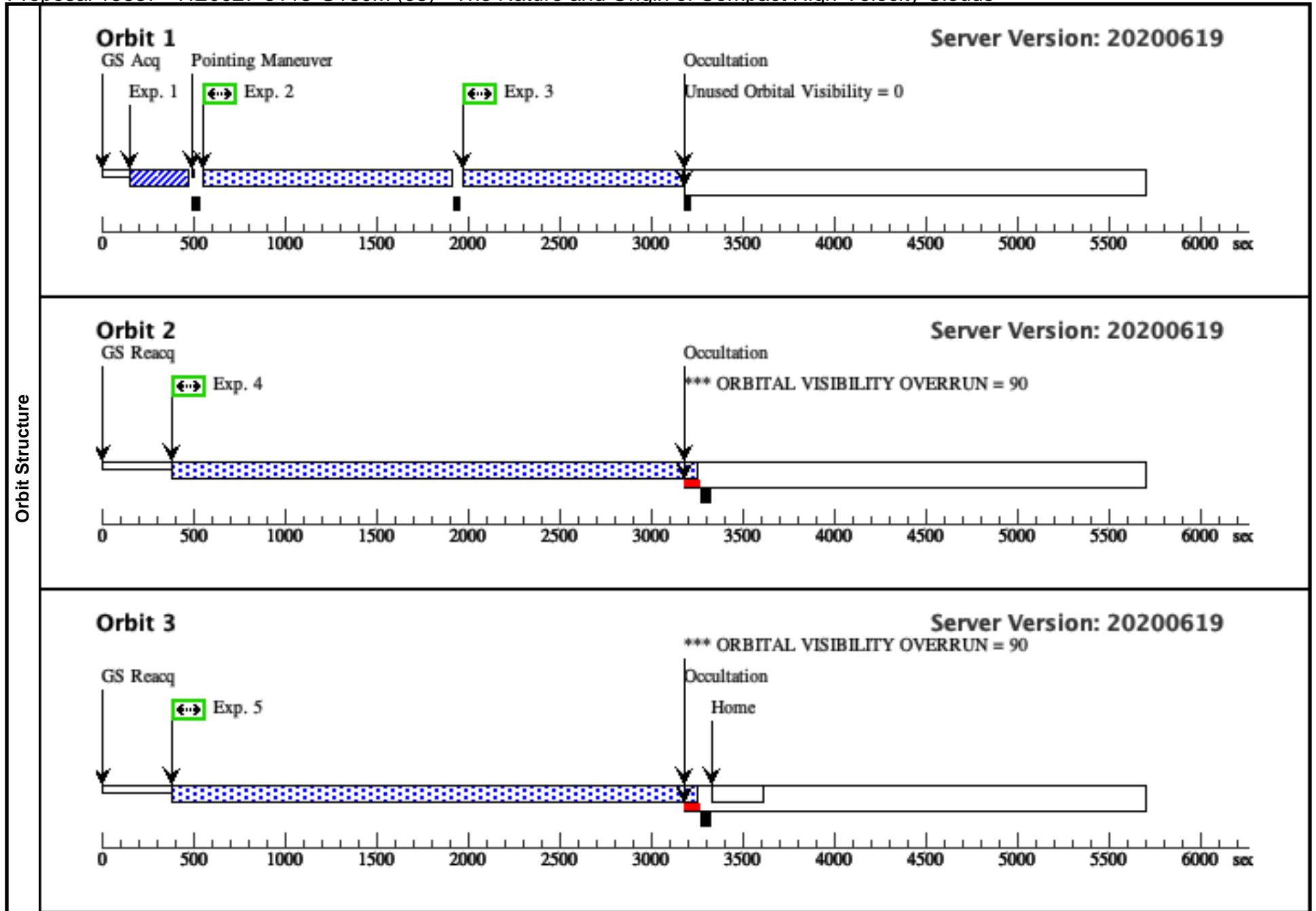




Proposal 15887 - HE0027-3118-G160M (08) - The Nature and Origin of Compact High-Velocity Clouds

