15639 - Lyman continuum leakage in z~0.3 - 0.4 dwarf compact star-forming galaxies with stellar masses < 1.e8 Msun

Cycle: 26, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

Name	*Institution*	*E-Mail*
Dr. Yuri I. Izotov (PI) (Contact)	**Ukrainian National Academy of Sciences, BITP**	**yizotov@bitp.kiev.ua**
Dr. Natalia G. Guseva (CoI)	Ukrainian National Academy of Sciences, BITP	nguseva@bitp.kiev.ua
Dr. Gabor Worseck (CoI) (ESA Member)	Universitat Potsdam	gworseck@uni-potsdam.de
Prof. Daniel Schaerer (CoI) (ESA Member)	Observatoire de Geneve	daniel.schaerer@unige.ch
Prof. Trinh Xuan Thuan (CoI) (AdminUSPI)	The University of Virginia	txt@virginia.edu
Dr. John Chisholm (CoI)	University of California - Santa Cruz	jochisho@ucsc.edu
Prof. Anne Verhamme (CoI) (ESA Member)	Observatoire de Geneve	anne.verhamme@unige.ch
Prof. Klaus J. Fricke (CoI) (ESA Member)	Universitats-Sternwarte Gottingen	kfricke@gwdg.de

VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(1) J0232-0426	COS/FUV COS/NUV	5	10-Mar-2020 12:00:57.0	yes
02	(2) J0919+4906	COS/FUV COS/NUV	5	10-Mar-2020 12:00:59.0	yes
03	(3) J1046+5827	COS/FUV COS/NUV	5	10-Mar-2020 12:01:00.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
04	(4) J1121+3806	COS/FUV COS/NUV	5	10-Mar-2020 12:01:02.0	yes
05	(5) J1127+4610	COS/FUV COS/NUV	5	10-Mar-2020 12:01:04.0	yes
06	(6) J1233+4959	COS/FUV COS/NUV	5	10-Mar-2020 12:01:06.0	yes
07	(7) J1349+5631	COS/FUV COS/NUV	5	10-Mar-2020 12:01:07.0	yes
08	(8) J1355+1457	COS/FUV COS/NUV	5	10-Mar-2020 12:01:09.0	yes
58	(8) J1355+1457	COS/FUV COS/NUV	5	10-Mar-2020 12:01:11.0	yes
09	(9) J1455+6107	COS/FUV COS/NUV	5	10-Mar-2020 12:01:13.0	yes

50 Total Orbits Used

ABSTRACT

One of the key questions in observational cosmology is the identification of the sources responsible for cosmic reionization. The general consensus is that a population of faint low-mass galaxies must be responsible for the bulk of the ionizing photons. However, until recently, attempts at identifying individual galaxies showing Lyman continuum (LyC) leakage have only found very few such galaxies, both at high and low redshifts. A breakthrough was recently achieved by Izotov et al. (2016ab, 2018ab), who detected LyC emission in eleven out of eleven low-redshift (z~0.3) compact star-forming galaxies (SFG) with LyC escape fractions of 2-72%, using HST/COS observations. However, all these galaxies have relatively high stellar masses > 1e8 solar masses while it is generally thought that the lower mass galaxies were the main sources of the reionization of the Universe. It is proposed here to extend previous studies to nine compact SFGs at z~0.3-0.4 with lower stellar masses in the range ~2e7 - 1e8 Msun, a range which has not been explored by HST/COS. This will allow to determine if they are also LyC leakers and if the LyC escape fraction continues to rise with decreasing stellar masses. Finally the requested COS observations will allow for the determination of the Lyman alpha line profile of these objects, providing thus an empirical probe of this indirect LyC leakage indicator. Since the low-mass compact SFGs share many properties with typical SFGs at high redshift this study will provide important insight on the sources of cosmic reionization.

OBSERVING DESCRIPTION

The nine selected galaxies are sufficiently faint to satisfy safety conditions for observing with the COS. Furthermore, there are no sources brighter than the COS safety limits in circular regions with the diameter of 43 arcsec centered on the selected galaxies.
In all exposure time calculations the angular galaxy radius is chosen to be 0.2 arcsec, inside which most of the galaxy light is concentrated.
NUV acquisition images of the targets will be obtained with the standard Mirror A and the AQN/IMAGE mode, with exposures of ~800 - 900 seconds to reach a S/N~20 inside a 9x9 pixel box centered on the brightest part of the galaxy. The GALEX NUV magnitudes were adopted to estimate S/N, excluding J1121+3806, for which the GALEX NUV magnitude is absent and it was estimated from extrapolation of the SED using SDSS optical spectrum. This object is seen in the DSS. The total time for acquisition is up to 120s+2x900s=1920s per object (HST Primer manual), or ~2/3 orbit. As a bonus, it will be possible to study the UV morphology of the selected objects with these images.

The COS will be used in combination with the following 2 gratings:
1) the medium-resolution G160M grating to observe the Ly-alpha line with the resolution better than ~50 km/s, sufficient to separate blue and red peaks. The required number of orbits to obtain a S/N>2-4 of the continuum near Ly-alpha line for a 100-pixel binned spectrum is derived adopting a flux density at the wavelength 1216x(1+z) obtained from the SED fit of the optical spectrum. This exposure would be enough to obtain the Ly-alpha profile with a sufficient accuracy for measurements of
peak separation and radiative transfer modeling;
2) the low-resolution G140L grating centered at 800A to measure the LyC. The required number of orbits for each object is calculated so as to detect the LyC at the level above 3sigma with a 400-pixel binning of the data at the observed wavelength 912x(1+z). For the LyC, the escape fraction of approximately 10% and the intrinsic LyC flux density obtained from the relation I(Hbeta)/I(912) = 9 A are adopted, where I(Hbeta) is the extinction-corrected flux of the Hbeta emission line.
For each target are needed ~2/3 orbit for acquisition, ~1.3 orbit for the spectrum with the medium-resolution G160M grating, and 3 orbits for the spectrum with the low-resolution G140L grating, totalling 5 orbits per object. We request a total of 45 orbits for 9 objects.

Visit

Proposal 15639, Visit 01, completed Tue Mar 10 16:01:14 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 01) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

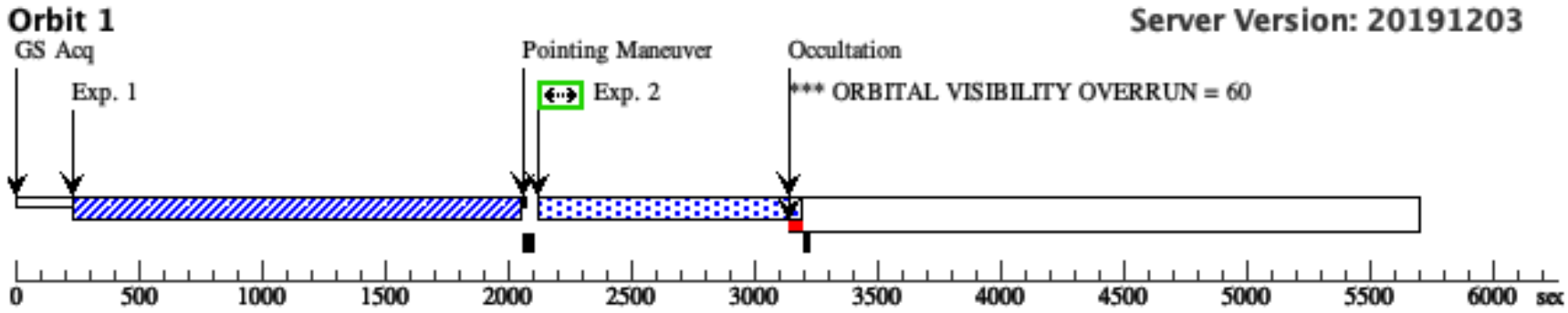
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	J0232-0426	RA: 02 32 16.0900 (38.0670417d) Dec: -04 26 26.72 (-4.44076d) Equinox: J2000	Redshift: 0.45232	V=22.13+/-0.11 NUV=21.25+/-0.02, I(912)=4e-18 (~10 percent of the intrinsic flux), I(1216x(1+z))=I(1765A)=4e-17	Reference Frame: ICRS

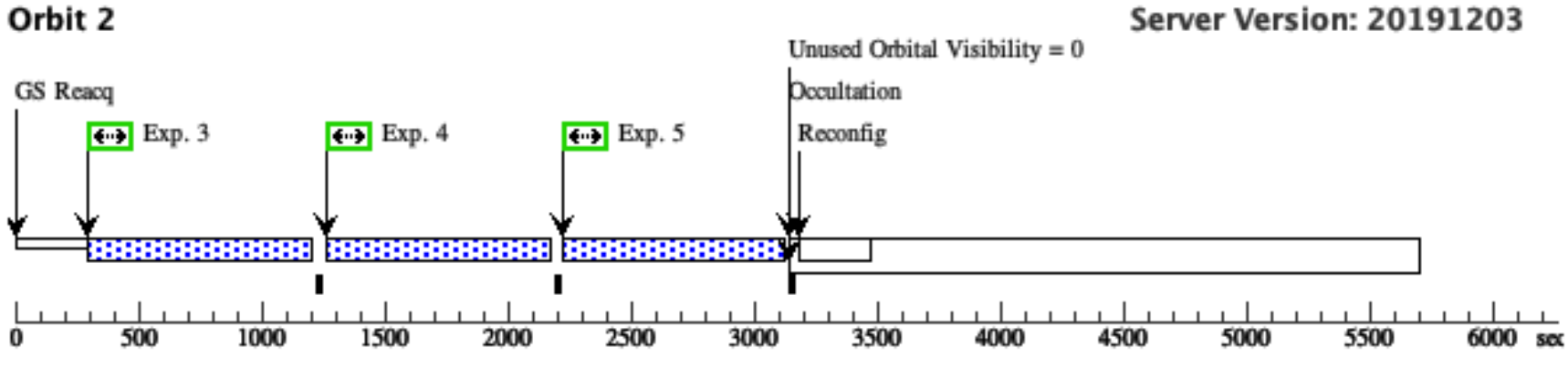
Comments: The object is compact. The coordinates of the brightest pixel were measured with Aladin v8.0 using SDSS images.
Category=GALAXY
Description=[DWARF COMPACT, STARBURST]
Extended=NO

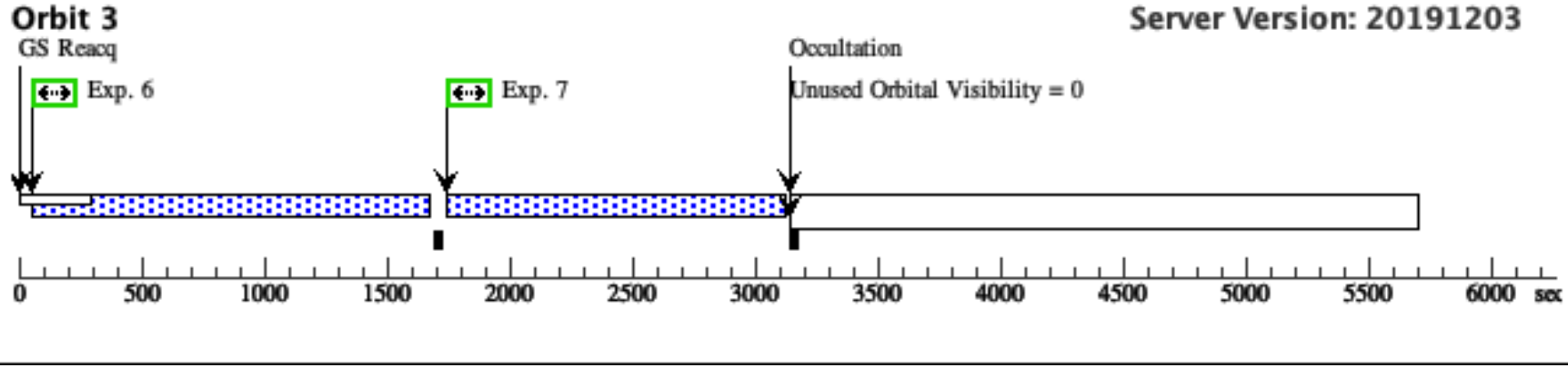
Exposures

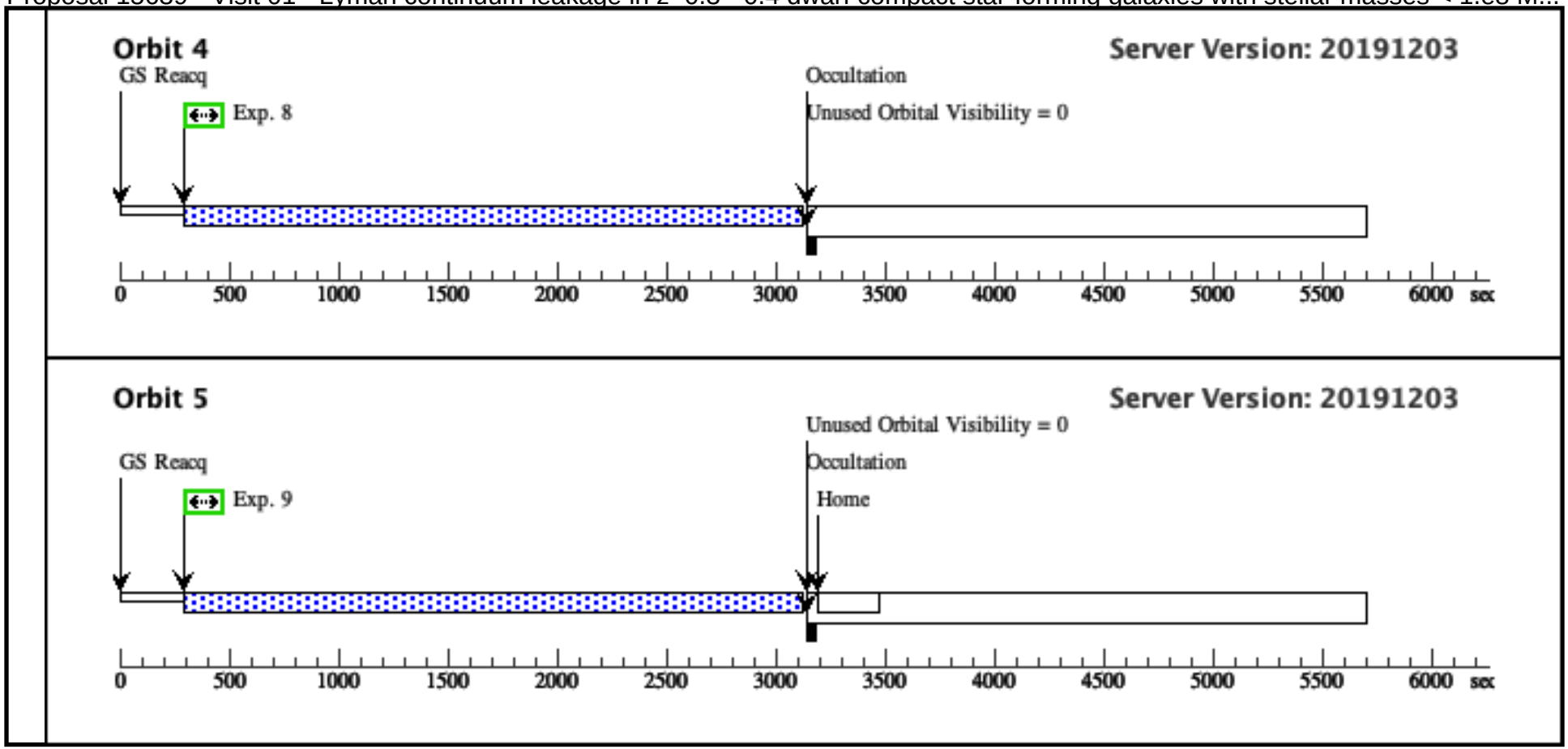
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	J0232-0426 ACQ (COS.ta.1297176)	(1) J0232-0426	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				800 Secs (800 Secs) *[==>]*	***[1]***
2	J0232-0426 G160M#1 (COS.sp.1297897)	(1) J0232-0426	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=1; SEGMENT=BOTH			2900 Secs (844 Secs) *[==>844.0 Secs]*	***[1]***
3	J0232-0426 G160M#2 (COS.sp.1297897)	(1) J0232-0426	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=2; SEGMENT=BOTH			2900 Secs (860 Secs) *[==>860.0 Secs]*	***[2]***
4	J0232-0426 G160M#3 (COS.sp.1297897)	(1) J0232-0426	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=3; SEGMENT=BOTH			2900 Secs (860 Secs) *[==>860.0 Secs]*	***[2]***
5	J0232-0426 G160M#4 (COS.sp.1297897)	(1) J0232-0426	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=4; SEGMENT=BOTH			2900 Secs (846 Secs) *[==>846.0 Secs]*	***[2]***
6	J0232-0426 G140L#1 (COS.sp.1297770)	(1) J0232-0426	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=1; SEGMENT=A			1500 Secs (1329 Secs) *[==>1329.0 Secs]*	***[3]***
7	J0232-0426 G140L#2 (COS.sp.1297770)	(1) J0232-0426	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=2; SEGMENT=A			1500 Secs (1330 Secs) *[==>1330.0 Secs]*	***[3]***
8	J0232-0426 G140L#3 (COS.sp.1297770)	(1) J0232-0426	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=3; SEGMENT=A			1500 Secs (2776 Secs) *[==>2776.0 Secs]*	***[4]***
9	J0232-0426 G140L#4 (COS.sp.1297770)	(1) J0232-0426	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=4; SEGMENT=A			1500 Secs (2776 Secs) *[==>2776.0 Secs]*	***[5]***

