



# 15227 - Finding the missing metals around the Universe's most prodigious polluters

Cycle: 25, 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) SDSSJ095823.44+065506.6	COS/FUV COS/NUV	4	28-May-2019 13:05:51.0	yes
59	(1) SDSSJ095823.44+065506.6	COS/FUV COS/NUV	3	28-May-2019 13:05:53.0	yes
02	(2) UVQSJ101124.51-044215.5	COS/FUV COS/NUV	2	28-May-2019 13:05:54.0	yes
03	(2) UVQSJ101124.51-044215.5	COS/FUV COS/NUV	2	28-May-2019 13:05:55.0	yes
04	(3) UVQSJ100826.52-273544.3	COS/FUV COS/NUV	3	28-May-2019 13:05:57.0	yes

Proposal 15227 (STScI Edit Number: 13, Created: Tuesday, May 28, 2019 at 12:06:19 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>
05	(4) UVQSJ133843.53+243003.0	COS/FUV COS/NUV	3	28-May-2019 13:05:58.0	yes
06	(4) UVQSJ133843.53+243003.0	COS/FUV COS/NUV	2	28-May-2019 13:05:59.0	yes
07	(5) SDSS-J133833.06+251640.6	COS/FUV COS/NUV	2	28-May-2019 13:06:00.0	yes
08	(6) 130101.94+130227.1	COS/FUV COS/NUV	3	28-May-2019 13:06:01.0	yes
09	(6) 130101.94+130227.1	COS/FUV COS/NUV	2	28-May-2019 13:06:02.0	yes
10	(7) SDSSJ130223.12+140609.0	COS/FUV COS/NUV	2	28-May-2019 13:06:03.0	yes
13	(7) SDSSJ130223.12+140609.0	COS/FUV COS/NUV	2	28-May-2019 13:06:04.0	yes
12	(8) MARK-1447	COS/FUV COS/NUV	2	28-May-2019 13:06:06.0	yes
11	(8) MARK-1447	COS/FUV COS/NUV	2	28-May-2019 13:06:07.0	yes
14	(9) PG1001+054	COS/FUV COS/NUV	3	28-May-2019 13:06:08.0	yes
15	(10) 2MASX-J10053271-2417161	COS/FUV COS/NUV	3	28-May-2019 13:06:10.0	yes
57	(10) 2MASX-J10053271-2417161	COS/FUV COS/NUV	2	28-May-2019 13:06:11.0	yes
58	(10) 2MASX-J10053271-2417161	COS/FUV COS/NUV	2	28-May-2019 13:06:11.0	yes
16	(10) 2MASX-J10053271-2417161	COS/FUV COS/NUV	3	28-May-2019 13:06:13.0	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>
17	(11) IC-909	COS/FUV COS/NUV	3	28-May-2019 13:06:14.0	yes
18	(12) PGC-1440438	COS/FUV COS/NUV	3	28-May-2019 13:06:16.0	yes
19	(12) PGC-1440438	COS/FUV COS/NUV	4	28-May-2019 13:06:17.0	yes
53	(2) UVQSJ101124.51-044215.5	COS/FUV COS/NUV	2	28-May-2019 13:06:18.0	yes
55	(4) UVQSJ133843.53+243003.0	COS/FUV COS/NUV	3	28-May-2019 13:06:19.0	yes

62 Total Orbits Used

## **ABSTRACT**

Analysis of the Hubble Deep Fields reveals that star-formation in the early universe is dominated by the faintest galaxies detected, and the formation and evolution of these dwarf galaxies drives the reionization, enrichment, and subsequent formation of more massive systems. In tandem, two decades of cosmological simulations have at least reached one consensus: reproducing realistic galaxy populations critically depends on the treatment of galactic feedback. Stellar and galactic winds regulate star formation but also distribute metal-enriched gas throughout the interstellar medium (ISM), into the circumgalactic medium (CGM), and beyond. Thus, a firm theoretical foundation to our understanding of galaxy evolution hinges on reproducing the enrichment and transport of heavy elements through the stars, ISM, CGM, and intergalactic medium. Current technology affords a detailed census of the metals currently in stars as well as those produced over the star formation history only in local analogs to the early dwarf polluters. Meanwhile, QSO absorption line spectroscopy can constrain the CGM component. We propose observations of UV-bright QSOs that probe the CGM of a sample of very-nearby low-mass dwarf galaxies for which the HST archive contains imaging suitable to constrain the metal production history, and the QSO spectra will enable us to 1) search for metal-enriched CGM material both at the velocities of the dwarfs and at high velocities characteristic of outflows, 2) estimate the mass of total carbon residing in these dwarf galaxy halos, and 3) compare these derived masses or limits with the amount of missing metal mass from the inner galactic regions.

## **OBSERVING DESCRIPTION**

We have selected 12 UV-bright AGN targets, which probe the circumgalactic media of  $z \sim 0$  local dwarf galaxies, to observe with HST-COS. Our science goals depend critically on coverage of the C II 1334 Angstrom and C IV 1548,1550 Angstrom lines from which we will measure the covering fractions of these species and constrain the total carbon mass. Therefore, the calculated exposure times should provide  $S/N = 10$  at the  $z=0.001$  observed wavelengths of the C II and C IV 1548 lines. With standard configurations using the G130M and G160M gratings, we can also easily cover transitions of Si II, Si III, Si IV, and N V, and these lines will help corroborate detections of C II and C IV as well as provide further constraints on the mass modeling if detected.

All of our target galaxies have similar redshifts ( $z \sim 0.001$ ), so all of our AGN targets can employ the same grating/cenwave settings. Our Phase I proposal stated that we would employ the G130M/1291 and G130M/1308 cenwave settings to fill in the detector gap between Segments A and B; however, due to the COS 2025 restrictions, Segment B must be turned off for G130M/1308 observations. To maintain maximum wavelength coverage, we have opted to use only G130M/1291, for which Segment B may still be used under COS2025. We understand that this will leave a segment gap in the data but have concluded that the location of the gap in wavelength will not impact our science goals. Our Contact Scientist is aware of this decision and has agreed that our modified observing plan is a simple and effective adjustment. Also due to COS2025, the G130M/1291 mode only permits FP-POS 3 & 4 settings, and we will employ both these FP-POS for each of our targets.

Our G160M observations will employ the 1600 and 1623 cenwave settings, and 8 of our targets will employ all 4 FP-POS for each cenwave. However, we have requested visit configurations that employ fewer than 4 FP-POS per cenwave for 4 of our targets; this request has been approved by the COS Support Lead. Although these configurations do not employ all FP-POS for each grating, at least 2 FP-POS are used at each of the two G160M cenwaves for each target. Per the advice of our Contact Scientist, this combination of cenwaves and FP-POS should spread out the gain sag-affected regions on the detector (especially Segment B) appropriately.

Per the recommendations for Cycle 25 to keep visits at 2-3 orbits maximum for scheduling purposes, we have kept all visits at 3 orbits or less except for one target, J0958+0655. We are requesting a 4-orbit visit for this single target to avoid the  $\sim 500$  sec loss in overhead for a reacquisition at the start of a second visit.

All acquisition images will be obtained in the NUV, and we have calculated all exposure times for these images using the acquisition image ETC with the appropriate NUV magnitude from GALEX. The exposure times should yield  $S/N=45$ , exceeding the minimum  $S/N=40$ . For targets faint enough in the NUV, we acquire using Mirror A; however, we will use Mirror B for objects that exceed the count rate limit with Mirror A.

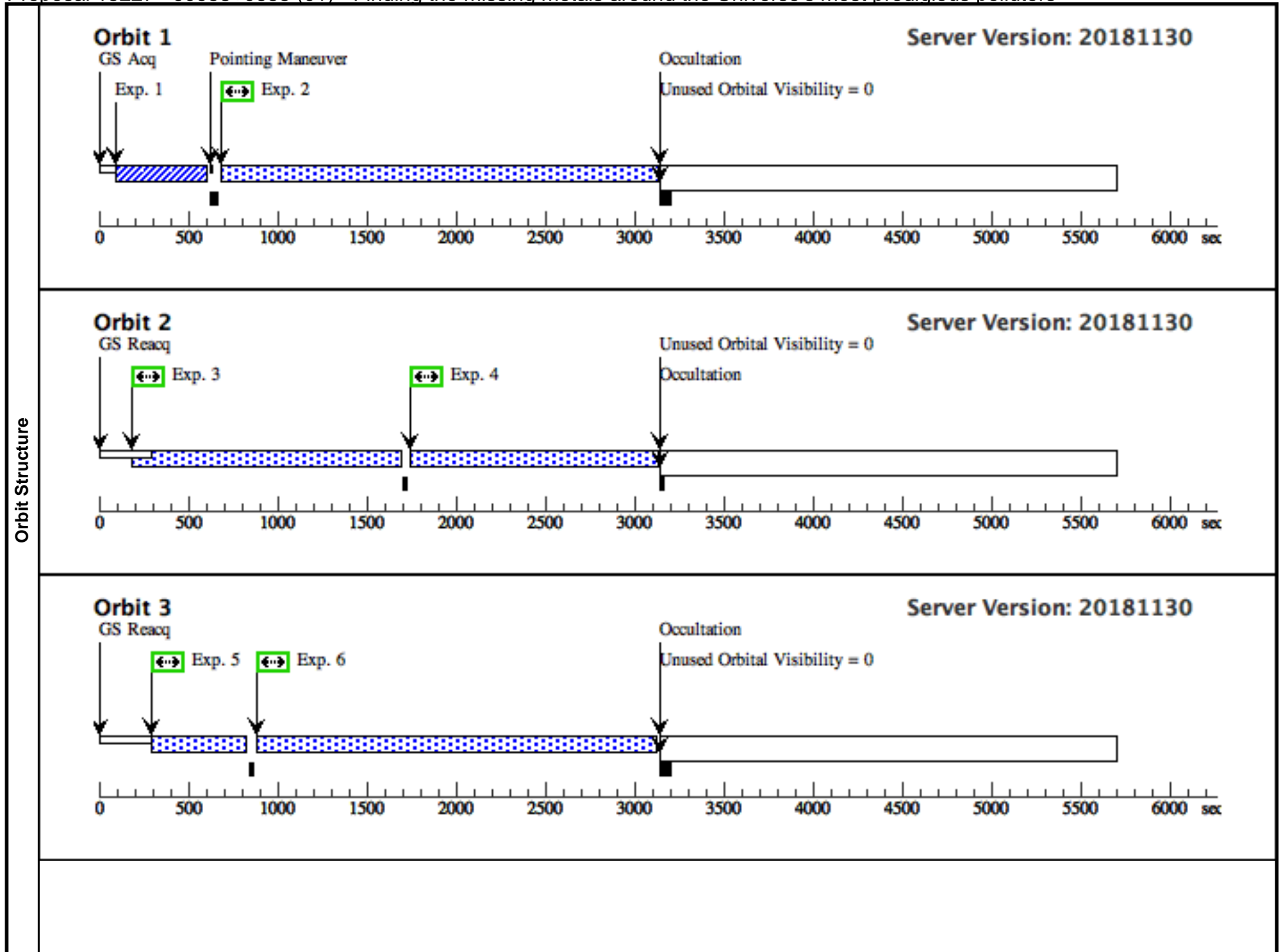
Proposal 15227 - J0958+0655 (01) - Finding the missing metals around the Universe's most prodigious polluters

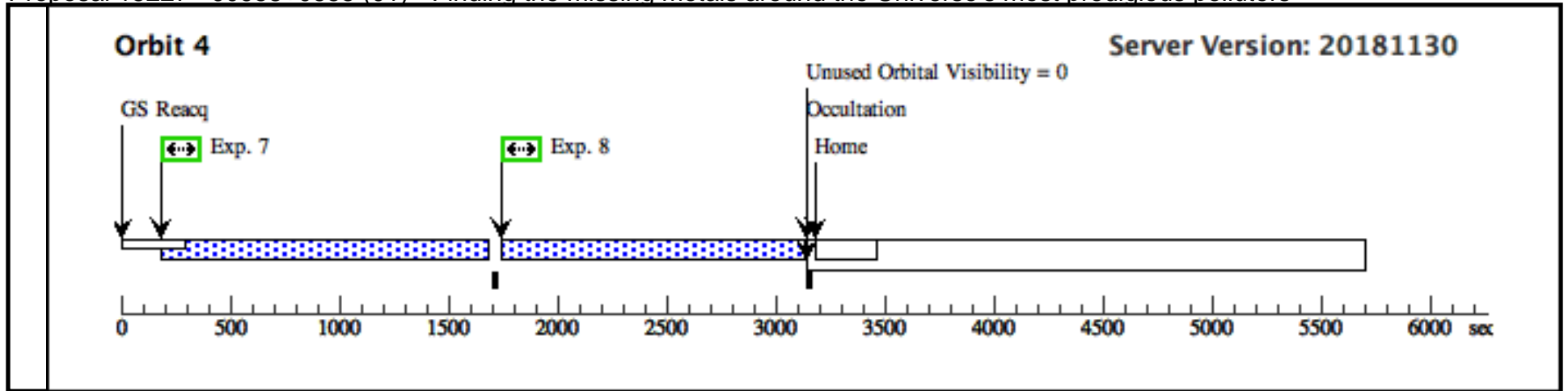
Tue May 28 17:06:19 GMT 2019

<b>Visit</b>	<p><b>Proposal 15227, J0958+0655 (01), failed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: In the interest of S/N in the spectral regions critical to our science goals, we have opted to use 3 FP-POS settings for our G160M/1623 observations and 2 FP-POS settings G160M/1600. The COS User Support Lead has approved our request for this observing plan.</i></p>																	
	<p><b>Diagnosics</b></p> <p>(J0958+0655 (01)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p>																	
<b>Fixed Targets</b>	<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>SDSSJ095823.44+065506.6</td> <td>RA: 09 58 23.4400 (149.5976667d) Dec: +06 55 6.59 (6.91850d) Equinox: J2000</td> <td>Redshift: 0.345</td> <td>V= 17.59+/-0.005 FUV mag: 17.81, NUV mag: 17.67</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: The V magnitude above has been converted from SDSS DR12 g- and r-band photometry using the Lupton (2005) filter transformations provided by SDSS at <a href="http://www.sdss.org/dr13/algorithms/sdssUBVRITransform/#Lupton2005">http://www.sdss.org/dr13/algorithms/sdssUBVRITransform/#Lupton2005</a>.</i></p> <p><i>We are not aware of any variability in this target.</i></p> <p>Category=EXT-MEDIUM</p> <p>Description=[ABSORPTION LINE SYSTEM, ABSORPTION LINE SYSTEM - EXTRAGALACTIC, HALO]</p> <p>Extended=NO</p>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	SDSSJ095823.44+065506.6	RA: 09 58 23.4400 (149.5976667d) Dec: +06 55 6.59 (6.91850d) Equinox: J2000	Redshift: 0.345	V= 17.59+/-0.005 FUV mag: 17.81, NUV mag: 17.67	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(1)	SDSSJ095823.44+065506.6	RA: 09 58 23.4400 (149.5976667d) Dec: +06 55 6.59 (6.91850d) Equinox: J2000	Redshift: 0.345	V= 17.59+/-0.005 FUV mag: 17.81, NUV mag: 17.67	Reference Frame: ICRS													

Proposal 15227 - J0958+0655 (01) - Finding the missing metals around the Universe's most prodigious polluters

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
<b>Exposures</b>	1	(COS.ta.101 3762)	(1) SDSSJ095823.44 +065506.6	COS/NUV, ACQ/IMAGE, PSA	MIRRORB			110 Secs (110 Secs) [==>]	[1]
	2	(COS.sp.101 3763)	(1) SDSSJ095823.44 +065506.6	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=41 55; FP-POS=3		2280 Secs (2280 Secs) [==>]	[1]
	3	(COS.sp.101 3765)	(1) SDSSJ095823.44 +065506.6	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=13 517; FP-POS=1; SEGMENT=BOTH		1336 Secs (1336 Secs) [==>]	[2]
	4	(COS.sp.101 3765)	(1) SDSSJ095823.44 +065506.6	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=13 517; FP-POS=2; SEGMENT=BOTH		1336 Secs (1336 Secs) [==>]	[2]
	5	(COS.sp.101 3766)	(1) SDSSJ095823.44 +065506.6	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=13 517; FP-POS=3; SEGMENT=BOTH		482 Secs (482 Secs) [==>]	[3]
	6	(COS.sp.101 3764)	(1) SDSSJ095823.44 +065506.6	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=41 55		2068 Secs (2068 Secs) [==>]	[3]
	7	(COS.sp.101 3767)	(1) SDSSJ095823.44 +065506.6	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 968; FP-POS=1; SEGMENT=BOTH		1336 Secs (1336 Secs) [==>]	[4]
	8	(COS.sp.101 3767)	(1) SDSSJ095823.44 +065506.6	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 968; FP-POS=2; SEGMENT=BOTH		1336 Secs (1336 Secs) [==>]	[4]





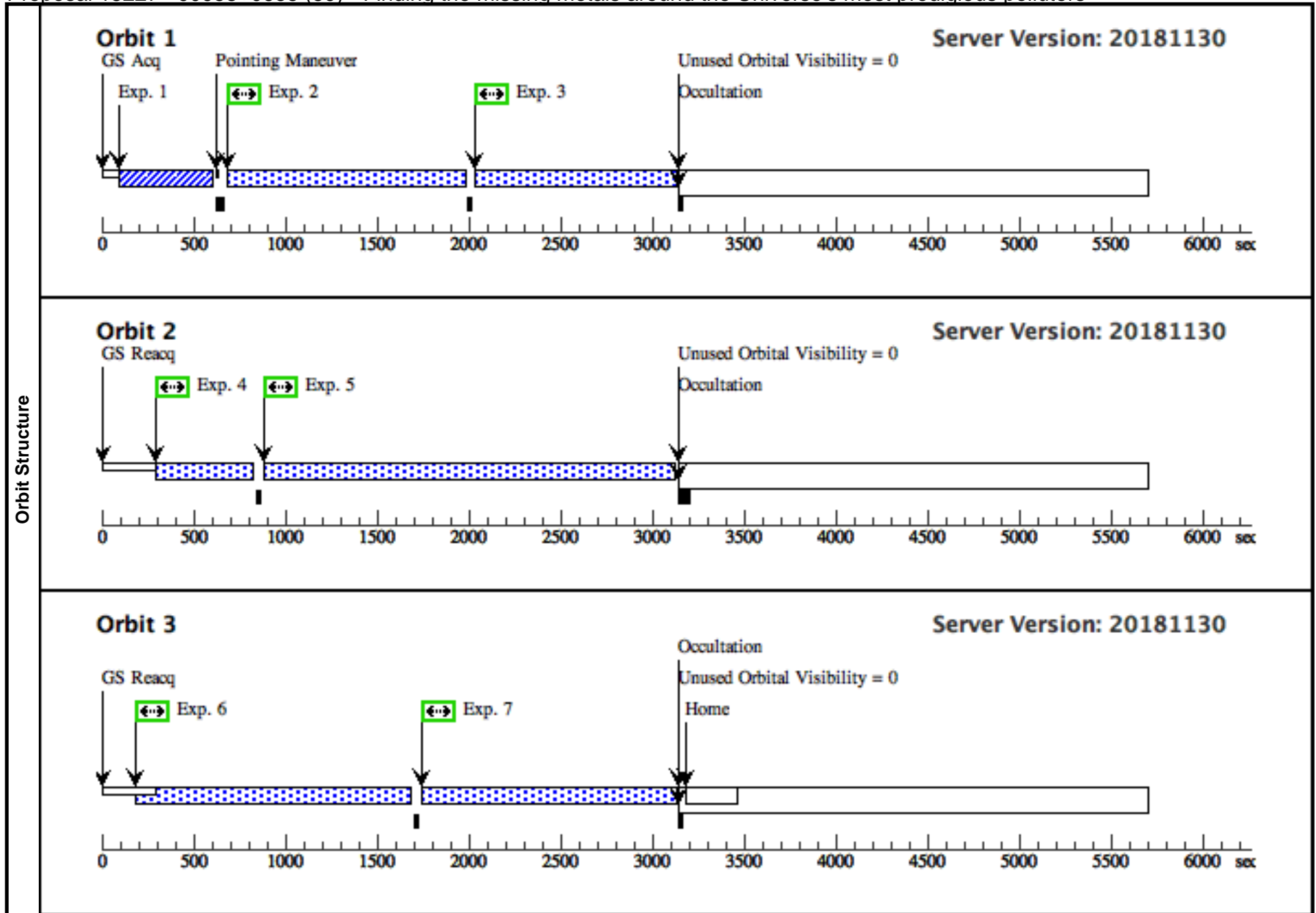
Proposal 15227 - J0958+0655 (59) - Finding the missing metals around the Universe's most prodigious polluters