Mon Oct 12 21:00:37 GMT 2020

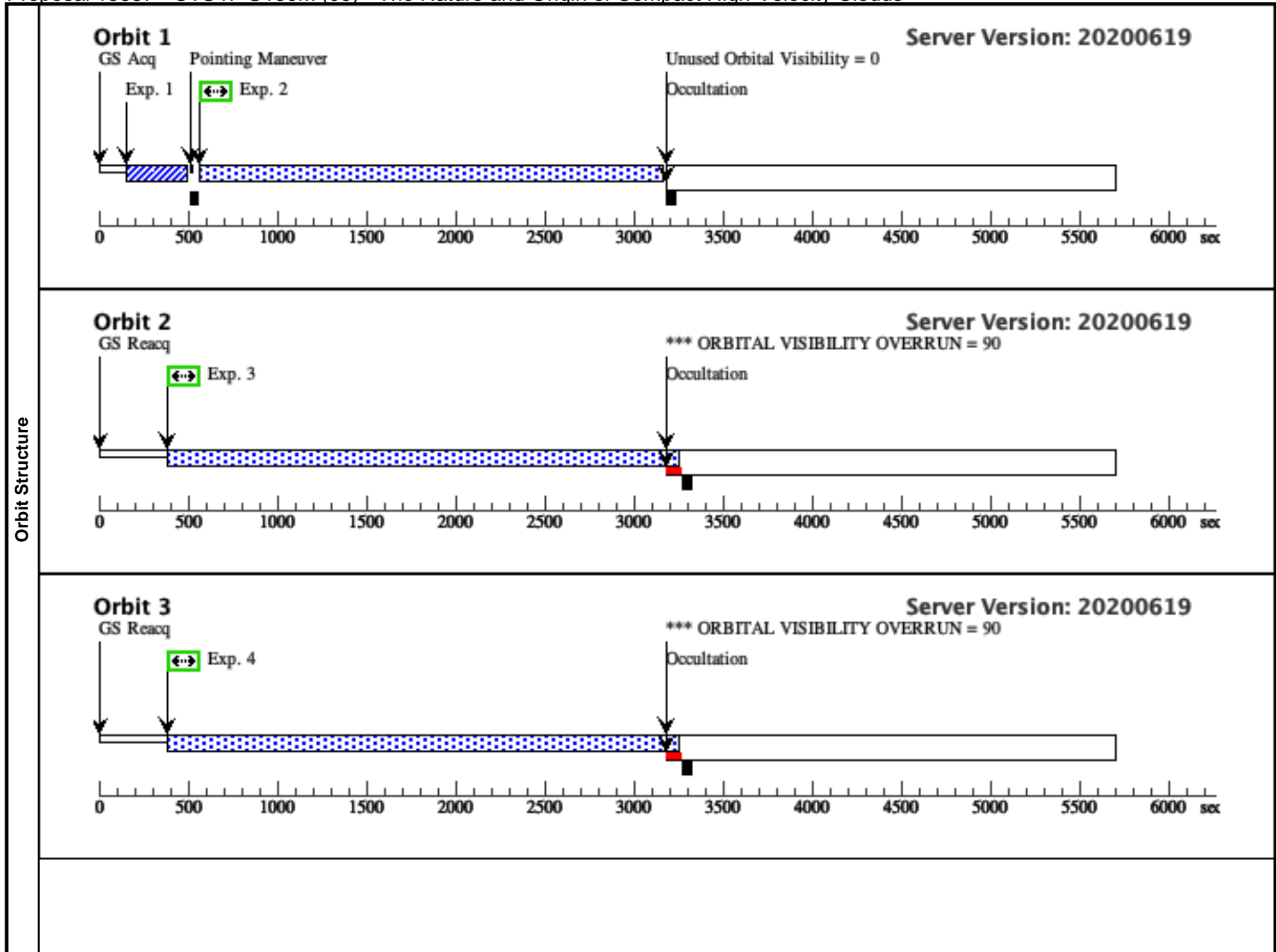
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Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	HE0027-3118	RA: 00 29 37.3320 (7.4055500d) Dec: -31 02 8.99 (-31.03583d) Equinox: J2000		V=17.24 GALEX FUV=17.27 NUV=17.1 9	Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=ISM Description=[ABSORPTION LINE SYSTEM - GALACTIC, CORONAL GAS, HIGH VELOCITY CLOUD] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IMAG E (1367264)	(4) HE0027-3118	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				14 Secs (14 Secs) [==>]	[1]
	2	G160M/FP-POS1 (1324316)	(4) HE0027-3118	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=1; BUFFER-TIME=63 57			1136 Secs (1136 Secs) [==>]	[1]
	3	G160M/FP-POS2 (1324316)	(4) HE0027-3118	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=2; BUFFER-TIME=63 57			1143 Secs (1143 Secs) [==>]	[1]
	4	G160M/FP-POS3 (1324316)	(4) HE0027-3118	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3; BUFFER-TIME=63 57			2814 Secs (2814 Secs) [==>]	[2]
	5	G160M/FP-POS4 (1324316)	(4) HE0027-3118	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=4; BUFFER-TIME=63 57			2814 Secs (2814 Secs) [==>]	[3]