Orbit Structure





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Orbit 5
Server Version: 20191203
Unused Orbital Visibility = 0
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Exp. 9
Occultation
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Visit

Proposal 15639, Visit 02, scheduling Tue Mar 10 16:01:14 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 02) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

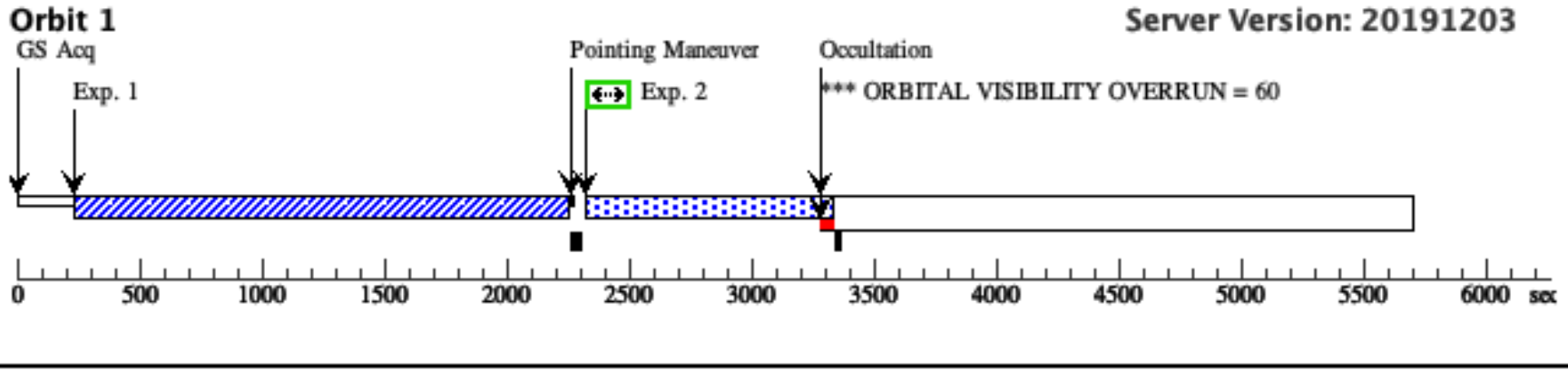
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	J0919+4906	RA: 09 19 55.7800 (139.9824167d) Dec: +49 06 8.75 (49.10243d) Equinox: J2000	Redshift: 0.40511	V=21.97+/-0.08 FUV=22.05+/-0.29, NUV=21.92+/-0.12, I(912)=8e-18 (~10 percent of the intrinsic flux), I(1216x(1+z))=I(1709A)=3e-17	Reference Frame: ICRS

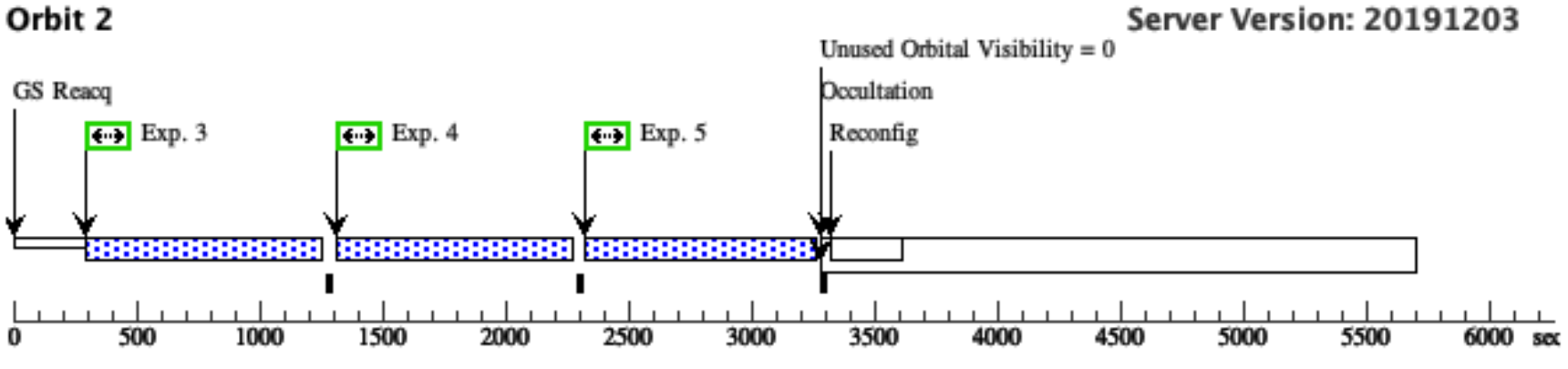
Comments: The object is compact. The coordinates of the brightest pixel were measured with Aladin v8.0 using SDSS images.
Category=GALAXY
Description=[DWARF COMPACT, STARBURST]
Extended=NO

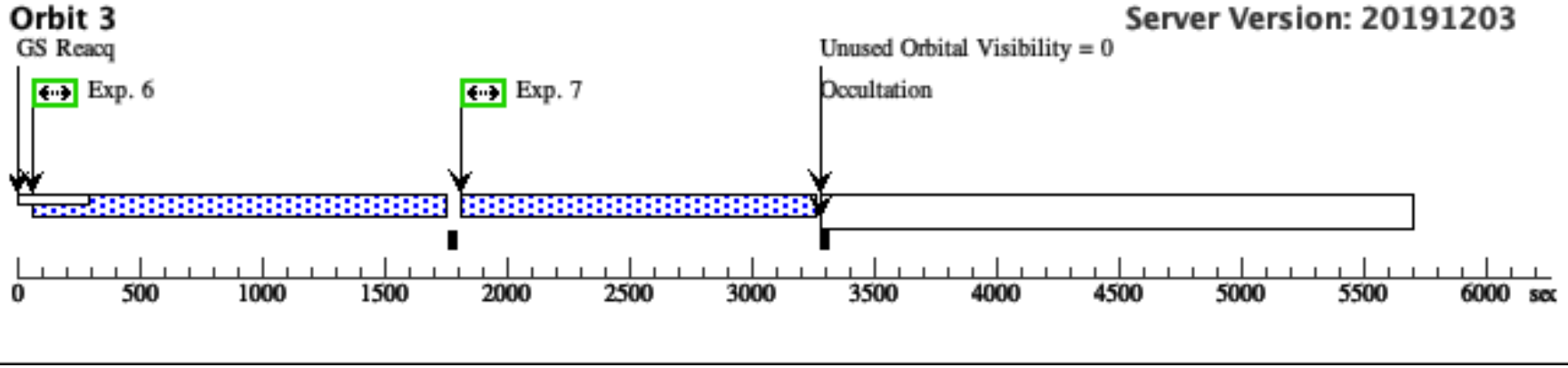
Exposures

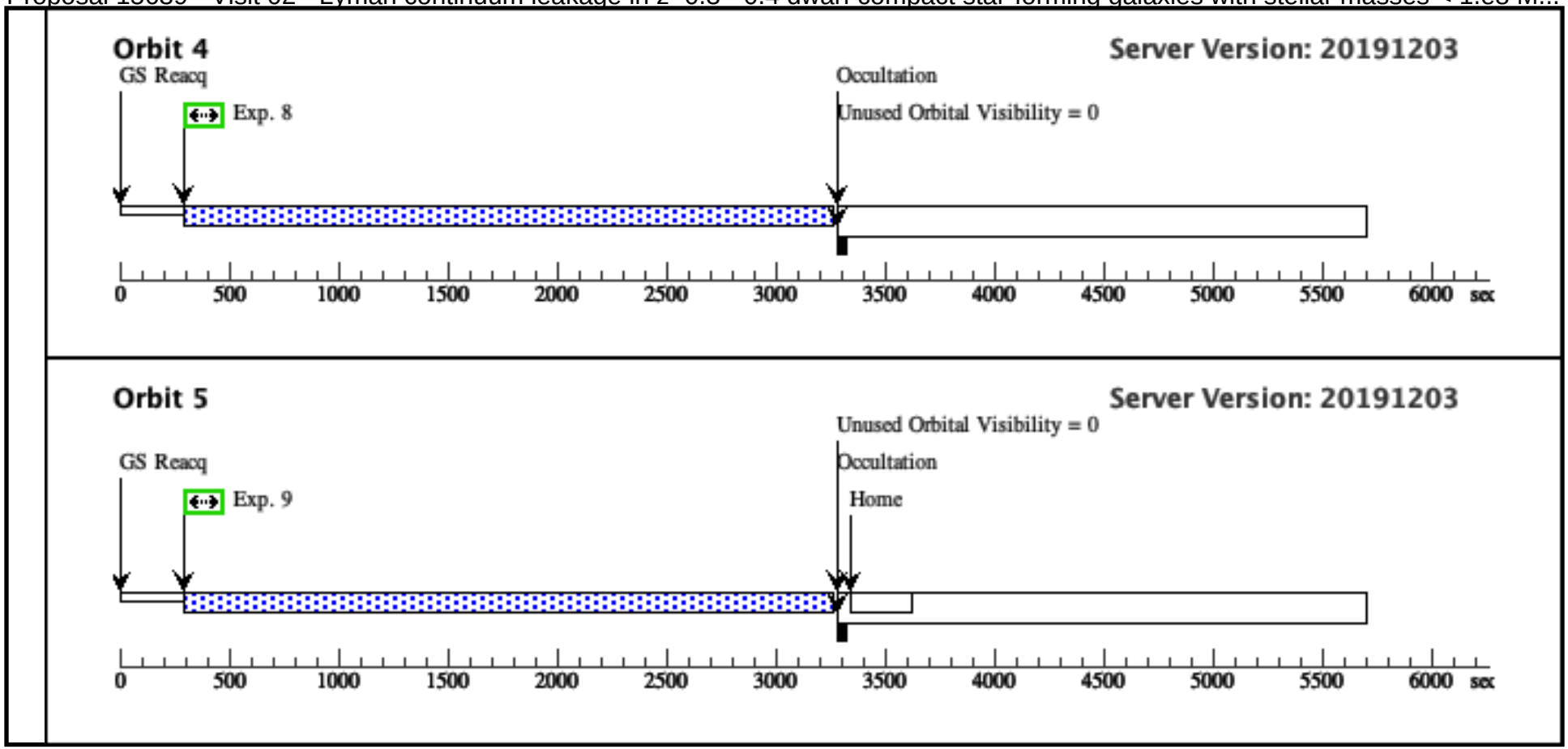
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	J0919+4906 ACQ (COS.ta.1297179)	(2) J0919+4906	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				900 Secs (900 Secs) *[==>]*	*[1]*
2	J0919+4906 G160M#1 (COS.sp.1297898)	(2) J0919+4906	COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=1; SEGMENT=BOTH			2900 Secs (790 Secs) *[==>790.0 Secs]*	*[1]*
3	J0919+4906 G160M#2 (COS.sp.1297898)	(2) J0919+4906	COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=2; SEGMENT=BOTH			2900 Secs (910 Secs) *[==>910.0 Secs]*	*[2]*
4	J0919+4906 G160M#3 (COS.sp.1297898)	(2) J0919+4906	COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=3; SEGMENT=BOTH			2900 Secs (910 Secs) *[==>910.0 Secs]*	*[2]*
5	J0919+4906 G160M#4 (COS.sp.1297898)	(2) J0919+4906	COS/FUV, TIME-TAG, PSA	G160M 1611 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=4; SEGMENT=BOTH			2900 Secs (889 Secs) *[==>889.0 Secs]*	*[2]*
6	J0919+4906 G140L#1 (COS.sp.1297770)	(2) J0919+4906	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=1; SEGMENT=A			1500 Secs (1401 Secs) *[==>1401.0 Secs]*	*[3]*
7	J0919+4906 G140L#2 (COS.sp.1297770)	(2) J0919+4906	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=2; SEGMENT=A			1500 Secs (1401 Secs) *[==>1401.0 Secs]*	*[3]*
8	J0919+4906 G140L#3 (COS.sp.1297770)	(2) J0919+4906	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=3; SEGMENT=A			1500 Secs (2919 Secs) *[==>2919.0 Secs]*	*[4]*
9	J0919+4906 G140L#4 (COS.sp.1297770)	(2) J0919+4906	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=4; SEGMENT=A			1500 Secs (2919 Secs) *[==>2919.0 Secs]*	*[5]*

Orbit Structure





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Occultation
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sec

Visit

Proposal 15639, Visit 03, completed Tue Mar 10 16:01:14 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 03) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