Tue May 28 17:06:19 GMT 2019

<b>Visit</b>	<p><b>Proposal 15227, J0958+0655 (59), implementation</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: In the interest of S/N in the spectral regions critical to our science goals, we have opted to use 3 FP-POS settings for our G160M/1623 observations and 2 FP-POS settings G160M/1600. The COS User Support Lead has approved our request for this observing plan.</i></p>																	
	<p>(J0958+0655 (59)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(Exposure 1 (J0958+0655 (59))) Warning (Form): Sensitive exposures should have an ETC run number provided.</p>																	
<b>Diagnosics</b>																		
<b>Fixed Targets</b>	<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>SDSSJ095823.44+065506.6</td> <td>RA: 09 58 23.4400 (149.5976667d) Dec: +06 55 6.59 (6.91850d) Equinox: J2000</td> <td>Redshift: 0.345</td> <td>V= 17.59+/-0.005 FUV mag: 17.81, NUV mag: 17.67</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	SDSSJ095823.44+065506.6	RA: 09 58 23.4400 (149.5976667d) Dec: +06 55 6.59 (6.91850d) Equinox: J2000	Redshift: 0.345	V= 17.59+/-0.005 FUV mag: 17.81, NUV mag: 17.67	Reference Frame: ICRS	<p><i>Comments: The V magnitude above has been converted from SDSS DR12 g- and r-band photometry using the Lupton (2005) filter transformations provided by SDSS at <a href="http://www.sdss.org/dr13/algorithms/sdssUBVRITransform/#Lupton2005">http://www.sdss.org/dr13/algorithms/sdssUBVRITransform/#Lupton2005</a>.</i></p> <p><i>We are not aware of any variability in this target.</i></p> <p><i>Category=EXT-MEDIUM</i></p> <p><i>Description=[ABSORPTION LINE SYSTEM, ABSORPTION LINE SYSTEM - EXTRAGALACTIC, HALO]</i></p> <p><i>Extended=NO</i></p>				
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(1)	SDSSJ095823.44+065506.6	RA: 09 58 23.4400 (149.5976667d) Dec: +06 55 6.59 (6.91850d) Equinox: J2000	Redshift: 0.345	V= 17.59+/-0.005 FUV mag: 17.81, NUV mag: 17.67	Reference Frame: ICRS													

Proposal 15227 - J0958+0655 (59) - Finding the missing metals around the Universe's most prodigious polluters

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) SDSSJ095823.44 +065506.6	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				110 Secs (110 Secs) [==>]	[1]
	2	(COS.sp.101 3765)	(1) SDSSJ095823.44 +065506.6	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=13 517; FP-POS=1; SEGMENT=BOTH			1076 Secs (1076 Secs) [==>]	[1]
	3	(COS.sp.101 3765)	(1) SDSSJ095823.44 +065506.6	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=13 517; FP-POS=2; SEGMENT=BOTH			1046 Secs (1046 Secs) [==>]	[1]
	4	(COS.sp.101 3766)	(1) SDSSJ095823.44 +065506.6	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=13 517; FP-POS=3; SEGMENT=BOTH			482 Secs (482 Secs) [==>]	[2]
	5	(COS.sp.101 3764)	(1) SDSSJ095823.44 +065506.6	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=41 55			2068 Secs (2068 Secs) [==>]	[2]
	6	(COS.sp.101 3767)	(1) SDSSJ095823.44 +065506.6	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 968; FP-POS=1; SEGMENT=BOTH			1336 Secs (1336 Secs) [==>]	[3]
	7	(COS.sp.101 3767)	(1) SDSSJ095823.44 +065506.6	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 968; FP-POS=2; SEGMENT=BOTH			1336 Secs (1336 Secs) [==>]	[3]



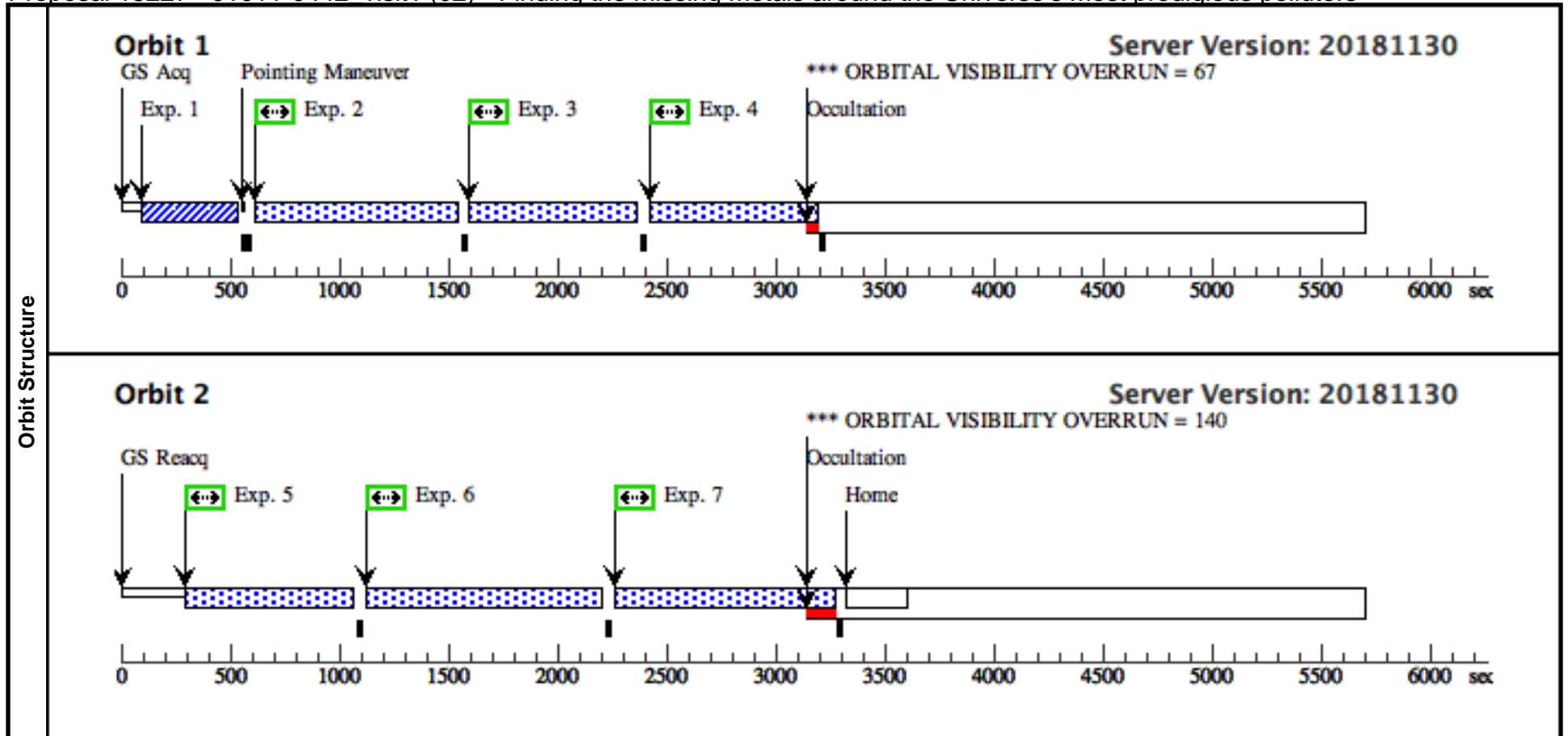
Proposal 15227 - J1011-0442\_visit1 (02) - Finding the missing metals around the Universe's most prodigious polluters

Tue May 28 17:06:20 GMT 2019

<b>Visit</b>	<p><b>Proposal 15227, J1011-0442_visit1 (02), completed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: In the interest of S/N in the spectral regions critical to our science goals, we are employing 3 FP-POS settings for our G160M/1623 observations of this target instead of all 4. The COS User Support Lead has approved our request for this observing plan.</i></p>					
<b>Diagnostics</b>	<p>(J1011-0442_visit1 (02)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(J1011-0442_visit1 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(J1011-0442_visit1 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>					
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(2)	UVQSI101124.51-044215.5	RA: 10 11 24.4700 (152.8519583d) Dec: -04 42 16.35 (-4.70454d) Equinox: J2000	Redshift: 0.519	V=17.01+/-0.013 FUV mag: 17.74, NUV mag: 17.22	Reference Frame: ICRS
	<p><i>Comments: Coordinates given here come from the PanSTARRS database. These coordinates agree with those given by 2MASS within 0.05 arcsec. We have adopted 0.1 arcsec as a conservative uncertainty.</i></p> <p><i>The V magnitude above has been converted from PanSTARRS g- and r-band photometry using the Lupton (2005) filter transformations provided by SDSS at <a href="http://www.sdss.org/dr13/algorithms/sdssUBVRITransform/#Lupton2005">http://www.sdss.org/dr13/algorithms/sdssUBVRITransform/#Lupton2005</a>.</i></p> <p><i>We are not aware of any variability in this target.</i></p> <p><i>Category=EXT-MEDIUM</i></p> <p><i>Description=[ABSORPTION LINE SYSTEM - EXTRAGALACTIC, EJECTA, HALO, WIND]</i></p> <p><i>Extended=NO</i></p>					

Proposal 15227 - J1011-0442 visit1 (02) - Finding the missing metals around the Universe's most prodigious polluters

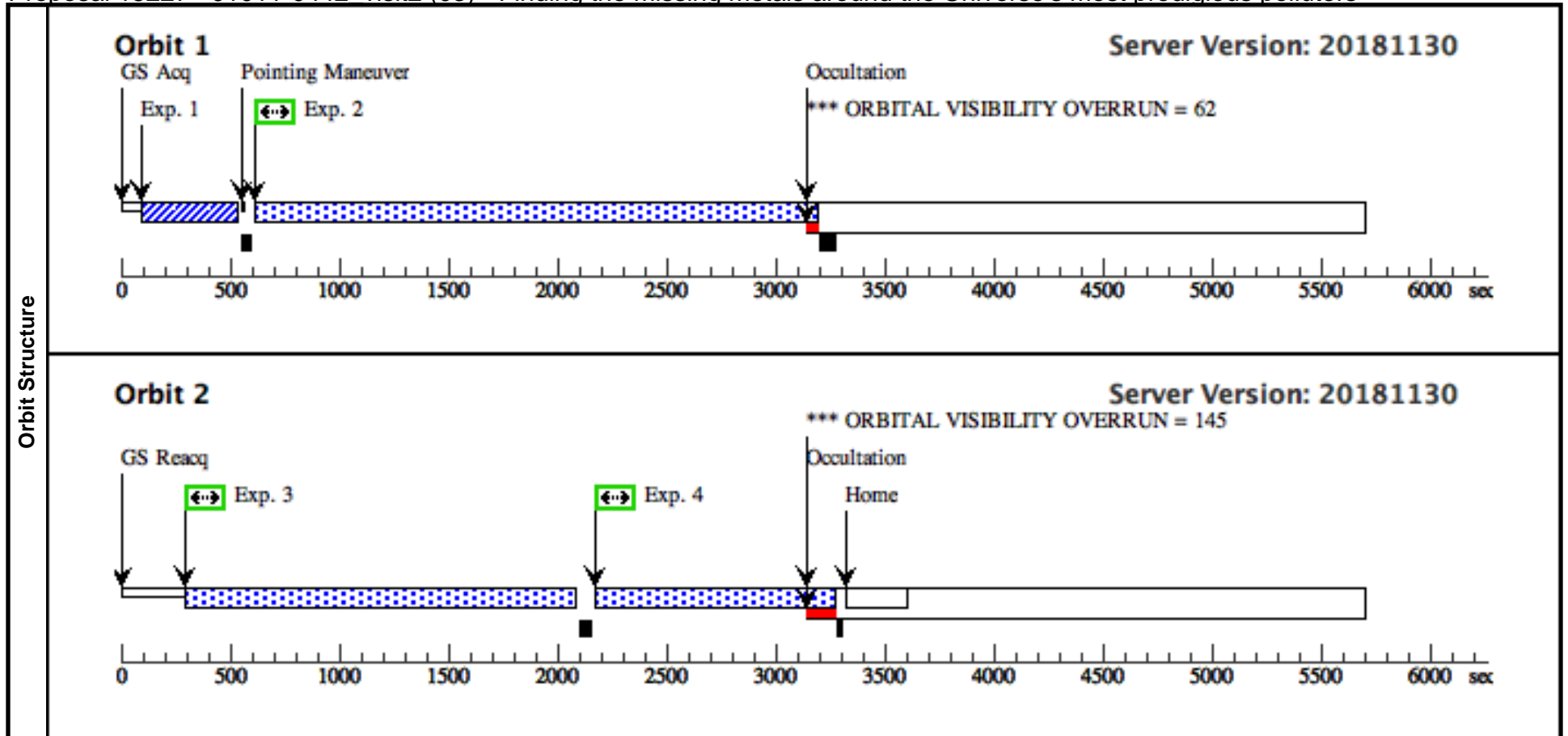
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	J1011-0442 _acq (COS.ta.101 0580)	(2) UVQSJ101124.5 1-044215.5	COS/NUV, ACQ/IMAGE, PSA	MIRRORB					75 Secs (75 Secs) [==>]	[1]
	2	(COS.sp.101 3775)	(2) UVQSJ101124.5 1-044215.5	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 533; FP-POS=1; SEGMENT=BOTH			719 Secs (719 Secs) [==>]	[1]	
	3	(COS.sp.101 3775)	(2) UVQSJ101124.5 1-044215.5	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 533; FP-POS=2; SEGMENT=BOTH			719 Secs (719 Secs) [==>]	[1]	
	4	(COS.sp.101 3768)	(2) UVQSJ101124.5 1-044215.5	COS/FUV, TIME-TAG, PSA	G160M 1600 A	SEGMENT=BOTH; BUFFER-TIME=12 533; FP-POS=3			719 Secs (719 Secs) [==>]	[1]	
	5	(COS.sp.101 3775)	(2) UVQSJ101124.5 1-044215.5	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=12 533; SEGMENT=BOTH; FP-POS=4			719 Secs (719 Secs) [==>]	[2]	
	6	(COS.sp.101 3777)	(2) UVQSJ101124.5 1-044215.5	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=13 080; FP-POS=1; SEGMENT=BOTH			956 Secs (956 Secs) [==>]	[2]	
	7	(COS.sp.101 3779)	(2) UVQSJ101124.5 1-044215.5	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=13 080; FP-POS=2; SEGMENT=BOTH			955 Secs (955 Secs) [==>]	[2]	



Proposal 15227 - J1011-0442\_visit2 (03) - Finding the missing metals around the Universe's most prodigious polluters

Tue May 28 17:06:20 GMT 2019

<b>Visit</b>	<p><b>Proposal 15227, J1011-0442_visit2 (03), failed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: In the interest of S/N in the spectral regions critical to our science goals, we are employing 3 FP-POS settings for our G160M/1623 observations of this target instead of all 4. The COS User Support Lead has approved our request for this observing plan.</i></p>																																																						
	<p>(J1011-0442_visit2 (03)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(J1011-0442_visit2 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(J1011-0442_visit2 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>																																																						
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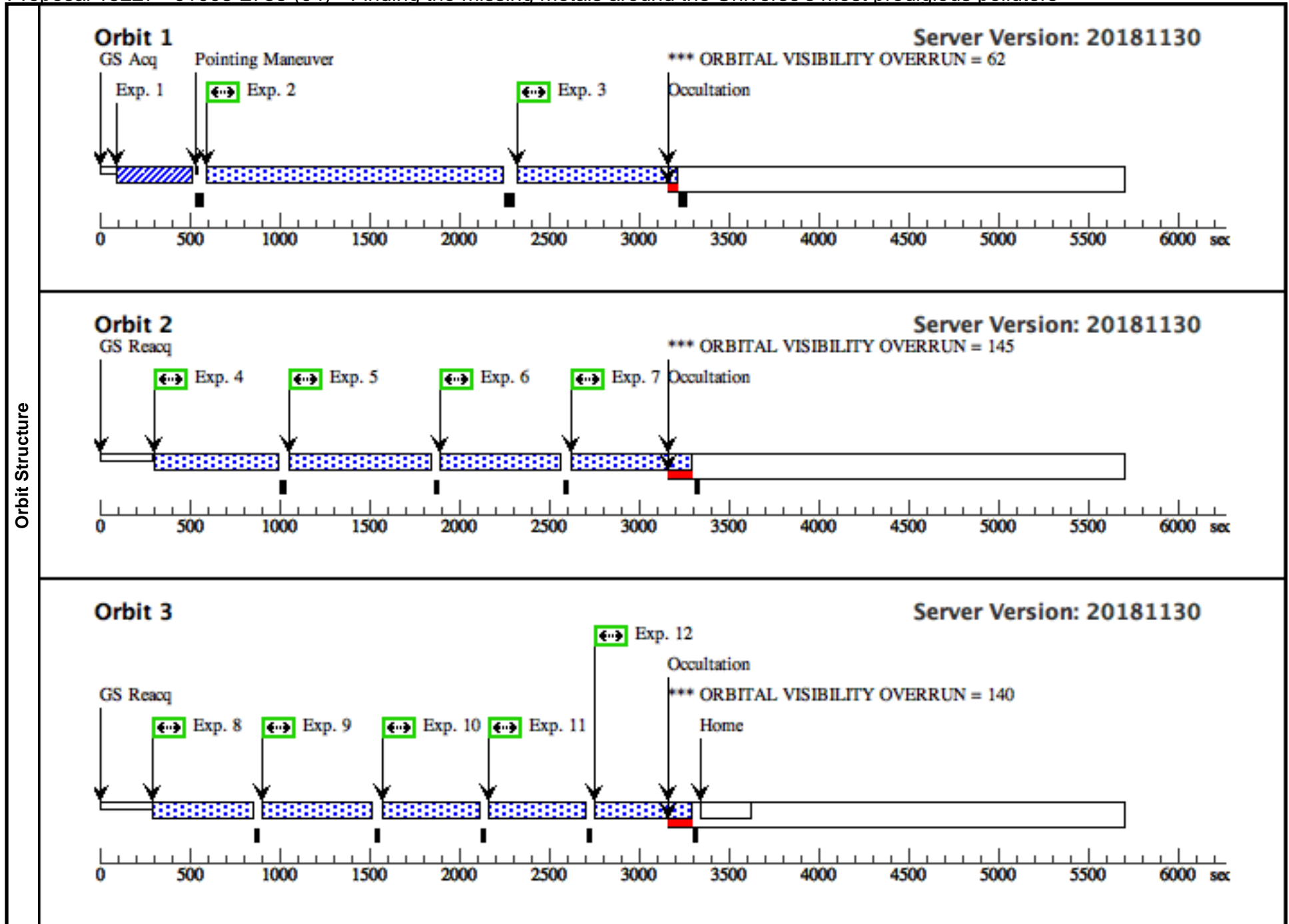
Proposal 15227 - J1008-2735 (04) - Finding the missing metals around the Universe's most prodigious polluters