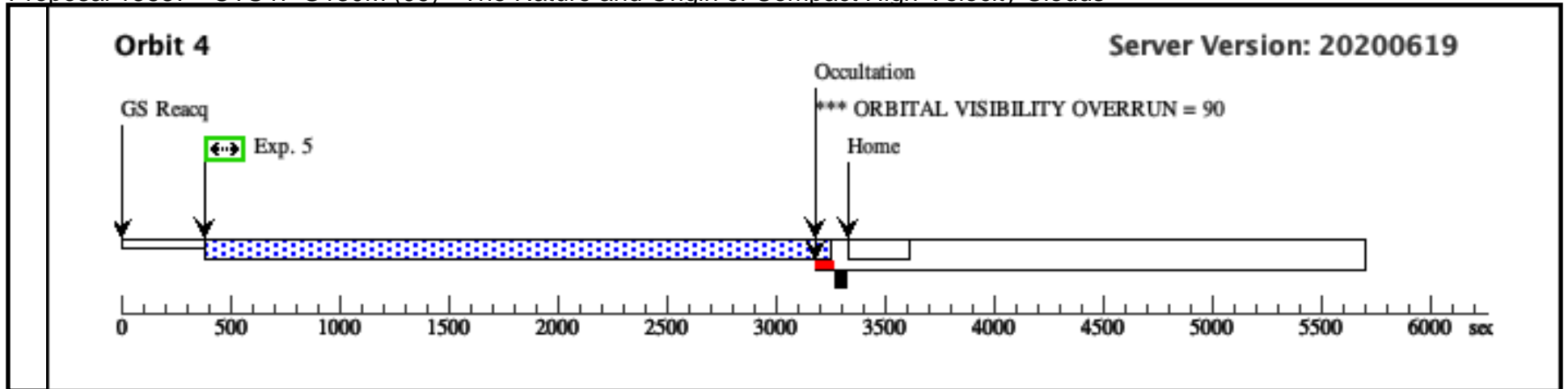


Proposal 15887 - CTS47-G130M (09) - The Nature and Origin of Compact High-Velocity Clouds

Mon Oct 12 21:00:37 GMT 2020

Visit	Proposal 15887, CTS47-G130M (09), failed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(CTS47-G130M (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (CTS47-G130M (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (CTS47-G130M (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(5)	CTS47	RA: 04 40 44.7306 (70.1863775d) Dec: -34 41 51.15 (-34.69754d) Equinox: J2000	Proper Motion RA: 3.592126800707514E-5 sec of time/yr Proper Motion Dec: -4.639999360733782E-4 arcsec/yr Epoch of Position: 2015.5	V=17.1 GALEX FUV=17.81 NUV=17.6 6	Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=ISM Description=[ABSORPTION LINE SYSTEM - GALACTIC, CORONAL GAS, HIGH VELOCITY CLOUD] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IMAG E (1367265)	(5) CTS47	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				22 Secs (22 Secs) [==>]	[1]
	2	G130M/FP-POS1 (1336624)	(5) CTS47	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=1; BUFFER-TIME=70 30			2416 Secs (2416 Secs) [==>]	[1]
	3	G130M/FP-POS2 (1336624)	(5) CTS47	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=2; BUFFER-TIME=70 30			2814 Secs (2814 Secs) [==>]	[2]
	4	G130M/FP-POS3 (1336624)	(5) CTS47	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=3; BUFFER-TIME=70 30			2814 Secs (2814 Secs) [==>]	[3]
	5	G130M/FP-POS4 (1336624)	(5) CTS47	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=70 30			2814 Secs (2814 Secs) [==>]	[4]