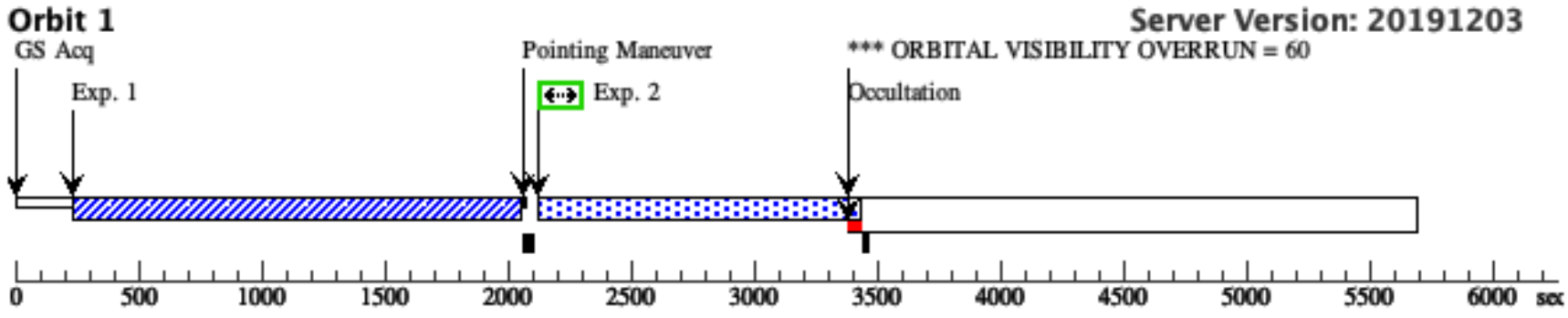
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	J1046+5827	RA: 10 46 1.9800 (161.5082500d) Dec: +58 27 56.95 (58.46582d) Equinox: J2000	Redshift: 0.39675	V=21.07+/-0.04 FUV=20.92+/-0.37, NUV=21.29+/-0.35, I(912)=7e-18 (~10 percent of the intrinsic flux), I(1216x(1+z))=I(1698A)=1.1e-16	Reference Frame: ICRS

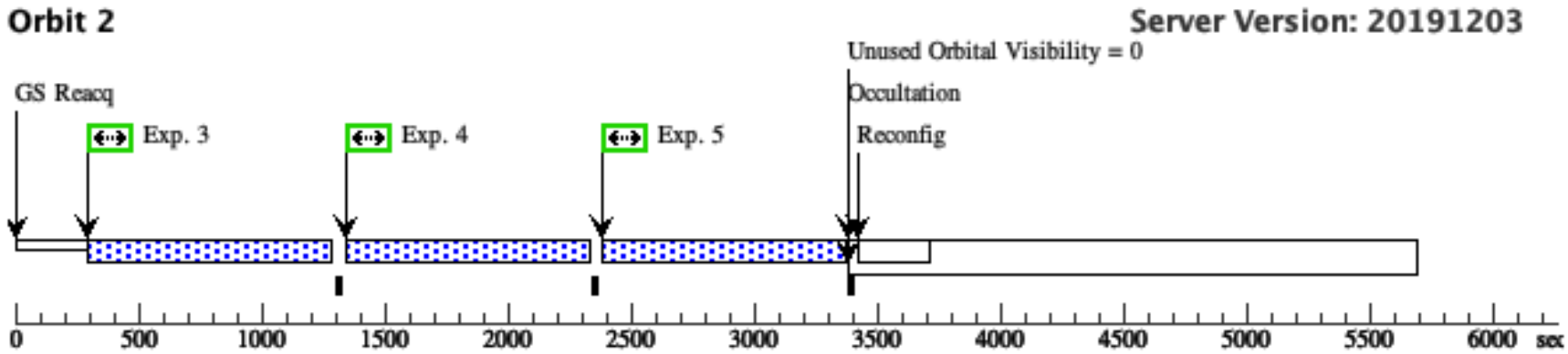
Comments: The object is compact. The coordinates of the brightest pixel were measured with Aladin v8.0 using SDSS images.
Category=GALAXY
Description=[DWARF COMPACT, STARBURST]
Extended=NO

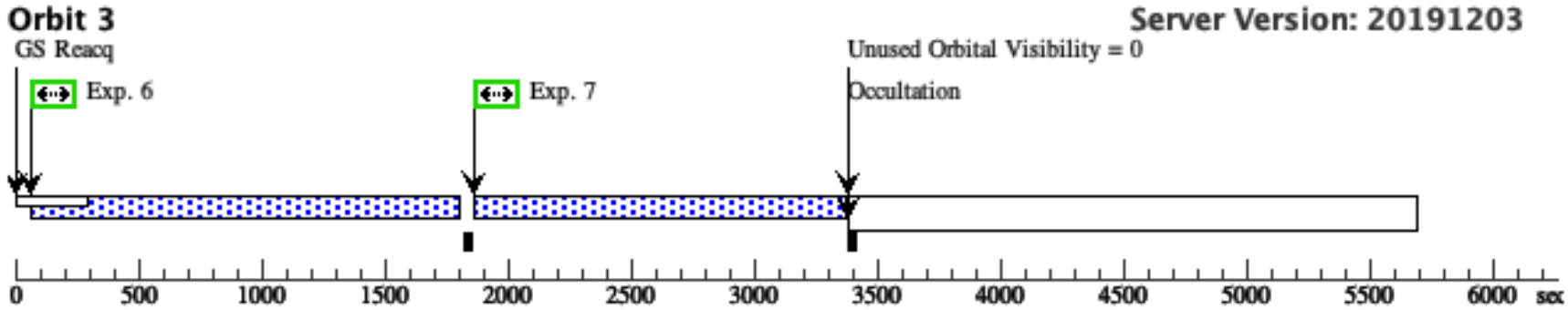
Exposures

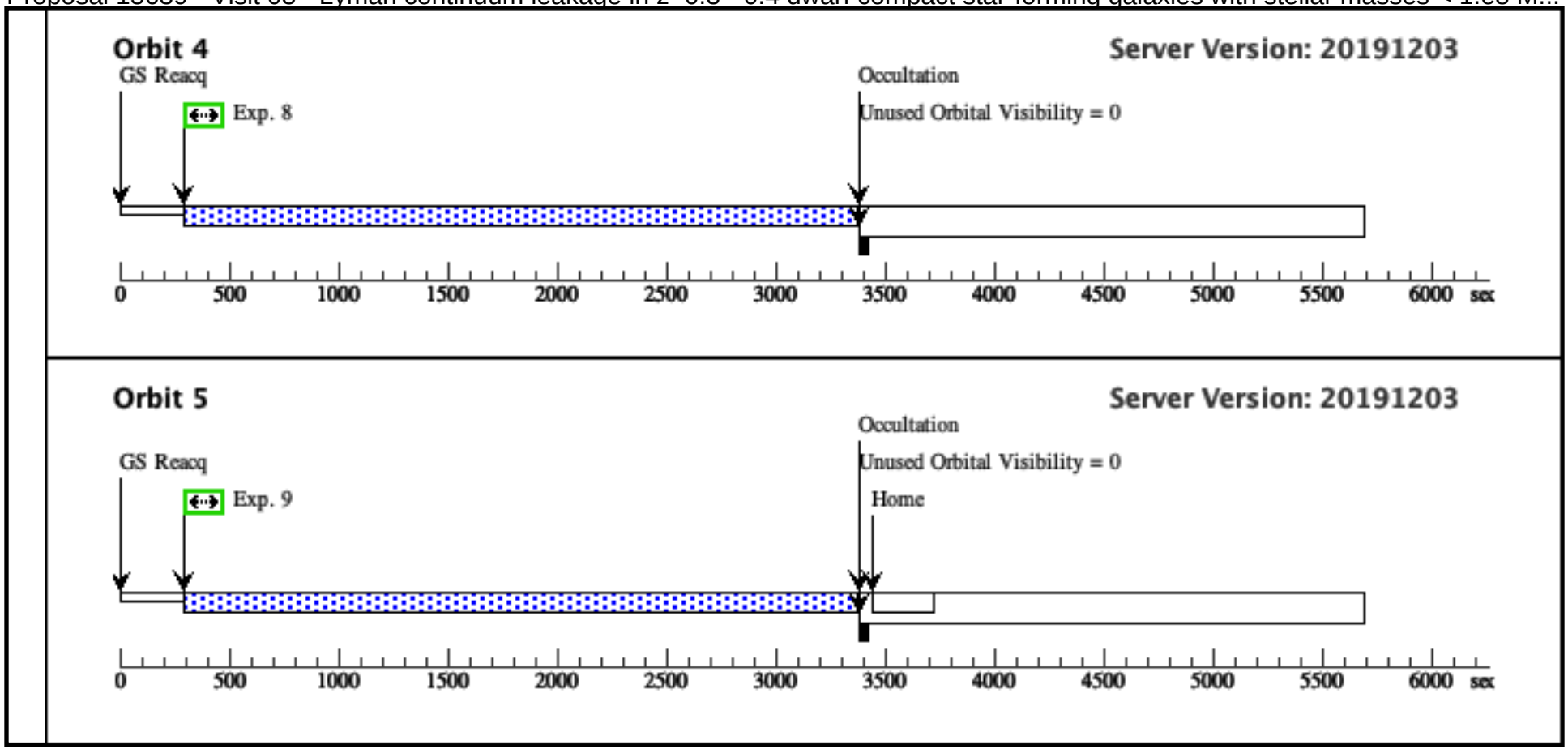
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	J1046+5827 ACQ (COS.ta.1297181)	(3) J1046+5827	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				800 Secs (800 Secs) *[==>]*	***[1]***
2	J1046+5827 G160M#1 (COS.sp.1297901)	(3) J1046+5827	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=1; SEGMENT=BOTH			2900 Secs (1097 Secs) *[==>1097.0 Secs]*	***[1]***
3	J1046+5827 G160M#2 (COS.sp.1297901)	(3) J1046+5827	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=2; SEGMENT=BOTH			2900 Secs (937 Secs) *[==>937.0 Secs]*	***[2]***
4	J1046+5827 G160M#3 (COS.sp.1297901)	(3) J1046+5827	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=3; SEGMENT=BOTH			2900 Secs (937 Secs) *[==>937.0 Secs]*	***[2]***
5	J1046+5827 G160M#4 (COS.sp.1297901)	(3) J1046+5827	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=4; SEGMENT=BOTH			2900 Secs (939 Secs) *[==>939.0 Secs]*	***[2]***
6	J1046+5827 G140L#1 (COS.sp.1297770)	(3) J1046+5827	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=1; SEGMENT=A			1500 Secs (1453 Secs) *[==>1453.0 Secs]*	***[3]***
7	J1046+5827 G140L#2 (COS.sp.1297770)	(3) J1046+5827	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=2; SEGMENT=A			1500 Secs (1453 Secs) *[==>1453.0 Secs]*	***[3]***
8	J1046+5827 G140L#3 (COS.sp.1297770)	(3) J1046+5827	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=3; SEGMENT=A			1500 Secs (3023 Secs) *[==>3023.0 Secs]*	***[4]***
9	J1046+5827 G140L#4 (COS.sp.1297770)	(3) J1046+5827	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=4; SEGMENT=A			1500 Secs (3023 Secs) *[==>3023.0 Secs]*	***[5]***

Orbit Structure





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Exp. 9
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sec

Visit

Proposal 15639, Visit 04, scheduling Tue Mar 10 16:01:14 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 04) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

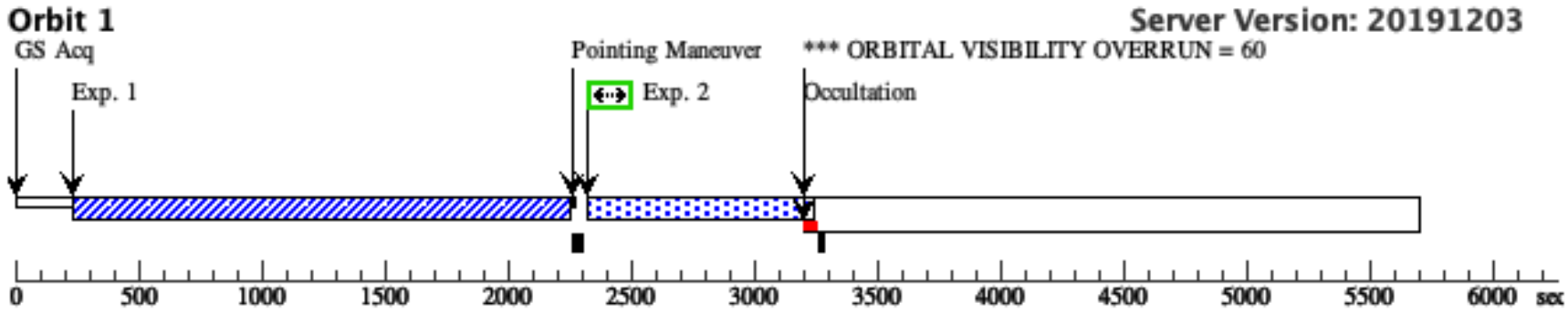
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	J1121+3806	RA: 11 21 18.2200 (170.3259167d) Dec: +38 06 42.80 (38.11189d) Equinox: J2000	Redshift: 0.31787	V=22.05+/-0.07 FUV=21.53+/-0.20, NUV=21.72+/-0.20, I(912)=6e-18 (~10 percent of the intrinsic flux), I(1216x(1+z))=I(1603A)=5.5e-17	Reference Frame: ICRS

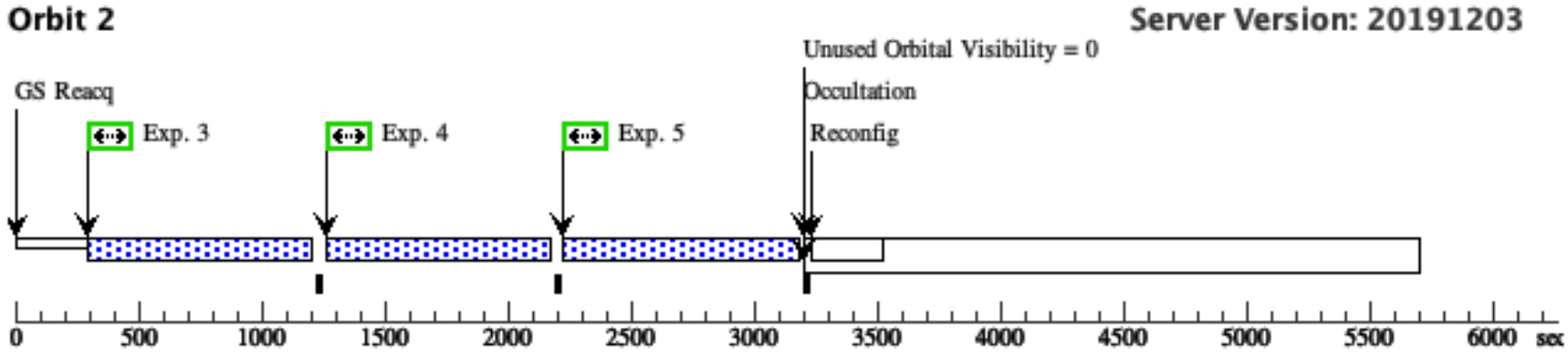
Comments: The object is compact. The coordinates of the brightest pixel were measured with Aladin v8.0 using SDSS images.
Category=GALAXY
Description=[DWARF COMPACT, STARBURST]
Extended=NO