Tue May 28 17:06:20 GMT 2019

<b>Visit</b>	<p><b>Proposal 15227, J1008-2735 (04), completed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p>																
<b>Diagnostics</b>	<p>(J1008-2735 (04)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(J1008-2735 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(J1008-2735 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(J1008-2735 (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>																
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Proposal 15227 - J1008-2735 (04) - Finding the missing metals around the Universe's most prodigious polluters

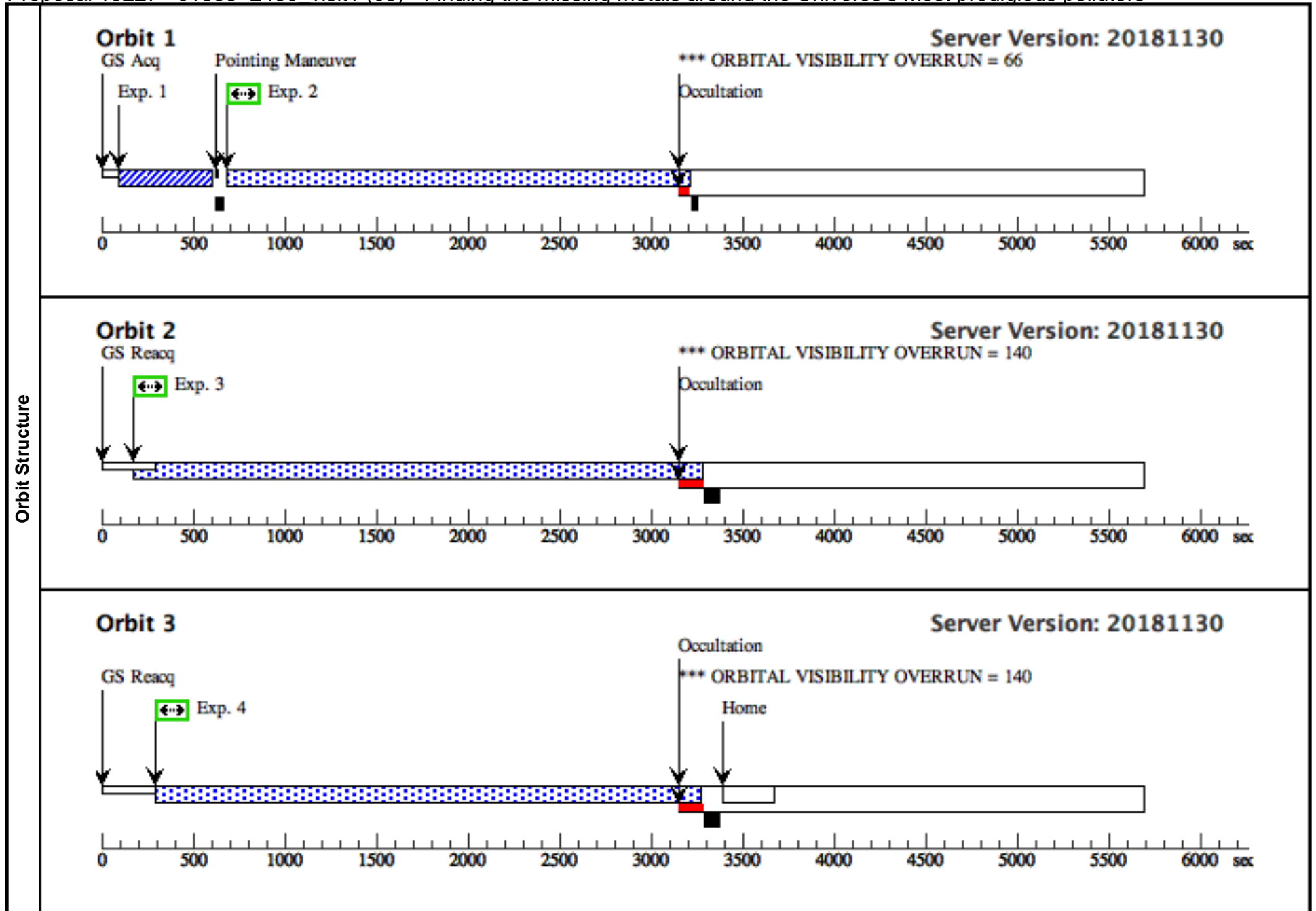
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	J1008-2735 _acq (COS.ta.101 1282)	(3) UVQJ100826.5 2-273544.3	COS/NUV, ACQ/IMAGE, PSA	MIRRORB			65 Secs (65 Secs) [==>]	[1]
	2	(COS.sp.101 3798)	(3) UVQJ100826.5 2-273544.3	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=36 10; FP-POS=3		1480 Secs (1480 Secs) [==>]	[1]
	3	(COS.sp.101 3799)	(3) UVQJ100826.5 2-273544.3	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=36 10		838 Secs (838 Secs) [==>]	[1]
	4	(COS.sp.101 3800)	(3) UVQJ100826.5 2-273544.3	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=36 10		641 Secs (641 Secs) [==>]	[2]
	5	(COS.sp.101 3802)	(3) UVQJ100826.5 2-273544.3	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; SEGMENT=BOTH; BUFFER-TIME=10 690		620 Secs (620 Secs) [==>]	[2]
	6	(COS.sp.101 3802)	(3) UVQJ100826.5 2-273544.3	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=2; SEGMENT=BOTH; BUFFER-TIME=10 690		620 Secs (620 Secs) [==>]	[2]
	7	(COS.sp.101 3803)	(3) UVQJ100826.5 2-273544.3	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=10 690		619 Secs (619 Secs) [==>]	[2]
	8	(COS.sp.101 3804)	(3) UVQJ100826.5 2-273544.3	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=10 690		503 Secs (503 Secs) [==>]	[3]
	9	(COS.sp.101 3801)	(3) UVQJ100826.5 2-273544.3	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=1; SEGMENT=BOTH; BUFFER-TIME=10 171		485 Secs (485 Secs) [==>]	[3]
	10	(COS.sp.101 3801)	(3) UVQJ100826.5 2-273544.3	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=2; SEGMENT=BOTH; BUFFER-TIME=10 171		485 Secs (485 Secs) [==>]	[3]
	11	(COS.sp.101 3801)	(3) UVQJ100826.5 2-273544.3	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=10 171		485 Secs (485 Secs) [==>]	[3]
	12	(COS.sp.101 3801)	(3) UVQJ100826.5 2-273544.3	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=10 171		485 Secs (485 Secs) [==>]	[3]



Proposal 15227 - J1338+2430 visit1 (05) - Finding the missing metals around the Universe's most prodigious polluters

Tue May 28 17:06:20 GMT 2019

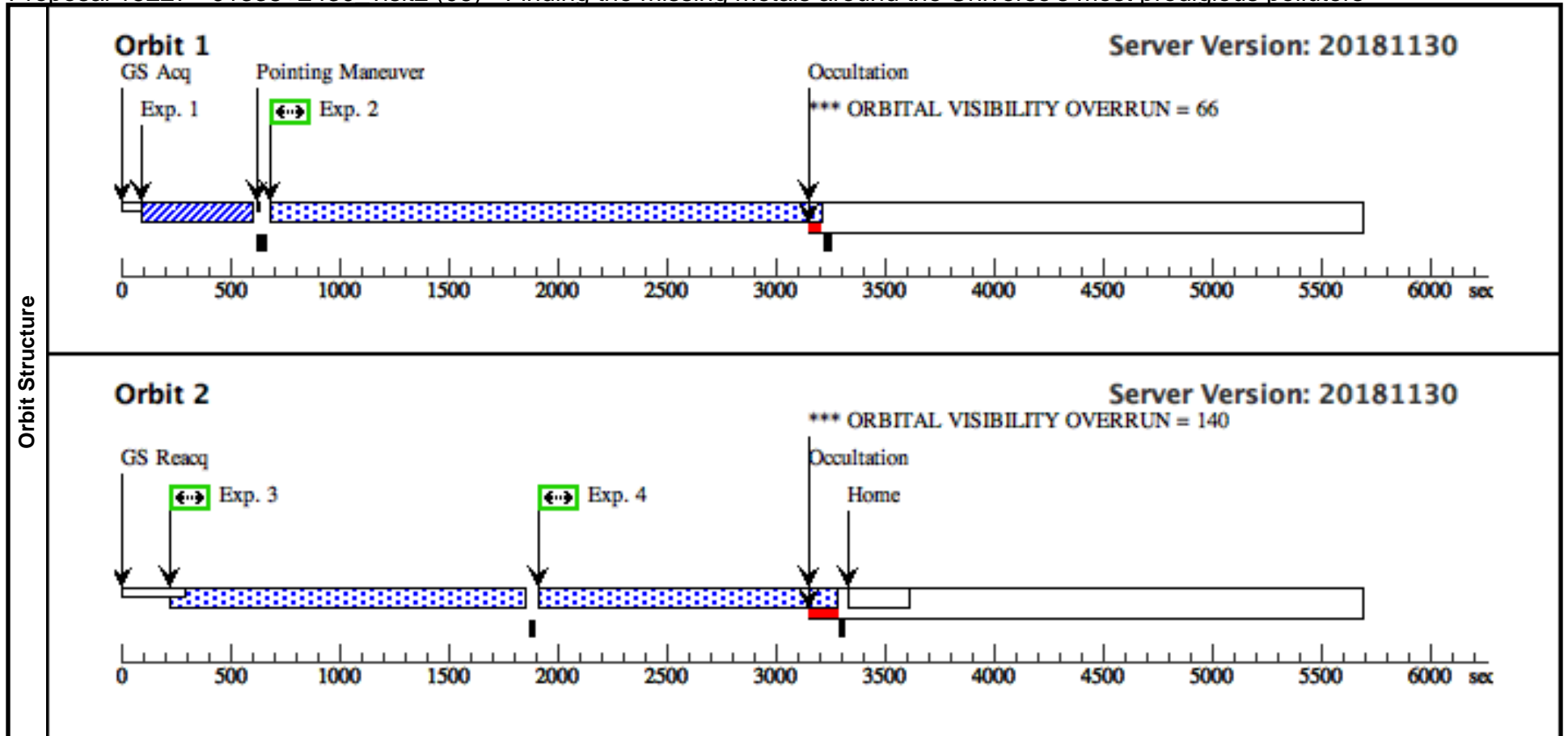
<b>Visit</b>	<p><b>Proposal 15227, J1338+2430_visit1 (05), failed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: We are employing 2 FP-POS settings at each cenwave for our G160M/1600 and G160M/1623 observations of this target instead of all 4. The COS User Support Lead has approved our request for this observing plan.</i></p>																																																												
	<b>Diagnostics</b>	<p>(J1338+2430_visit1 (05)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(J1338+2430_visit1 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(J1338+2430_visit1 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(J1338+2430_visit1 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Exposure 2 (J1338+2430_visit1 (05))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 3 (J1338+2430_visit1 (05))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 4 (J1338+2430_visit1 (05))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p>																																																											
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3	(COS.sp.101 3814)	(4) UVQJ133843.5 3+243003.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=43 35; FP-POS=3			2929 Secs (2929 Secs) [==>]	[2]																																																				
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Proposal 15227 - J1338+2430\_visit2 (06) - Finding the missing metals around the Universe's most prodigious polluters

Tue May 28 17:06:20 GMT 2019

<b>Visit</b>	<p><b>Proposal 15227, J1338+2430_visit2 (06), completed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: We are employing 2 FP-POS settings at each cenwave for our G160M/1600 and G160M/1623 observations of this target instead of all 4. The COS User Support Lead has approved our request for this observing plan.</i></p>																																																																																																			
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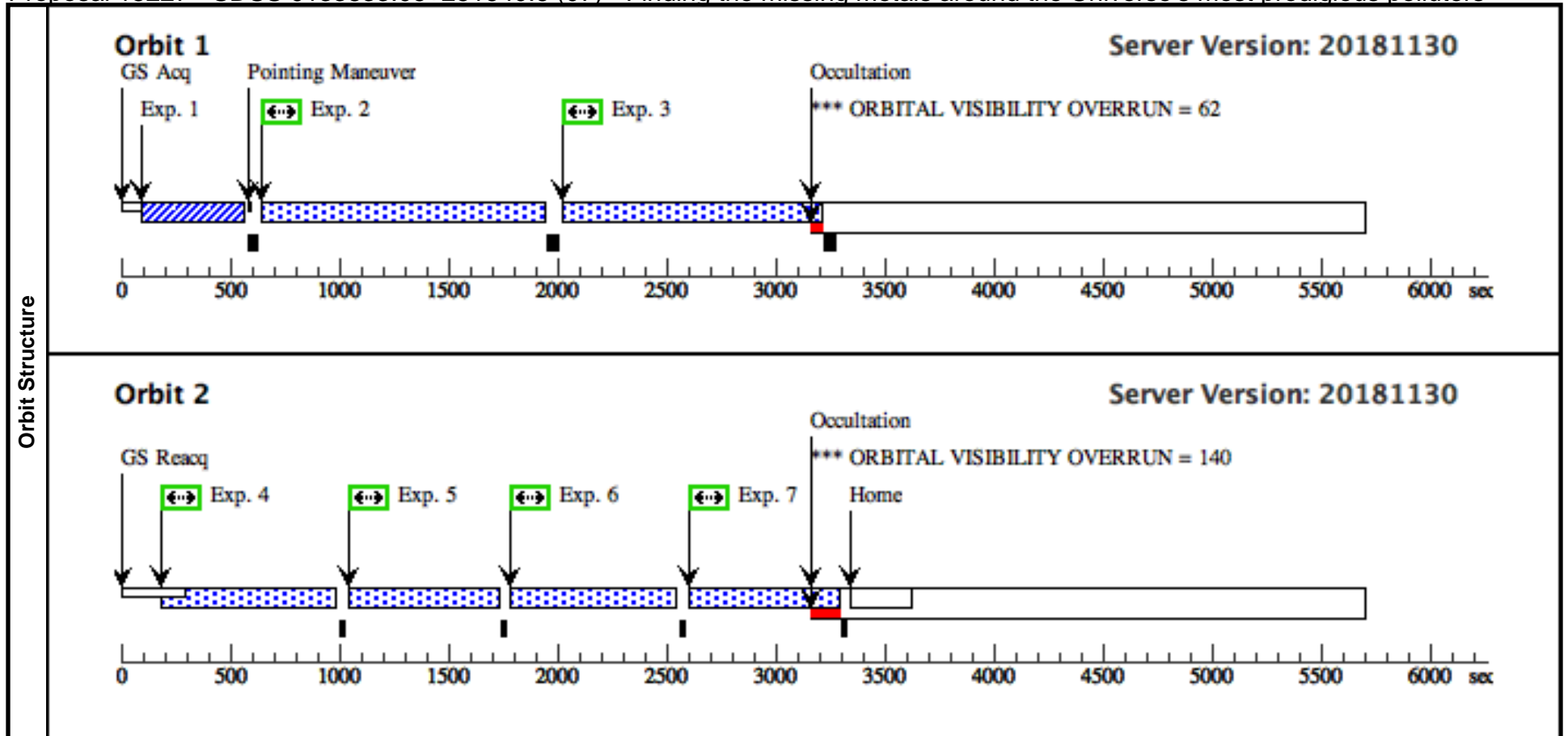


Proposal 15227 - SDSS-J133833.06+251640.6 (07) - Finding the missing metals around the Universe's most prodigious polluters