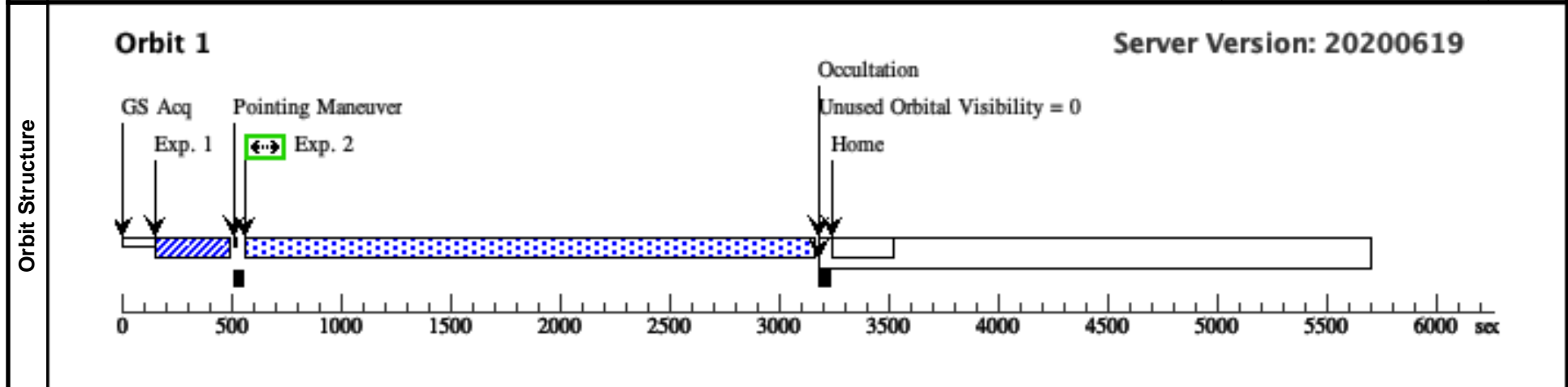
Proposal 15887 - CTS47-G130M-repeat (59) - The Nature and Origin of Compact High-Velocity Clouds

Mon Oct 12 21:00:37 GMT 2020

Visit	Proposal 15887, CTS47-G130M-repeat (59), implementation				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: COS/FUV, COS/NUV				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	CTS47	RA: 04 40 44.7306 (70.1863775d) Dec: -34 41 51.15 (-34.69754d) Equinox: J2000	Proper Motion RA: 3.592126800707514E-5 sec of time/yr Proper Motion Dec: -4.639999360733782E-4 arcsec/yr Epoch of Position: 2015.5	V=17.1 GALEX FUV=17.81 NUV=17.6 6	Reference Frame: ICRS
	<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>					
	Category=ISM Description=[ABSORPTION LINE SYSTEM - GALACTIC, CORONAL GAS, HIGH VELOCITY CLOUD] Extended=NO					

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IMAG E (1367265)	(5) CTS47	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				22 Secs (22 Secs) [==>]	[1]
	2	G130M/FP-POS4 (1336624)	(5) CTS47	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=4; BUFFER-TIME=70 30			2416 Secs (2416 Secs) [==>]	[1]



Proposal 15887 - CTS47-G160M (10) - The Nature and Origin of Compact High-Velocity Clouds

Mon Oct 12 21:00:37 GMT 2020

Visit	Proposal 15887, CTS47-G160M (10), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)											
	(CTS47-G160M (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (CTS47-G160M (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous					
	(5)	CTS47	RA: 04 40 44.7306 (70.1863775d) Dec: -34 41 51.15 (-34.69754d) Equinox: J2000	Proper Motion RA: 3.592126800707514E-5 sec of time/yr Proper Motion Dec: -4.639999360733782E-4 arcsec/yr Epoch of Position: 2015.5	V=17.1 GALEX FUV=17.81 NUV=17.6 6	Reference Frame: ICRS						
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=ISM Description=[ABSORPTION LINE SYSTEM - GALACTIC, CORONAL GAS, HIGH VELOCITY CLOUD] Extended=NO												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	ACQ/IMAG E (1367265)	(5) CTS47	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				22 Secs (22 Secs)			
									[==>]		[1]	
	2	G160M/FP-POS1 (1336632)	(5) CTS47	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=1; BUFFER-TIME=10 900				1130 Secs (1130 Secs)		
									[==>]		[1]	
	3	G160M/FP-POS2 (1336632)	(5) CTS47	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=2; BUFFER-TIME=10 900				1143 Secs (1143 Secs)		
									[==>]		[1]	
4	G160M/FP-POS3 (1336632)	(5) CTS47	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3; BUFFER-TIME=10 900				2814 Secs (2814 Secs)			
								[==>]		[2]		
5	G160M/FP-POS4 (1336632)	(5) CTS47	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=4; BUFFER-TIME=10 900				2814 Secs (2814 Secs)			
								[==>]		[3]		