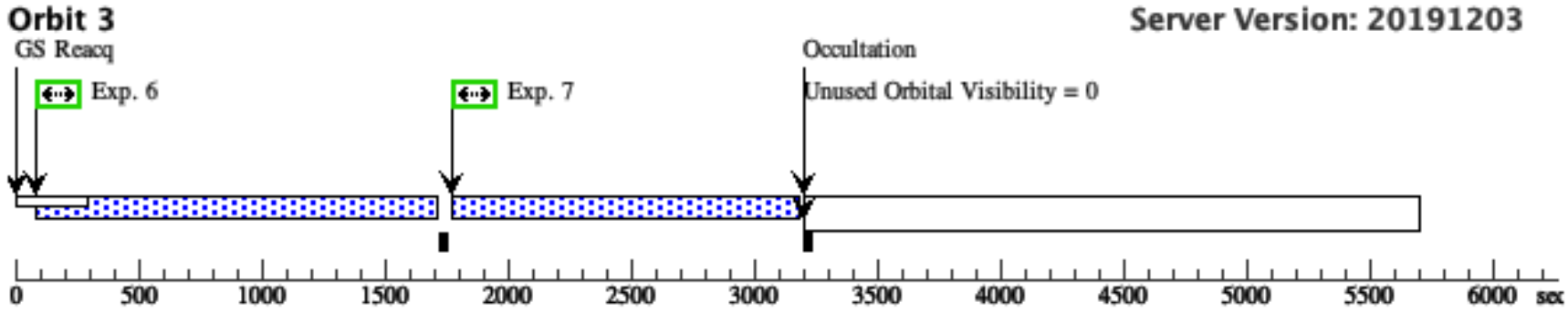
Exposures

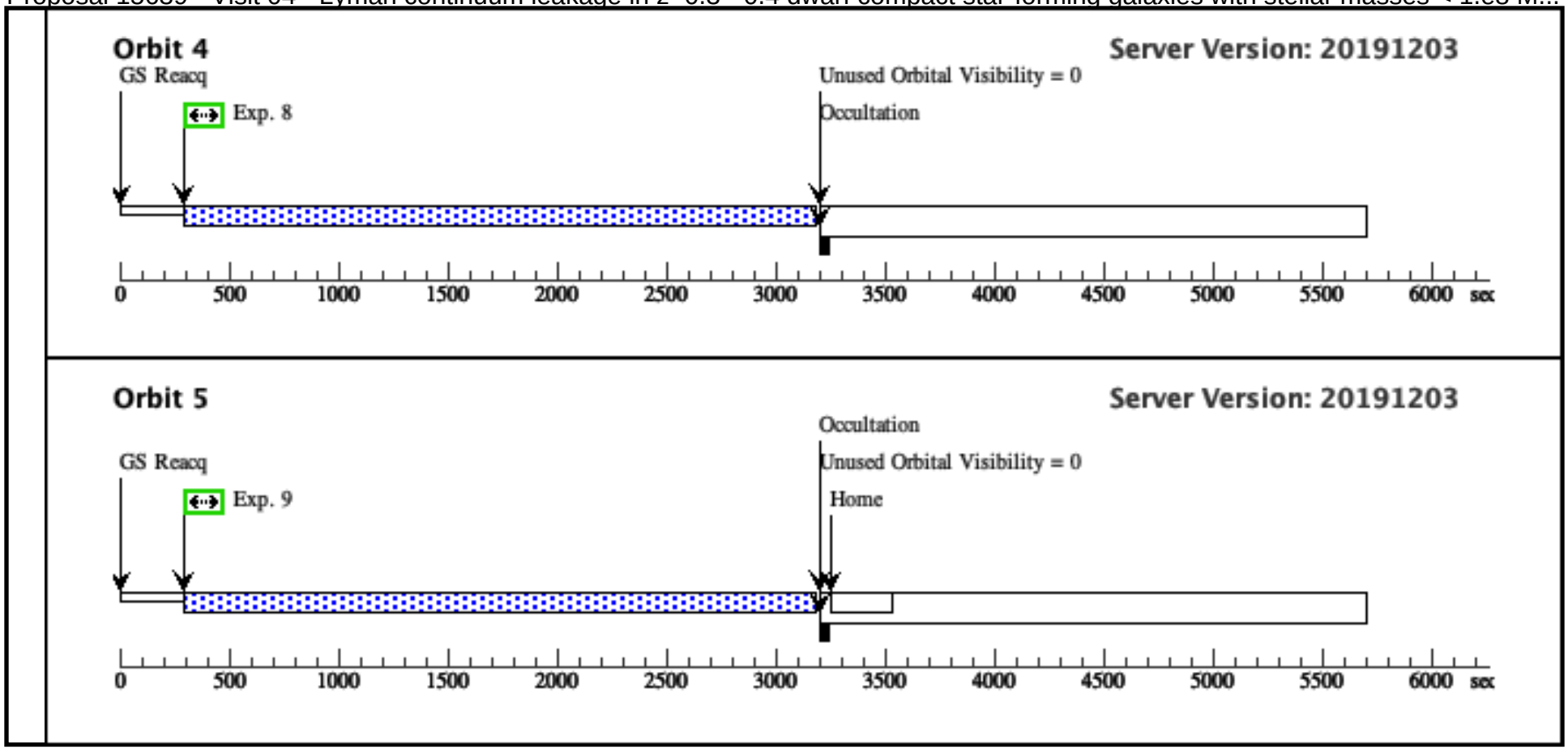
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	J1121+3806 ACQ (COS.ta.1297182)	(4) J1121+3806	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				900 Secs (900 Secs) *[==>]*	*[1]*
2	J1121+3806 G160M#1 (COS.sp.1297903)	(4) J1121+3806	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=1; SEGMENT=BOTH			2900 Secs (702 Secs) *[==>702.0 Secs]*	*[1]*
3	J1121+3806 G160M#2 (COS.sp.1297903)	(4) J1121+3806	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=2; SEGMENT=BOTH			2900 Secs (860 Secs) *[==>860.0 Secs]*	*[2]*
4	J1121+3806 G160M#3 (COS.sp.1297903)	(4) J1121+3806	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=3; SEGMENT=BOTH			2900 Secs (860 Secs) *[==>860.0 Secs]*	*[2]*
5	J1121+3806 G160M#4 (COS.sp.1297903)	(4) J1121+3806	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=4; SEGMENT=BOTH			2900 Secs (904 Secs) *[==>904.0 Secs]*	*[2]*
6	J1121+3806 G140L#1 (COS.sp.1297770)	(4) J1121+3806	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=1; SEGMENT=A			1500 Secs (1358 Secs) *[==>1358.0 Secs]*	*[3]*
7	J1121+3806 G140L#2 (COS.sp.1297770)	(4) J1121+3806	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=2; SEGMENT=A			1500 Secs (1359 Secs) *[==>1359.0 Secs]*	*[3]*
8	J1121+3806 G140L#3 (COS.sp.1297770)	(4) J1121+3806	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=3; SEGMENT=A			1500 Secs (2834 Secs) *[==>2834.0 Secs]*	*[4]*
9	J1121+3806 G140L#4 (COS.sp.1297770)	(4) J1121+3806	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=4; SEGMENT=A			1500 Secs (2834 Secs) *[==>2834.0 Secs]*	*[5]*

Orbit Structure








Orbit 4
Server Version: 20191203
GS Reacq
Exp. 8
Unused Orbital Visibility = 0
Occultation
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2500
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6000
sec
Orbit 5
Server Version: 20191203
Occultation
GS Reacq
Unused Orbital Visibility = 0
Exp. 9
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15639, Visit 05, completed Tue Mar 10 16:01:14 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 05) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

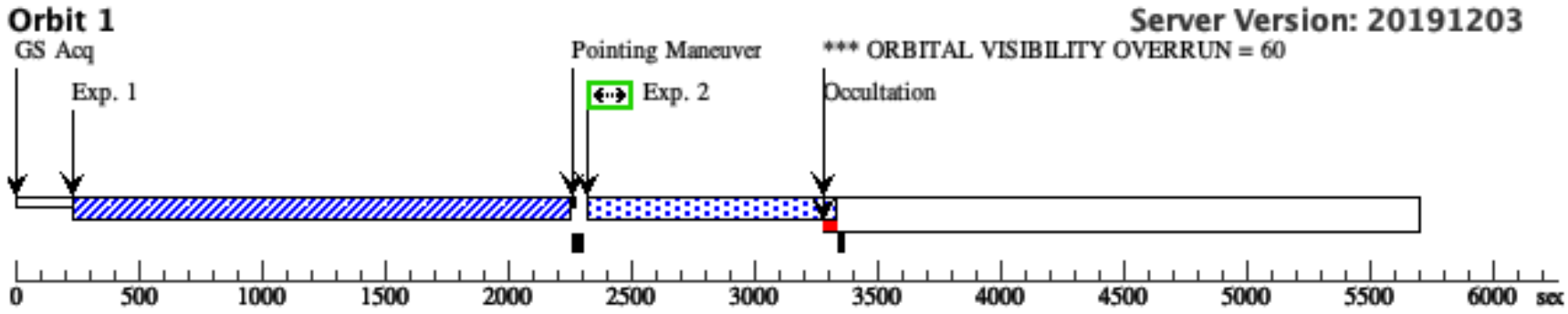
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	J1127+4610	RA: 11 27 21.0000 (171.8375000d) Dec: +46 10 42.49 (46.17847d) Equinox: J2000	Redshift: 0.32225	V=22.31+/-0.11 NUV=22.22+/-0.39, I(912)=6e-18 (~10 percent of the intrinsic flux), I(1216x(1+z))=I(1608A)=4e-17	Reference Frame: ICRS

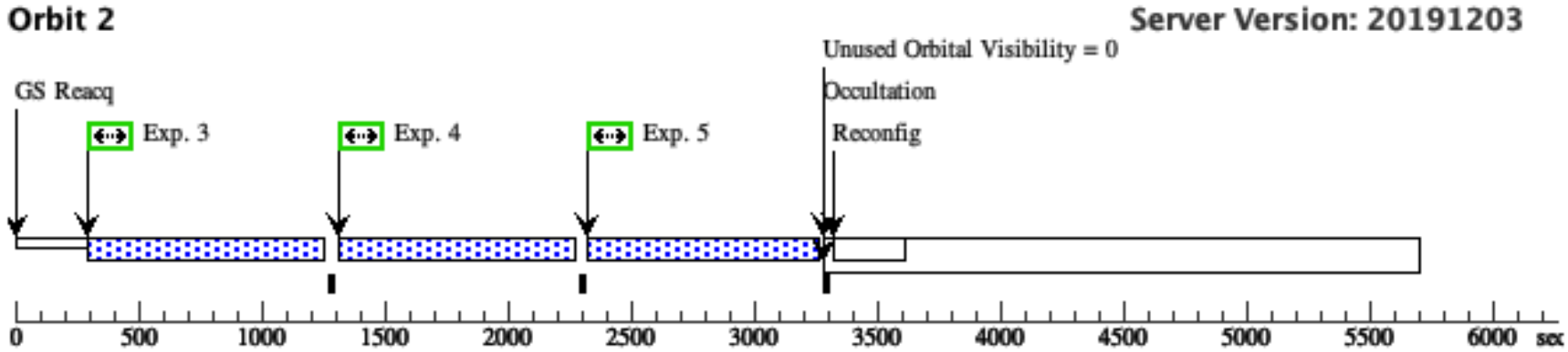
Comments: The object is compact. The coordinates of the brightest pixel were measured with Aladin v8.0 using SDSS images.
Category=GALAXY
Description=[DWARF COMPACT, STARBURST]
Extended=NO

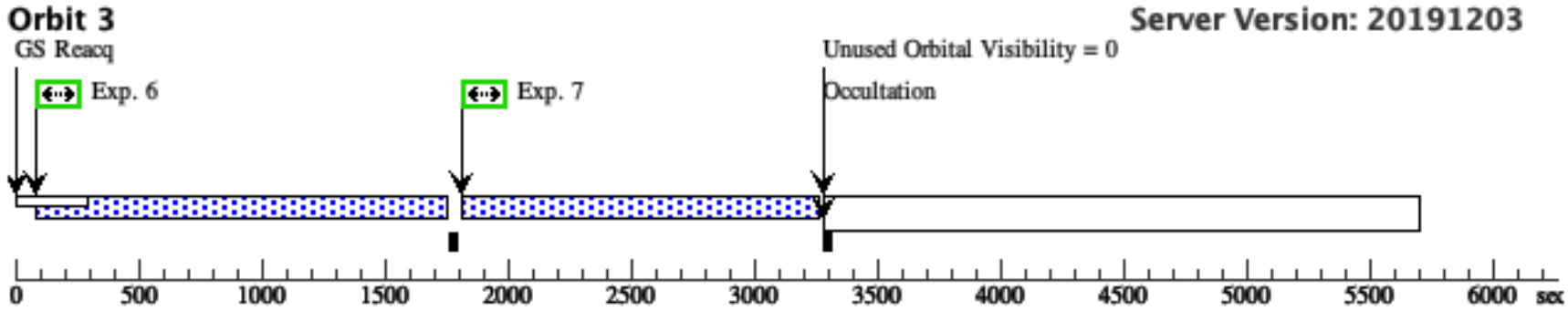
Exposures

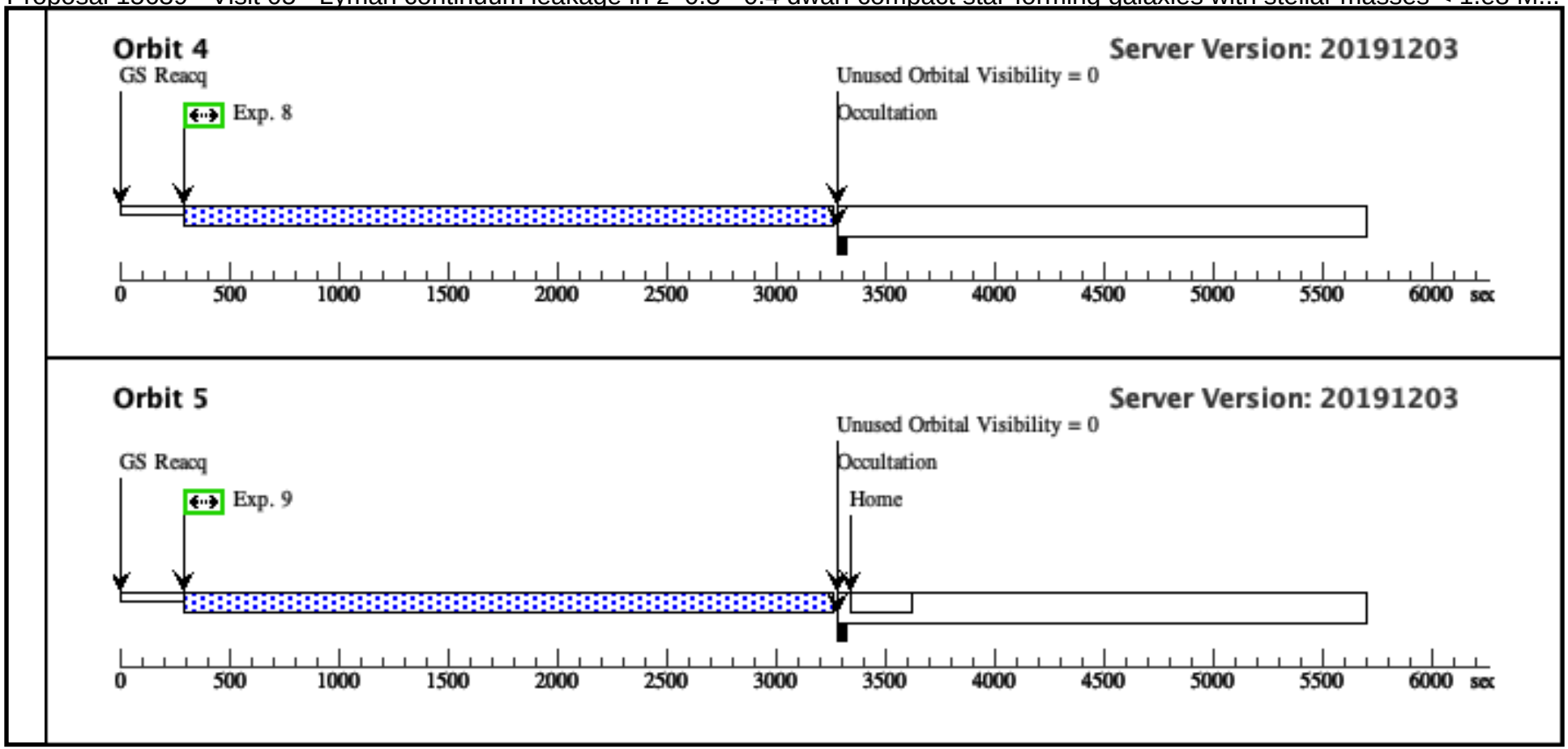
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	J1127+4610 ACQ (COS.ta.1297183)	(5) J1127+4610	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				900 Secs (900 Secs) *[==>]*	*[1]*
2	J1127+4610 G160M#1 (COS.sp.1297905)	(5) J1127+4610	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=1; SEGMENT=BOTH			2900 Secs (787 Secs) *[==>787.0 Secs]*	*[1]*
3	J1127+4610 G160M#2 (COS.sp.1297905)	(5) J1127+4610	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=2; SEGMENT=BOTH			2900 Secs (910 Secs) *[==>910.0 Secs]*	*[2]*
4	J1127+4610 G160M#3 (COS.sp.1297905)	(5) J1127+4610	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=3; SEGMENT=BOTH			2900 Secs (910 Secs) *[==>910.0 Secs]*	*[2]*
5	J1127+4610 G160M#4 (COS.sp.1297905)	(5) J1127+4610	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=4; SEGMENT=BOTH			2900 Secs (889 Secs) *[==>889.0 Secs]*	*[2]*
6	J1127+4610 G140L#1 (COS.sp.1297770)	(5) J1127+4610	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=1; SEGMENT=A			1500 Secs (1401 Secs) *[==>1401.0 Secs]*	*[3]*
7	J1127+4610 G140L#2 (COS.sp.1297770)	(5) J1127+4610	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=2; SEGMENT=A			1500 Secs (1401 Secs) *[==>1401.0 Secs]*	*[3]*
8	J1127+4610 G140L#3 (COS.sp.1297770)	(5) J1127+4610	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=3; SEGMENT=A			1500 Secs (2919 Secs) *[==>2919.0 Secs]*	*[4]*
9	J1127+4610 G140L#4 (COS.sp.1297770)	(5) J1127+4610	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=4; SEGMENT=A			1500 Secs (2919 Secs) *[==>2919.0 Secs]*	*[5]*

