



17746 - Locating Clouds in the Milky Way's Nuclear Outflow

Cycle: 32, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

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Dr. Frances H. Cashman (CoI)	Presbyterian College
Dr. Alexander W. Fullerton (CoI) (AdminUSPI)	Space Telescope Science Institute
Dr. Edward B. Jenkins (CoI)	Princeton University
Dr. Tanveer Karim (CoI) (CSA Member)	University of Toronto
Dr. Felix J. Lockman (CoI)	Associated Universities, Inc.
Dr. Jessica Kay Werk (CoI)	University of Washington
Dr. Sara Cazzoli (CoI) (ESA Member)	Instituto de Astrofísica de Andalucía (IAA)

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) SDSSJ160553.38+045820.4	COS/FUV COS/NUV	2	07-Apr-2026 13:00:16.0	yes
21	(1) SDSSJ160553.38+045820.4	COS/FUV COS/NUV	1	07-Apr-2026 13:00:16.0	yes
02	(1) SDSSJ160553.38+045820.4	COS/FUV COS/NUV	2	07-Apr-2026 13:00:17.0	yes

Proposal 17746 (STScI Edit Number: 0, Created: Tuesday, April 7, 2026, 12:00:30PM 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>
22	(1) SDSSJ160553.38+045820.4	COS/FUV COS/NUV	1	07-Apr-2026 13:00:17.0	yes
03	(2) SDSSJ155747.67+043815.6	COS/FUV COS/NUV	3	07-Apr-2026 13:00:18.0	yes
04	(3) SDSSJ155943.11+050908.5	COS/FUV COS/NUV	3	07-Apr-2026 13:00:20.0	yes
14	(3) SDSSJ155943.11+050908.5	COS/FUV COS/NUV	2	07-Apr-2026 13:00:20.0	yes
24	(3) SDSSJ155943.11+050908.5	COS/FUV COS/NUV	2	07-Apr-2026 13:00:21.0	yes
05	(3) SDSSJ155943.11+050908.5	COS/FUV COS/NUV	2	07-Apr-2026 13:00:22.0	yes
06	(4) SDSSJ154825.80+052038.8	COS/FUV COS/NUV	3	07-Apr-2026 13:00:23.0	yes
16	(4) SDSSJ154825.80+052038.8	COS/FUV COS/NUV	2	07-Apr-2026 13:00:24.0	yes
26	(4) SDSSJ154825.80+052038.8	COS/FUV COS/NUV	1	07-Apr-2026 13:00:25.0	yes
07	(4) SDSSJ154825.80+052038.8	COS/FUV COS/NUV	2	07-Apr-2026 13:00:26.0	yes
08	(5) SDSSJ152022.68+060059.7	COS/FUV COS/NUV	2	07-Apr-2026 13:00:26.0	yes
09	(5) SDSSJ152022.68+060059.7	COS/FUV COS/NUV	2	07-Apr-2026 13:00:27.0	yes
10	(6) SDSSJ152011.62+081911.1	COS/FUV COS/NUV	2	07-Apr-2026 13:00:28.0	yes
30	(6) SDSSJ152011.62+081911.1	COS/FUV COS/NUV	1	07-Apr-2026 13:00:29.0	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>
11	(6) SDSSJ152011.62+081911.1	COS/FUV COS/NUV	2	07-Apr-2026 13:00:29.0	yes

35 Total Orbits Used

ABSTRACT

Recent HST/COS observations have discovered outflowing cool gas clouds in the Milky Way's nuclear wind. While their chemical composition, covering fraction, and kinematics have been characterized, their distance is largely unconstrained, so we do not know where along each line of sight the cool gas clouds are located. Without the distance to the clouds, we cannot definitively associate them with the Fermi or eROSITA Bubbles (the giant gamma-ray and X-ray structures created by a nuclear outburst) or reconstruct the history of the nuclear outflow. We have designed a novel experiment to determine the distance to the cool clouds using HST/COS observations of a sample of six blue horizontal branch (BHB) stars projected onto the Fermi and eROSITA Bubbles. The targets are chosen to lie at a range of distances from 4.7 to 9.5 kpc, with two targets inside the Bubbles and four in the foreground. By bracketing the location of high-velocity clouds (HVCs) seen in UV metal absorption lines (Si II, Si IV, C IV, Fe II) in the BHB spectra, we will determine whether the clouds arise inside or in front of the Bubbles. A detection of HVCs in both the foreground and background sightlines would place the clouds in front of the Bubbles. A detection in the background but not the foreground sightlines would place the clouds within the Bubbles or at their boundaries. We also request deep H I 21 cm spectra of each direction from the Green Bank Telescope to constrain the velocities and locations of the neutral gas in the HVCs, which directly aids our science goals. This experiment provides a method for mapping the spatial distribution of high-velocity gas in the Galactic halo.

OBSERVING DESCRIPTION

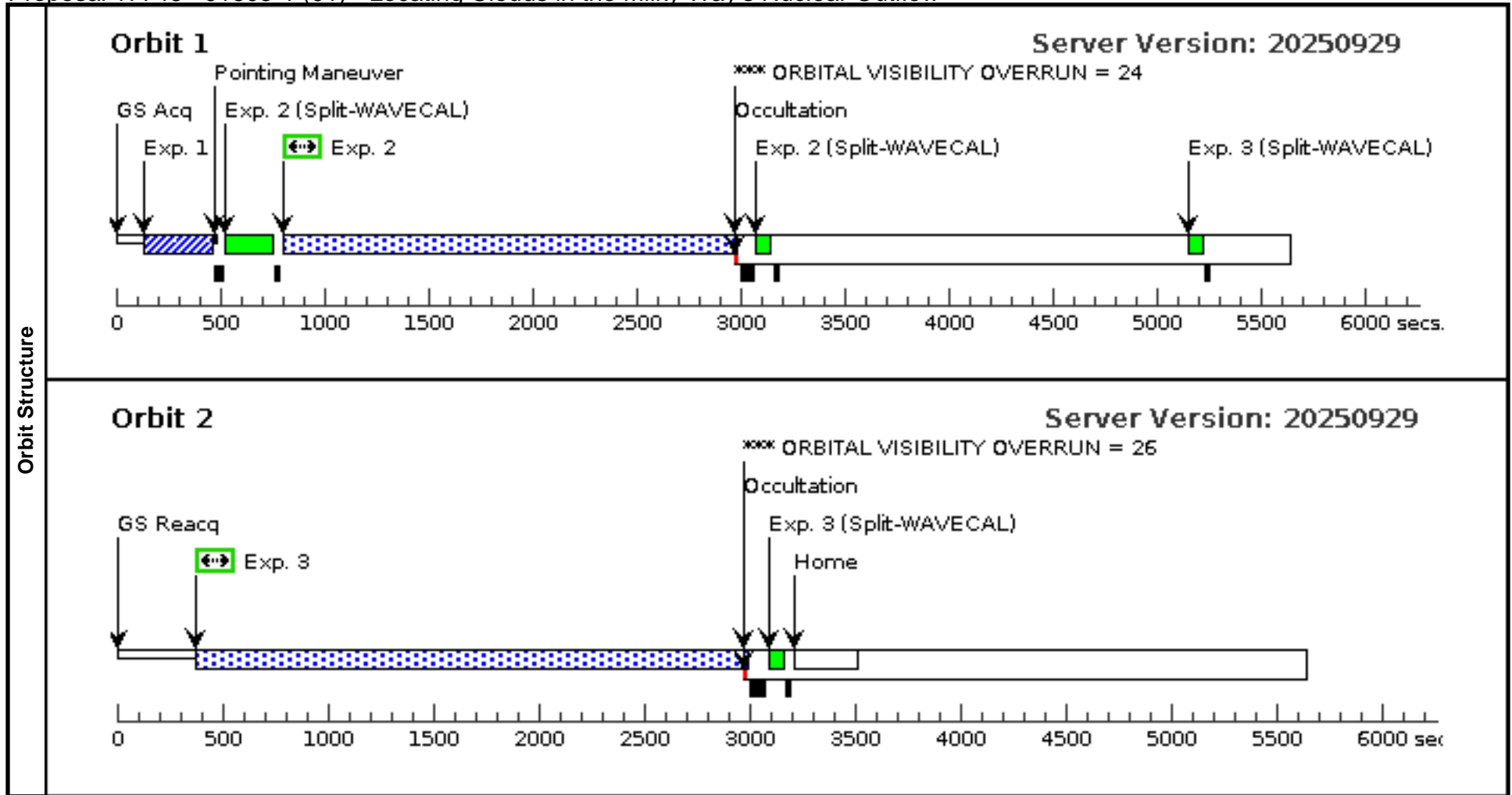
This is a COS FUV program to observe six blue horizontal branch (BHB) stars toward the Galactic Center, with the science goal of detecting foreground gas in absorption in several UV metal lines (particularly Si IV 1393, 1402 and C IV 1548, 1550).

Each target will be acquired with a NUV ACQ/IMAGE with the PSA and MIRRORB, followed by science observations with the G160M/1577 setting. For each target, the four FP-POS positions will be obtained either in one visit or spread across two visits. All visits are either 2 or 3 orbits in length, following the guidance from the PC.

Proposal 17746 - J1605-1 (01) - Locating Clouds in the Milky Way's Nuclear Outflow

Tue Apr 07 17:00:30 GMT 2026

Visit	Proposal 17746, J1605-1 (01), failed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																
	Diagnosics (J1605-1 (01)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser. (J1605-1 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J1605-1 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																
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>SDSSJ160553.38+045820.4</td> <td>RA: 16 05 53.3780 (241.4724083d) Dec: +04 58 20.30 (4.97231d) Equinox: J2000</td> <td>Proper Motion RA: -2.8380133612298586E-4 sec of time/yr Proper Motion Dec: -0.014809000003879191 arcsec/yr Epoch of Position: 2015.5</td> <td>V=14.8 FUV=17.74 NUV=16.77</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=ISM Description=[ABSORPTION LINE SYSTEM - GALACTIC, HIGH VELOCITY CLOUD, INTERMEDIATE VELOCITY CLOUD] Extended=NO</p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	SDSSJ160553.38+045820.4	RA: 16 05 53.3780 (241.4724083d) Dec: +04 58 20.30 (4.97231d) Equinox: J2000	Proper Motion RA: -2.8380133612298586E-4 sec of time/yr Proper Motion Dec: -0.014809000003879191 arcsec/yr Epoch of Position: 2015.5	V=14.8 FUV=17.74 NUV=16.77	Reference Frame: ICRS																											
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1	ACQ/IMAG E (1927426)	(1) SDSSJ160553.38 +045820.4	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				9 Secs (9 Secs) [==>]	[1]																																								
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Proposal 17746 - J1605-1-repeat (21) - Locating Clouds in the Milky Way's Nuclear Outflow