<b>Visit</b>	<p>Proposal 15227, SDSS-J133833.06+251640.6 (07), completed <span style="float: right;">Tue May 28 17:06:20 GMT 2019</span></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: We have opted to use only 2 FP-POS for each of G160M cenwave settings 1600 and 1623. The COS User Support Lead has approved our request for this observing plan.</i></p>																
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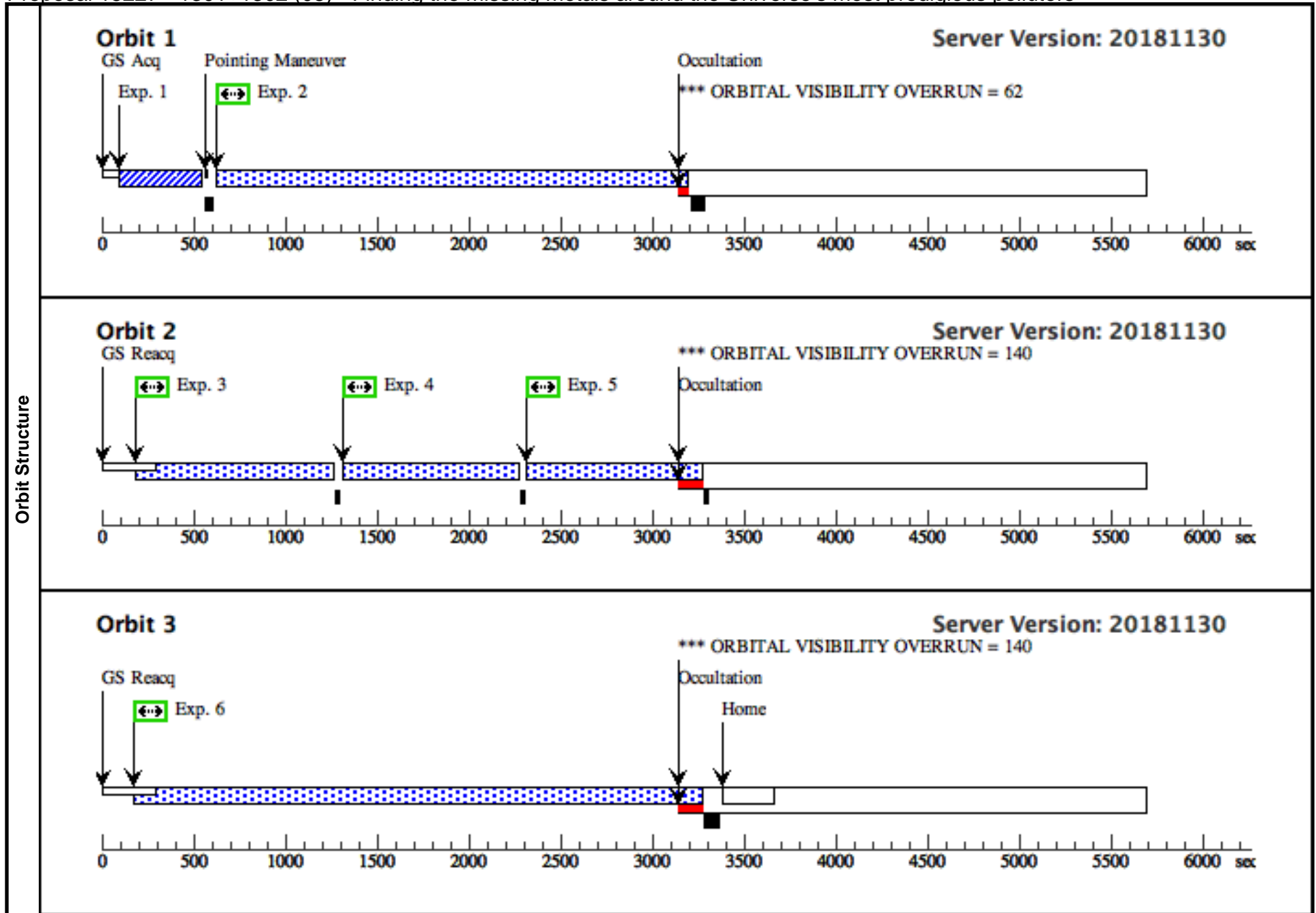
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	1	SDSS-J1338 33.06+2516 40.6_acq (COS.ta.101 3819)	(5) SDSS-J133833.0 6+251640.6	COS/NUV, ACQ/IMAGE, PSA	MIRRORB					90 Secs (90 Secs) [==>]	[1]
	2	(COS.sp.101 3827)	(5) SDSS-J133833.0 6+251640.6	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=31 55; FP-POS=3			1134 Secs (1134 Secs) [==>]	[1]	
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	4	(COS.sp.101 3828)	(5) SDSS-J133833.0 6+251640.6	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=1; SEGMENT=BOTH; BUFFER-TIME=82 19			637 Secs (637 Secs) [==>]	[2]	
	5	(COS.sp.101 3828)	(5) SDSS-J133833.0 6+251640.6	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=2; SEGMENT=BOTH; BUFFER-TIME=82 19			637 Secs (637 Secs) [==>]	[2]	
	6	(COS.sp.101 3829)	(5) SDSS-J133833.0 6+251640.6	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; SEGMENT=BOTH; BUFFER-TIME=86 90			636 Secs (636 Secs) [==>]	[2]	
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Proposal 15227 - 1301+1302 (08) - Finding the missing metals around the Universe's most prodigious polluters

Tue May 28 17:06:20 GMT 2019

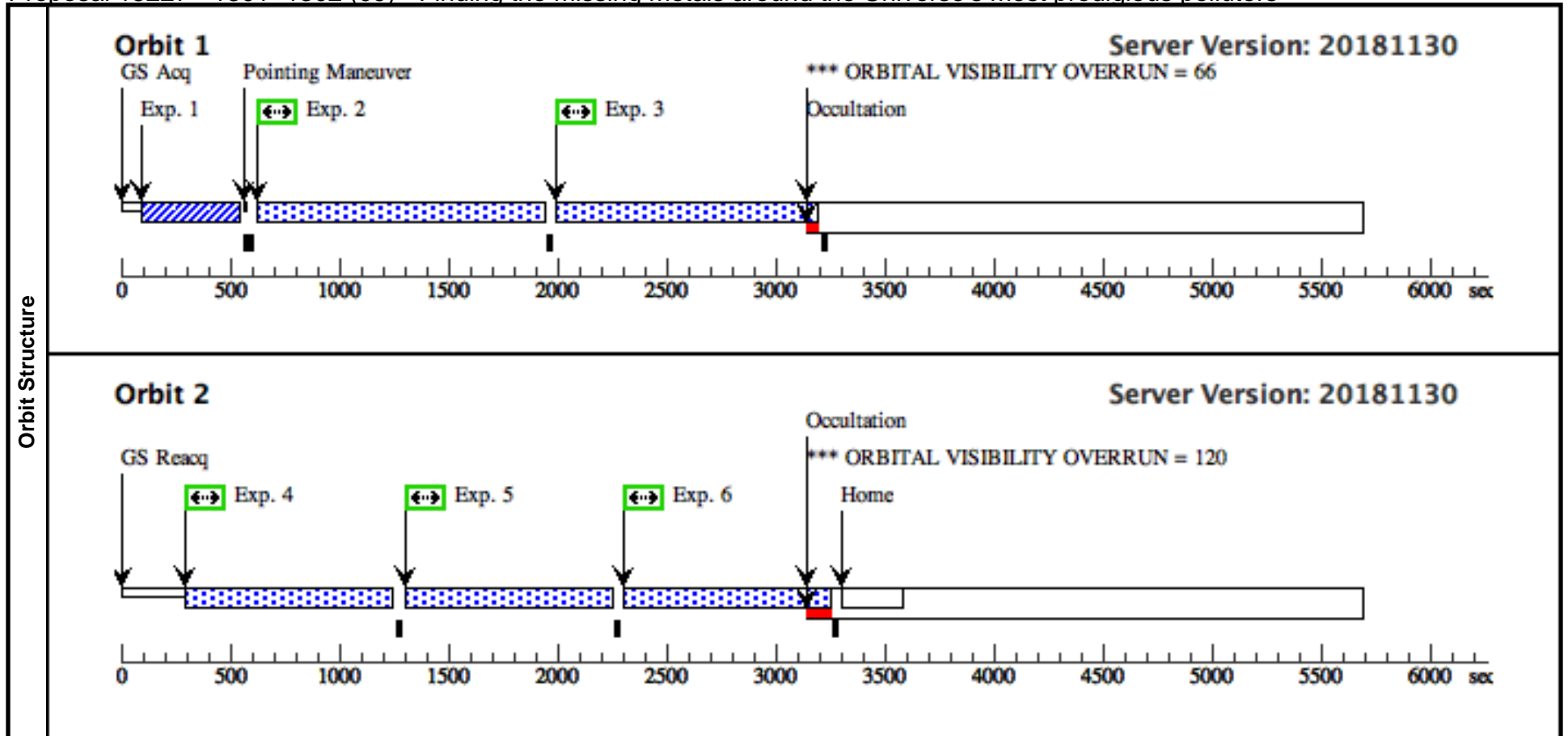
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Proposal 15227 - 1301+1302 (09) - Finding the missing metals around the Universe's most prodigious polluters

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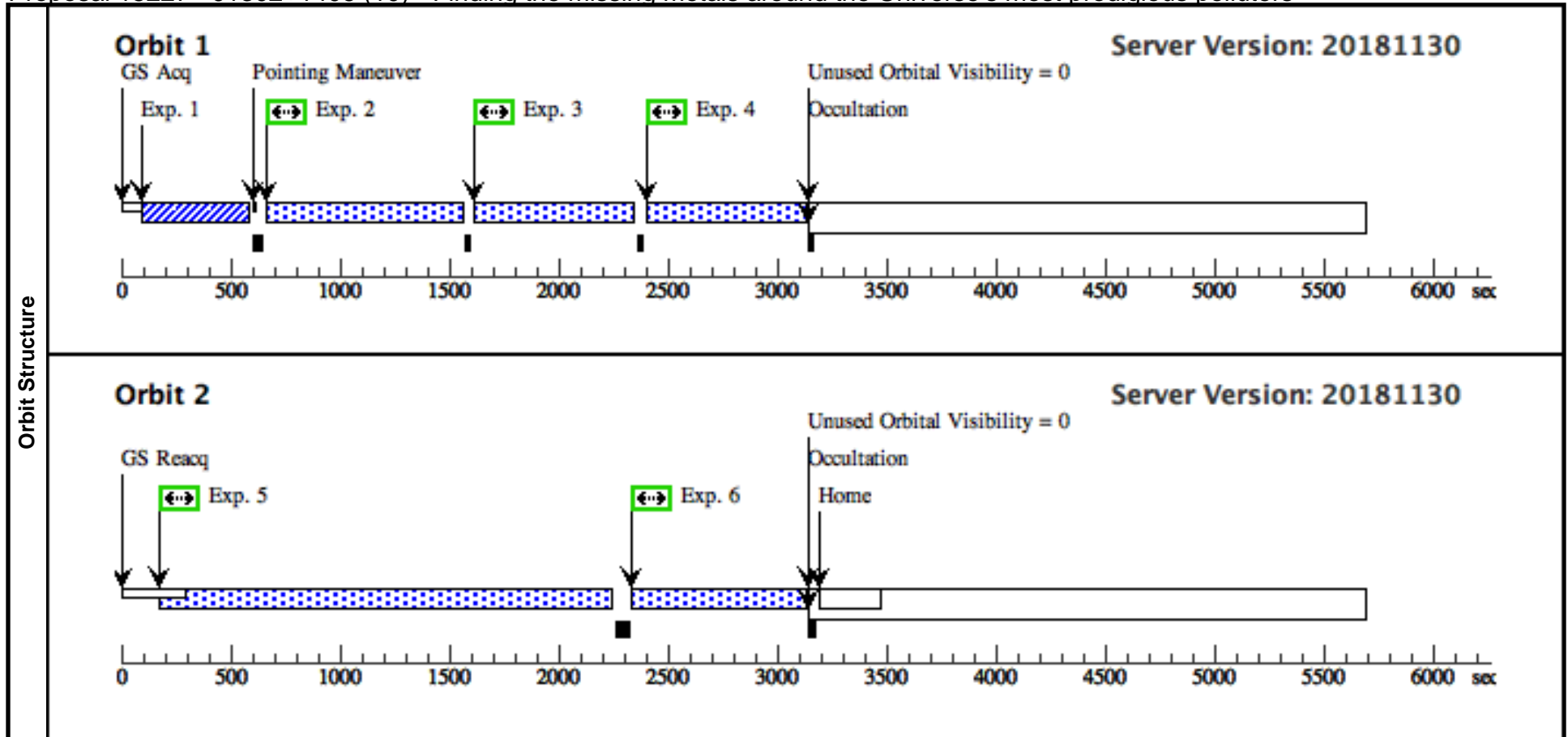
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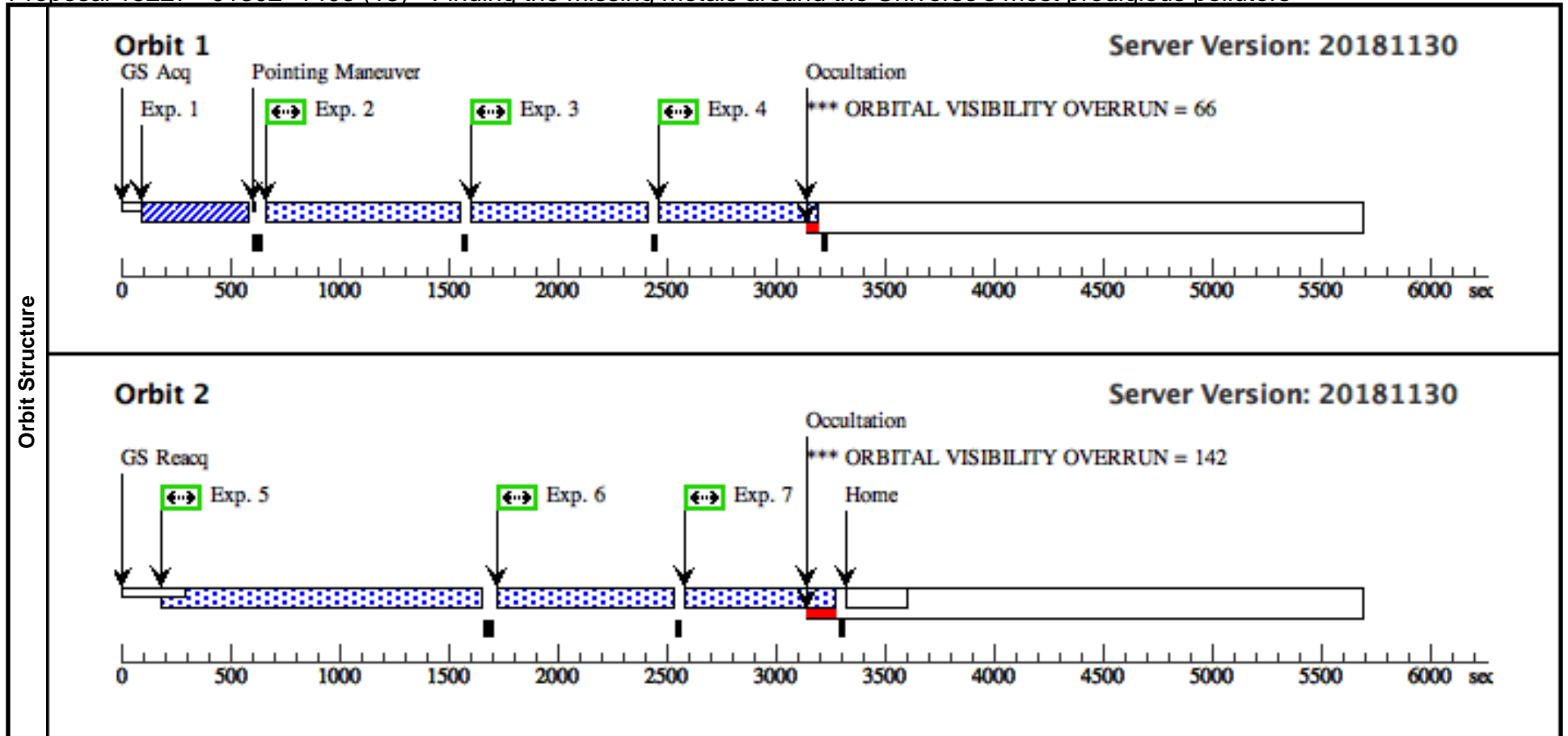
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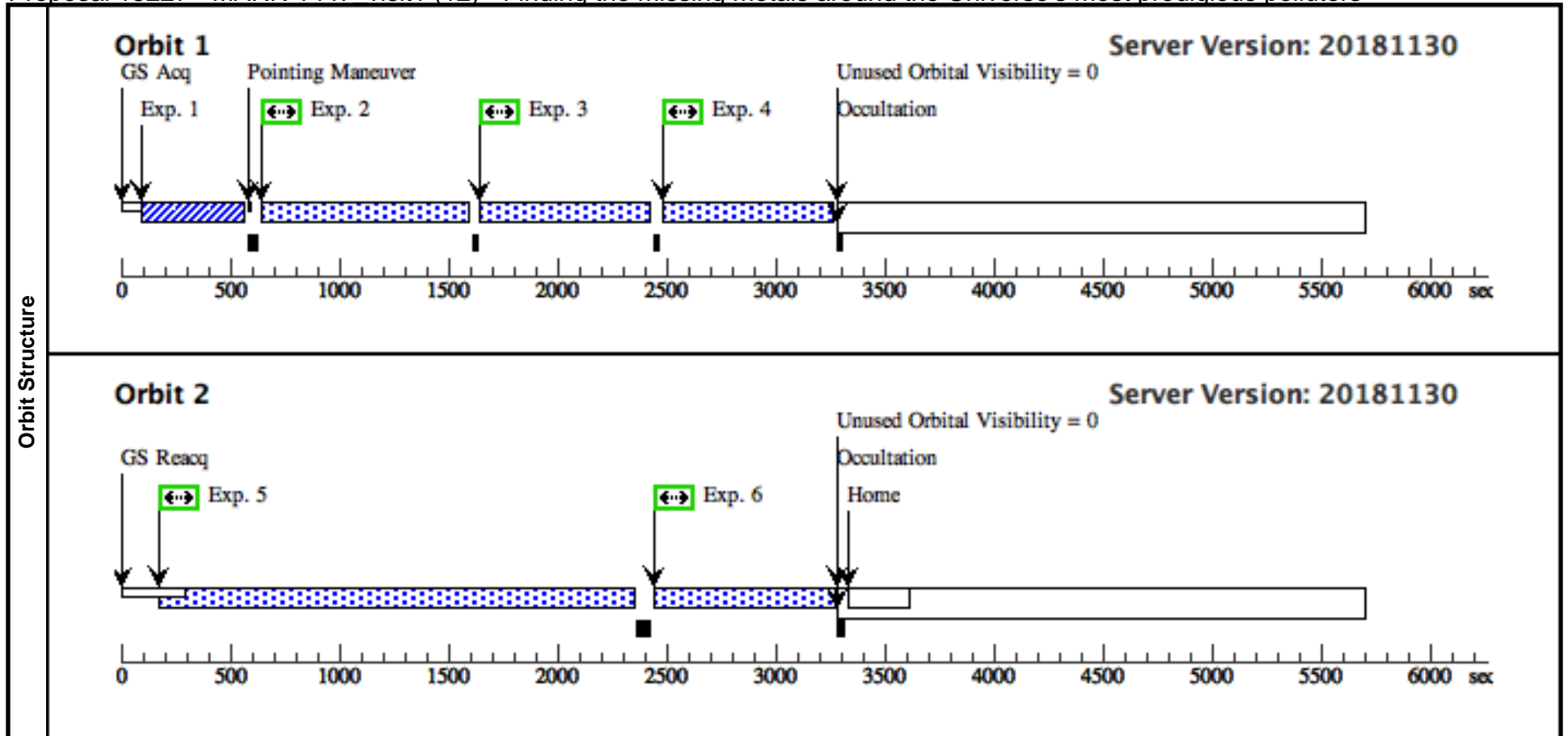
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Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>J1302+1406_acq (COS.ta.101 1747)</td> <td>(7) SDSSJ130223.12 +140609.0</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>100 Secs (100 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>(COS.sp.100 9077)</td> <td>(7) SDSSJ130223.12 +140609.0</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G160M 1623 A</td> <td>FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=12 707</td> <td></td> <td></td> <td>671 Secs (671 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>(COS.sp.101 3851)</td> <td>(7) SDSSJ130223.12 +140609.0</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G160M 1600 A</td> <td>FP-POS=1; SEGMENT=BOTH; BUFFER-TIME=12 161</td> <td></td> <td></td> <td>680 Secs (680 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>(COS.sp.101 3851)</td> <td>(7) SDSSJ130223.12 +140609.0</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G160M 1600 A</td> <td>FP-POS=2; SEGMENT=BOTH; BUFFER-TIME=12 161</td> <td></td> <td></td> <td>680 Secs (680 Secs) [==&gt;]</td> <td>[1]</td> </tr> <tr> <td>5</td> <td>(COS.sp.101 3850)</td> <td>(7) SDSSJ130223.12 +140609.0</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=40 09</td> <td></td> <td></td> <td>1300 Secs (1300 Secs) [==&gt;]</td> <td>[2]</td> </tr> <tr> <td>6</td> <td>(COS.sp.101 3852)</td> <td>(7) SDSSJ130223.12 +140609.0</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G160M 1600 A</td> <td>FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=12 161</td> <td></td> <td></td> <td>641 Secs (641 Secs) [==&gt;]</td> <td>[2]</td> </tr> <tr> <td>7</td> <td>(COS.sp.101 3852)</td> <td>(7) SDSSJ130223.12 +140609.0</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G160M 1600 A</td> <td>FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=12 161</td> <td></td> <td></td> <td>641 Secs (641 Secs) [==&gt;]</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	J1302+1406_acq (COS.ta.101 1747)	(7) SDSSJ130223.12 +140609.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				100 Secs (100 Secs) [==>]	[1]	2	(COS.sp.100 9077)	(7) SDSSJ130223.12 +140609.0	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=12 707			671 Secs (671 Secs) [==>]	[1]	3	(COS.sp.101 3851)	(7) SDSSJ130223.12 +140609.0	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=1; SEGMENT=BOTH; BUFFER-TIME=12 161			680 Secs (680 Secs) [==>]	[1]	4	(COS.sp.101 3851)	(7) SDSSJ130223.12 +140609.0	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=2; SEGMENT=BOTH; BUFFER-TIME=12 161			680 Secs (680 Secs) [==>]	[1]	5	(COS.sp.101 3850)	(7) SDSSJ130223.12 +140609.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=40 09			1300 Secs (1300 Secs) [==>]	[2]	6	(COS.sp.101 3852)	(7) SDSSJ130223.12 +140609.0	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=12 161			641 Secs (641 Secs) [==>]	[2]	7	(COS.sp.101 3852)	(7) SDSSJ130223.12 +140609.0	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=12 161			641 Secs (641 Secs) [==>]	[2]
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Proposal 15227 - MARK-1447 visit1 (12) - Finding the missing metals around the Universe's most prodigious polluters

