



15075 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

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) SDSSJ105911.85+175424.3	COS/FUV COS/NUV	1	06-Aug-2018 14:00:20.0	yes
02	(2) SDSSJ124554.61+443536.9	COS/FUV COS/NUV	1	06-Aug-2018 14:00:21.0	yes
03	(49) SDSSJ120118.00+335101.7	COS/FUV COS/NUV	1	06-Aug-2018 14:00:22.0	yes

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Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
04	(4) SDSSJ011132.32+133519.1	COS/FUV COS/NUV	1	06-Aug-2018 14:00:23.0	yes
05	(5) SDSSJ112355.92+075332.6	COS/FUV COS/NUV	1	06-Aug-2018 14:00:23.0	yes
06	(50) SDSSJ092053.71+260744.2	COS/FUV COS/NUV	1	06-Aug-2018 14:00:24.0	yes
07	(7) SDSSJ120513.57+172711.4	COS/FUV COS/NUV	1	06-Aug-2018 14:00:24.0	yes
08	(8) SDSSJ082337.39+064436.0	COS/FUV COS/NUV	1	06-Aug-2018 14:00:25.0	yes
09	(9) SDSSJ163930.16+281633.1	COS/FUV COS/NUV	1	06-Aug-2018 14:00:26.0	yes
10	(10) SDSSJ095659.17+295043.2	COS/FUV COS/NUV	1	06-Aug-2018 14:00:26.0	yes
11	(11) SDSSJ163454.50+115440.0	COS/FUV COS/NUV	1	06-Aug-2018 14:00:27.0	yes
12	(12) SDSSJ122337.21+270845.7	COS/FUV COS/NUV	1	06-Aug-2018 14:00:27.0	yes
13	(51) SDSSJ224645.75+003629.4	COS/FUV COS/NUV	1	06-Aug-2018 14:00:28.0	yes
46	(46) SDSSJ103222.58-000345.6	COS/FUV COS/NUV	1	06-Aug-2018 14:00:29.0	yes
15	(15) SDSSJ012414.03+145513.3	COS/FUV COS/NUV	1	06-Aug-2018 14:00:29.0	yes
16	(16) SDSSJ153541.18-001621.6	COS/FUV COS/NUV	1	06-Aug-2018 14:00:30.0	yes
17	(17) SDSSJ123120.45+064737.5	COS/FUV COS/NUV	1	06-Aug-2018 14:00:30.0	yes

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Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
18	(18) SDSSJ103624.23+493718.2	COS/FUV COS/NUV	1	06-Aug-2018 14:00:31.0	yes
19	(19) SDSSJ235229.93-002702.4	COS/FUV COS/NUV	1	06-Aug-2018 14:00:31.0	yes
20	(52) SDSSJ143407.28+404303.4	COS/FUV COS/NUV	1	06-Aug-2018 14:00:32.0	yes
21	(21) SDSSJ115749.07+414134.3	COS/FUV COS/NUV	1	06-Aug-2018 14:00:33.0	yes
22	(53) SDSSJ074125.12+435605.6	COS/FUV COS/NUV	1	06-Aug-2018 14:00:33.0	yes
23	(23) SDSSJ075503.02+401155.8	COS/FUV COS/NUV	1	06-Aug-2018 14:00:34.0	yes
24	(24) SDSSJ113245.50+431637.9	COS/FUV COS/NUV	1	06-Aug-2018 14:00:34.0	yes
25	(25) SDSSJ131639.93+232323.0	COS/FUV COS/NUV	1	06-Aug-2018 14:00:35.0	yes
Z5	(25) SDSSJ131639.93+232323.0	COS/FUV COS/NUV	1	06-Aug-2018 14:00:35.0	yes
26	(26) SDSSJ115951.50+225157.9	COS/FUV COS/NUV	1	06-Aug-2018 14:00:36.0	yes
27	(27) SDSSJ015354.99+001011.0	COS/FUV COS/NUV	1	06-Aug-2018 14:00:37.0	yes
28	(28) SDSSJ130844.32+663927.3	COS/FUV COS/NUV	1	06-Aug-2018 14:00:37.0	yes
29	(29) SDSSJ123107.10+025724.5	COS/FUV COS/NUV	1	06-Aug-2018 14:00:38.0	yes
30	(30) SDSSJ091423.03+503855.2	COS/FUV COS/NUV	1	06-Aug-2018 14:00:38.0	yes