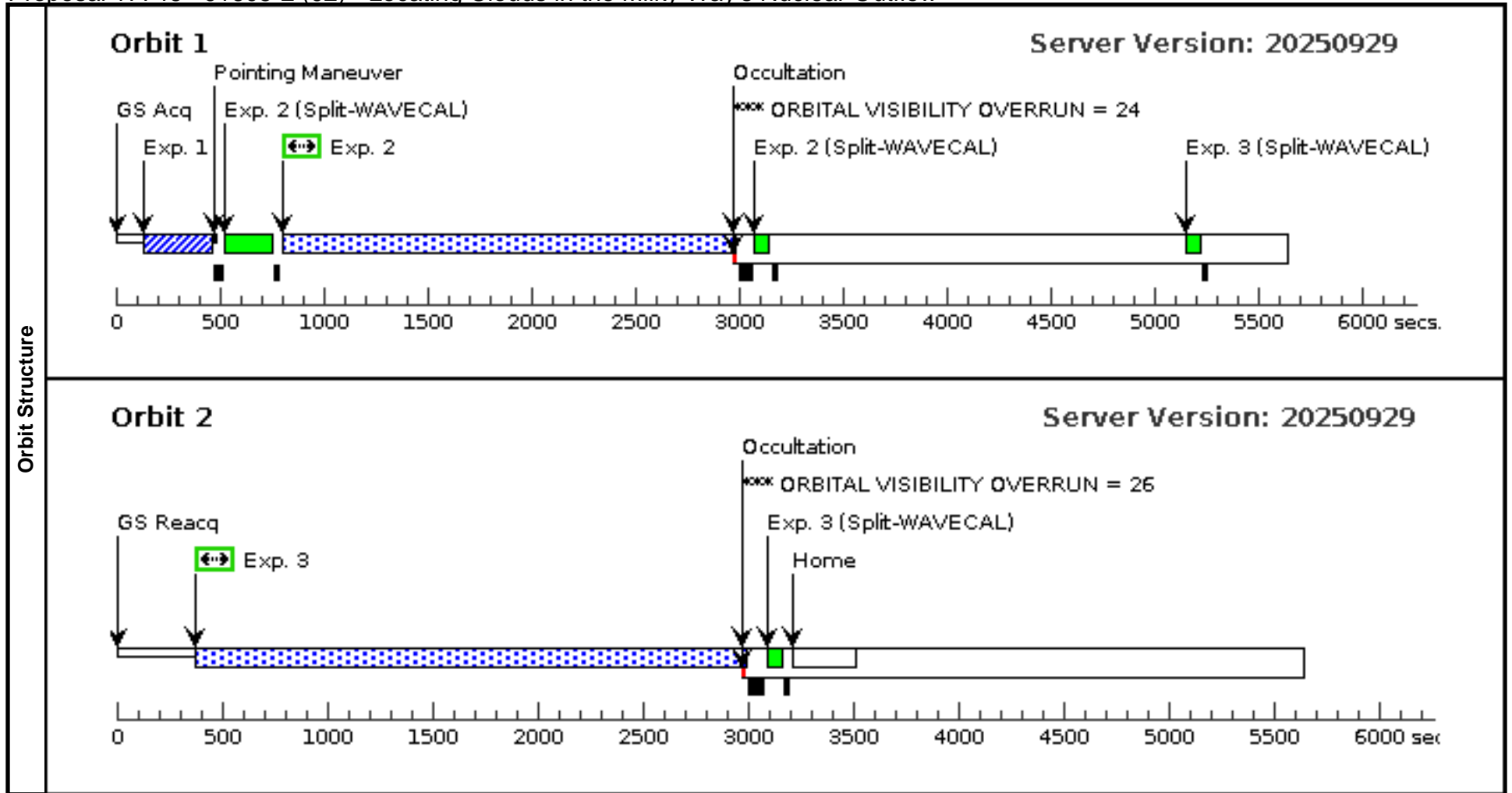
Tue Apr 07 17:00:30 GMT 2026

Visit	<p>Proposal 17746, J1605-1-repeat (21), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p>									
Diagnostics	<p>(J1605-1-repeat (21)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.</p> <p>(J1605-1-repeat (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SDSSJ160553.38+045820.4	RA: 16 05 53.3780 (241.4724083d) Dec: +04 58 20.30 (4.97231d) Equinox: J2000	Proper Motion RA: -2.8380133612298586E-4 sec of time/yr Proper Motion Dec: -0.014809000003879191 arcsec/yr Epoch of Position: 2015.5	V=14.8 FUV=17.74 NUV=16.77	Reference Frame: ICRS				
	<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>Category=ISM</i></p> <p><i>Description=[ABSORPTION LINE SYSTEM - GALACTIC, HIGH VELOCITY CLOUD, INTERMEDIATE VELOCITY CLOUD]</i></p> <p><i>Extended=NO</i></p>									
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 (1927426)	(1) SDSSJ160553.38 +045820.4	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				9 Secs (9 Secs)	
									[==>]	[1]
	2	G160M/157 7-FPPOS1 (1857923)	(1) SDSSJ160553.38 +045820.4	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=1; BUFFER-TIME=40 00			2133 Secs (2133 Secs)	
									[==>]	[1]
Orbit Structure	<div style="display: flex; justify-content: space-between;"> <div> <p>Orbit 1</p> <p>The diagram shows a timeline from 0 to 6000 seconds. Key events include: GS Acq at ~100s, Exp. 1 at ~200s, Pointing Maneuver at ~400s, Exp. 2 (Split-WAVECAL) at ~500s, a second Exp. 2 (Split-WAVECAL) at ~700s, Occultation at ~3000s, and Home at ~3200s. A red vertical bar at 3000s indicates an ORBITAL VISIBILITY OVERRUN = 25.</p> </div> <div> <p>Server Version: 20250929</p> </div> </div>									

Proposal 17746 - J1605-2 (02) - Locating Clouds in the Milky Way's Nuclear Outflow

Tue Apr 07 17:00:30 GMT 2026

Visit	Proposal 17746, J1605-2 (02), failed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																
	Diagnosics (J1605-2 (02)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser. (J1605-2 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J1605-2 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																
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Proposal 17746 - J1605-2-repeat (22) - Locating Clouds in the Milky Way's Nuclear Outflow

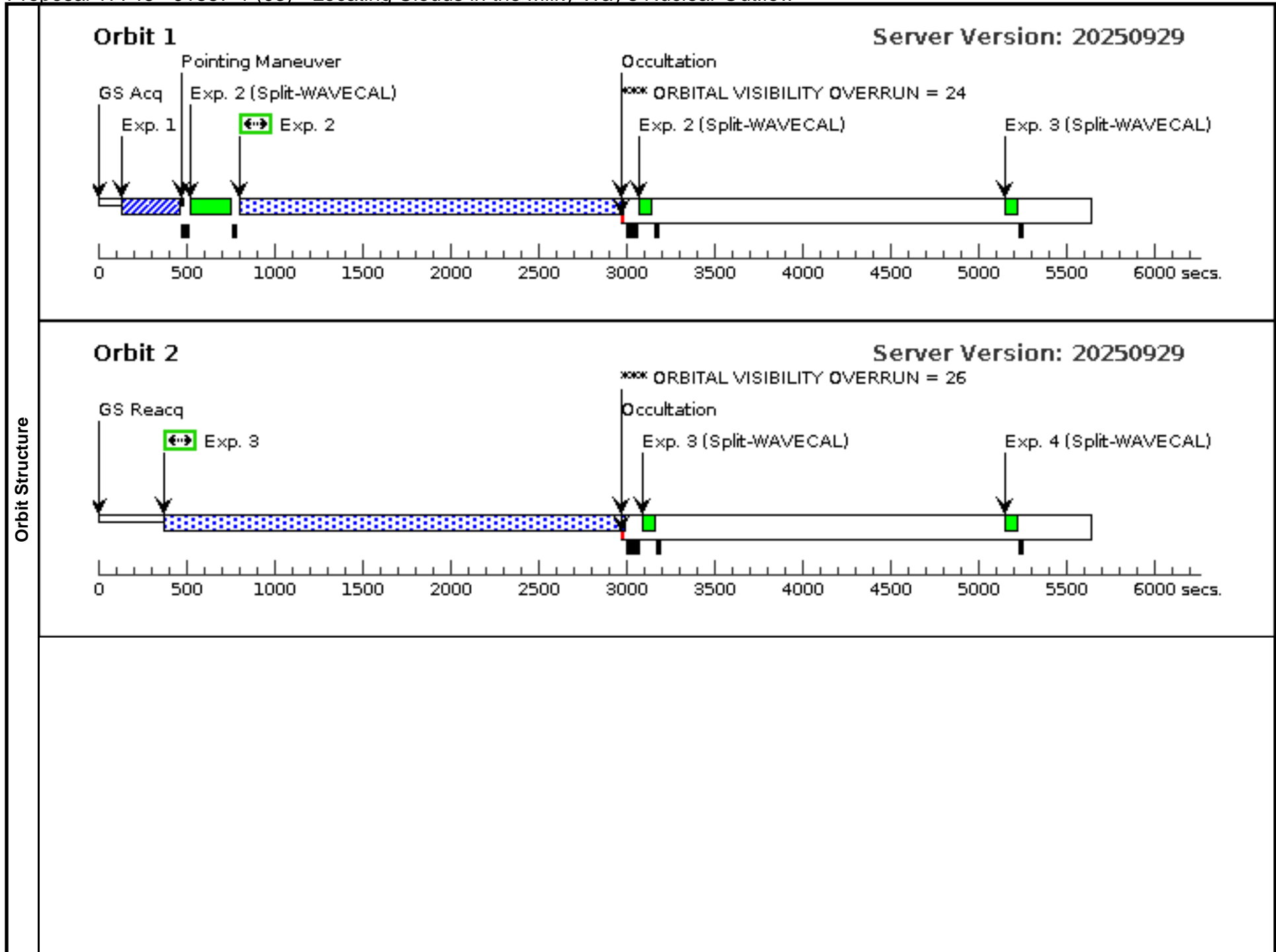
Tue Apr 07 17:00:30 GMT 2026

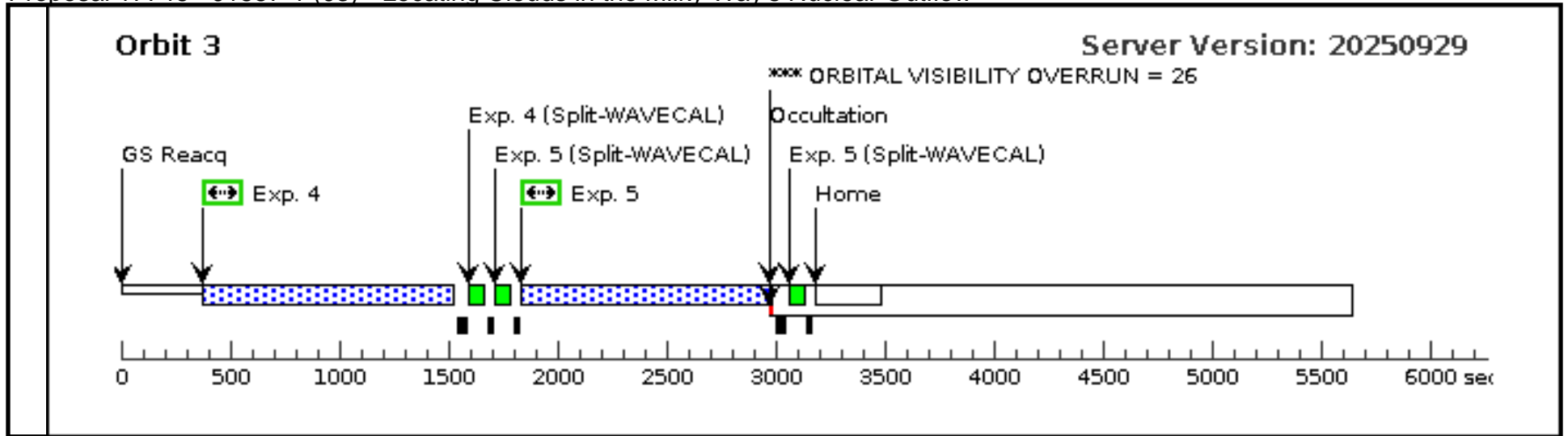
Visit	<p>Proposal 17746, J1605-2-repeat (22), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p>									
Diagnostics	<p>(J1605-2-repeat (22)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.</p> <p>(J1605-2-repeat (22)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>									
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									[==>]	[1]
	2	G160M/157 7-FPPOS3 (1857923)	(1) SDSSJ160553.38 +045820.4	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=40 00			2133 Secs (2133 Secs)	
									[==>]	[1]
Orbit Structure	<div style="display: flex; justify-content: space-between;"> <div> <h2>Orbit 1</h2> <p>Timeline labels: GS Acq, Exp. 1, Pointing Maneuver, Exp. 2 (Split-WAVECAL), Occultation, Home, Exp. 2 (Split-WAVECAL)</p> <p>Scale: 0 to 6000 sec</p> <p>Warning: ORBITAL VISIBILITY OVERRUN = 25 (indicated by a red bar at the end of the timeline)</p> </div> <div> <p>Server Version: 20250929</p> </div> </div>									

Proposal 17746 - J1557-1 (03) - Locating Clouds in the Milky Way's Nuclear Outflow

Tue Apr 07 17:00:30 GMT 2026

Visit	Proposal 17746, J1557-1 (03), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)											
	(J1557-1 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J1557-1 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J1557-1 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous					
	(2)	SDSSJ155747.67+043815.6	RA: 15 57 47.6814 (239.4486725d) Dec: +04 38 15.61 (4.63767d) Equinox: J2000	Proper Motion RA: -2.1884985410363134E-4 sec of time/yr Proper Motion Dec: -0.005894000014450285 arcsec/yr Epoch of Position: 2015.5		V=15.0 FUV=17.17 NUV=16.79	Reference Frame: ICRS					
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=ISM Description=[ABSORPTION LINE SYSTEM - GALACTIC, HIGH VELOCITY CLOUD, INTERMEDIATE 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 (1927426)	(2) SDSSJ155747.67 +043815.6	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				9 Secs (9 Secs)			
									[==>]		[1]	
	2	G160M/157 7-FPPOS1 (1857932)	(2) SDSSJ155747.67 +043815.6	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=1; BUFFER-TIME=40 00				2132 Secs (2132 Secs)		
									[==>]		[1]	
	3	G160M/157 7-FPPOS2 (1857932)	(2) SDSSJ155747.67 +043815.6	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=2; BUFFER-TIME=40 00				2565 Secs (2565 Secs)		
								[==>]		[2]		
4	G160M/157 7-FPPOS3 (1857932)	(2) SDSSJ155747.67 +043815.6	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=40 00				1102 Secs (1102 Secs)			
								[==>]		[3]		
5	G160M/157 7-FPPOS4 (1857932)	(2) SDSSJ155747.67 +043815.6	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=4; BUFFER-TIME=40 00				1102 Secs (1102 Secs)			
								[==>]		[3]		