Orbit Structure








Orbit 4
Server Version: 20191203
GS Reacq
Exp. 8
Unused Orbital Visibility = 0
Occultation
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1500
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2500
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3500
4000
4500
5000
5500
6000
sec
Orbit 5
Server Version: 20191203
Unused Orbital Visibility = 0
GS Reacq
Occultation
Exp. 9
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15639, Visit 06, completed Tue Mar 10 16:01:14 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 06) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

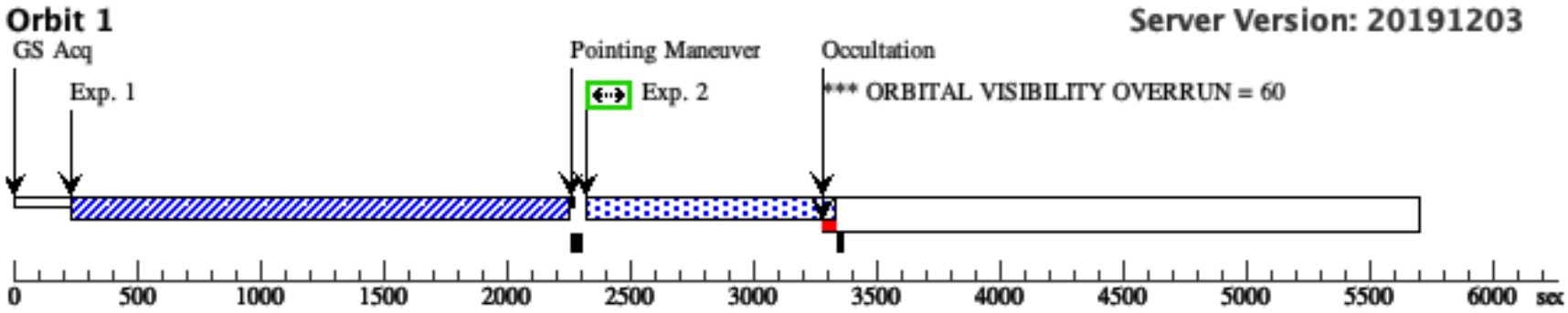
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	J1233+4959	RA: 12 33 30.7800 (188.3782500d) Dec: +49 59 49.45 (49.99707d) Equinox: J2000	Redshift: 0.42193	V=21.92+/-0.08 NUV=21.91+/-0.12, I(912)=8e-18 (~10 percent of the intrinsic flux), I(1216x(1+z))=I(1729A)=5e-17	Reference Frame: ICRS

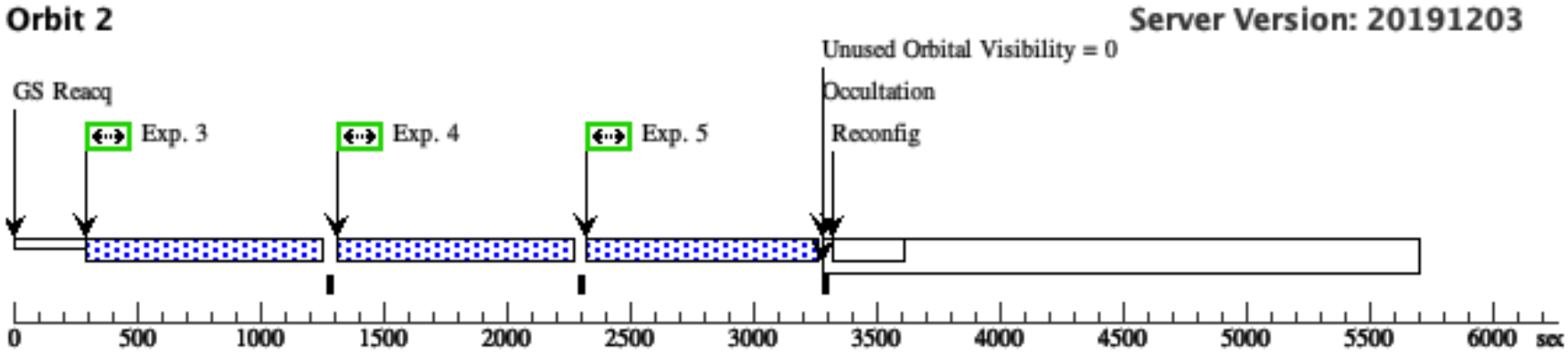
Comments: The object is compact. The coordinates of the brightest pixel were measured with Aladin v8.0 using SDSS images.
Category=GALAXY
Description=[DWARF COMPACT, STARBURST]
Extended=NO

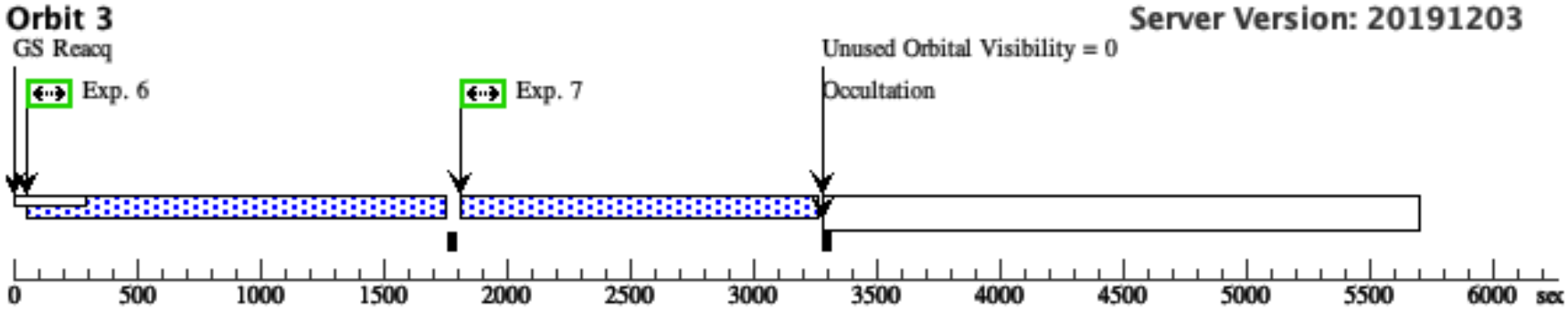
Exposures

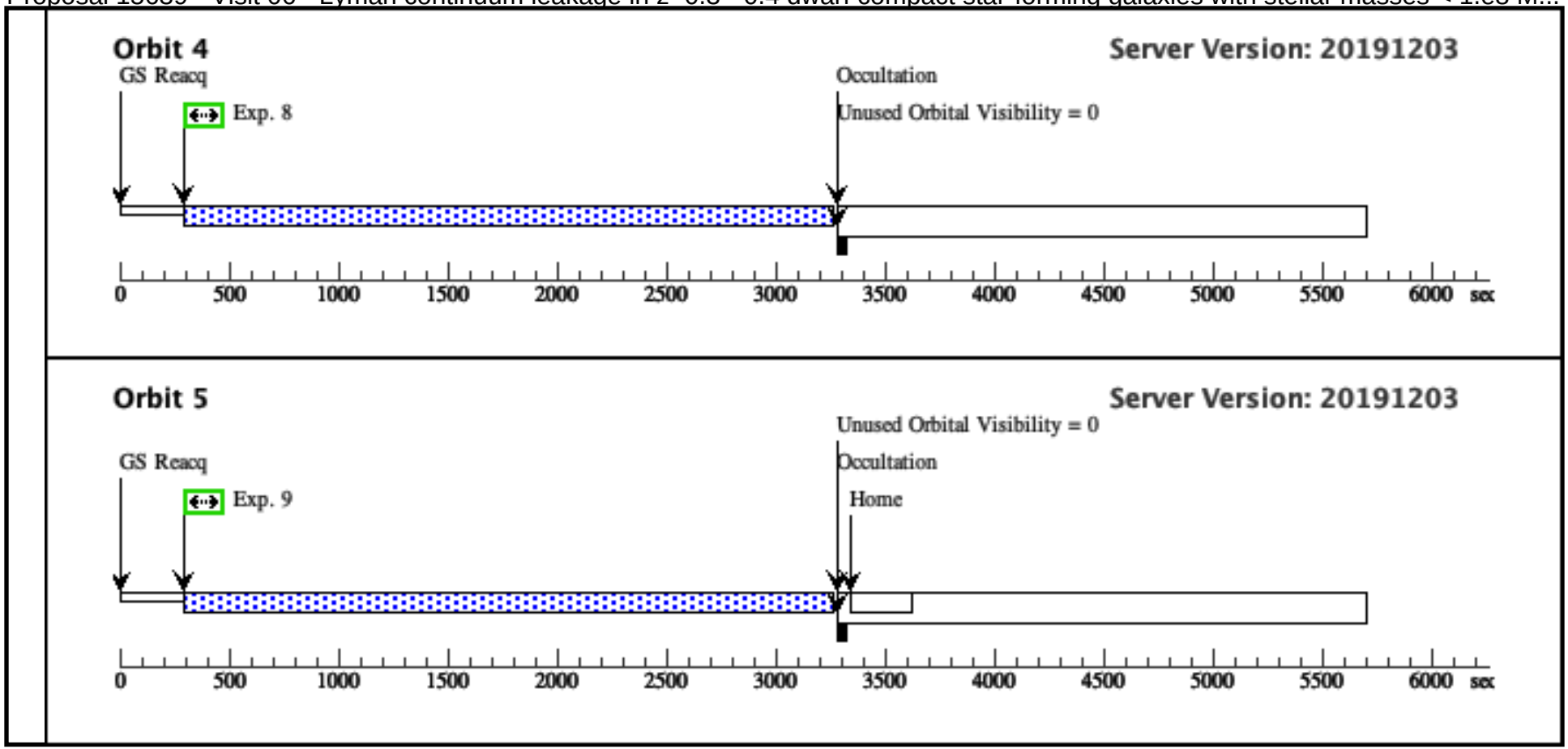
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	J1233+4959 ACQ (COS.ta.1297183)	(6) J1233+4959	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				900 Secs (900 Secs) *[==>]*	*[1]*
2	J1233+4959 G160M#1 (COS.sp.1297907)	(6) J1233+4959	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=1; SEGMENT=BOTH			2900 Secs (787 Secs) *[==>787.0 Secs]*	*[1]*
3	J1233+4959 G160M#2 (COS.sp.1297907)	(6) J1233+4959	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=2; SEGMENT=BOTH			2900 Secs (910 Secs) *[==>910.0 Secs]*	*[2]*
4	J1233+4959 G160M#3 (COS.sp.1297907)	(6) J1233+4959	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=3; SEGMENT=BOTH			2900 Secs (910 Secs) *[==>910.0 Secs]*	*[2]*
5	J1233+4959 G160M#4 (COS.sp.1297907)	(6) J1233+4959	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=4; SEGMENT=BOTH			2900 Secs (889 Secs) *[==>889.0 Secs]*	*[2]*
6	J1233+4959 G140L#1 (COS.sp.1297770)	(6) J1233+4959	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=1; SEGMENT=A			1500 Secs (1401 Secs) *[==>1401.0 Secs]*	*[3]*
7	J1233+4959 G140L#2 (COS.sp.1297770)	(6) J1233+4959	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=2; SEGMENT=A			1500 Secs (1401 Secs) *[==>1401.0 Secs]*	*[3]*
8	J1233+4959 G140L#3 (COS.sp.1297770)	(6) J1233+4959	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=3; SEGMENT=A			1500 Secs (2919 Secs) *[==>2919.0 Secs]*	*[4]*
9	J1233+4959 G140L#4 (COS.sp.1297770)	(6) J1233+4959	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=4; SEGMENT=A			1500 Secs (2919 Secs) *[==>2919.0 Secs]*	*[5]*

Orbit Structure





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GS Reacq
Exp. 8
Occultation
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4500
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5500
6000
sec
Orbit 5
Server Version: 20191203
Unused Orbital Visibility = 0
GS Reacq
Exp. 9
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15639, Visit 07, scheduled Tue Mar 10 16:01:15 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 07) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

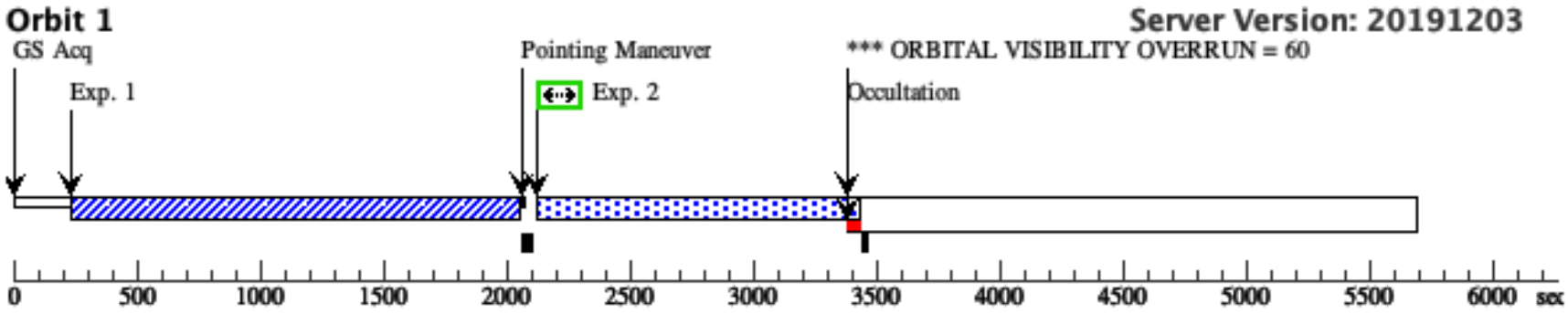
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	J1349+5631	RA: 13 49 55.1000 (207.4795833d) Dec: +56 31 10.90 (56.51969d) Equinox: J2000	Redshift: 0.36365	V=22.45+/-0.11 NUV=21.60+/-0.14, I(912)=4e-18 (~10 percent of the intrinsic flux), I(1216x(1+z))=I(1658A)=4e-17	Reference Frame: ICRS