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Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
31	(31) SDSSJ094811.87+381431.5	COS/FUV COS/NUV	1	06-Aug-2018 14:00:39.0	yes
32	(54) SDSSJ084443.03+454831.3	COS/FUV COS/NUV	1	06-Aug-2018 14:00:39.0	yes
33	(33) SDSSJ092950.23+085821.4	COS/FUV COS/NUV	1	06-Aug-2018 14:00:40.0	yes
47	(47) SDSSJ130940.41+632557.5	COS/FUV COS/NUV	1	06-Aug-2018 14:00:40.0	yes
35	(35) SDSSJ015327.20-004522.9	COS/FUV COS/NUV	1	06-Aug-2018 14:00:41.0	yes
36	(36) SDSSJ135711.23+555804.9	COS/FUV COS/NUV	1	06-Aug-2018 14:00:42.0	yes
37	(37) SDSSJ124312.52+480838.5	COS/FUV COS/NUV	1	06-Aug-2018 14:00:42.0	yes
38	(38) SDSSJ153645.52+015143.2	COS/FUV COS/NUV	1	06-Aug-2018 14:00:43.0	yes
39	(39) SDSSJ112558.27+121616.1	COS/FUV COS/NUV	1	06-Aug-2018 14:00:43.0	yes
48	(48) SDSSJ080231.91+381538.4	COS/FUV COS/NUV	1	06-Aug-2018 14:00:44.0	yes
41	(41) SDSSJ123154.78+390311.6	COS/FUV COS/NUV	1	06-Aug-2018 14:00:44.0	yes
42	(42) SDSSJ004502.64+004403.3	COS/FUV COS/NUV	1	06-Aug-2018 14:00:45.0	yes
43	(43) SDSSJ155729.93+330446.9	COS/FUV COS/NUV	1	06-Aug-2018 14:00:46.0	yes
44	(44) SDSSJ135239.76+240735.9	COS/FUV COS/NUV	1	06-Aug-2018 14:00:46.0	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>
45	(45) SDSSJ153919.13+434051.5	COS/FUV COS/NUV	1	06-Aug-2018 14:00:47.0	yes

46 Total Orbits Used

ABSTRACT

We propose to survey the cold HI content and metallicity of the circumgalactic medium (CGM) around 50 (45 new, 5 archival) $z \sim 0.5$ Luminous Red Galaxies (LRGs) to directly test a fundamental prediction of galaxy assembly models: that cold, metal-poor accretion does not survive to the inner halos of very massive galaxies. Accretion and feedback through the CGM play key roles in our models of the star formation dichotomy in galaxies. Low mass galaxies are thought to accrete gas in cold streams, while high mass galaxies host hot, dense halos that heat incoming gas and prevent its cooling, thereby quenching star formation. HST/COS has provided evidence for cold, metal-poor streams in the halos of star-forming galaxies (consistent with cold accretion). Observations have also demonstrated the presence of cool gas in the halos of passive galaxies, a potential challenge to the cold/hot accretion model. Our proposed observations will target the most massive galaxies and address the origin of the cool CGM gas by measuring the metallicity. This experiment is enabled by our novel approach to deriving metallicities, allowing the use of much fainter QSOs. It cannot be done with archival data, as these rare systems are not often probed along random sight lines. The H I column density (and metallicity) measurements require access to the UV. The large size of our survey is crucial to robustly assess whether the CGM in these galaxies is unique from that of star-forming systems, a comparison that provides the most stringent test of cold-mode accretion/quenching models to date. Conversely, widespread detections of metal-poor gas in these halos will seriously challenge the prevailing theory.

OBSERVING DESCRIPTION

*Target selection:

We have selected our LRG-QSO pairs (see Fig. 4) using a combination of the ~ 1.3 million LRGs with spectroscopic redshifts in the SDSS DR13 CMASS sample (Albareti et al. 2017, Hutchinson et al. 2016) and the SDSS DR7 and DR10 QSO catalogs (Schneider et al. 2010, Paris et al. 2014). We identified pairs with physical separations $\rho \leq 125$ kpc ($\sim 0.25 R_{\text{vir}}$) at the redshift of the LRG. We require $0.3 < z_{\text{LRG}} < 0.65$ to place both the Lyman limit and Lyman-alpha in the G140L spectrum, providing us with measures of column densities over $16.4 < \sim \log N(\text{H I}) \leq 18.3$ and $\log N(\text{H I}) > 20$. We exclude a small redshift range that places the relevant lines in the Galactic Ly-alpha trough. The QSOs were limited to $\text{AB}(\text{FUV}) < 20$ mag from GALEX to ensure we obtain good UV spectra with minimized contamination from higher-redshift LLSs. This magnitude selection does not bias our results, as the LRGs are low enough redshift that an associated Lyman break will not strongly affect the flux within the GALEX FUV