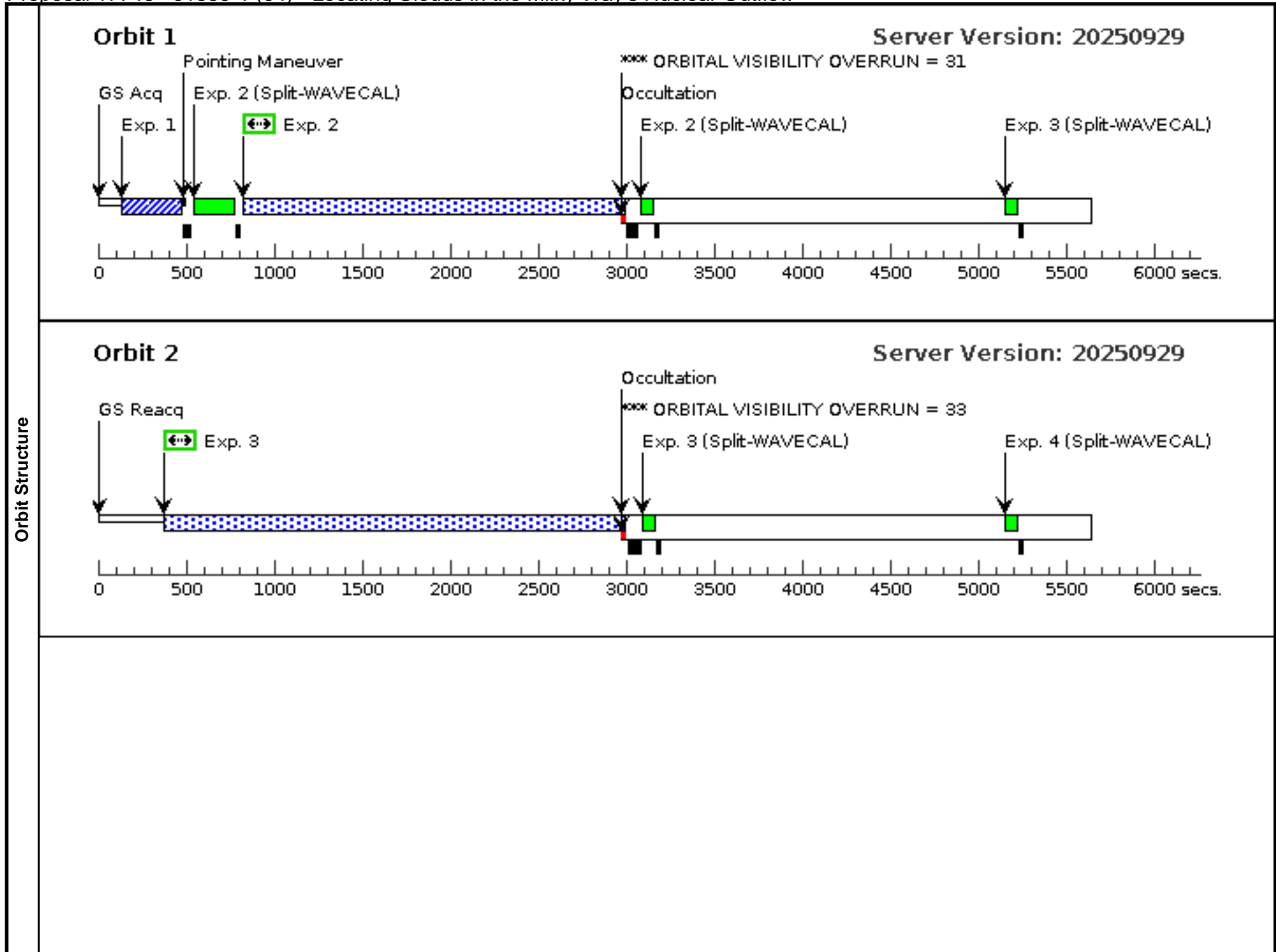


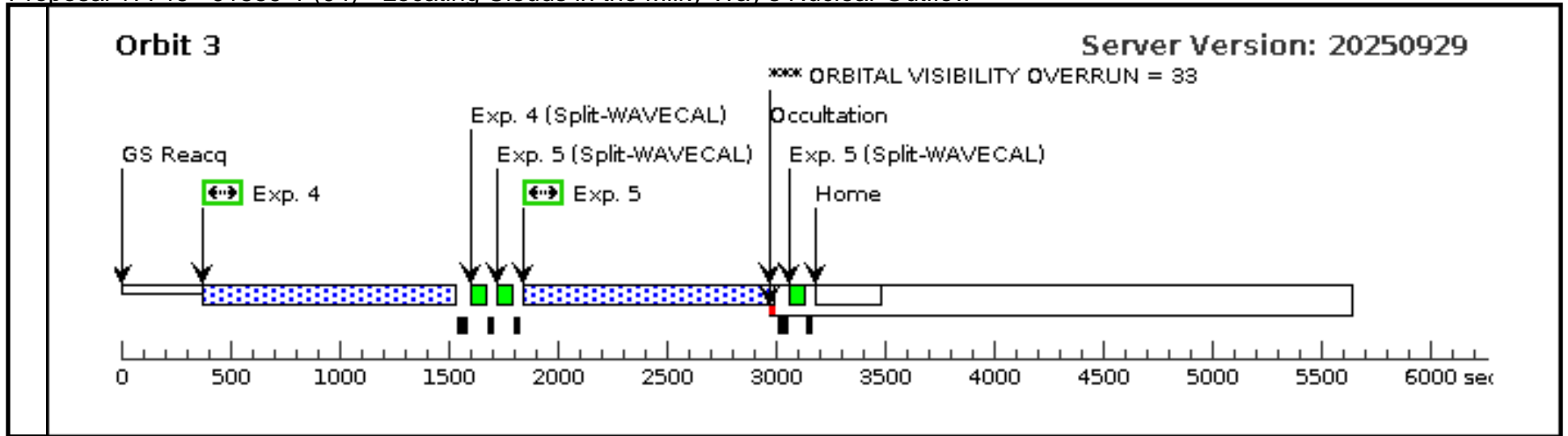


Proposal 17746 - J1559-1 (04) - Locating Clouds in the Milky Way's Nuclear Outflow

Tue Apr 07 17:00:30 GMT 2026

Visit	Proposal 17746, J1559-1 (04), failed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)										
	(J1559-1 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J1559-1 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J1559-1 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous				
	(3)	SDSSJ155943.11+050908.5	RA: 15 59 43.1227 (239.9296779d) Dec: +05 09 8.56 (5.15238d) Equinox: J2000	Proper Motion RA: -3.630669828076738E-4 sec of time/yr Proper Motion Dec: -0.01251499998033978 arcsec/yr Epoch of Position: 2015.5		V=15.2 FUV=18.08 NUV=17.43	Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=ISM Description=[ABSORPTION LINE SYSTEM - GALACTIC, HIGH VELOCITY CLOUD, INTERMEDIATE 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 (1927426)	(3) SDSSJ155943.11 +050908.5	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				16 Secs (16 Secs) [==>]		[1]
	2	G160M/157 7-FPPOS1 (1857932)	(3) SDSSJ155943.11 +050908.5	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=1; BUFFER-TIME=40 00			2123 Secs (2123 Secs) [==>]		[1]
	3	G160M/157 7-FPPOS2 (1857932)	(3) SDSSJ155943.11 +050908.5	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=2; BUFFER-TIME=40 00			2570 Secs (2570 Secs) [==>]		[2]
	4	G160M/157 7-FPPOS3 (1857932)	(3) SDSSJ155943.11 +050908.5	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=40 00			1105 Secs (1105 Secs) [==>]		[3]
	5	G160M/157 7-FPPOS4 (1857932)	(3) SDSSJ155943.11 +050908.5	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=4; BUFFER-TIME=40 00			1104 Secs (1104 Secs) [==>]		[3]

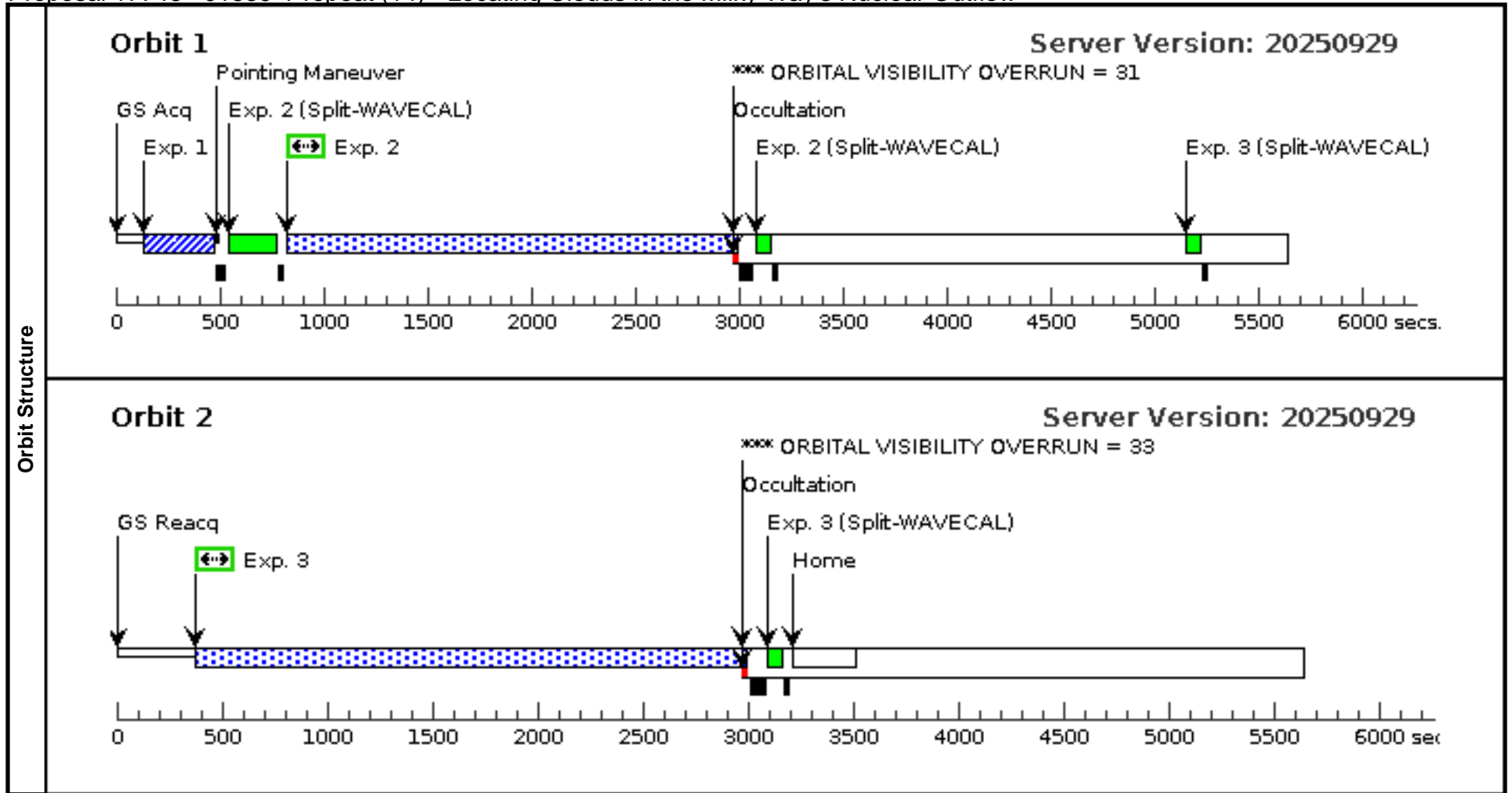




Proposal 17746 - J1559-1-repeat (14) - Locating Clouds in the Milky Way's Nuclear Outflow