Tue May 28 17:06:20 GMT 2019

<b>Visit</b>	<b>Proposal 15227, MARK-1447_visit1 (12), completed</b>																																																																																																																																											
	<b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																																																																																											
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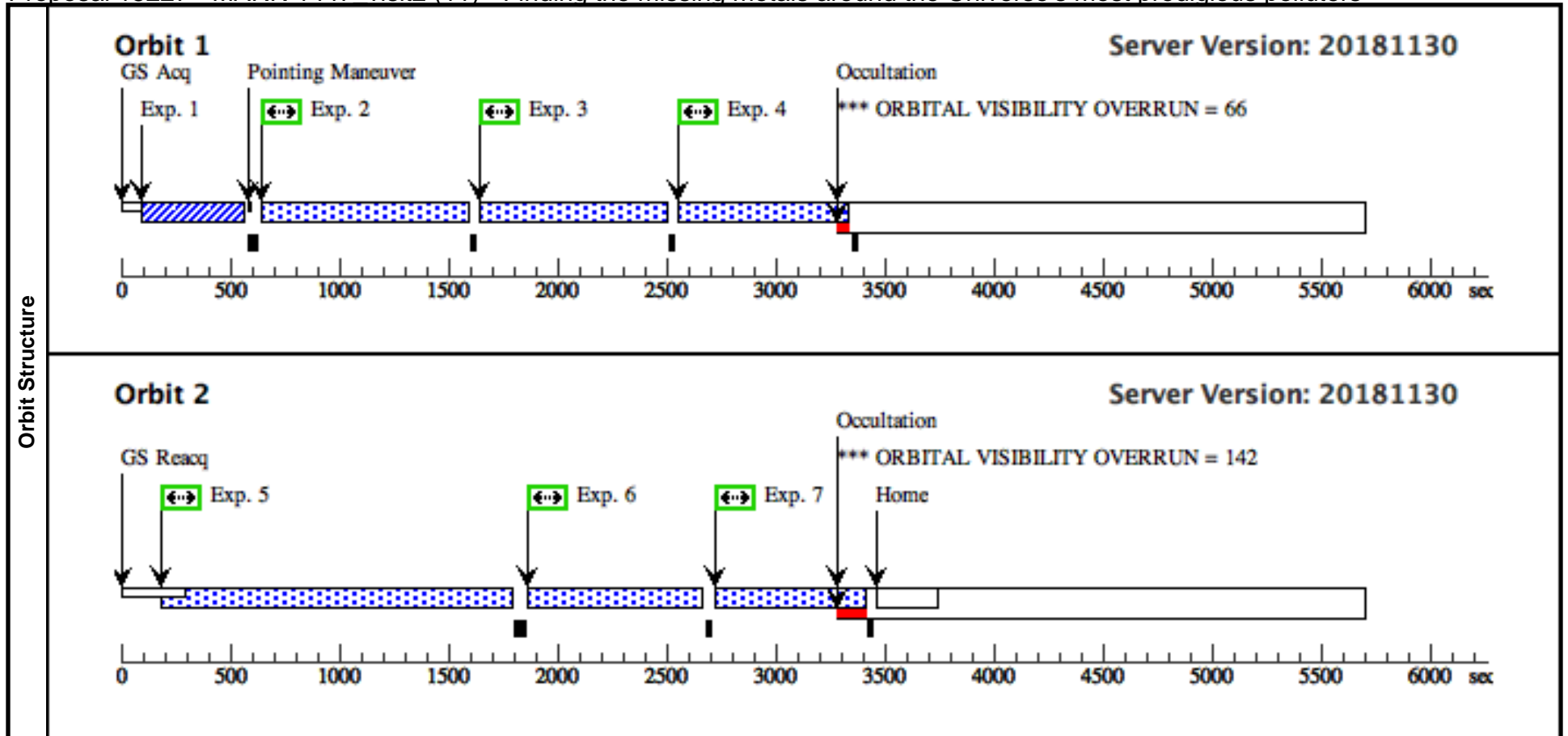


Proposal 15227 - MARK-1447\_visit2 (11) - Finding the missing metals around the Universe's most prodigious polluters

<b>Visit</b>	<p><b>Proposal 15227, MARK-1447_visit2 (11), completed</b> <span style="float: right;">Tue May 28 17:06:20 GMT 2019</span></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p>						
	<b>Diagnostics</b>	<p>(MARK-1447_visit2 (11)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(MARK-1447_visit2 (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(MARK-1447_visit2 (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Exposure 2 (MARK-1447_visit2 (11))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 3 (MARK-1447_visit2 (11))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 4 (MARK-1447_visit2 (11))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 5 (MARK-1447_visit2 (11))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 6 (MARK-1447_visit2 (11))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 7 (MARK-1447_visit2 (11))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p>					
<b>Fixed Targets</b>		<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
		(8)	MARK-1447	RA: 11 30 29.1300 (172.6213750d)	Redshift: 0.096	V=17.38+/-0.005	Reference Frame: ICRS
			Alt Name1: MRK1447	Dec: +49 34 57.84 (49.58273d)		FUV mag: 17.73, NUV mag: 17.39	
		<p><i>Comments: The V magnitude above has been converted from SDSS DR12 g- and r-band photometry using the Lupton (2005) filter transformations provided by SDSS at <a href="http://www.sdss.org/dr13/algorithms/sdssUBVRITransform/#Lupton2005">http://www.sdss.org/dr13/algorithms/sdssUBVRITransform/#Lupton2005</a>.</i></p> <p><i>We are not aware of any variability in this target.</i></p> <p><i>We have indicated this target as 'extended' based on the optical photometry (the AGN host galaxy is at relatively low redshift). However, we expect the central concentration of the AGN to dominate the signal and minimize issues arising from spatially extended flux.</i></p> <p><i>Category=EXT-MEDIUM</i></p> <p><i>Description=[ABSORPTION LINE SYSTEM - EXTRAGALACTIC, EJECTA, HALO, WIND]</i></p> <p><i>Extended=YES</i></p>					

Proposal 15227 - MARK-1447 visit2 (11) - Finding the missing metals around the Universe's most prodigious polluters

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	MARK-1447_acq (COS.ta.101 1845)	(8) MARK-1447	COS/NUV, ACQ/IMAGE, PSA	MIRRORB					90 Secs (90 Secs) [==>]	[1]
	2	(COS.sp.101 3865)	(8) MARK-1447	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=13 017				729 Secs (729 Secs) [==>]	[1]
	3	(COS.sp.101 3863)	(8) MARK-1447	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=1; SEGMENT=BOTH; BUFFER-TIME=12 471				729 Secs (729 Secs) [==>]	[1]
	4	(COS.sp.101 3863)	(8) MARK-1447	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=2; SEGMENT=BOTH; BUFFER-TIME=12 471				729 Secs (729 Secs) [==>]	[1]
	5	(COS.sp.101 3862)	(8) MARK-1447	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=40 66				1434 Secs (1434 Secs) [==>]	[2]
	6	(COS.sp.101 3864)	(8) MARK-1447	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=12 471				637 Secs (637 Secs) [==>]	[2]
	7	(COS.sp.101 3864)	(8) MARK-1447	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=12 471				637 Secs (637 Secs) [==>]	[2]

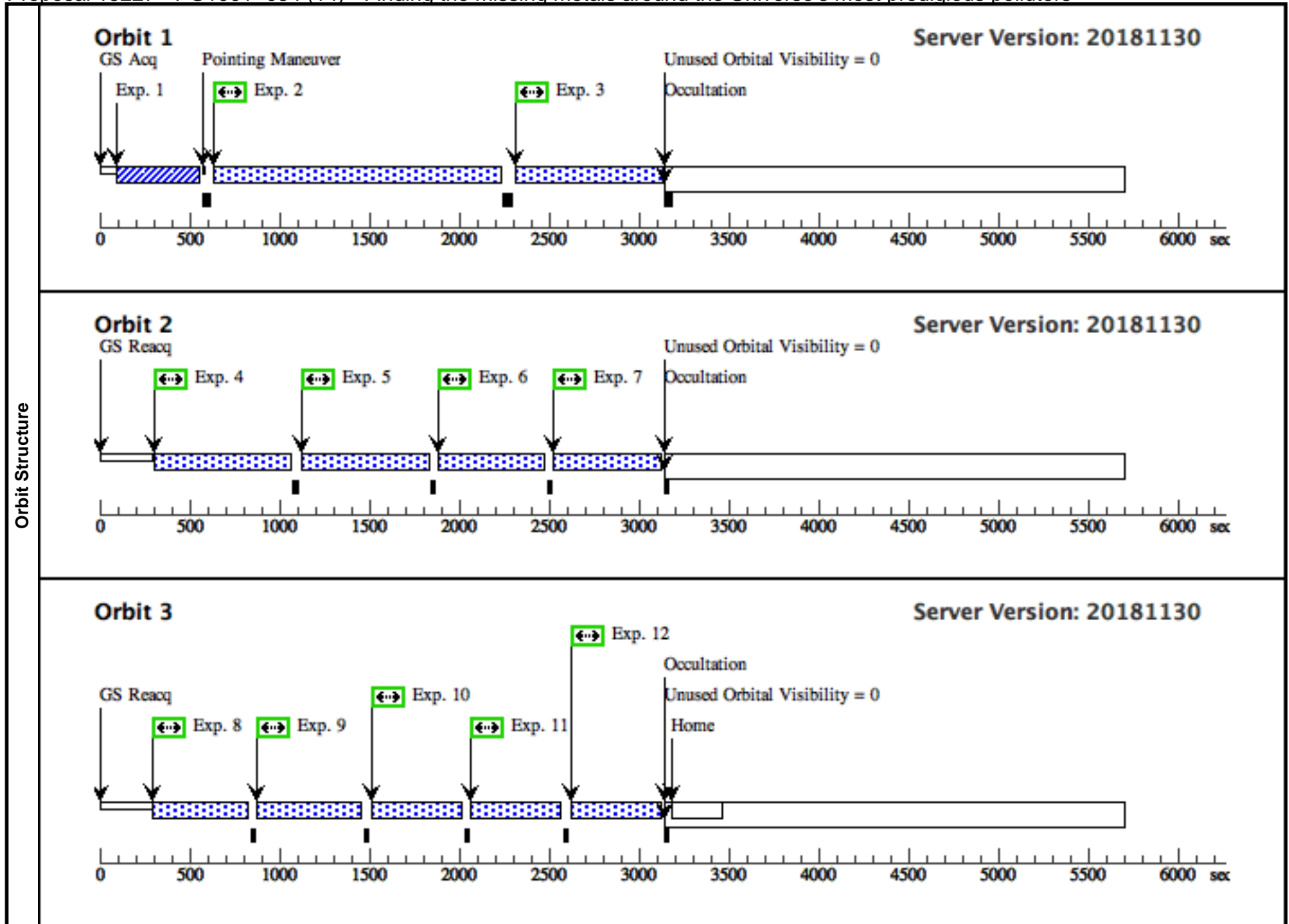


Proposal 15227 - PG1001+054 (14) - Finding the missing metals around the Universe's most prodigious polluters

<b>Visit</b>	<b>Proposal 15227, PG1001+054 (14), completed</b> <span style="float: right;">Tue May 28 17:06:20 GMT 2019</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																
	<b>Diagnosics</b> (PG1001+054 (14)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.																
<b>Fixed Targets</b>	<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>PG1001+054</td> <td>RA: 10 04 20.1300 (151.0838750d) Dec: +05 13 0.47 (5.21680d) Equinox: J2000</td> <td>Redshift: 0.161</td> <td>V=16.37+/-0.005 FUV mag = 17.11, NUV mag: 17.31</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(9)	PG1001+054	RA: 10 04 20.1300 (151.0838750d) Dec: +05 13 0.47 (5.21680d) Equinox: J2000	Redshift: 0.161	V=16.37+/-0.005 FUV mag = 17.11, NUV mag: 17.31	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(9)	PG1001+054	RA: 10 04 20.1300 (151.0838750d) Dec: +05 13 0.47 (5.21680d) Equinox: J2000	Redshift: 0.161	V=16.37+/-0.005 FUV mag = 17.11, NUV mag: 17.31	Reference Frame: ICRS												
<p><i>Comments: The V magnitude above has been converted from SDSS DR12 g- and r-band photometry using the Lupton (2005) filter transformations provided by SDSS at <a href="http://www.sdss.org/dr13/algorithms/sdssUBVRITransform/#Lupton2005">http://www.sdss.org/dr13/algorithms/sdssUBVRITransform/#Lupton2005</a>.</i></p> <p><i>We are not aware of any variability in this target.</i></p> <p><i>Category=EXT-MEDIUM</i></p> <p><i>Description=[ABSORPTION LINE SYSTEM - GALACTIC, EJECTA, HALO, WIND]</i></p> <p><i>Extended=NO</i></p>																	

Proposal 15227 - PG1001+054 (14) - Finding the missing metals around the Universe's most prodigious polluters

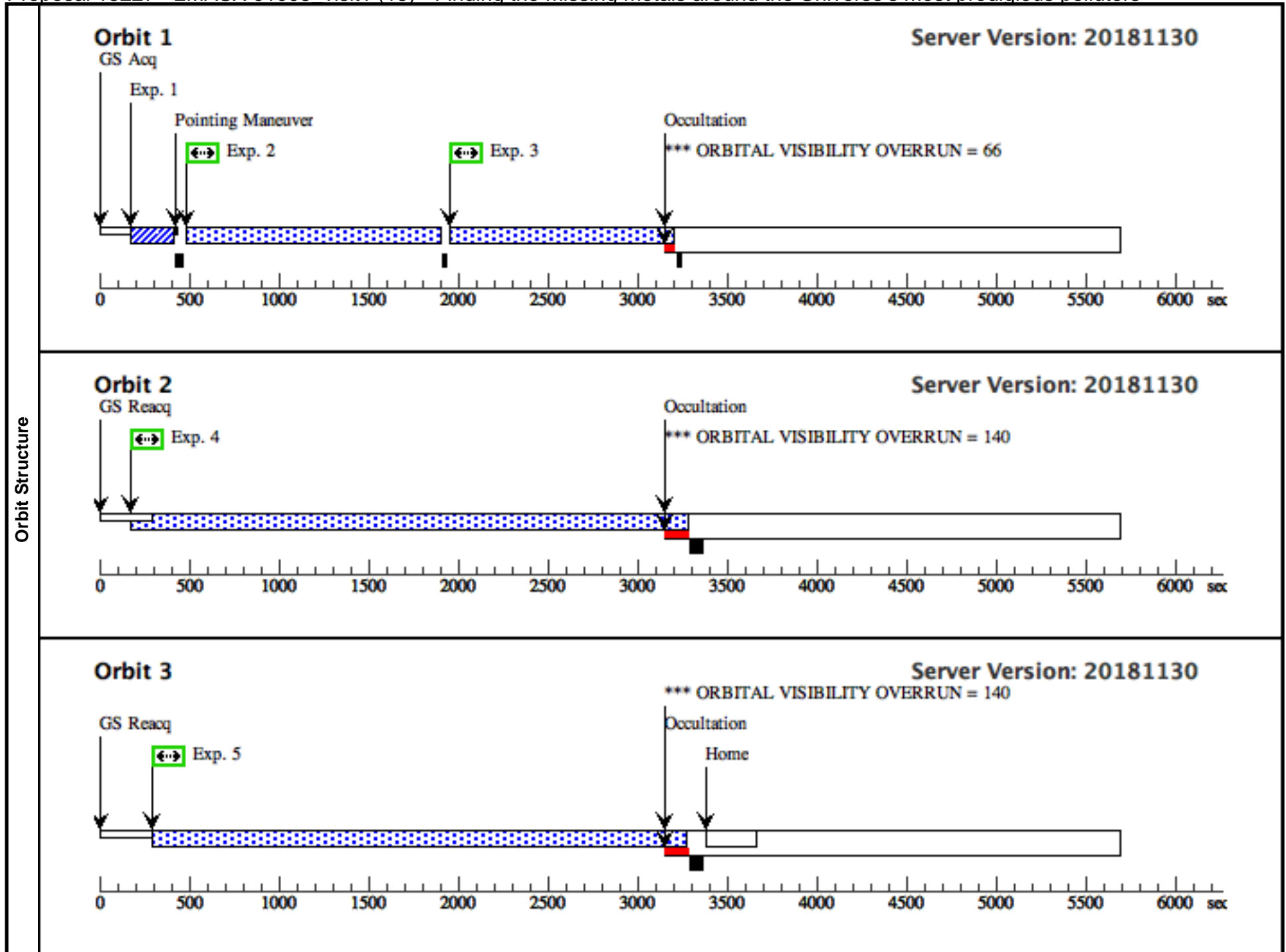
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	PG1001+054_acq (COS.ta.101 1867)	(9) PG1001+054	COS/NUV, ACQ/IMAGE, PSA	MIRRORB			85 Secs (85 Secs) [==>]	[1]
	2	(COS.sp.101 3871)	(9) PG1001+054	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=33 00; FP-POS=3		1433 Secs (1433 Secs) [==>]	[1]
	3	(COS.sp.101 3873)	(9) PG1001+054	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=33 00		763 Secs (763 Secs) [==>]	[1]
	4	(COS.sp.101 3875)	(9) PG1001+054	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=33 00		706 Secs (706 Secs) [==>]	[2]
	5	(COS.sp.101 3877)	(9) PG1001+054	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; SEGMENT=BOTH; BUFFER-TIME=92 98		540 Secs (540 Secs) [==>]	[2]
	6	(COS.sp.101 3877)	(9) PG1001+054	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=2; SEGMENT=BOTH; BUFFER-TIME=92 98		540 Secs (540 Secs) [==>]	[2]
	7	(COS.sp.101 3877)	(9) PG1001+054	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=92 98		549 Secs (549 Secs) [==>]	[2]
	8	(COS.sp.101 3878)	(9) PG1001+054	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=92 98		475 Secs (475 Secs) [==>]	[3]
	9	(COS.sp.101 3876)	(9) PG1001+054	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=1; SEGMENT=BOTH; BUFFER-TIME=88 09		452 Secs (452 Secs) [==>]	[3]
	10	(COS.sp.101 3876)	(9) PG1001+054	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=2; SEGMENT=BOTH; BUFFER-TIME=88 09		452 Secs (452 Secs) [==>]	[3]
	11	(COS.sp.101 3876)	(9) PG1001+054	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=88 09		452 Secs (452 Secs) [==>]	[3]
	12	(COS.sp.101 3876)	(9) PG1001+054	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=88 09		452 Secs (452 Secs) [==>]	[3]