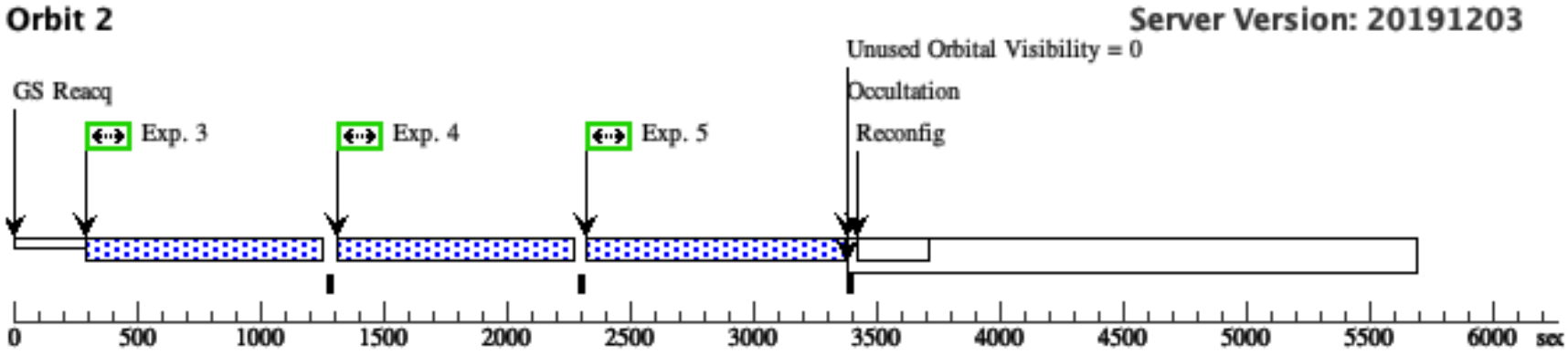
Comments: The object is compact. The coordinates of the brightest pixel were measured with Aladin v8.0 using SDSS images.
Category=GALAXY
Description=[DWARF COMPACT, STARBURST]
Extended=NO

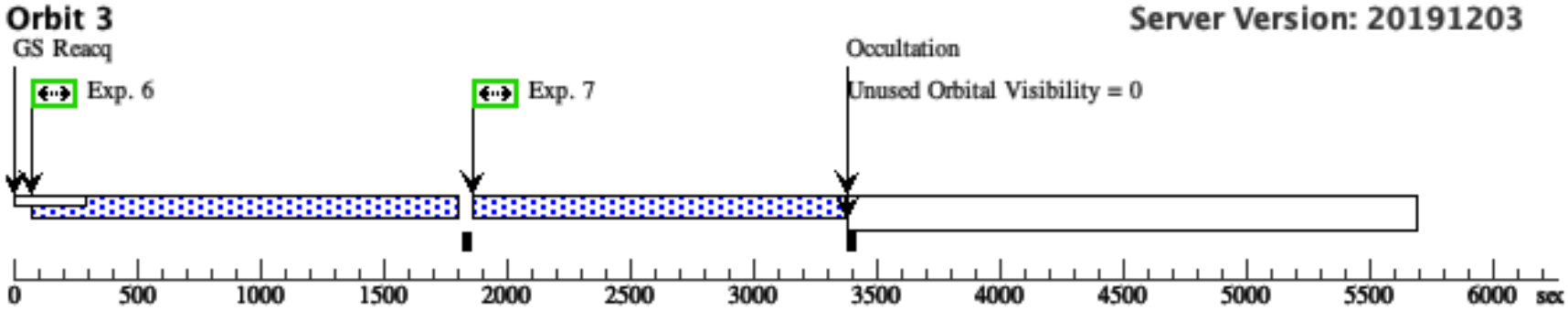
Exposures

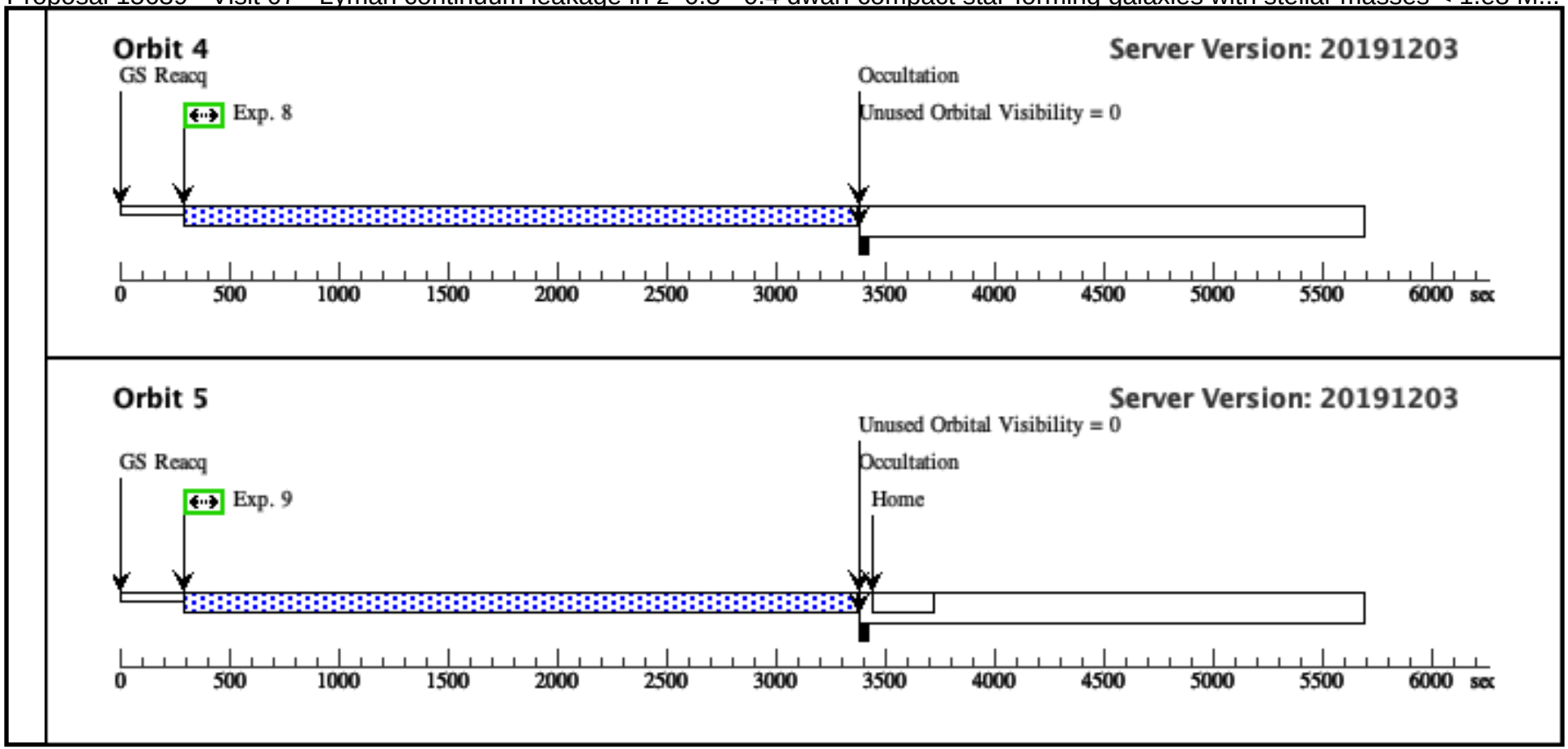
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	J1349+5631 ACQ (COS.ta.1297184)	(7) J1349+5631	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				800 Secs (800 Secs) *[==>]*	***[1]***
2	J1349+5631 G160M#1 (COS.sp.1297909)	(7) J1349+5631	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=1; SEGMENT=BOTH			2900 Secs (1103 Secs) *[==>1103.0 Secs]*	***[1]***
3	J1349+5631 G160M#2 (COS.sp.1297909)	(7) J1349+5631	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=2; SEGMENT=BOTH			2900 Secs (910 Secs) *[==>910.0 Secs]*	***[2]***
4	J1349+5631 G160M#3 (COS.sp.1297909)	(7) J1349+5631	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=3; SEGMENT=BOTH			2900 Secs (910 Secs) *[==>910.0 Secs]*	***[2]***
5	J1349+5631 G160M#4 (COS.sp.1297909)	(7) J1349+5631	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=4; SEGMENT=BOTH			2900 Secs (993 Secs) *[==>993.0 Secs]*	***[2]***
6	J1349+5631 G140L#1 (COS.sp.1297770)	(7) J1349+5631	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=1; SEGMENT=A			1500 Secs (1453 Secs) *[==>1453.0 Secs]*	***[3]***
7	J1349+5631 G140L#2 (COS.sp.1297770)	(7) J1349+5631	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=2; SEGMENT=A			1500 Secs (1453 Secs) *[==>1453.0 Secs]*	***[3]***
8	J1349+5631 G140L#3 (COS.sp.1297770)	(7) J1349+5631	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=3; SEGMENT=A			1500 Secs (3023 Secs) *[==>3023.0 Secs]*	***[4]***
9	J1349+5631 G140L#4 (COS.sp.1297770)	(7) J1349+5631	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=4; SEGMENT=A			1500 Secs (3023 Secs) *[==>3023.0 Secs]*	***[5]***

Orbit Structure





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GS Reacq
Exp. 8
Occultation
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3500
4000
4500
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5500
6000
sec
Orbit 5
Server Version: 20191203
Unused Orbital Visibility = 0
GS Reacq
Exp. 9
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15639, Visit 08, failed

Tue Mar 10 16:01:15 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 08) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

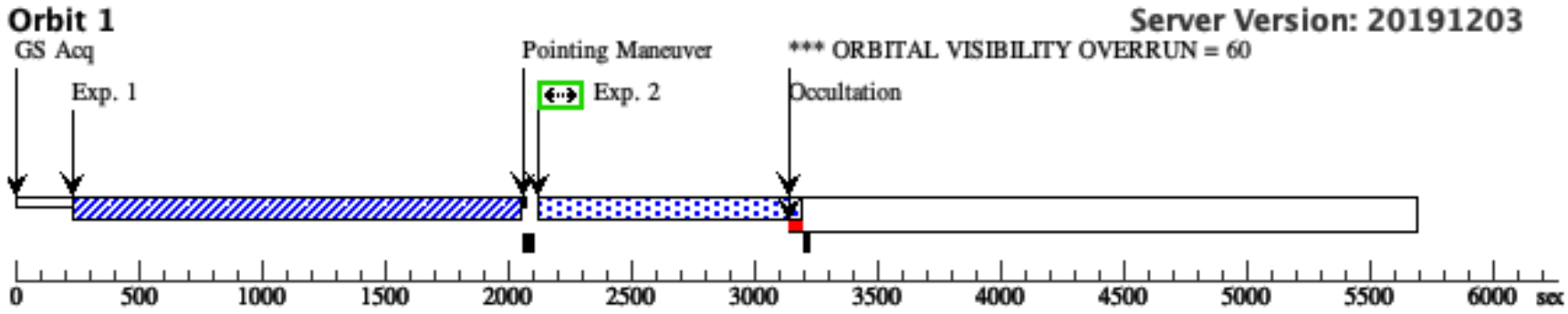
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(8)	J1355+1457	RA: 13 55 53.4600 (208.9727500d) Dec: +14 57 1.48 (14.95041d) Equinox: J2000	Redshift: 0.36529	V=21.62+/-0.05 NUV=21.13+/-0.10, I(912)=9e-18 (~10 percent of the intrinsic flux), I(1216x(1+z))=I(1660A)=1.1e-16	Reference Frame: ICRS

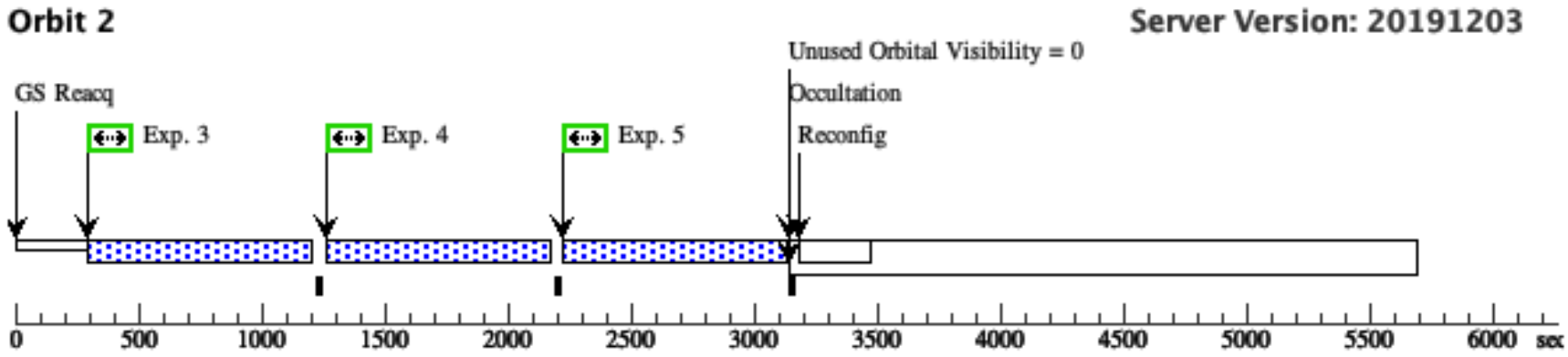
Comments: The object is compact. The coordinates of the brightest pixel were measured with Aladin v8.0 using SDSS images.
Category=GALAXY
Description=[DWARF COMPACT, STARBURST]
Extended=NO