Tue Apr 07 17:00:30 GMT 2026

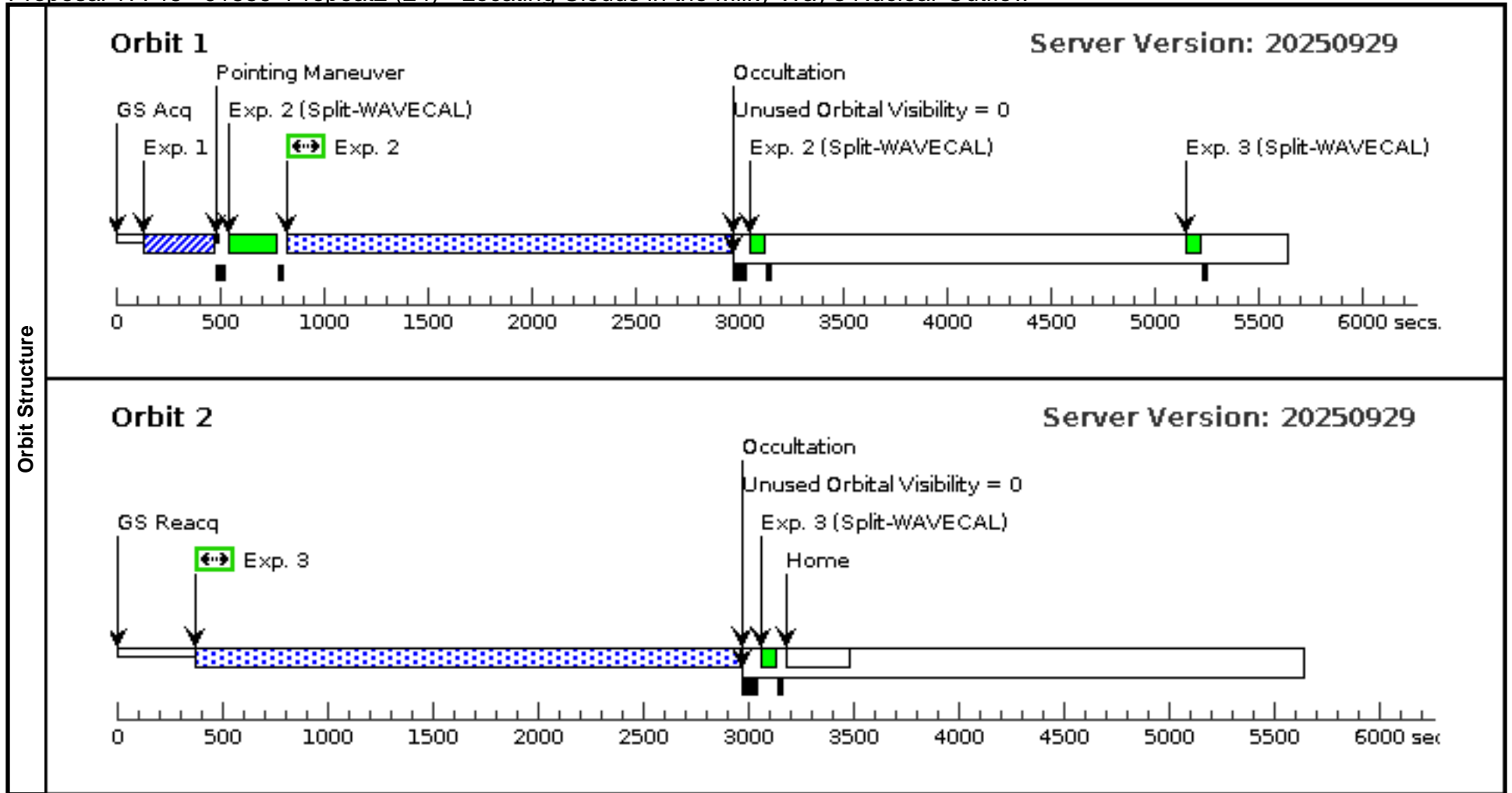
Visit	Proposal 17746, J1559-1-repeat (14), failed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(J1559-1-repeat (14)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser. (J1559-1-repeat (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J1559-1-repeat (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	SDSSJ155943.11+050908.5	RA: 15 59 43.1227 (239.9296779d) Dec: +05 09 8.56 (5.15238d) Equinox: J2000	Proper Motion RA: -3.630669828076738E-4 sec of time/yr Proper Motion Dec: -0.01251499998033978 arcsec/yr Epoch of Position: 2015.5	V=15.2 FUV=18.08 NUV=17.43	Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=ISM Description=[ABSORPTION LINE SYSTEM - GALACTIC, HIGH VELOCITY CLOUD, INTERMEDIATE 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 (1927426)	(3) SDSSJ155943.11 +050908.5	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				16 Secs (16 Secs) [==>]	[1]
	2	G160M/157 7-FPPOS3 (1857932)	(3) SDSSJ155943.11 +050908.5	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=40 00			2123 Secs (2123 Secs) [==>]	[1]
	3	G160M/157 7-FPPOS4 (1857932)	(3) SDSSJ155943.11 +050908.5	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=4; BUFFER-TIME=40 00			2570 Secs (2570 Secs) [==>]	[2]



Proposal 17746 - J1559-1-repeat2 (24) - Locating Clouds in the Milky Way's Nuclear Outflow

Tue Apr 07 17:00:30 GMT 2026

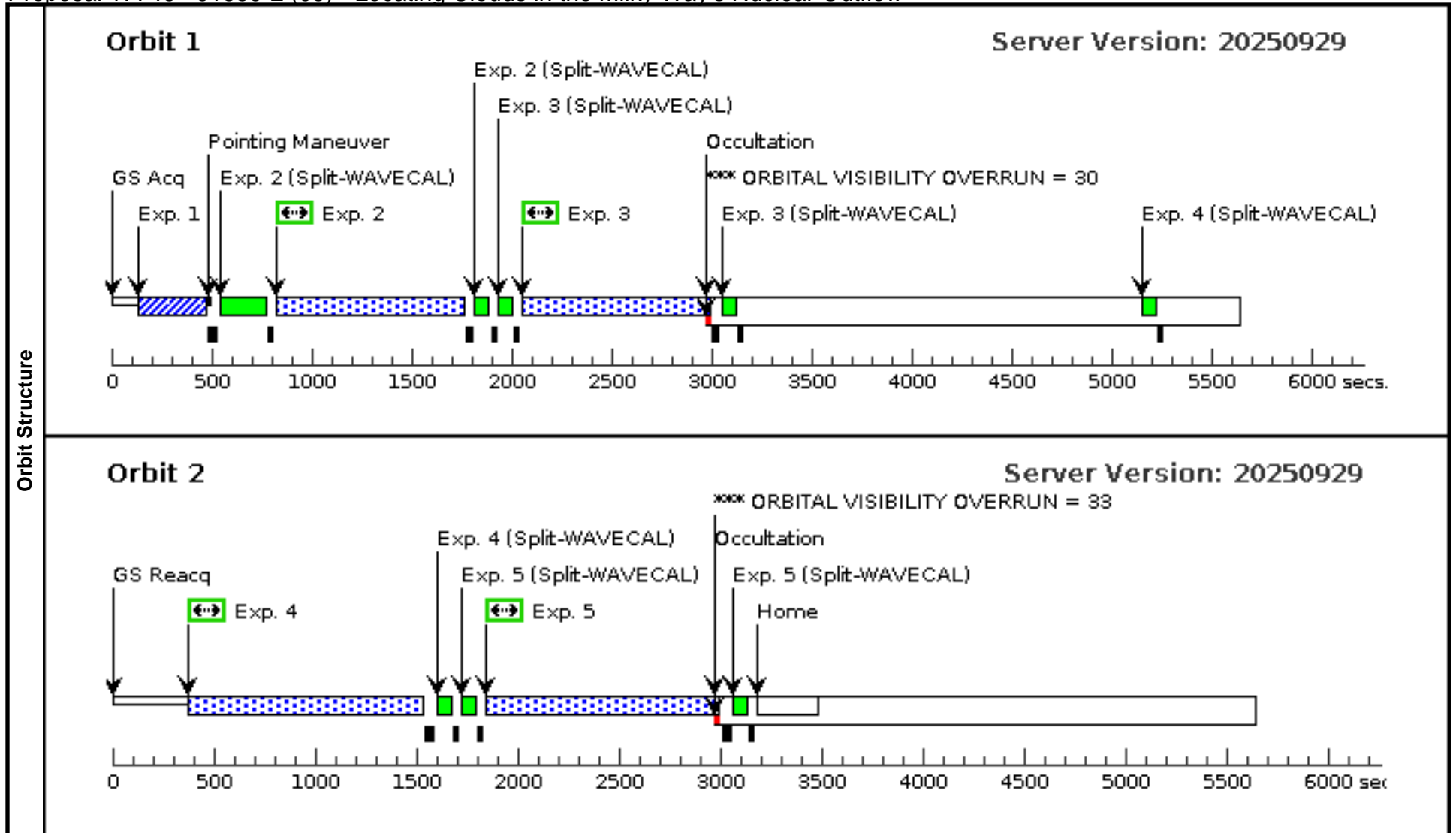
Visit	Proposal 17746, J1559-1-repeat2 (24) Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)										
	(J1559-1-repeat2 (24)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous				
	(3)	SDSSJ155943.11+050908.5	RA: 15 59 43.1227 (239.9296779d) Dec: +05 09 8.56 (5.15238d) Equinox: J2000	Proper Motion RA: -3.630669828076738E-4 sec of time/yr Proper Motion Dec: -0.01251499998033978 arcsec/yr Epoch of Position: 2015.5		V=15.2 FUV=18.08 NUV=17.43	Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=ISM Description=[ABSORPTION LINE SYSTEM - GALACTIC, HIGH VELOCITY CLOUD, INTERMEDIATE 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 (1927426)	(3) SDSSJ155943.11 +050908.5	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				16 Secs (16 Secs)		
									[==>]		[1]
	2	G160M/157 7-FPPOS3 (1857932)	(3) SDSSJ155943.11 +050908.5	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=40 00				2092 Secs (2092 Secs)	
									[==>]		[1]
3	G160M/157 7-FPPOS4 (1857932)	(3) SDSSJ155943.11 +050908.5	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=4; BUFFER-TIME=40 00				2537 Secs (2537 Secs)		
									[==>]		[2]



Proposal 17746 - J1559-2 (05) - Locating Clouds in the Milky Way's Nuclear Outflow