Proposal 15227 - 2MASX-J1005\_visit1 (15) - Finding the missing metals around the Universe's most prodigious polluters

Tue May 28 17:06:20 GMT 2019

<b>Visit</b>	<b>Proposal 15227, 2MASX-J1005_visit1 (15), failed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(2MASX-J1005_visit1 (15)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details. (2MASX-J1005_visit1 (15)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (2MASX-J1005_visit1 (15)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (2MASX-J1005_visit1 (15)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
<b>Diagnosics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(10)	2MASX-J10053271-2417161	RA: 10 05 32.7408 (151.3864200d) Dec: -24 17 16.14 (-24.28782d) Equinox: J2000	Redshift: 0.154	V=17.192+/-0.005 FUV mag: 18.2, NUV mag: 17.99	Reference Frame: ICRS				
<i>Comments: Coordinates given here come from the PanSTARRS database. These coordinates agree with those given by 2MASS within 0.05 arcsec. We have adopted 0.1 arcsec as a conservative uncertainty.</i> We are not aware of any variability in this target. The V magnitude above has been converted from PanSTARRS g- and r-band photometry using the Lupton (2005) filter transformations provided by SDSS at <a href="http://www.sdss.org/dr13/algorithms/sdssUBVRITransform/#Lupton2005">http://www.sdss.org/dr13/algorithms/sdssUBVRITransform/#Lupton2005</a> . Category=EXT-MEDIUM Description=[ABSORPTION LINE SYSTEM - EXTRAGALACTIC, EJECTA, HALO, WIND] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(COS.ta.101 1908)	(10) 2MASX-J10053 271-2417161	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				10 Secs (10 Secs) [==>]	[1]
	2	(COS.sp.101 3890)	(10) 2MASX-J10053 271-2417161	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; SEGMENT=BOTH; BUFFER-TIME=15 924			1200 Secs (1200 Secs) [==>]	[1]
	3	(COS.sp.101 3890)	(10) 2MASX-J10053 271-2417161	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=2; SEGMENT=BOTH; BUFFER-TIME=15 924			1200 Secs (1200 Secs) [==>]	[1]
	4	(COS.sp.101 3883)	(10) 2MASX-J10053 271-2417161	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=45 48; FP-POS=3			2929 Secs (2929 Secs) [==>]	[2]
	5	(COS.sp.101 3884)	(10) 2MASX-J10053 271-2417161	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=45 48; FP-POS=4			2931 Secs (2931 Secs) [==>]	[3]

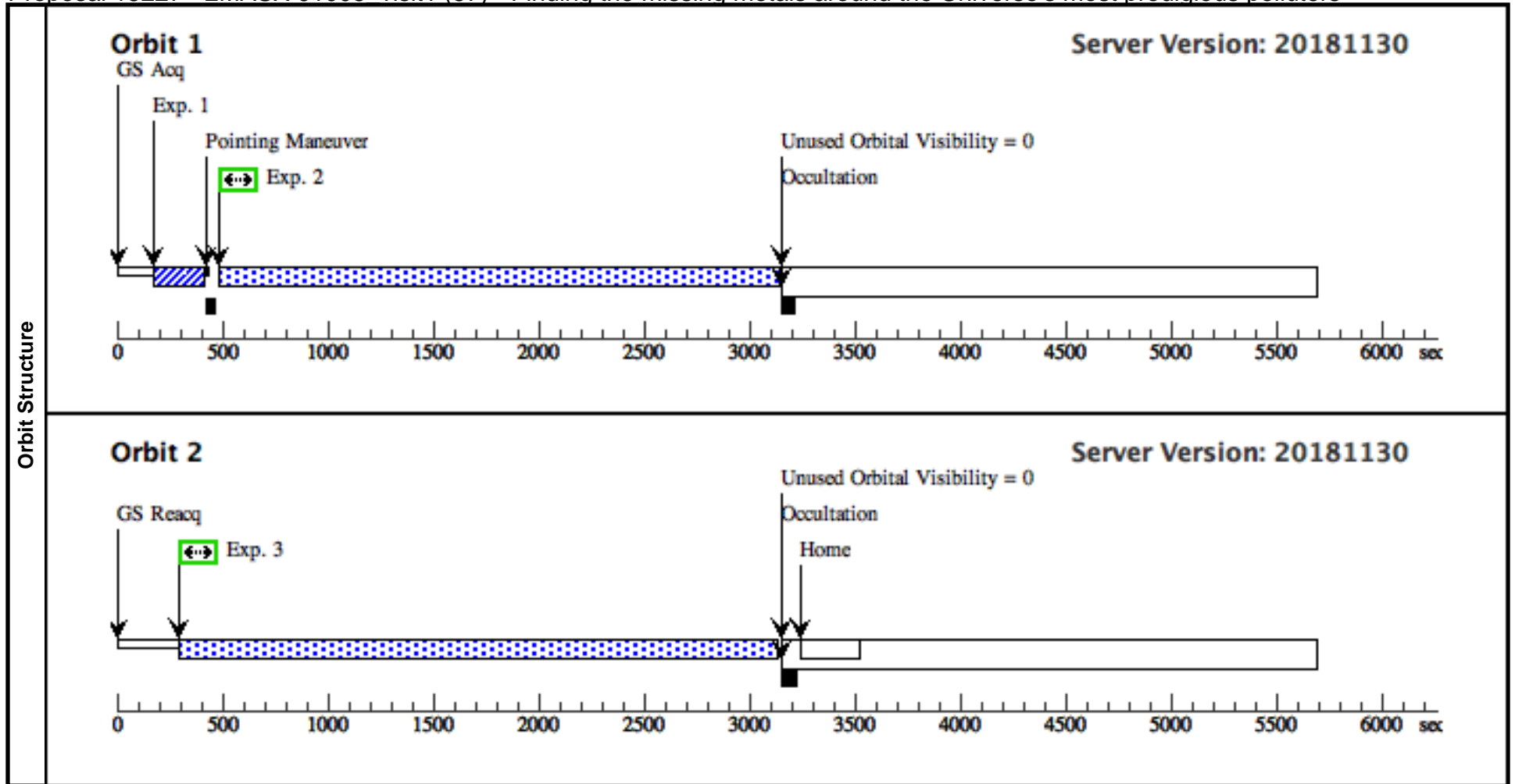


Orbit Structure

Proposal 15227 - 2MASX-J1005\_visit1 (57) - Finding the missing metals around the Universe's most prodigious polluters

Tue May 28 17:06:21 GMT 2019

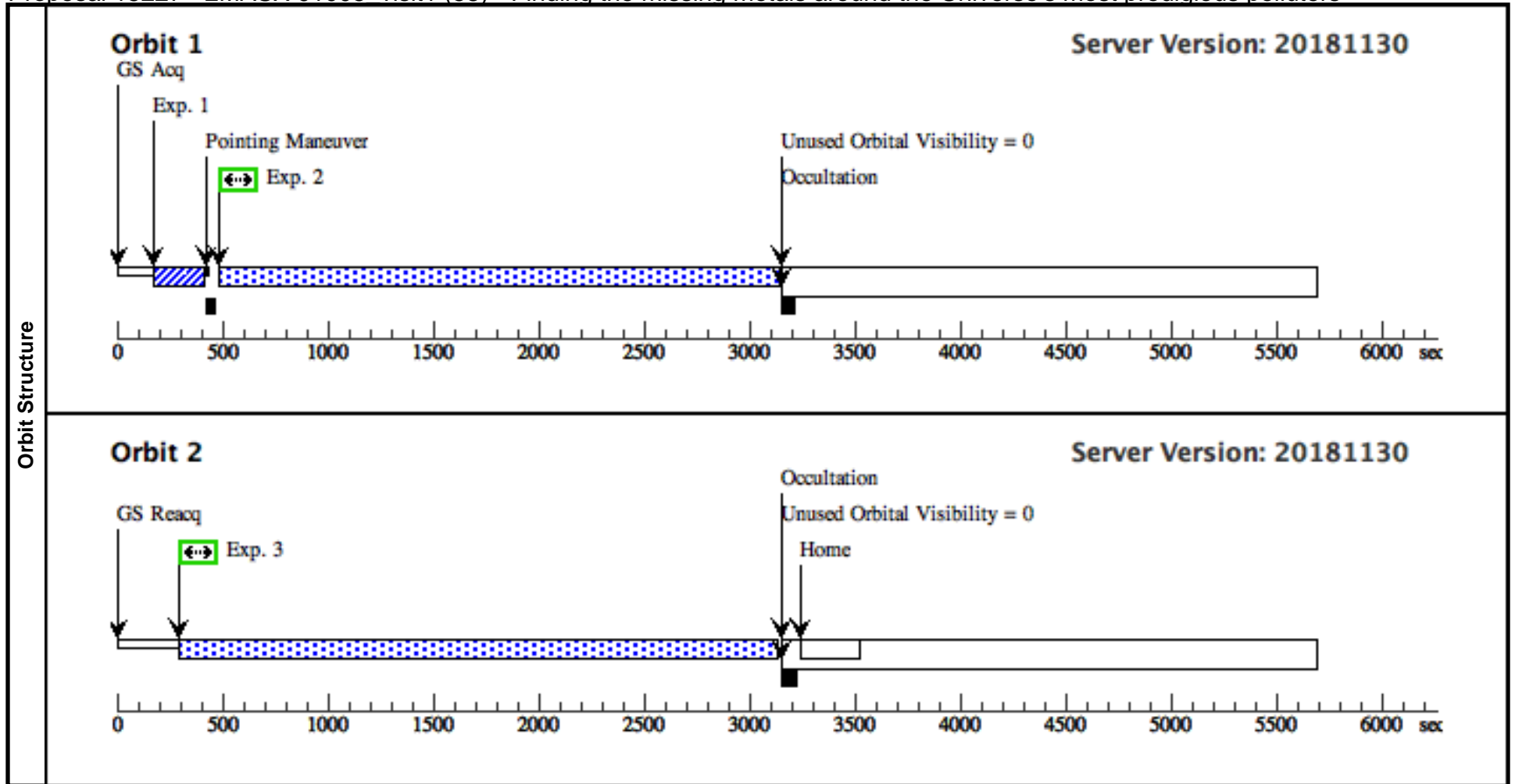
<b>Visit</b>	Proposal 15227, 2MASX-J1005_visit1 (57), failed <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(2MASX-J1005_visit1 (57)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.									
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(10)	2MASX-J10053271-2417161	RA: 10 05 32.7408 (151.3864200d) Dec: -24 17 16.14 (-24.28782d) Equinox: J2000	Redshift: 0.154	V=17.192+/-0.005 FUV mag: 18.2, NUV mag: 17.99	Reference Frame: ICRS				
Comments: Coordinates given here come from the PanSTARRS database. These coordinates agree with those given by 2MASS within 0.05 arcsec. We have adopted 0.1 arcsec as a conservative uncertainty. We are not aware of any variability in this target.										
The V magnitude above has been converted from PanSTARRS g- and r-band photometry using the Lupton (2005) filter transformations provided by SDSS at <a href="http://www.sdss.org/dr13/algorithms/sdssUBVRITransform/#Lupton2005">http://www.sdss.org/dr13/algorithms/sdssUBVRITransform/#Lupton2005</a> . Category=EXT-MEDIUM Description=[ABSORPTION LINE SYSTEM - EXTRAGALACTIC, EJECTA, HALO, WIND] Extended=NO										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(COS.ta.101 1908)	(10) 2MASX-J10053 271-2417161	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				10 Secs (10 Secs)	
									[==>]	[1]
	2	(COS.sp.101 3883)	(10) 2MASX-J10053 271-2417161	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=45 48; FP-POS=3			2492 Secs (2492 Secs)	
								[==>]	[1]	
3	(COS.sp.101 3883)	(10) 2MASX-J10053 271-2417161	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=45 48; FP-POS=4			2791 Secs (2791 Secs)		
								[==>]	[2]	



Proposal 15227 - 2MASX-J1005\_visit1 (58) - Finding the missing metals around the Universe's most prodigious polluters

Tue May 28 17:06:21 GMT 2019

<b>Visit</b>	<b>Proposal 15227, 2MASX-J1005_visit1 (58), completed</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(2MASX-J1005_visit1 (58)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.									
<b>Diagnostics</b>										
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>				
	(10)	2MASX-J10053271-2417161	RA: 10 05 32.7408 (151.3864200d) Dec: -24 17 16.14 (-24.28782d) Equinox: J2000	Redshift: 0.154	V=17.192+/-0.005 FUV mag: 18.2, NUV mag: 17.99	Reference Frame: ICRS				
<i>Comments: Coordinates given here come from the PanSTARRS database. These coordinates agree with those given by 2MASS within 0.05 arcsec. We have adopted 0.1 arcsec as a conservative uncertainty. We are not aware of any variability in this target.</i>										
<i>The V magnitude above has been converted from PanSTARRS g- and r-band photometry using the Lupton (2005) filter transformations provided by SDSS at <a href="http://www.sdss.org/dr13/algorithms/sdssUBVRITransform/#Lupton2005">http://www.sdss.org/dr13/algorithms/sdssUBVRITransform/#Lupton2005</a>.                  Category=EXT-MEDIUM                  Description=[ABSORPTION LINE SYSTEM - EXTRAGALACTIC, EJECTA, HALO, WIND]                  Extended=NO</i>										
<b>Exposures</b>	<b>#</b>	<b>Label (ETC Run)</b>	<b>Target</b>	<b>Config,Mode,Aperture</b>	<b>Spectral Els.</b>	<b>Opt. Params.</b>	<b>Special Reqs.</b>	<b>Groups</b>	<b>Exp. Time (Total)/[Actual Dur.]</b>	<b>Orbit</b>
	1	(COS.ta.101 1908)	(10) 2MASX-J10053 271-2417161	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				10 Secs (10 Secs) [==>]	[1]
	2	(COS.sp.101 3883)	(10) 2MASX-J10053 271-2417161	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=45 48; FP-POS=3			2492 Secs (2492 Secs) [==>]	[1]
	3	(COS.sp.101 3883)	(10) 2MASX-J10053 271-2417161	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=45 48; FP-POS=4			2791 Secs (2791 Secs) [==>]	[2]

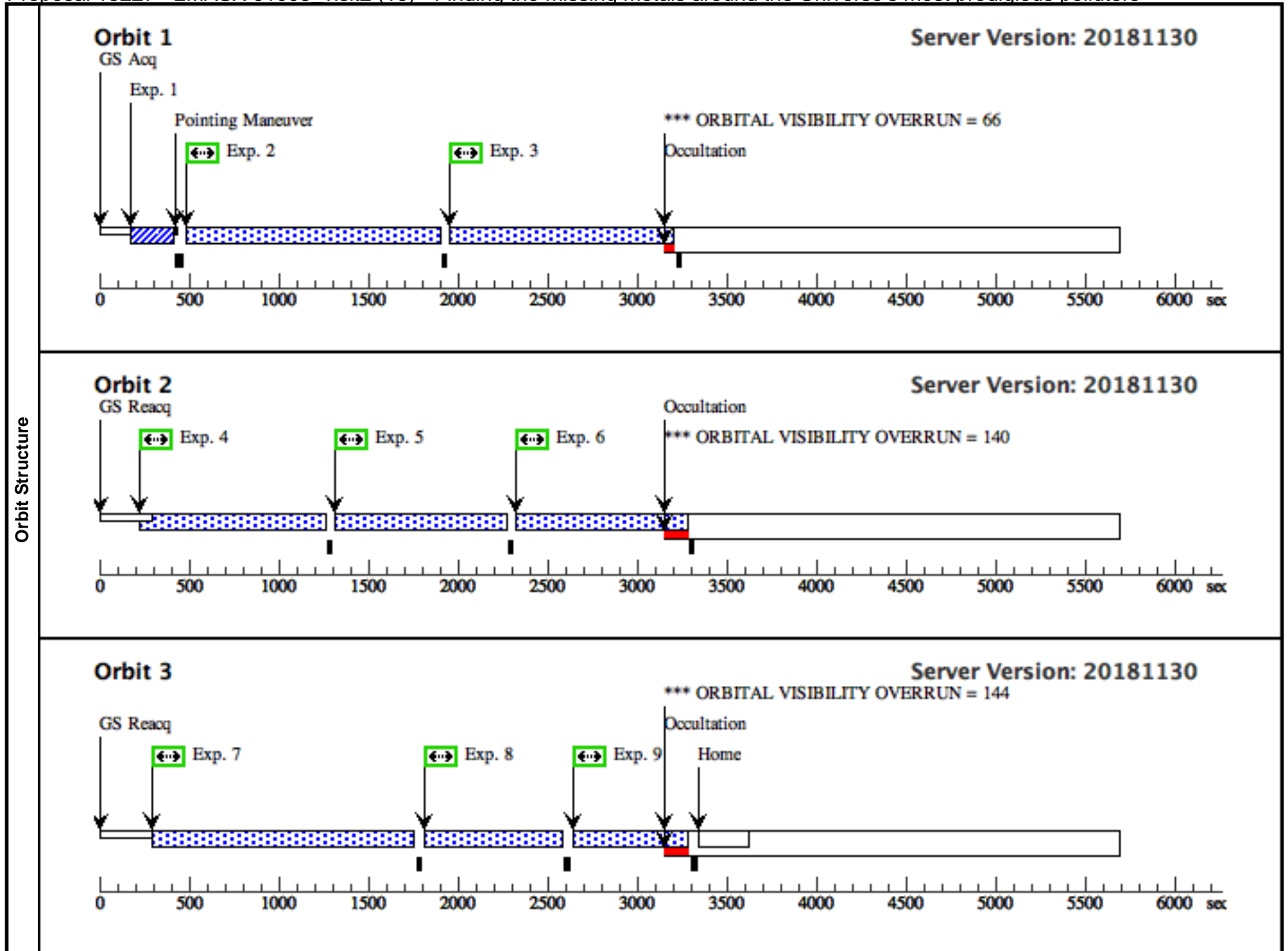


Proposal 15227 - 2MASX-J1005\_visit2 (16) - Finding the missing metals around the Universe's most prodigious polluters