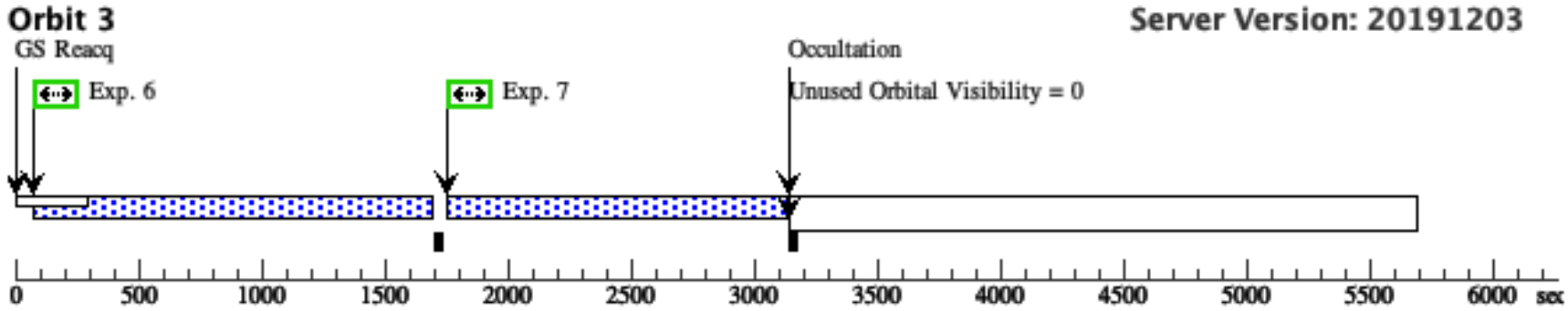
Exposures

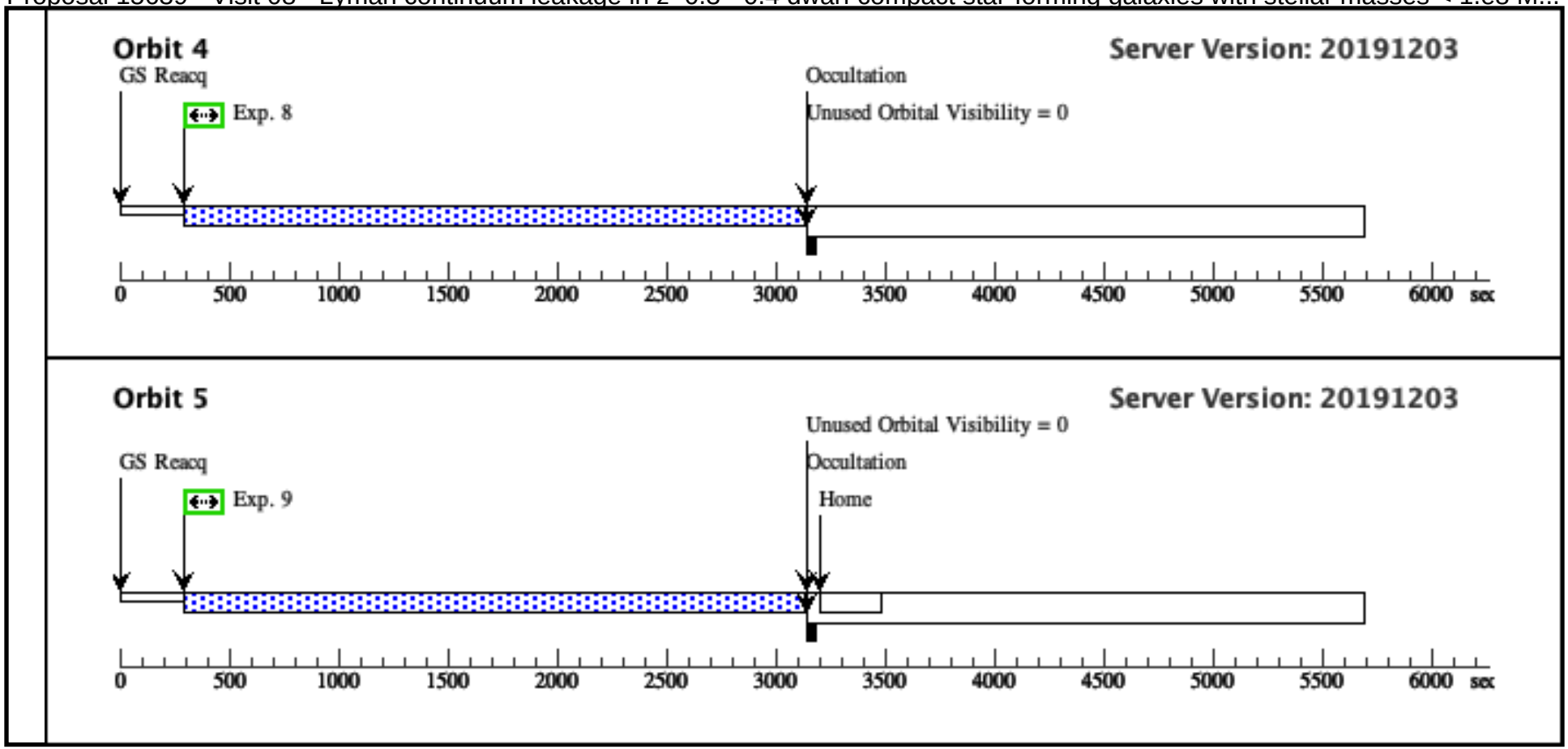
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	J1355+1457 ACQ (COS.ta.1297186)	(8) J1355+1457	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				800 Secs (800 Secs) *[==>]*	***[1]***
2	J1355+1457 G160M#1 (COS.sp.1297910)	(8) J1355+1457	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=1; SEGMENT=BOTH			2900 Secs (863 Secs) *[==>863.0 Secs]*	***[1]***
3	J1355+1457 G160M#2 (COS.sp.1297910)	(8) J1355+1457	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=2; SEGMENT=BOTH			2900 Secs (860 Secs) *[==>860.0 Secs]*	***[2]***
4	J1355+1457 G160M#3 (COS.sp.1297910)	(8) J1355+1457	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=3; SEGMENT=BOTH			2900 Secs (860 Secs) *[==>860.0 Secs]*	***[2]***
5	J1355+1457 G160M#4 (COS.sp.1297910)	(8) J1355+1457	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=4; SEGMENT=BOTH			2900 Secs (853 Secs) *[==>853.0 Secs]*	***[2]***
6	J1355+1457 G140L#1 (COS.sp.1297770)	(8) J1355+1457	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=1; SEGMENT=A			1500 Secs (1337 Secs) *[==>1337.0 Secs]*	***[3]***
7	J1355+1457 G140L#2 (COS.sp.1297770)	(8) J1355+1457	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=2; SEGMENT=A			1500 Secs (1329 Secs) *[==>1329.0 Secs]*	***[3]***
8	J1355+1457 G140L#3 (COS.sp.1297770)	(8) J1355+1457	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=3; SEGMENT=A			1500 Secs (2783 Secs) *[==>2783.0 Secs]*	***[4]***
9	J1355+1457 G140L#4 (COS.sp.1297770)	(8) J1355+1457	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=4; SEGMENT=A			1500 Secs (2783 Secs) *[==>2783.0 Secs]*	***[5]***

Orbit Structure








Orbit 4
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Occultation
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5500
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sec
Orbit 5
Server Version: 20191203
Unused Orbital Visibility = 0
GS Reacq
Exp. 9
Occultation
Home
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1500
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2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15639, Visit 58

Tue Mar 10 16:01:15 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Comments: HOPR repeat of visit 08.

Diagnostics

(Visit 58) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

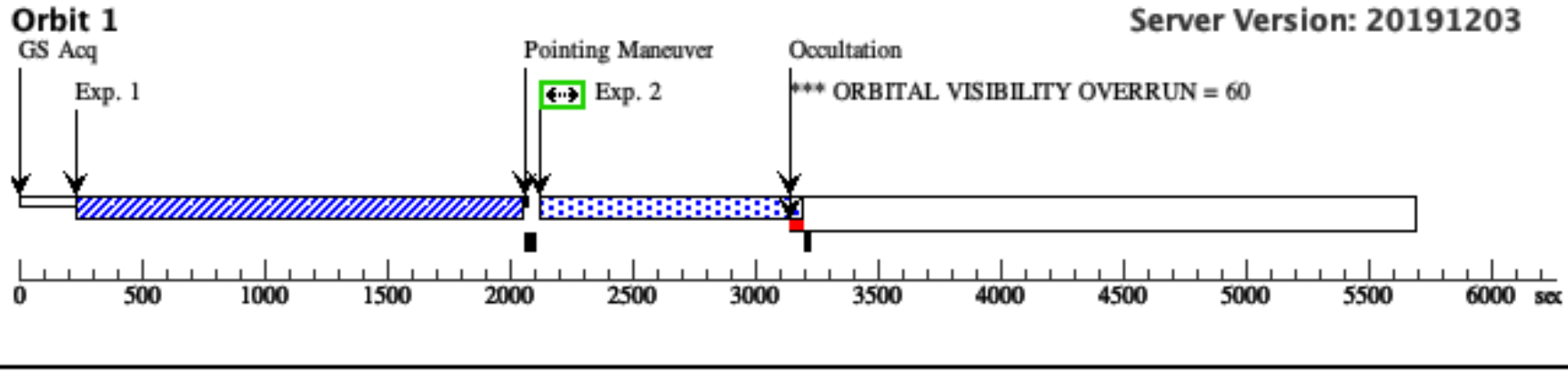
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(8)	J1355+1457	RA: 13 55 53.4600 (208.9727500d) Dec: +14 57 1.48 (14.95041d) Equinox: J2000	Redshift: 0.36529	V=21.62+/-0.05 NUV=21.13+/-0.10, I(912)=9e-18 (~10 percent of the intrinsic flux), I(1216x(1+z))=I(1660A)=1.1e-16	Reference Frame: ICRS

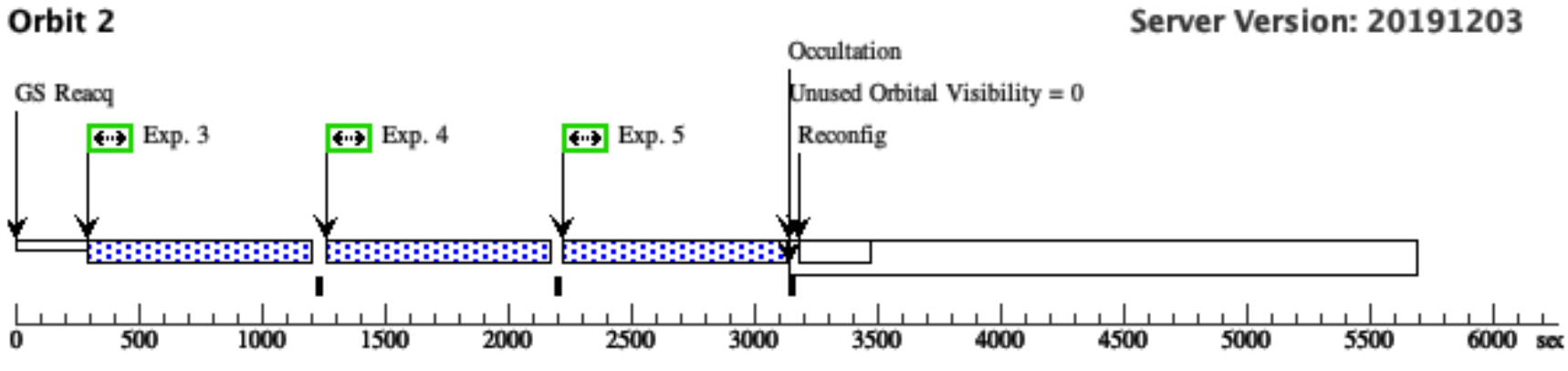
Comments: The object is compact. The coordinates of the brightest pixel were measured with Aladin v8.0 using SDSS images.
Category=GALAXY
Description=[DWARF COMPACT, STARBURST]
Extended=NO