Tue Apr 07 17:00:30 GMT 2026

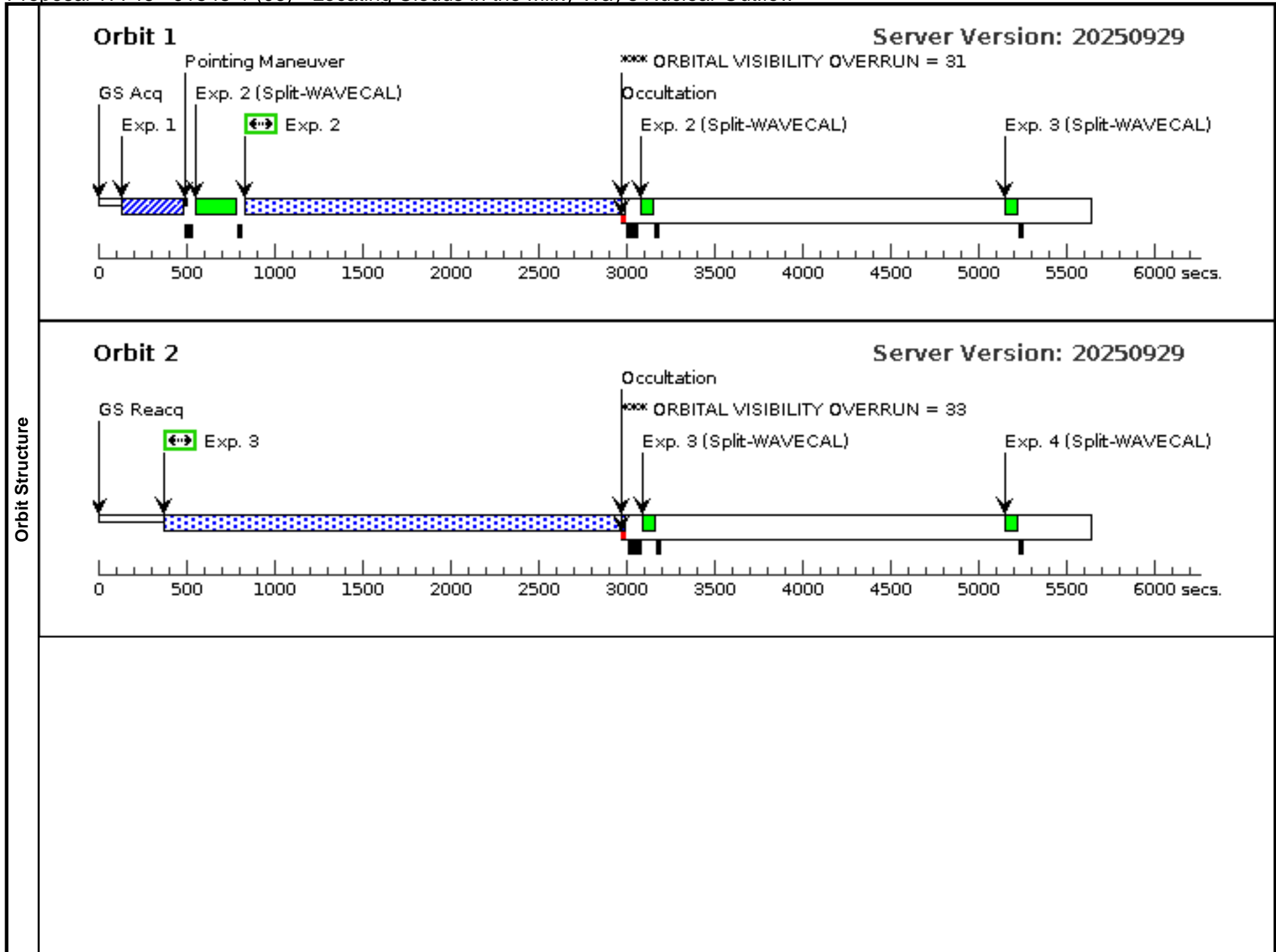
Visit	Proposal 17746, J1559-2 (05), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)										
	(J1559-2 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J1559-2 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous				
	(3)	SDSSJ155943.11+050908.5	RA: 15 59 43.1227 (239.9296779d) Dec: +05 09 8.56 (5.15238d) Equinox: J2000	Proper Motion RA: -3.630669828076738E-4 sec of time/yr Proper Motion Dec: -0.01251499998033978 arcsec/yr Epoch of Position: 2015.5		V=15.2 FUV=18.08 NUV=17.43	Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=ISM Description=[ABSORPTION LINE SYSTEM - GALACTIC, HIGH VELOCITY CLOUD, INTERMEDIATE 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 (1927426)	(3) SDSSJ155943.11 +050908.5	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				16 Secs (16 Secs) [==>]		[1]
	2	G160M/157 7-FPPOS1 (1857932)	(3) SDSSJ155943.11 +050908.5	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=1; BUFFER-TIME=40 00			885 Secs (885 Secs) [==>]		[1]
	3	G160M/157 7-FPPOS2 (1857932)	(3) SDSSJ155943.11 +050908.5	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=2; BUFFER-TIME=40 00			885 Secs (885 Secs) [==>]		[1]
	4	G160M/157 7-FPPOS3 (1857932)	(3) SDSSJ155943.11 +050908.5	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=40 00			1105 Secs (1105 Secs) [==>]		[2]
	5	G160M/157 7-FPPOS4 (1857932)	(3) SDSSJ155943.11 +050908.5	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=4; BUFFER-TIME=40 00			1104 Secs (1104 Secs) [==>]		[2]

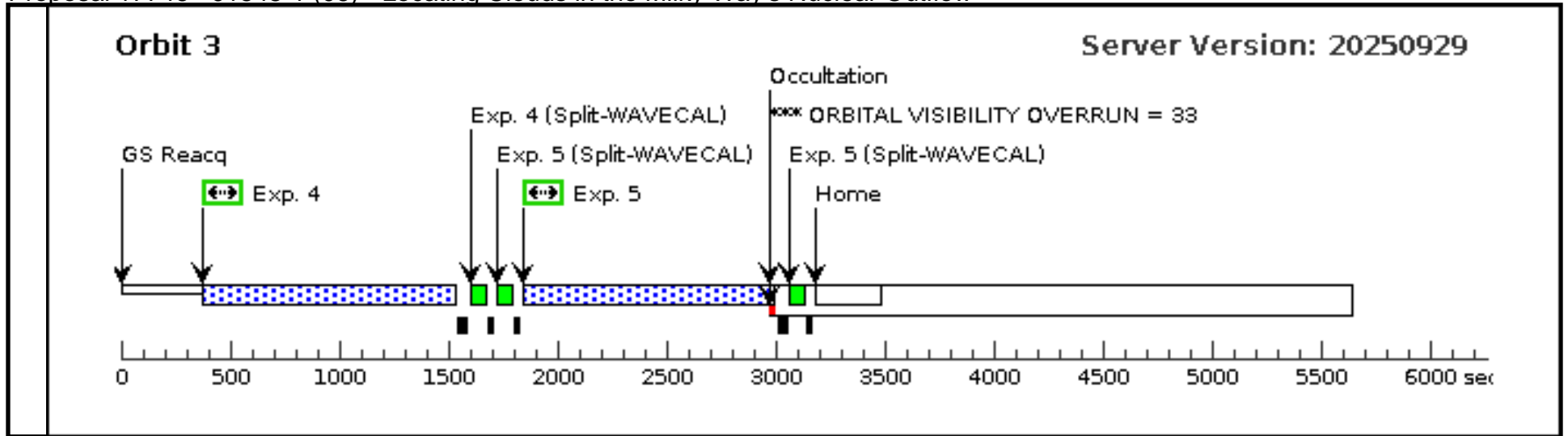


Proposal 17746 - J1548-1 (06) - Locating Clouds in the Milky Way's Nuclear Outflow

Tue Apr 07 17:00:30 GMT 2026

Visit	Proposal 17746, J1548-1 (06), failed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)										
	(J1548-1 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J1548-1 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J1548-1 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous				
	(4)	SDSSJ154825.80+052038.8	RA: 15 48 25.8015 (237.1075063d) Dec: +05 20 38.87 (5.34413d) Equinox: J2000	Proper Motion RA: -1.0967673105207091E-4 sec of time/yr Proper Motion Dec: -0.0072169999384641415 arcsec/yr Epoch of Position: 2015.5		V=15.9 FUV=18.19 NUV=17.72	Reference Frame: ICRS				
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=ISM Description=[ABSORPTION LINE SYSTEM - GALACTIC, HIGH VELOCITY CLOUD, INTERMEDIATE 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 (1927428)	(4) SDSSJ154825.80 +052038.8	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				21 Secs (21 Secs) [==>]		[1]
	2	G160M/157 7-FPPOS1 (1857932)	(4) SDSSJ154825.80 +052038.8	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=1; BUFFER-TIME=40 00			2113 Secs (2113 Secs) [==>]		[1]
	3	G160M/157 7-FPPOS2 (1857932)	(4) SDSSJ154825.80 +052038.8	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=2; BUFFER-TIME=40 00			2570 Secs (2570 Secs) [==>]		[2]
	4	G160M/157 7-FPPOS3 (1857932)	(4) SDSSJ154825.80 +052038.8	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=40 00			1105 Secs (1105 Secs) [==>]		[3]
	5	G160M/157 7-FPPOS4 (1857932)	(4) SDSSJ154825.80 +052038.8	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=4; BUFFER-TIME=40 00			1104 Secs (1104 Secs) [==>]		[3]

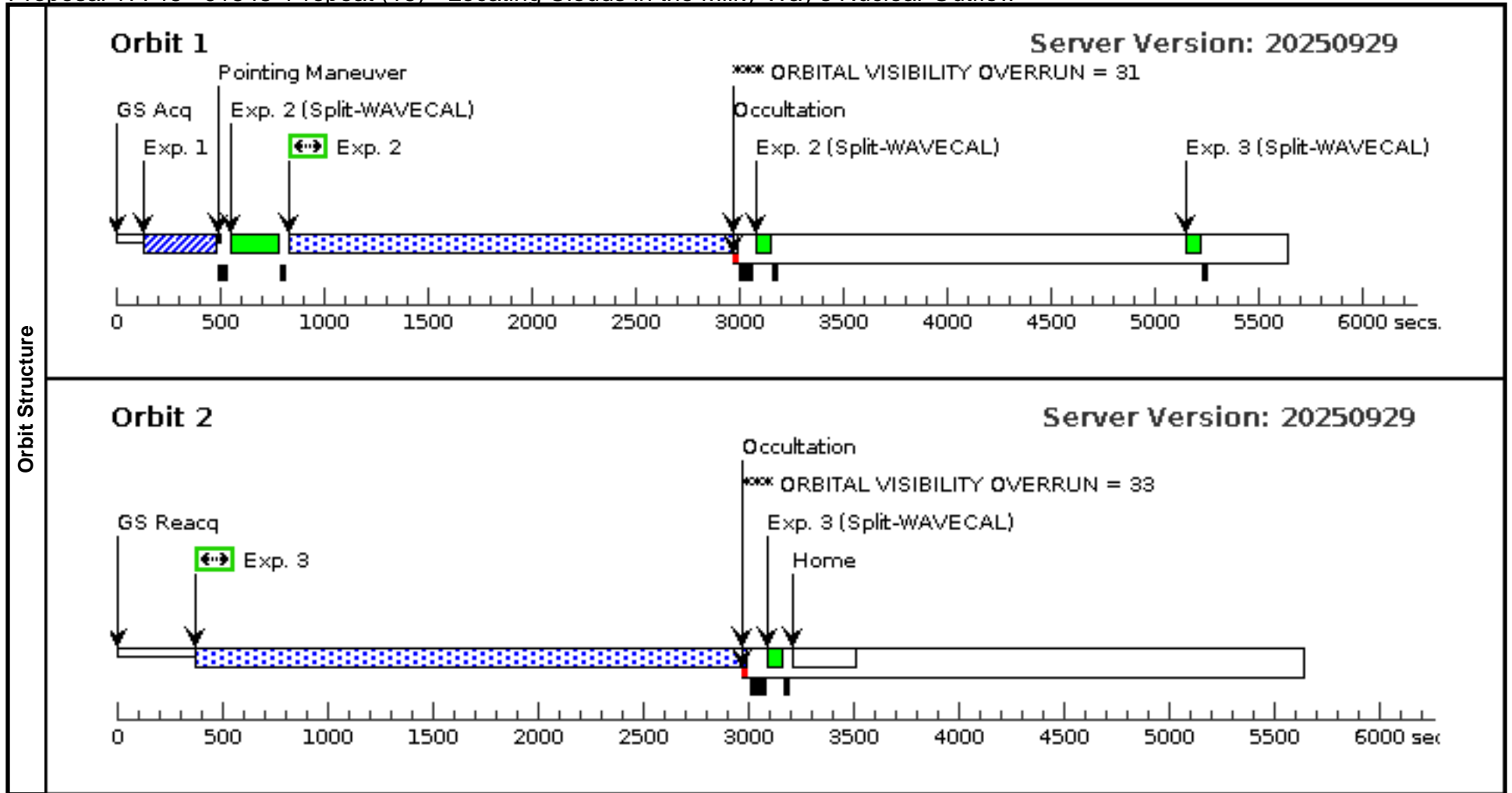




Proposal 17746 - J1548-1-repeat (16) - Locating Clouds in the Milky Way's Nuclear Outflow