<b>Visit</b>	<b>Proposal 15227, 2MASX-J1005_visit2 (16), completed</b> <span style="float: right;">Tue May 28 17:06:21 GMT 2019</span>																	
	<b>Diagnostic Status: Warning</b> Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																	
<b>Diagnostics</b>	(2MASX-J1005_visit2 (16)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.																	
	(2MASX-J1005_visit2 (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																	
	(2MASX-J1005_visit2 (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																	
	(2MASX-J1005_visit2 (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																	
<b>Fixed Targets</b>	<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>(10)</td> <td>2MASX-J10053271-2417161</td> <td>                     RA: 10 05 32.7408 (151.3864200d)                      Dec: -24 17 16.14 (-24.28782d)                      Equinox: J2000                 </td> <td>Redshift: 0.154</td> <td>                     V=17.192+/-0.005                      FUV mag: 18.2,                      NUV mag: 17.99                 </td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(10)	2MASX-J10053271-2417161	RA: 10 05 32.7408 (151.3864200d) Dec: -24 17 16.14 (-24.28782d) Equinox: J2000	Redshift: 0.154	V=17.192+/-0.005 FUV mag: 18.2, NUV mag: 17.99	Reference Frame: ICRS	Comments: Coordinates given here come from the PanSTARRS database. These coordinates agree with those given by 2MASS within 0.05 arcsec. We have adopted 0.1 arcsec as a conservative uncertainty. We are not aware of any variability in this target. The V magnitude above has been converted from PanSTARRS g- and r-band photometry using the Lupton (2005) filter transformations provided by SDSS at <a href="http://www.sdss.org/dr13/algorithms/sdssUBVRITransform/#Lupton2005">http://www.sdss.org/dr13/algorithms/sdssUBVRITransform/#Lupton2005</a> . Category=EXT-MEDIUM Description=[ABSORPTION LINE SYSTEM - EXTRAGALACTIC, EJECTA, HALO, WIND] Extended=NO				
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(10)	2MASX-J10053271-2417161	RA: 10 05 32.7408 (151.3864200d) Dec: -24 17 16.14 (-24.28782d) Equinox: J2000	Redshift: 0.154	V=17.192+/-0.005 FUV mag: 18.2, NUV mag: 17.99	Reference Frame: ICRS													

Proposal 15227 - 2MASX-J1005 visit2 (16) - Finding the missing metals around the Universe's most prodigious polluters

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(COS.ta.101 1908)	(10) 2MASX-J10053 271-2417161	COS/NUV, ACQ/IMAGE, PSA	MIRRORA			10 Secs (10 Secs) [==>]	[1]
	2	(COS.sp.101 3891)	(10) 2MASX-J10053 271-2417161	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=15 924		1200 Secs (1200 Secs) [==>]	[1]
	3	(COS.sp.101 3891)	(10) 2MASX-J10053 271-2417161	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=15 924		1200 Secs (1200 Secs) [==>]	[1]
	4	(COS.sp.100 9077)	(10) 2MASX-J10053 271-2417161	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=1; SEGMENT=BOTH; BUFFER-TIME=15 389		907 Secs (907 Secs) [==>]	[2]
	5	(COS.sp.101 3887)	(10) 2MASX-J10053 271-2417161	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=2; SEGMENT=BOTH; BUFFER-TIME=15 389		907 Secs (907 Secs) [==>]	[2]
	6	(COS.sp.101 3887)	(10) 2MASX-J10053 271-2417161	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=15 389		907 Secs (907 Secs) [==>]	[2]
	7	(COS.sp.101 3888)	(10) 2MASX-J10053 271-2417161	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=15 389		1411 Secs (1411 Secs) [==>]	[3]
	8	(COS.sp.101 3885)	(10) 2MASX-J10053 271-2417161	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=45 48; FP-POS=3		596 Secs (596 Secs) [==>]	[3]
	9	(COS.sp.101 3885)	(10) 2MASX-J10053 271-2417161	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=45 48; FP-POS=4		589 Secs (589 Secs) [==>]	[3]



Orbit Structure

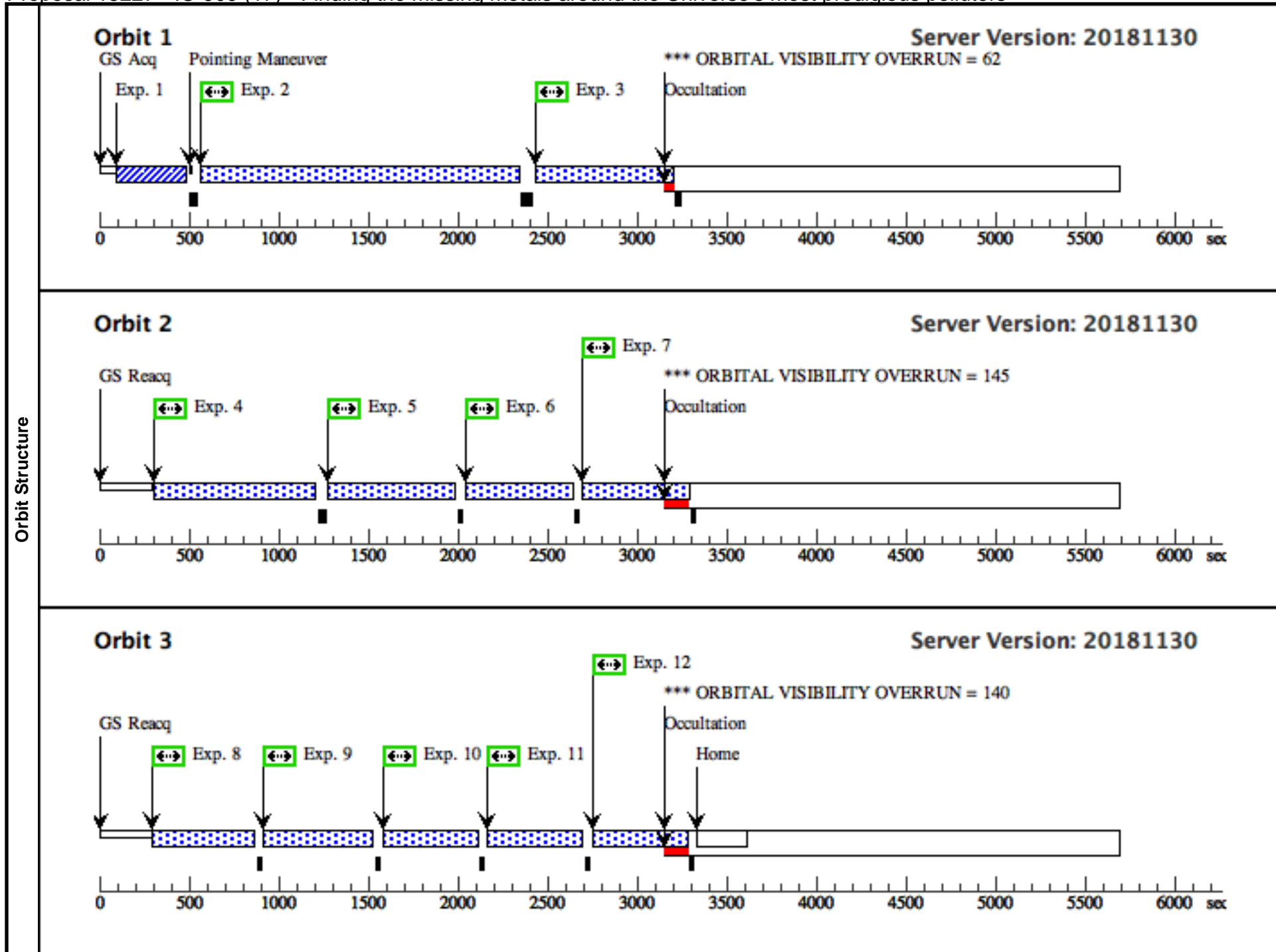
Proposal 15227 - IC-909 (17) - Finding the missing metals around the Universe's most prodigious polluters

Tue May 28 17:06:21 GMT 2019

<b>Visit</b>	<p><b>Proposal 15227, IC-909 (17), completed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p>																	
	<p><b>Diagnosics</b></p> <p>(IC-909 (17)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(IC-909 (17)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(IC-909 (17)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(IC-909 (17)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Exposure 2 (IC-909 (17))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 3 (IC-909 (17))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 4 (IC-909 (17))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 5 (IC-909 (17))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 6 (IC-909 (17))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 7 (IC-909 (17))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 8 (IC-909 (17))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 9 (IC-909 (17))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 10 (IC-909 (17))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 11 (IC-909 (17))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 12 (IC-909 (17))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p>																	
<b>Fixed Targets</b>	<table border="1"> <thead> <tr> <th data-bbox="142 721 241 748">#</th> <th data-bbox="241 721 478 748">Name</th> <th data-bbox="478 721 898 748">Target Coordinates</th> <th data-bbox="898 721 1234 748">Targ. Coord. Corrections</th> <th data-bbox="1234 721 1549 748">Fluxes</th> <th data-bbox="1549 721 1995 748">Miscellaneous</th> </tr> </thead> <tbody> <tr> <td data-bbox="142 748 241 852">(11)</td> <td data-bbox="241 748 478 852">IC-909</td> <td data-bbox="478 748 898 852">RA: 13 40 51.1500 (205.2131250d) Dec: +24 28 23.85 (24.47329d) Equinox: J2000</td> <td data-bbox="898 748 1234 852">Redshift: 0.027</td> <td data-bbox="1234 748 1549 852">V=16.75+/-0.005 FUV mag = 17.24, NUV mag: 16.69</td> <td data-bbox="1549 748 1995 852">Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: The V magnitude above has been converted from SDSS DR12 g- and r-band photometry using the Lupton (2005) filter transformations provided by SDSS at <a href="http://www.sdss.org/dr13/algorithms/sdssUBVRITransform/#Lupton2005">http://www.sdss.org/dr13/algorithms/sdssUBVRITransform/#Lupton2005</a>.</i></p> <p><i>We are not aware of any variability in this target.</i></p> <p><i>We have indicated this target as 'extended' based on the optical photometry (the AGN host galaxy is at relatively low redshift). However, we expect the central concentration of the AGN to dominate the signal and minimize issues arising from spatially extended flux.</i></p> <p><i>Category=EXT-MEDIUM</i></p> <p><i>Description=[ABSORPTION LINE SYSTEM - EXTRAGALACTIC, EJECTA, HALO, WIND]</i></p> <p><i>Extended=YES</i></p>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(11)	IC-909	RA: 13 40 51.1500 (205.2131250d) Dec: +24 28 23.85 (24.47329d) Equinox: J2000	Redshift: 0.027	V=16.75+/-0.005 FUV mag = 17.24, NUV mag: 16.69	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(11)	IC-909	RA: 13 40 51.1500 (205.2131250d) Dec: +24 28 23.85 (24.47329d) Equinox: J2000	Redshift: 0.027	V=16.75+/-0.005 FUV mag = 17.24, NUV mag: 16.69	Reference Frame: ICRS													

Proposal 15227 - IC-909 (17) - Finding the missing metals around the Universe's most prodigious polluters

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	IC-909_acq (COS.ta.101 3892)	(11) IC-909	COS/NUV, ACQ/IMAGE, PSA	MIRRORB					50 Secs (50 Secs) [==>]	[1]
	2	(COS.sp.101 3896)	(11) IC-909	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=34 19; FP-POS=3			1611 Secs (1611 Secs) [==>]	[1]	
	3	(COS.sp.101 3897)	(11) IC-909	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=34 19			720 Secs (720 Secs) [==>]	[1]	
	4	(COS.sp.101 3898)	(11) IC-909	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=34 19			854 Secs (854 Secs) [==>]	[2]	
	5	(COS.sp.101 3900)	(11) IC-909	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; SEGMENT=BOTH; BUFFER-TIME=98 11			543 Secs (543 Secs) [==>]	[2]	
	6	(COS.sp.101 3900)	(11) IC-909	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=2; SEGMENT=BOTH; BUFFER-TIME=98 11			543 Secs (543 Secs) [==>]	[2]	
	7	(COS.sp.101 3900)	(11) IC-909	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=98 11			543 Secs (543 Secs) [==>]	[2]	
	8	(COS.sp.101 3901)	(11) IC-909	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=98 11			515 Secs (515 Secs) [==>]	[3]	
	9	(COS.sp.101 3899)	(11) IC-909	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=1; SEGMENT=BOTH; BUFFER-TIME=93 09			480 Secs (480 Secs) [==>]	[3]	
	10	(COS.sp.101 3899)	(11) IC-909	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=2; SEGMENT=BOTH; BUFFER-TIME=93 09			480 Secs (480 Secs) [==>]	[3]	
	11	(COS.sp.101 3899)	(11) IC-909	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=93 09			480 Secs (480 Secs) [==>]	[3]	
12	(COS.sp.101 3899)	(11) IC-909	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=93 09			480 Secs (480 Secs) [==>]	[3]		



Orbit Structure

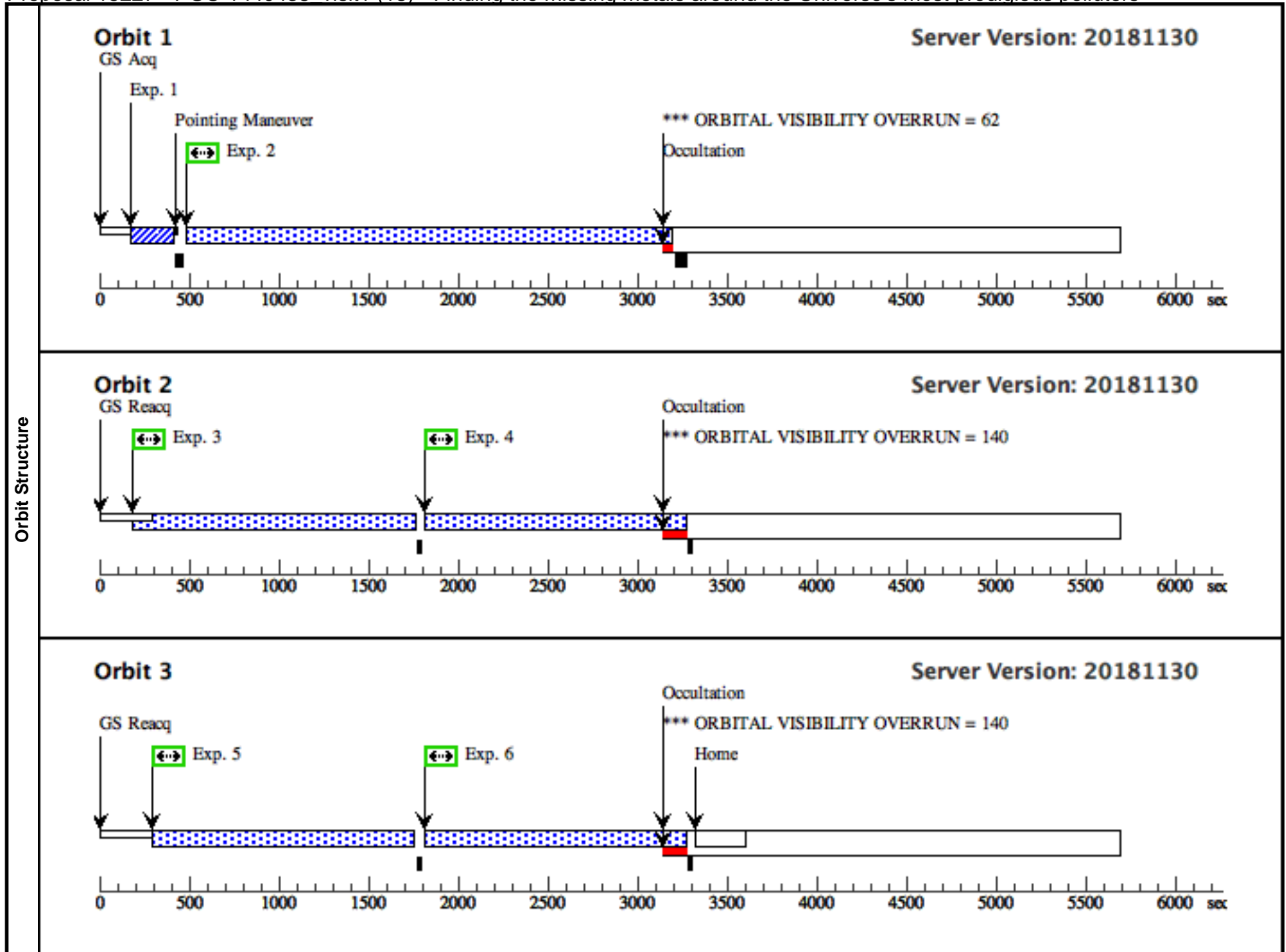
Proposal 15227 - PGC-1440438\_visit1 (18) - Finding the missing metals around the Universe's most prodigious polluters