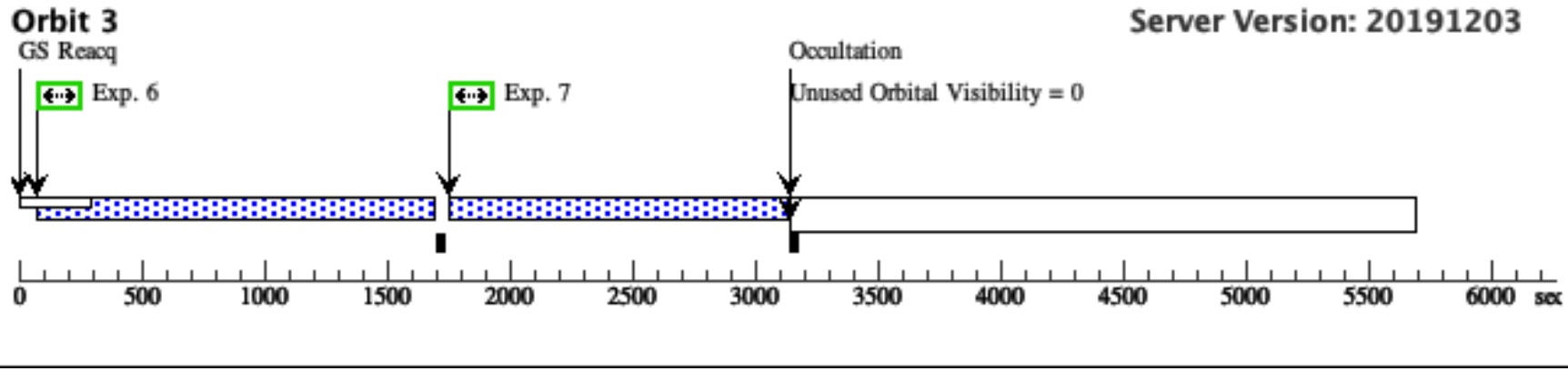
Exposures

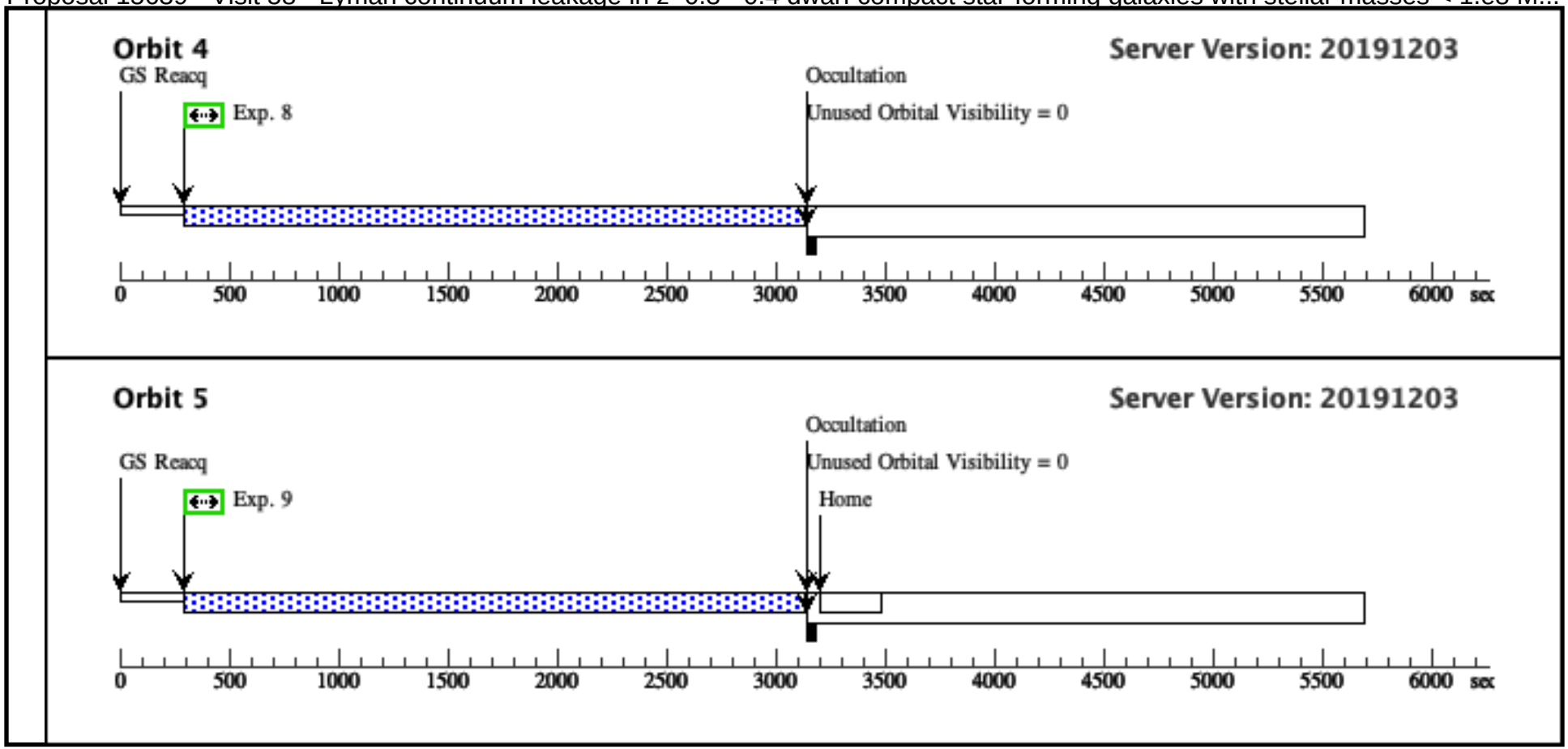
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	J1355+1457 ACQ (COS.ta.1297186)	(8) J1355+1457	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				800 Secs (800 Secs) *[==>]*	***[1]***
2	J1355+1457 G160M#1 (COS.sp.1297910)	(8) J1355+1457	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=1; SEGMENT=BOTH			2900 Secs (863 Secs) *[==>863.0 Secs]*	***[1]***
3	J1355+1457 G160M#2 (COS.sp.1297910)	(8) J1355+1457	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=2; SEGMENT=BOTH			2900 Secs (860 Secs) *[==>860.0 Secs]*	***[2]***
4	J1355+1457 G160M#3 (COS.sp.1297910)	(8) J1355+1457	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=3; SEGMENT=BOTH			2900 Secs (860 Secs) *[==>860.0 Secs]*	***[2]***
5	J1355+1457 G160M#4 (COS.sp.1297910)	(8) J1355+1457	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=4; SEGMENT=BOTH			2900 Secs (853 Secs) *[==>853.0 Secs]*	***[2]***
6	J1355+1457 G140L#1 (COS.sp.1297770)	(8) J1355+1457	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=1; SEGMENT=A			1500 Secs (1337 Secs) *[==>1337.0 Secs]*	***[3]***
7	J1355+1457 G140L#2 (COS.sp.1297770)	(8) J1355+1457	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=2; SEGMENT=A			1500 Secs (1329 Secs) *[==>1329.0 Secs]*	***[3]***
8	J1355+1457 G140L#3 (COS.sp.1297770)	(8) J1355+1457	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=3; SEGMENT=A			1500 Secs (2783 Secs) *[==>2783.0 Secs]*	***[4]***
9	J1355+1457 G140L#4 (COS.sp.1297770)	(8) J1355+1457	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=4; SEGMENT=A			1500 Secs (2783 Secs) *[==>2783.0 Secs]*	***[5]***

Orbit Structure





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sec
Orbit 5
Server Version: 20191203
GS Reacq
Exp. 9
Occultation
Unused Orbital Visibility = 0
Home
0
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1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
6000
sec

Visit

Proposal 15639, Visit 09, scheduled Tue Mar 10 16:01:15 GMT 2020

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: (none)

Diagnostics

(Visit 09) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN

Fixed Targets

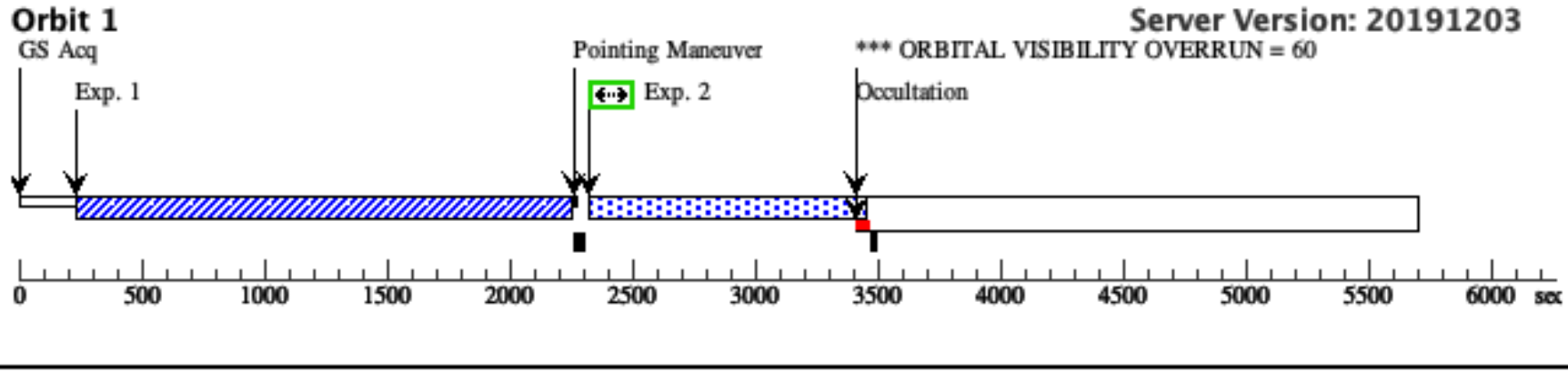
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(9)	J1455+6107	RA: 14 55 59.5700 (223.9982083d) Dec: +61 07 19.70 (61.12214d) Equinox: J2000	Redshift: 0.36789	V=21.51+/-0.05 FUV=21.52+/-0.39, NUV=21.70+/-0.39, I(912)=7e-18 (~10 percent of the intrinsic flux), I(1216x(1+z))=I(1663A)=6.5e-17	Reference Frame: ICRS

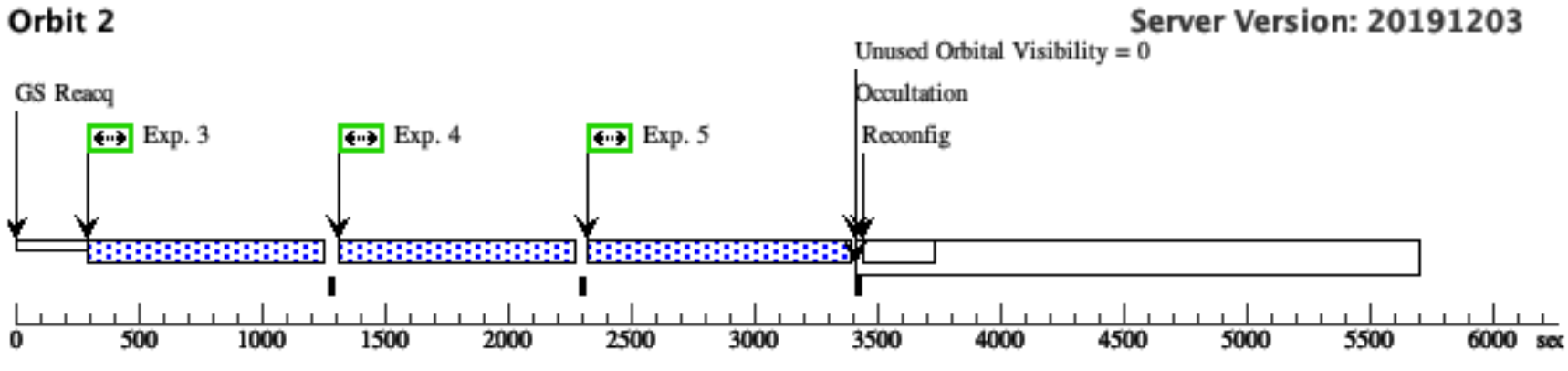
Comments: The object is compact. The coordinates of the brightest pixel were measured with Aladin v8.0 using SDSS images.
Category=GALAXY
Description=[DWARF COMPACT, STARBURST]
Extended=NO

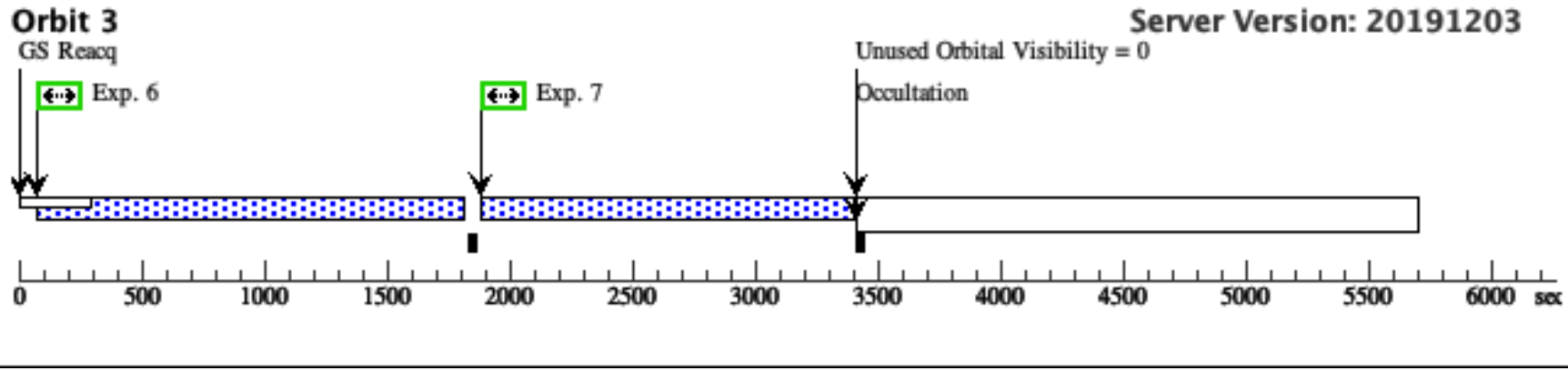
Exposures

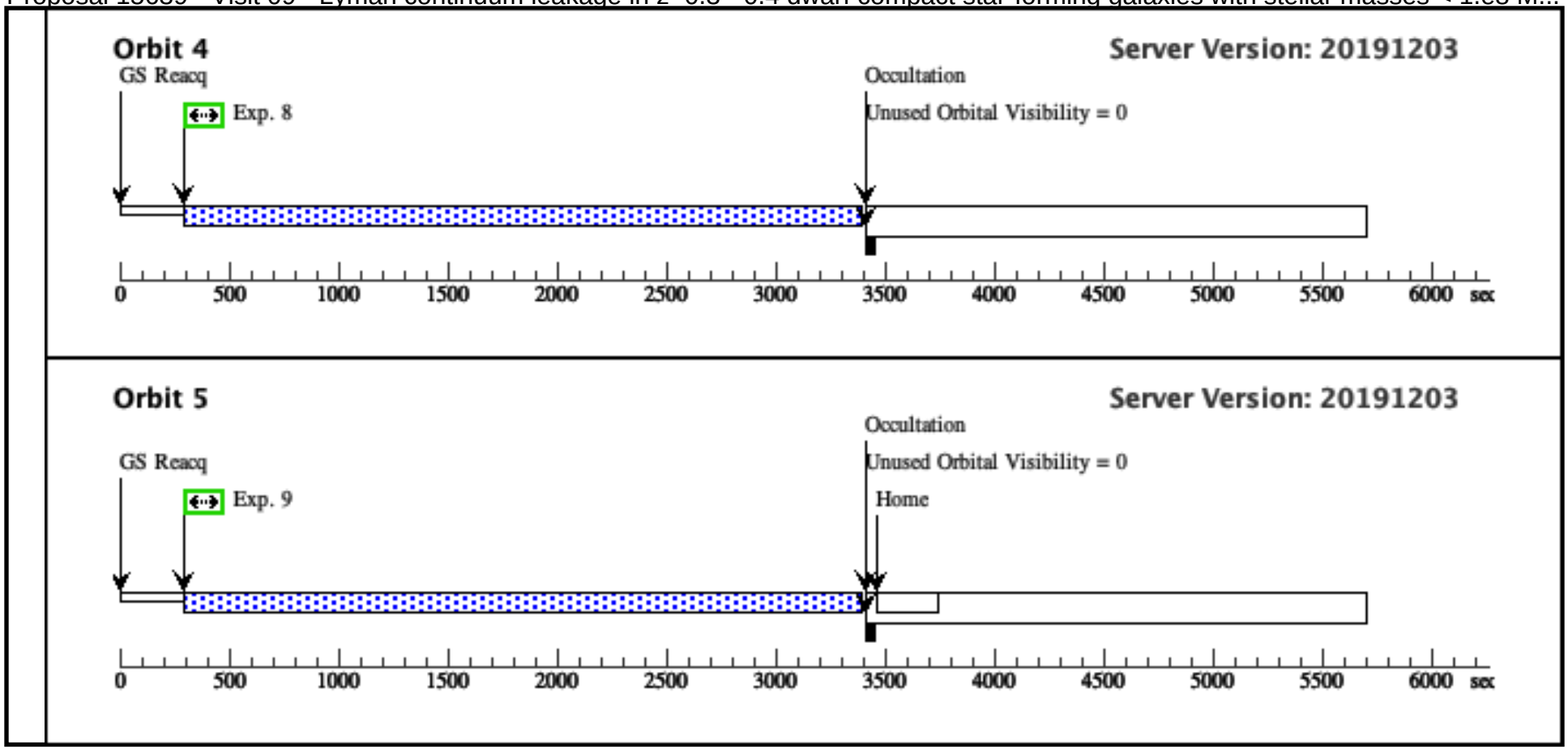
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	J1455+6107 ACQ (COS.ta.1297187)	(9) J1455+6107	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				900 Secs (900 Secs) *[==>]*	***[1]***
2	J1455+6107 G160M#1 (COS.sp.1297911)	(9) J1455+6107	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=1; SEGMENT=BOTH			2900 Secs (925 Secs) *[==>925.0 Secs]*	***[1]***
3	J1455+6107 G160M#2 (COS.sp.1297911)	(9) J1455+6107	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=2; SEGMENT=BOTH			2900 Secs (910 Secs) *[==>910.0 Secs]*	***[2]***
4	J1455+6107 G160M#3 (COS.sp.1297911)	(9) J1455+6107	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=3; SEGMENT=BOTH			2900 Secs (910 Secs) *[==>910.0 Secs]*	***[2]***
5	J1455+6107 G160M#4 (COS.sp.1297911)	(9) J1455+6107	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=20000; FLASH=YES; FP-POS=4; SEGMENT=BOTH			2900 Secs (1015 Secs) *[==>1015.0 Secs]*	***[2]***
6	J1455+6107 G140L#1 (COS.sp.1297770)	(9) J1455+6107	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=1; SEGMENT=A			1500 Secs (1464 Secs) *[==>1464.0 Secs]*	***[3]***
7	J1455+6107 G140L#2 (COS.sp.1297770)	(9) J1455+6107	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=2; SEGMENT=A			1500 Secs (1464 Secs) *[==>1464.0 Secs]*	***[3]***
8	J1455+6107 G140L#3 (COS.sp.1297770)	(9) J1455+6107	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=3; SEGMENT=A			1500 Secs (3045 Secs) *[==>3045.0 Secs]*	***[4]***
9	J1455+6107 G140L#4 (COS.sp.1297770)	(9) J1455+6107	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=10000.0; FLASH=YES; FP-POS=4; SEGMENT=A			1500 Secs (3045 Secs) *[==>3045.0 Secs]*	***[5]***

Orbit Structure





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GS Reacq
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Orbit 5
Server Version: 20191203
Occultation
GS Reacq
Unused Orbital Visibility = 0
Exp. 9
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6000
sec