Tue Apr 07 17:00:30 GMT 2026

Visit	Proposal 17746, J1548-1-repeat (16), failed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																
	Diagnosics (J1548-1-repeat (16)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser. (J1548-1-repeat (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J1548-1-repeat (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																
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>SDSSJ154825.80+052038.8</td> <td>RA: 15 48 25.8015 (237.1075063d) Dec: +05 20 38.87 (5.34413d) Equinox: J2000</td> <td>Proper Motion RA: -1.0967673105207091E-4 sec of time/yr Proper Motion Dec: -0.0072169999384641415 arcsec/yr Epoch of Position: 2015.5</td> <td>V=15.9 FUV=18.19 NUV=17.72</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=ISM Description=[ABSORPTION LINE SYSTEM - GALACTIC, HIGH VELOCITY CLOUD, INTERMEDIATE VELOCITY CLOUD] Extended=NO</p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(4)	SDSSJ154825.80+052038.8	RA: 15 48 25.8015 (237.1075063d) Dec: +05 20 38.87 (5.34413d) Equinox: J2000	Proper Motion RA: -1.0967673105207091E-4 sec of time/yr Proper Motion Dec: -0.0072169999384641415 arcsec/yr Epoch of Position: 2015.5	V=15.9 FUV=18.19 NUV=17.72	Reference Frame: ICRS																											
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																											
(4)	SDSSJ154825.80+052038.8	RA: 15 48 25.8015 (237.1075063d) Dec: +05 20 38.87 (5.34413d) Equinox: J2000	Proper Motion RA: -1.0967673105207091E-4 sec of time/yr Proper Motion Dec: -0.0072169999384641415 arcsec/yr Epoch of Position: 2015.5	V=15.9 FUV=18.19 NUV=17.72	Reference Frame: ICRS																																												
<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ACQ/IMAG E (1927428)</td> <td>(4) SDSSJ154825.80+052038.8</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>21 Secs (21 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>G160M/157 7-FPPOS3 (1857932)</td> <td>(4) SDSSJ154825.80+052038.8</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G160M 1577 A</td> <td>FP-POS=3; BUFFER-TIME=40 00</td> <td></td> <td></td> <td>2113 Secs (2113 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>G160M/157 7-FPPOS4 (1857932)</td> <td>(4) SDSSJ154825.80+052038.8</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G160M 1577 A</td> <td>FP-POS=4; BUFFER-TIME=40 00</td> <td></td> <td></td> <td>2570 Secs (2570 Secs) [==>]</td> <td>[2]</td> </tr> </tbody> </table>										#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	ACQ/IMAG E (1927428)	(4) SDSSJ154825.80+052038.8	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				21 Secs (21 Secs) [==>]	[1]	2	G160M/157 7-FPPOS3 (1857932)	(4) SDSSJ154825.80+052038.8	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=40 00			2113 Secs (2113 Secs) [==>]	[1]	3	G160M/157 7-FPPOS4 (1857932)	(4) SDSSJ154825.80+052038.8	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=4; BUFFER-TIME=40 00			2570 Secs (2570 Secs) [==>]	[2]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																								
1	ACQ/IMAG E (1927428)	(4) SDSSJ154825.80+052038.8	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				21 Secs (21 Secs) [==>]	[1]																																								
2	G160M/157 7-FPPOS3 (1857932)	(4) SDSSJ154825.80+052038.8	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=40 00			2113 Secs (2113 Secs) [==>]	[1]																																								
3	G160M/157 7-FPPOS4 (1857932)	(4) SDSSJ154825.80+052038.8	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=4; BUFFER-TIME=40 00			2570 Secs (2570 Secs) [==>]	[2]																																								



Proposal 17746 - J1548-1-repeat2 (26) - Locating Clouds in the Milky Way's Nuclear Outflow

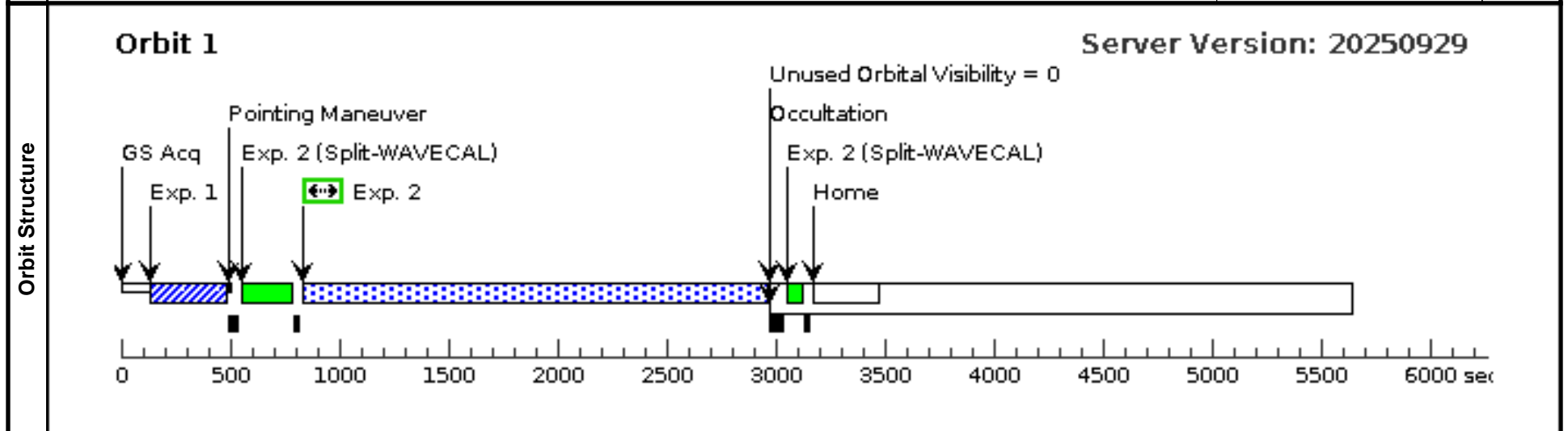
Tue Apr 07 17:00:30 GMT 2026

Visit	Proposal 17746, J1548-1-repeat2 (26)				
	Diagnostic Status: Warning				
	Scientific Instruments: COS/FUV, COS/NUV				
	Special Requirements: (none)				

Diagnostics	(J1548-1-repeat2 (26)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.				
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	SDSSJ154825.80+052038.8	RA: 15 48 25.8015 (237.1075063d) Dec: +05 20 38.87 (5.34413d) Equinox: J2000	Proper Motion RA: -1.0967673105207091E-4 sec of time/yr Proper Motion Dec: -0.0072169999384641415 arcsec/yr Epoch of Position: 2015.5	V=15.9 FUV=18.19 NUV=17.72	Reference Frame: ICRS
<i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i>						
<i>Category=ISM</i>						
<i>Description=[ABSORPTION LINE SYSTEM - GALACTIC, HIGH VELOCITY CLOUD, INTERMEDIATE VELOCITY CLOUD]</i>						
<i>Extended=NO</i>						

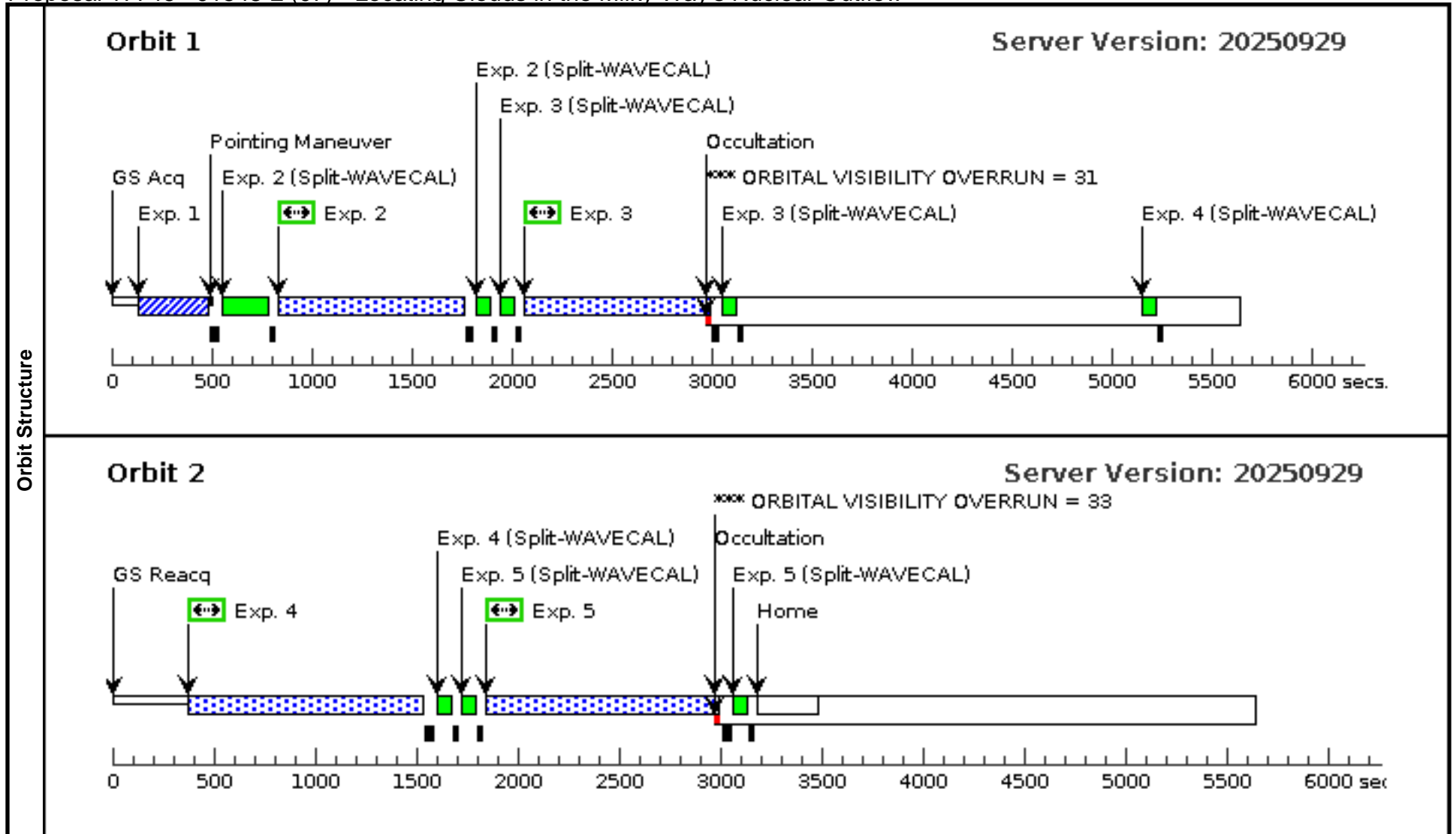
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ/IMAG E (1927428)	(4) SDSSJ154825.80 +052038.8	COS/NUV, ACQ/IMAGE, PSA	MIRRORB					21 Secs (21 Secs) [==>]
2	G160M/157 7-FPPOS3 (1857932)	(4) SDSSJ154825.80 +052038.8	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=40 00				2082 Secs (2082 Secs) [==>]	[1]



Proposal 17746 - J1548-2 (07) - Locating Clouds in the Milky Way's Nuclear Outflow