Tue May 28 17:06:21 GMT 2019

<b>Visit</b>	<p><b>Proposal 15227, PGC-1440438_visit1 (18), completed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p>						
	<b>Diagnostics</b>	<p>(PGC-1440438_visit1 (18)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(PGC-1440438_visit1 (18)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(PGC-1440438_visit1 (18)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(PGC-1440438_visit1 (18)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Exposure 2 (PGC-1440438_visit1 (18))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 3 (PGC-1440438_visit1 (18))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 4 (PGC-1440438_visit1 (18))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 5 (PGC-1440438_visit1 (18))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 6 (PGC-1440438_visit1 (18))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p>					
<b>Fixed Targets</b>		<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
		(12)	PGC-1440438	RA: 13 00 36.2100 (195.1508750d) Dec: +13 47 5.68 (13.78491d) Equinox: J2000	Redshift: 0.143	V=17.24+/-0.005 FUV mag = 18.4, NUV mag = 18.21	Reference Frame: ICRS
		<p><i>Comments: The V magnitude above has been converted from SDSS DR12 g- and r-band photometry using the Lupton (2005) filter transformations provided by SDSS at <a href="http://www.sdss.org/dr13/algorithms/sdssUBVRITransform/#Lupton2005">http://www.sdss.org/dr13/algorithms/sdssUBVRITransform/#Lupton2005</a>.</i></p> <p><i>We are not aware of any variability in this target.</i></p> <p><i>We have indicated this target as 'extended' based on the optical photometry (the AGN host galaxy is at relatively low redshift). However, we expect the central concentration of the AGN to dominate the signal and minimize issues arising from spatially extended flux.</i></p> <p><i>Category=EXT-MEDIUM</i></p> <p><i>Description=[ABSORPTION LINE SYSTEM - EXTRAGALACTIC, EJECTA, WIND]</i></p> <p><i>Extended=YES</i></p>					

Proposal 15227 - PGC-1440438 visit1 (18) - Finding the missing metals around the Universe's most prodigious polluters

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	(COS.ta.101 1926)	(12) PGC-1440438	COS/NUV, ACQ/IMAGE, PSA	MIRRORA					10 Secs (10 Secs)	
									[==>]	[1]	
	2	(COS.sp.101 3906)	(12) PGC-1440438	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=47 21; FP-POS=3				2546 Secs (2546 Secs)	
									[==>]	[1]	
	3	(COS.sp.101 3912)	(12) PGC-1440438	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; SEGMENT=BOTH; BUFFER-TIME=17 111				1408 Secs (1408 Secs)	
									[==>]	[2]	
	4	(COS.sp.101 3912)	(12) PGC-1440438	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=2; SEGMENT=BOTH; BUFFER-TIME=17 111				1408 Secs (1408 Secs)	
									[==>]	[2]	
	5	(COS.sp.101 3913)	(12) PGC-1440438	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=17 111				1409 Secs (1409 Secs)	
								[==>]	[3]		
6	(COS.sp.101 3913)	(12) PGC-1440438	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=17 111				1409 Secs (1409 Secs)		
								[==>]	[3]		



Orbit Structure

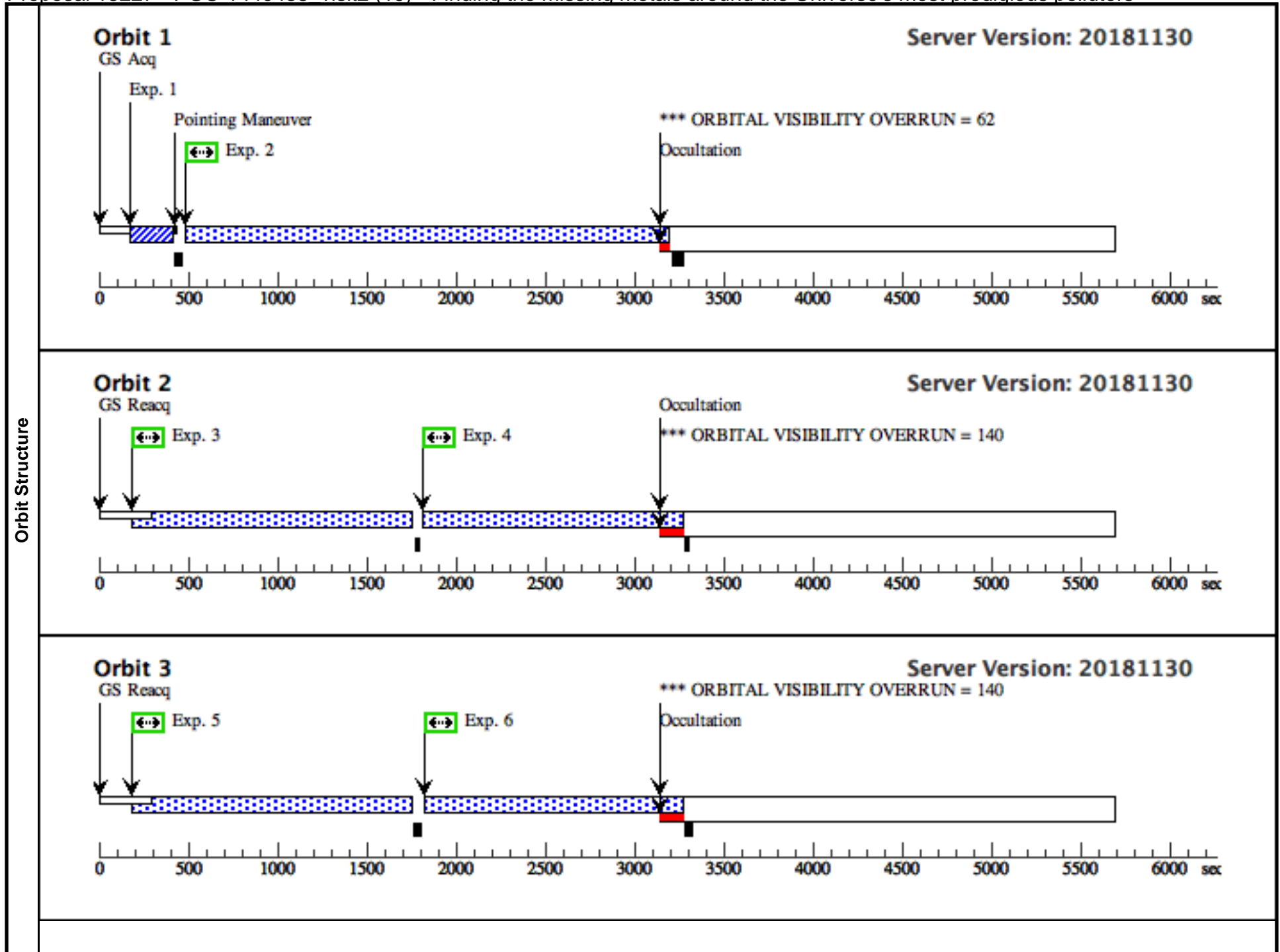
Proposal 15227 - PGC-1440438\_visit2 (19) - Finding the missing metals around the Universe's most prodigious polluters

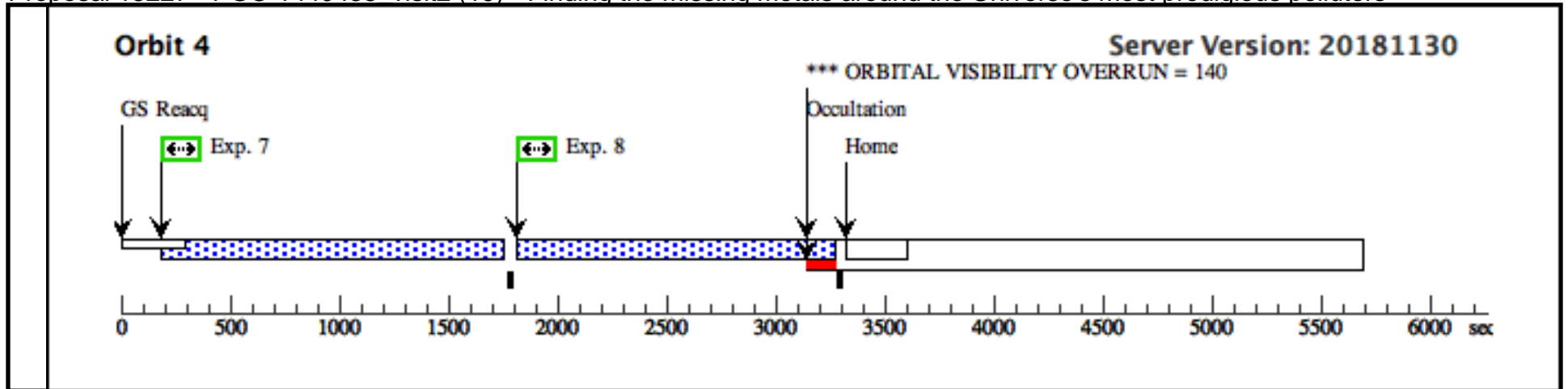
Tue May 28 17:06:21 GMT 2019

<b>Visit</b>	<p><b>Proposal 15227, PGC-1440438_visit2 (19), completed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p>						
	<b>Diagnostics</b>	<p>(PGC-1440438_visit2 (19)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(PGC-1440438_visit2 (19)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(PGC-1440438_visit2 (19)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(PGC-1440438_visit2 (19)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(PGC-1440438_visit2 (19)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Exposure 2 (PGC-1440438_visit2 (19))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 3 (PGC-1440438_visit2 (19))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 4 (PGC-1440438_visit2 (19))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 5 (PGC-1440438_visit2 (19))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 6 (PGC-1440438_visit2 (19))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 7 (PGC-1440438_visit2 (19))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 8 (PGC-1440438_visit2 (19))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p>					
<b>Fixed Targets</b>		<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
		(12)	PGC-1440438	RA: 13 00 36.2100 (195.1508750d) Dec: +13 47 5.68 (13.78491d) Equinox: J2000	Redshift: 0.143	V=17.24+/-0.005 FUV mag = 18.4, NUV mag = 18.21	Reference Frame: ICRS
		<p><i>Comments: The V magnitude above has been converted from SDSS DR12 g- and r-band photometry using the Lupton (2005) filter transformations provided by SDSS at <a href="http://www.sdss.org/dr13/algorithms/sdssUBVRITransform/#Lupton2005">http://www.sdss.org/dr13/algorithms/sdssUBVRITransform/#Lupton2005</a>.</i></p> <p><i>We are not aware of any variability in this target.</i></p> <p><i>We have indicated this target as 'extended' based on the optical photometry (the AGN host galaxy is at relatively low redshift). However, we expect the central concentration of the AGN to dominate the signal and minimize issues arising from spatially extended flux.</i></p> <p><i>Category=EXT-MEDIUM</i></p> <p><i>Description=[ABSORPTION LINE SYSTEM - EXTRAGALACTIC, EJECTA, WIND]</i></p> <p><i>Extended=YES</i></p>					

Proposal 15227 - PGC-1440438 visit2 (19) - Finding the missing metals around the Universe's most prodigious polluters

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	(COS.ta.101 1926)	(12) PGC-1440438	COS/NUV, ACQ/IMAGE, PSA	MIRRORA					10 Secs (10 Secs) [==>]	[1]
	2	(COS.sp.101 3906)	(12) PGC-1440438	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=47 21; FP-POS=4				2546 Secs (2546 Secs) [==>]	[1]
	3	(COS.sp.101 3910)	(12) PGC-1440438	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=1; SEGMENT=BOTH; BUFFER-TIME=16 595				1408 Secs (1408 Secs) [==>]	[2]
	4	(COS.sp.101 3910)	(12) PGC-1440438	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=2; SEGMENT=BOTH; BUFFER-TIME=16 595				1408 Secs (1408 Secs) [==>]	[2]
	5	(COS.sp.101 3907)	(12) PGC-1440438	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=47 21; FP-POS=3				1399 Secs (1399 Secs) [==>]	[3]
	6	(COS.sp.101 3909)	(12) PGC-1440438	COS/FUV, TIME-TAG, PSA	G130M 1291 A	SEGMENT=BOTH; BUFFER-TIME=47 21; FP-POS=4				1398 Secs (1398 Secs) [==>]	[3]
	7	(COS.sp.101 3910)	(12) PGC-1440438	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=16 595				1408 Secs (1408 Secs) [==>]	[4]
	8	(COS.sp.101 3910)	(12) PGC-1440438	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=16 595				1408 Secs (1408 Secs) [==>]	[4]

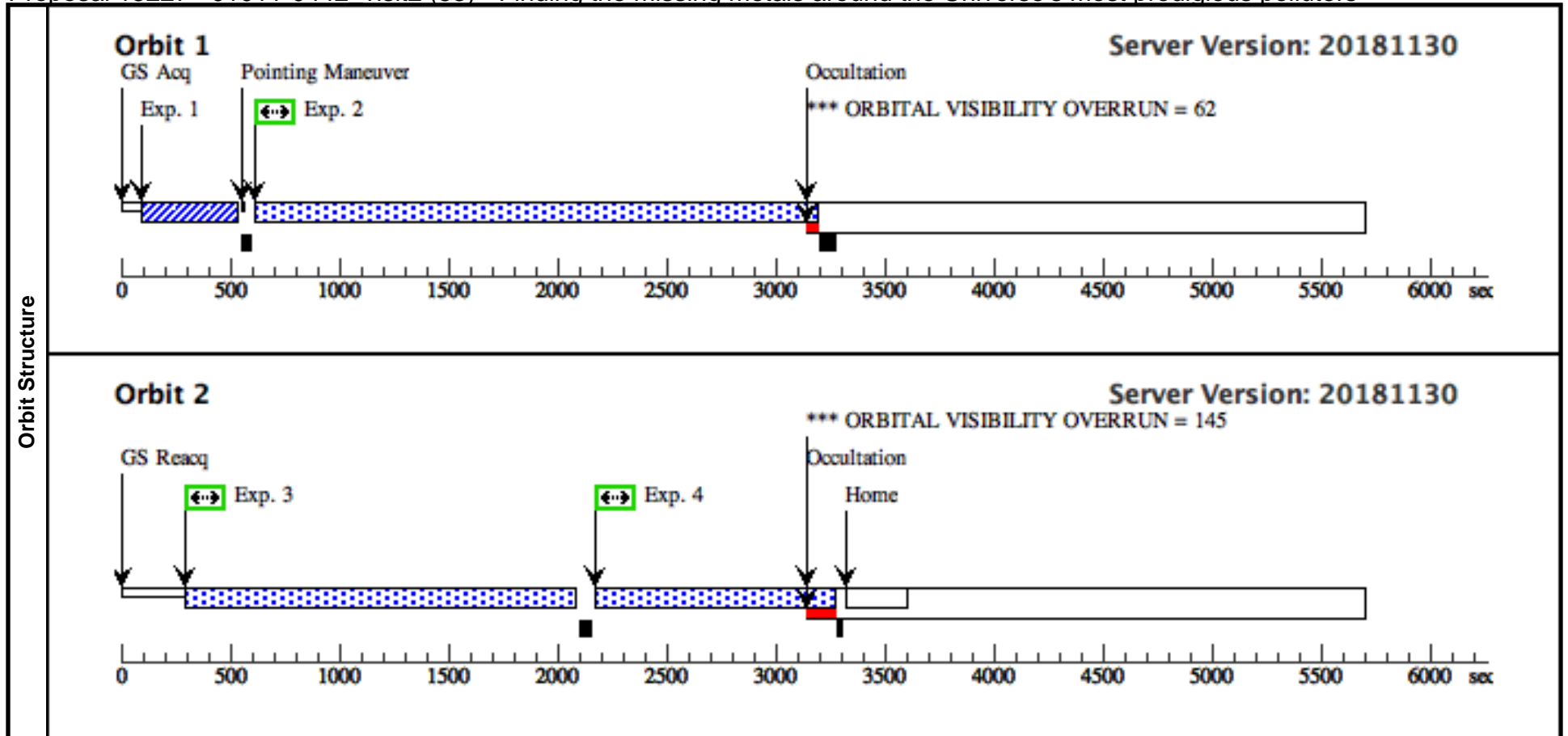




Proposal 15227 - J1011-0442\_visit2 (53) - Finding the missing metals around the Universe's most prodigious polluters

Tue May 28 17:06:21 GMT 2019

<b>Visit</b>	<p><b>Proposal 15227, J1011-0442_visit2 (53), completed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: In the interest of S/N in the spectral regions critical to our science goals, we are employing 3 FP-POS settings for our G160M/1623 observations of this target instead of all 4. The COS User Support Lead has approved our request for this observing plan.</i></p>																																																						
	<p>(J1011-0442_visit2 (53)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(J1011-0442_visit2 (53)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(J1011-0442_visit2 (53)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>																																																						
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	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																	
(2)	UVQSJ101124.51-044215.5	RA: 10 11 24.4700 (152.8519583d) Dec: -04 42 16.35 (-4.70454d) Equinox: J2000	Redshift: 0.519	V=17.01+/-0.013 FUV mag: 17.74, NUV mag: 17.22	Reference Frame: ICRS																																																		
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Proposal 15227 - J1338+2430\_visit1 (55) - Finding the missing metals around the Universe's most prodigious polluters

Tue May 28 17:06:21 GMT 2019

<b>Visit</b>	<p><b>Proposal 15227, J1338+2430_visit1 (55), completed</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: We are employing 2 FP-POS settings at each cenwave for our G160M/1600 and G160M/1623 observations of this target instead of all 4. The COS User Support Lead has approved our request for this observing plan.</i></p>																																																											
	<p>(J1338+2430_visit1 (55)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(Exposure 2 (J1338+2430_visit1 (55))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 3 (J1338+2430_visit1 (55))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p> <p>(Exposure 4 (J1338+2430_visit1 (55))) Warning (Form): COS FUV PSA science exposures with extended targets have special calibration limitations. See "Errors and Warnings" for more details.</p>																																																											
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<b>Fixed Targets</b>	<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>UVQSJ133843.53+243003.0</td> <td>RA: 13 38 43.5400 (204.6814167d) Dec: +24 30 3.14 (24.50087d) Equinox: J2000</td> <td>Redshift: 0.055</td> <td>V=14.96+/-0.005 FUV mag: 17.98, NUV mag: 17.59</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: The V magnitude above has been converted from SDSS DR12 g- and r-band photometry using the Lupton (2005) filter transformations provided by SDSS at <a href="http://www.sdss.org/dr13/algorithms/sdssUBVRITransform/#Lupton2005">http://www.sdss.org/dr13/algorithms/sdssUBVRITransform/#Lupton2005</a>.</i></p> <p><i>We are not aware of any variability in this target.</i></p> <p><i>We have indicated this target as 'extended' based on the optical photometry (the AGN host galaxy is at relatively low redshift). However, we expect the central concentration of the AGN to dominate the signal and minimize issues arising from spatially extended flux.</i></p> <p>Category=EXT-MEDIUM Description=[ABSORPTION LINE SYSTEM - EXTRAGALACTIC, HALO] Extended=YES</p>										#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(4)	UVQSJ133843.53+243003.0	RA: 13 38 43.5400 (204.6814167d) Dec: +24 30 3.14 (24.50087d) Equinox: J2000	Redshift: 0.055	V=14.96+/-0.005 FUV mag: 17.98, NUV mag: 17.59	Reference Frame: ICRS																																						
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