Tue Apr 07 17:00:30 GMT 2026

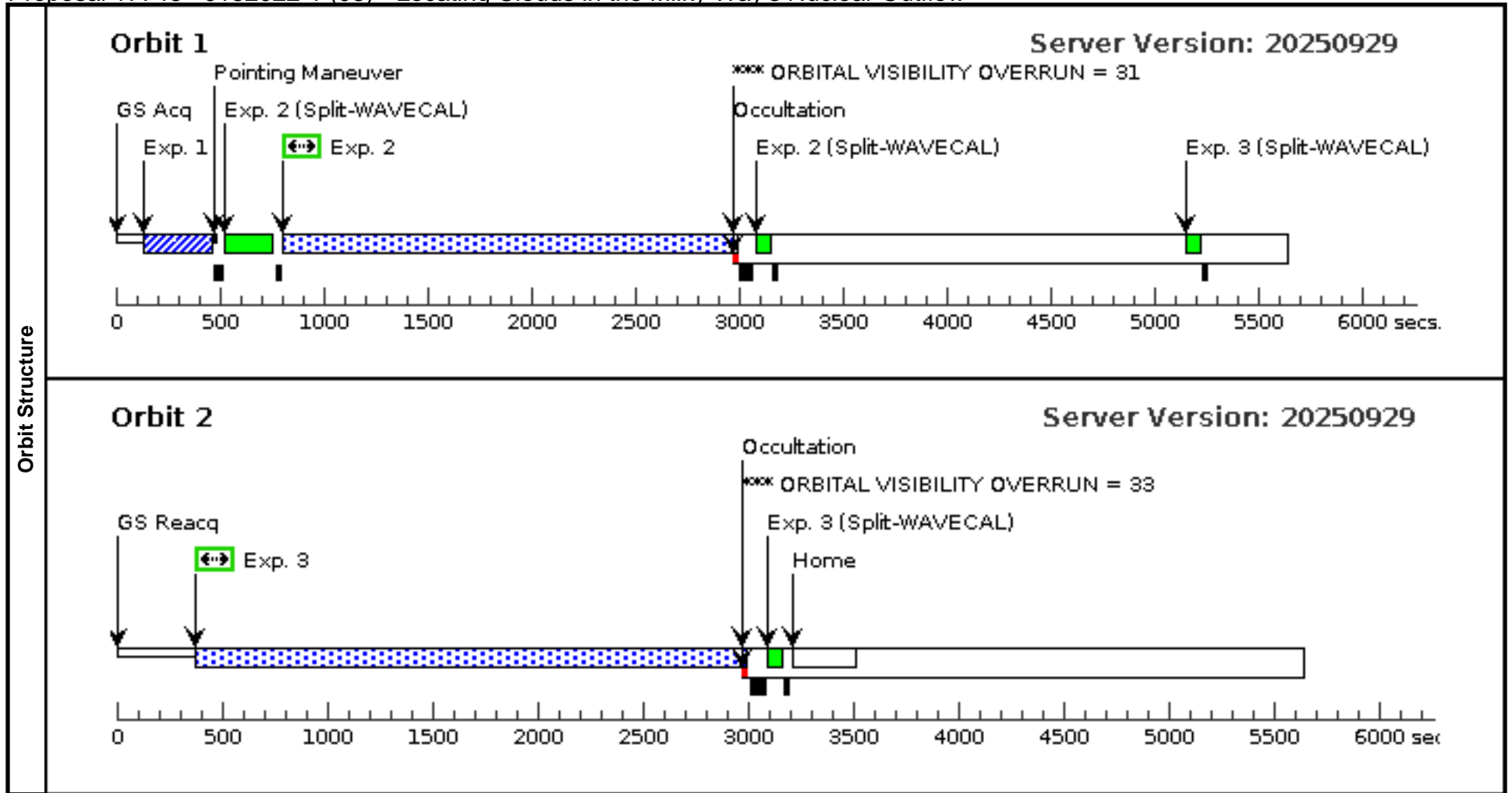
Visit	Proposal 17746, J1548-2 (07), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)											
	(J1548-2 (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J1548-2 (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous					
	(4)	SDSSJ154825.80+052038.8	RA: 15 48 25.8015 (237.1075063d) Dec: +05 20 38.87 (5.34413d) Equinox: J2000	Proper Motion RA: -1.0967673105207091E-4 sec of time/yr Proper Motion Dec: -0.0072169999384641415 arcsec/yr Epoch of Position: 2015.5		V=15.9 FUV=18.19 NUV=17.72	Reference Frame: ICRS					
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=ISM Description=[ABSORPTION LINE SYSTEM - GALACTIC, HIGH VELOCITY CLOUD, INTERMEDIATE 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 (1927428)	(4) SDSSJ154825.80 +052038.8	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				21 Secs (21 Secs)			
									[==>]		[1]	
	2	G160M/157 7-FPPOS1 (1857932)	(4) SDSSJ154825.80 +052038.8	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=1; BUFFER-TIME=40 00				880 Secs (880 Secs)		
									[==>]		[1]	
	3	G160M/157 7-FPPOS2 (1857932)	(4) SDSSJ154825.80 +052038.8	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=2; BUFFER-TIME=40 00				881 Secs (881 Secs)		
								[==>]		[1]		
4	G160M/157 7-FPPOS3 (1857932)	(4) SDSSJ154825.80 +052038.8	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=40 00				1105 Secs (1105 Secs)			
								[==>]		[2]		
5	G160M/157 7-FPPOS4 (1857932)	(4) SDSSJ154825.80 +052038.8	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=4; BUFFER-TIME=40 00				1104 Secs (1104 Secs)			
								[==>]		[2]		



Proposal 17746 - J152022-1 (08) - Locating Clouds in the Milky Way's Nuclear Outflow

Tue Apr 07 17:00:30 GMT 2026

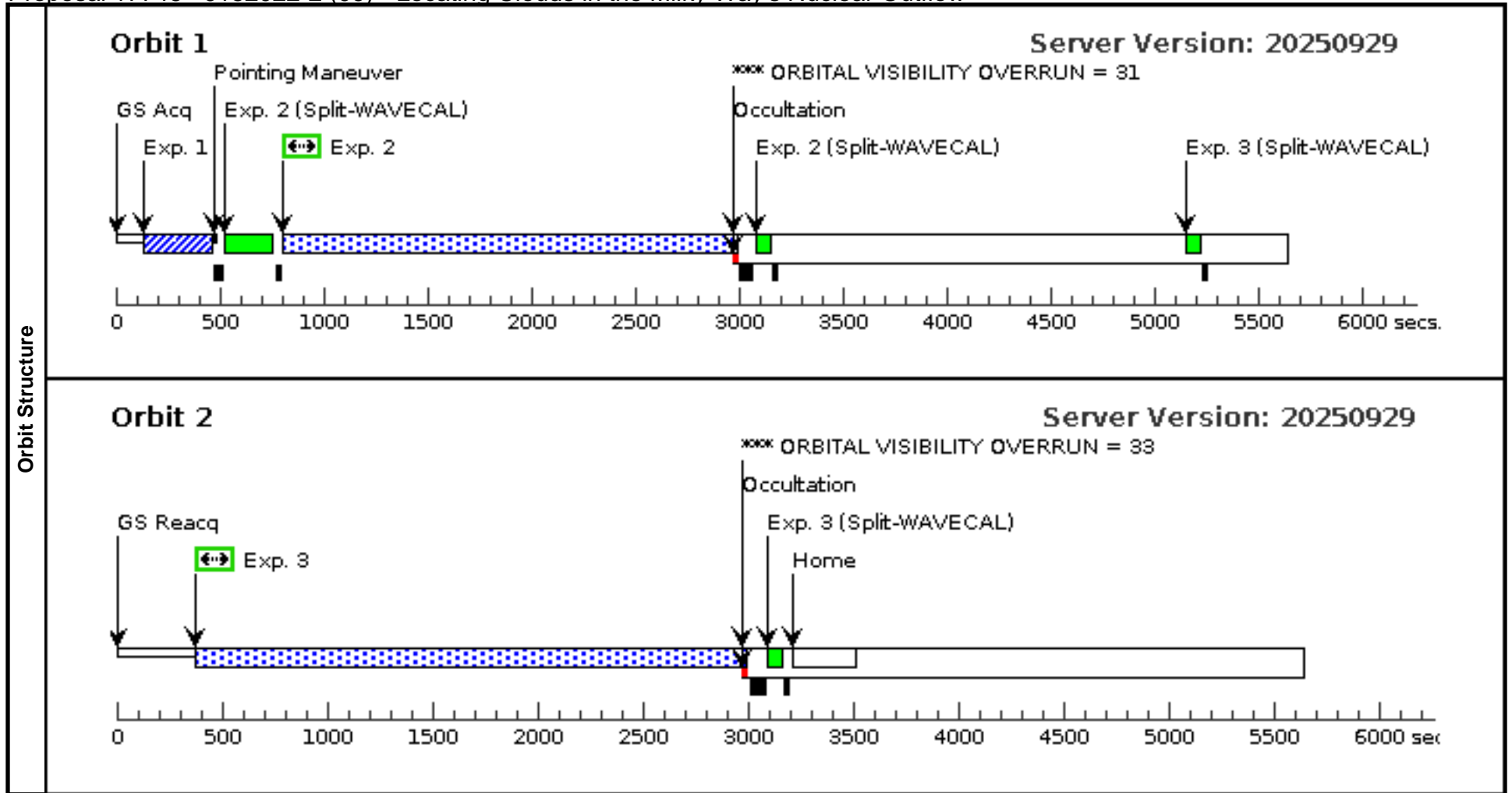
Visit	Proposal 17746, J152022-1 (08), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(J152022-1 (08)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser. (J152022-1 (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J152022-1 (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(5)	SDSSJ152022.68+060059.7	RA: 15 20 22.6863 (230.0945263d) Dec: +06 00 59.61 (6.01656d) Equinox: J2000	Proper Motion RA: -6.652644539079872E-4 sec of time/yr Proper Motion Dec: -0.01106499989873555 arcsec/yr Epoch of Position: 2015.5		V=14.9 FUV=17.80 NUV=16.93	Reference Frame: ICRS			
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=ISM Description=[ABSORPTION LINE SYSTEM - GALACTIC, HIGH VELOCITY CLOUD, INTERMEDIATE 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 (1927429)	(5) SDSSJ152022.68 +060059.7	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				10 Secs (10 Secs) [==>]	[1]
	2	G160M/157 7-FPPOS1 (1857932)	(5) SDSSJ152022.68 +060059.7	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=1; BUFFER-TIME=40 00			2135 Secs (2135 Secs) [==>]	[1]
	3	G160M/157 7-FPPOS2 (1857932)	(5) SDSSJ152022.68 +060059.7	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=2; BUFFER-TIME=40 00			2570 Secs (2570 Secs) [==>]	[2]



Proposal 17746 - J152022-2 (09) - Locating Clouds in the Milky Way's Nuclear Outflow

Tue Apr 07 17:00:30 GMT 2026

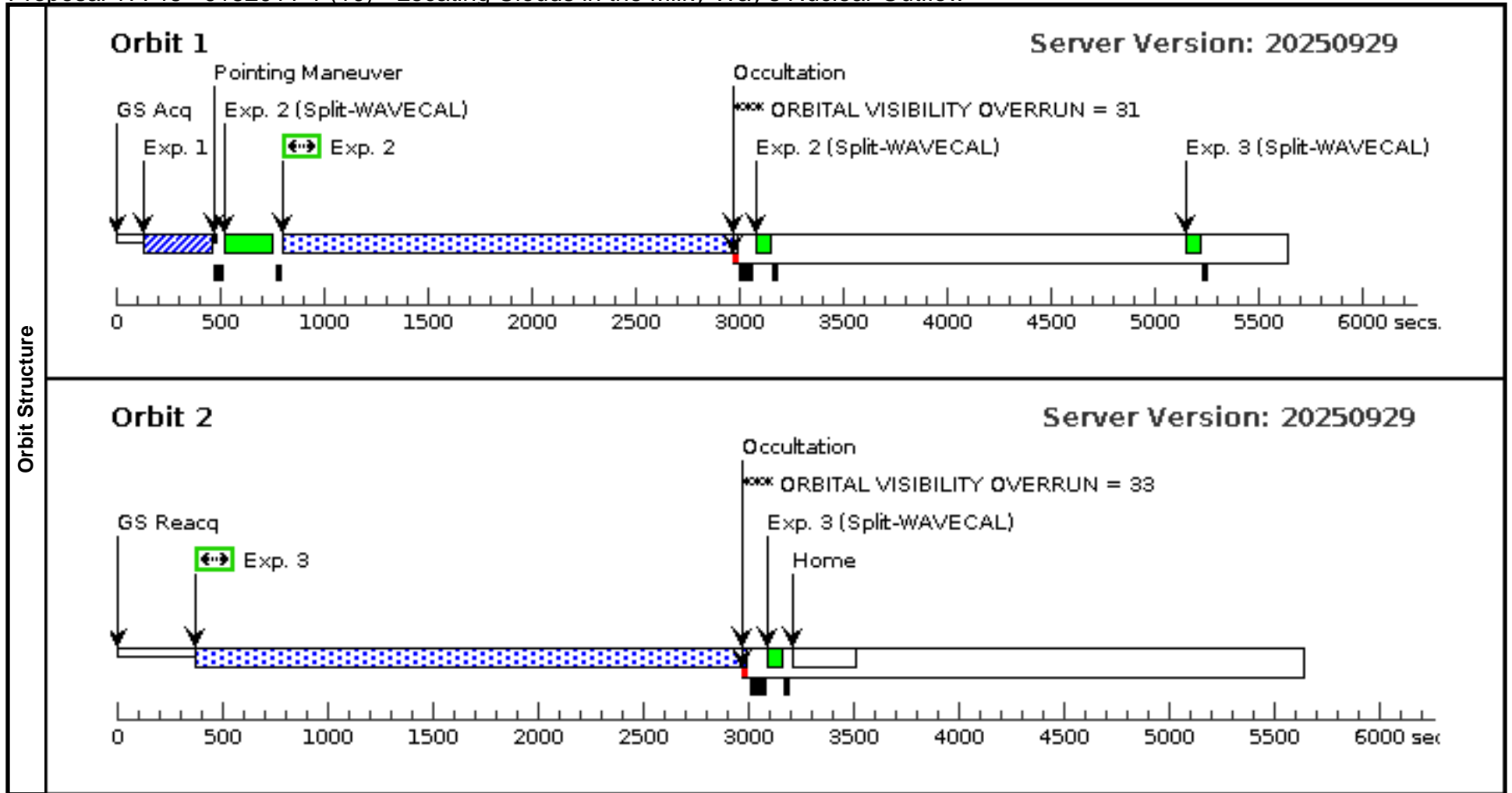
Visit	Proposal 17746, J152022-2 (09), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																
	Diagnosics (J152022-2 (09)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser. (J152022-2 (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J152022-2 (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																
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>(5)</td> <td>SDSSJ152022.68+060059.7</td> <td>RA: 15 20 22.6863 (230.0945263d) Dec: +06 00 59.61 (6.01656d) Equinox: J2000</td> <td>Proper Motion RA: -6.652644539079872E-4 sec of time/yr Proper Motion Dec: -0.01106499989873555 arcsec/yr Epoch of Position: 2015.5</td> <td>V=14.9 FUV=17.80 NUV=16.93</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> <i>Category=ISM</i> <i>Description=[ABSORPTION LINE SYSTEM - GALACTIC, HIGH VELOCITY CLOUD, INTERMEDIATE VELOCITY CLOUD]</i> <i>Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(5)	SDSSJ152022.68+060059.7	RA: 15 20 22.6863 (230.0945263d) Dec: +06 00 59.61 (6.01656d) Equinox: J2000	Proper Motion RA: -6.652644539079872E-4 sec of time/yr Proper Motion Dec: -0.01106499989873555 arcsec/yr Epoch of Position: 2015.5	V=14.9 FUV=17.80 NUV=16.93	Reference Frame: ICRS																											
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																											
(5)	SDSSJ152022.68+060059.7	RA: 15 20 22.6863 (230.0945263d) Dec: +06 00 59.61 (6.01656d) Equinox: J2000	Proper Motion RA: -6.652644539079872E-4 sec of time/yr Proper Motion Dec: -0.01106499989873555 arcsec/yr Epoch of Position: 2015.5	V=14.9 FUV=17.80 NUV=16.93	Reference Frame: ICRS																																												
<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ACQ/IMAG E (1927429)</td> <td>(5) SDSSJ152022.68 +060059.7</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>10 Secs (10 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>G160M/157 7-FPPOS3 (1857932)</td> <td>(5) SDSSJ152022.68 +060059.7</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G160M 1577 A</td> <td>FP-POS=3; BUFFER-TIME=40 00</td> <td></td> <td></td> <td>2135 Secs (2135 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>G160M/157 7-FPPOS4 (1857932)</td> <td>(5) SDSSJ152022.68 +060059.7</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G160M 1577 A</td> <td>FP-POS=4; BUFFER-TIME=40 00</td> <td></td> <td></td> <td>2570 Secs (2570 Secs) [==>]</td> <td>[2]</td> </tr> </tbody> </table>										#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	ACQ/IMAG E (1927429)	(5) SDSSJ152022.68 +060059.7	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				10 Secs (10 Secs) [==>]	[1]	2	G160M/157 7-FPPOS3 (1857932)	(5) SDSSJ152022.68 +060059.7	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=40 00			2135 Secs (2135 Secs) [==>]	[1]	3	G160M/157 7-FPPOS4 (1857932)	(5) SDSSJ152022.68 +060059.7	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=4; BUFFER-TIME=40 00			2570 Secs (2570 Secs) [==>]	[2]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																								
1	ACQ/IMAG E (1927429)	(5) SDSSJ152022.68 +060059.7	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				10 Secs (10 Secs) [==>]	[1]																																								
2	G160M/157 7-FPPOS3 (1857932)	(5) SDSSJ152022.68 +060059.7	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=40 00			2135 Secs (2135 Secs) [==>]	[1]																																								
3	G160M/157 7-FPPOS4 (1857932)	(5) SDSSJ152022.68 +060059.7	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=4; BUFFER-TIME=40 00			2570 Secs (2570 Secs) [==>]	[2]																																								



Proposal 17746 - J152011-1 (10) - Locating Clouds in the Milky Way's Nuclear Outflow

Tue Apr 07 17:00:30 GMT 2026

Visit	Proposal 17746, J152011-1 (10), failed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(J152011-1 (10)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser. (J152011-1 (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J152011-1 (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(6)	SDSSJ152011.62+081911.1	RA: 15 20 11.6252 (230.0484383d) Dec: +08 19 11.11 (8.31975d) Equinox: J2000	Proper Motion RA: -1.8110594671411762E-4 sec of time/yr Proper Motion Dec: -0.009797999928196077 arcsec/yr Epoch of Position: 2015.5		V=15.2 FUV=17.54 NUV=16.97	Reference Frame: ICRS			
Comments: This object was generated by the targetselector and retrieved from the SIMBAD database. Category=ISM Description=[ABSORPTION LINE SYSTEM - GALACTIC, HIGH VELOCITY CLOUD, INTERMEDIATE 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 (1927429)	(6) SDSSJ152011.62 +081911.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				10 Secs (10 Secs) [==>]	[1]
	2	G160M/157 7-FPPOS1 (1857932)	(6) SDSSJ152011.62 +081911.1	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=1; BUFFER-TIME=40 00			2135 Secs (2135 Secs) [==>]	[1]
	3	G160M/157 7-FPPOS2 (1857932)	(6) SDSSJ152011.62 +081911.1	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=2; BUFFER-TIME=40 00			2570 Secs (2570 Secs) [==>]	[2]



Proposal 17746 - J152011-1-repeat (30) - Locating Clouds in the Milky Way's Nuclear Outflow

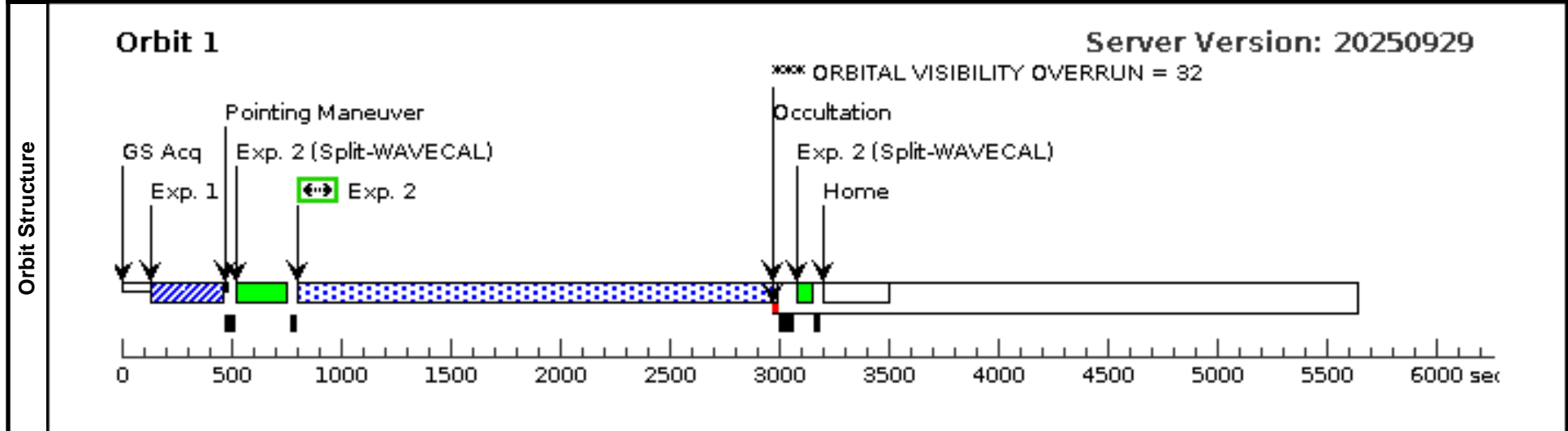
Tue Apr 07 17:00:30 GMT 2026

Visit	Proposal 17746, J152011-1-repeat (30), completed
	Diagnostic Status: Warning
	Scientific Instruments: COS/FUV, COS/NUV
	Special Requirements: (none)

Diagnostics	(J152011-1-repeat (30)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser.
	(J152011-1-repeat (30)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	SDSSJ152011.62+081911.1	RA: 15 20 11.6252 (230.0484383d) Dec: +08 19 11.11 (8.31975d) Equinox: J2000	Proper Motion RA: -1.8110594671411762E-4 sec of time/yr Proper Motion Dec: -0.009797999928196077 arcsec/yr Epoch of Position: 2015.5	V=15.2 FUV=17.54 NUV=16.97	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, HIGH VELOCITY CLOUD, INTERMEDIATE VELOCITY CLOUD] Extended=NO					

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IMAG E (1927429)	(6) SDSSJ152011.62 +081911.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				10 Secs (10 Secs) [==>]	[1]
2	G160M/157 7-FPPOS1 (1857932)	(6) SDSSJ152011.62 +081911.1	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=1; BUFFER-TIME=40 00			2136 Secs (2136 Secs) [==>]	[1]



Proposal 17746 - J152011-2 (11) - Locating Clouds in the Milky Way's Nuclear Outflow

Tue Apr 07 17:00:30 GMT 2026

Visit	Proposal 17746, J152011-2 (11), completed Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																
	Diagnosics (J152011-2 (11)) Warning (Form): For the best data quality, it is generally required to use all four FP-POS positions at a given COS cenwave (or 2 positions for certain exception cases). See extended explanation in the diagnostic browser. (J152011-2 (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (J152011-2 (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																																																
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>(6)</td> <td>SDSSJ152011.62+081911.1</td> <td>RA: 15 20 11.6252 (230.0484383d) Dec: +08 19 11.11 (8.31975d) Equinox: J2000</td> <td>Proper Motion RA: -1.8110594671411762E-4 sec of time/yr Proper Motion Dec: -0.009797999928196077 arcsec/yr Epoch of Position: 2015.5</td> <td>V=15.2 FUV=17.54 NUV=16.97</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> <i>Category=ISM</i> <i>Description=[ABSORPTION LINE SYSTEM - GALACTIC, HIGH VELOCITY CLOUD, INTERMEDIATE VELOCITY CLOUD]</i> <i>Extended=NO</i></p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(6)	SDSSJ152011.62+081911.1	RA: 15 20 11.6252 (230.0484383d) Dec: +08 19 11.11 (8.31975d) Equinox: J2000	Proper Motion RA: -1.8110594671411762E-4 sec of time/yr Proper Motion Dec: -0.009797999928196077 arcsec/yr Epoch of Position: 2015.5	V=15.2 FUV=17.54 NUV=16.97	Reference Frame: ICRS																											
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																											
(6)	SDSSJ152011.62+081911.1	RA: 15 20 11.6252 (230.0484383d) Dec: +08 19 11.11 (8.31975d) Equinox: J2000	Proper Motion RA: -1.8110594671411762E-4 sec of time/yr Proper Motion Dec: -0.009797999928196077 arcsec/yr Epoch of Position: 2015.5	V=15.2 FUV=17.54 NUV=16.97	Reference Frame: ICRS																																												
<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ACQ/IMAG E (1927429)</td> <td>(6) SDSSJ152011.62 +081911.1</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>10 Secs (10 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>G160M/157 7-FPPOS3 (1857932)</td> <td>(6) SDSSJ152011.62 +081911.1</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G160M 1577 A</td> <td>FP-POS=3; BUFFER-TIME=40 00</td> <td></td> <td></td> <td>2135 Secs (2135 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>G160M/157 7-FPPOS4 (1857932)</td> <td>(6) SDSSJ152011.62 +081911.1</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G160M 1577 A</td> <td>FP-POS=4; BUFFER-TIME=40 00</td> <td></td> <td></td> <td>2570 Secs (2570 Secs) [==>]</td> <td>[2]</td> </tr> </tbody> </table>										#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	ACQ/IMAG E (1927429)	(6) SDSSJ152011.62 +081911.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				10 Secs (10 Secs) [==>]	[1]	2	G160M/157 7-FPPOS3 (1857932)	(6) SDSSJ152011.62 +081911.1	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=40 00			2135 Secs (2135 Secs) [==>]	[1]	3	G160M/157 7-FPPOS4 (1857932)	(6) SDSSJ152011.62 +081911.1	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=4; BUFFER-TIME=40 00			2570 Secs (2570 Secs) [==>]	[2]
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																								
1	ACQ/IMAG E (1927429)	(6) SDSSJ152011.62 +081911.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				10 Secs (10 Secs) [==>]	[1]																																								
2	G160M/157 7-FPPOS3 (1857932)	(6) SDSSJ152011.62 +081911.1	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=40 00			2135 Secs (2135 Secs) [==>]	[1]																																								
3	G160M/157 7-FPPOS4 (1857932)	(6) SDSSJ152011.62 +081911.1	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=4; BUFFER-TIME=40 00			2570 Secs (2570 Secs) [==>]	[2]																																								