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band (most will lie outside of the FUV band altogether). We require $[z_{\text{LRG}} + 5 \cdot \sigma(z_{\text{QSO}})] < z_{\text{QSO}} < [z_{\text{LRG}} + 0.5]$. The lower limit ensures the QSOs are beyond the LRGs; the upper limit minimizes the chances of losing access to the LRG limit due to higher-redshift LLSs or Lyman-alpha forest blending. Although the FUV criterion should exclude high- z LLSs, we removed sight lines with strong Mg II absorbers in SDSS at $z > z_{\text{LRG}}$.

The CMASS sample includes some late-type or star-forming galaxies. We have excluded late-type galaxies from our sample following using the color cut recommended K. Masters et al. (2011), $(g-i)_{\text{observed}} > 2.35$.

We adopt the 50 lowest impact parameter pairs matching these criteria (Fig. 4). Five of these are from archived observations (6/113 of the SDSS-drawn sight lines are from programs 14145/14171; to avoid bias due to their Mg II selection, only 5.3% of our final sample may be from these archival sight lines [3 sight lines]).

*Multiplicity and satellites:

LRGs are strongly clustered. We will not obtain a large enough sample to adequately probe the impact of multiple LRGs in a halo on the CGM. For this reason, we targeted "isolated" LRGs, rejecting LRGs with a partner within $\sim 2 \cdot R_{\text{vir}}$. Each LRG will have a multitude of satellites. We will likely not observe the gas directly associated with these satellites. Gauthier & Chen (2011) explored this issue for LRG satellites, finding a probability $< 2\%$ that a sight line within $\rho < 150$ kpc of an LRG would intercept the gaseous halo of an individual satellite, as their cross section and H I covering factors (Faucher-Giguere et al. 2015) are small. We may, however, observe metal-enriched gas stripped or expelled from these satellites (Huang et al. 2016). This material may be an important source of cool material for the central LRG. Such metal-enriched gas could itself fuel star formation if it can stay cool; our metallicity determinations will shed light on this process.

*Target yield:

Our requirement to target ~ 50 QSOs assumes unavoidable (but small) losses that arise from the target selection and the intrinsic properties of QSOs. We estimate $\sim 10\%$ of the observed sight lines will be unusable for our science goals because they will have intervening LLSs at higher redshift [$< 5\%$] (from Cycle 18 statistics with allowance for our FUV selection) or the QSOs turn out to have broad absorption lines [$\sim 8\%$] (SDSS spectra of our targets do not show BAL features; even so, our similarly-selected Cycle 18 QSOs had an 8% BAL contamination rate). These losses cannot be avoided before a first UV spectrum is obtained of these QSOs (and these data may ultimately be a boon for BAL practitioners).

*Observational design:

We will observe each QSO with the COS FUV detector and G140L grating ($\lambda_{\text{c}} = 1105$ Ang), which gives coverage over $1150 < \lambda <$

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2300 Ang. This set-up avoids the detector gap present in the $\lambda_c=1280$ Ang configuration shown in Fig. 3, which can be helpful in modeling the LLS absorption, and it ensures none of the Lyman breaks are lost in the gap. (It does incur a 330 s overhead to power down detector segment B, but the advantages outweigh this.) This set-up provides coverage of the H I Lyman limit, Lyman-alpha, and the other Lyman series transitions. Strong metal lines, notably O VI, may be detectable in some LLSs (although when detected they will be saturated).

We will use one orbit per target and expect an on-target exposure time of ~ 2200 s for each QSO, split across 2 FP-POS settings. This will provide $S/N > 5$ per resolution element at the position of the Lyman limit for our faintest targets (although most will be significantly higher). Our lowest S/N spectra will be comparable to the data shown in the bottom panel of Fig. 3, which clearly shows a LLS. This faintest object is captured in the online ETC calculation COS.sp.935962 for a break at ~ 1420 Ang. This is significantly better than our average Cycle 18 snapshot spectra (longer exposure times) and will provide a very good measure of the Lyman break opacity for the systems even to $\log N(\text{HI}) \sim 16.4$, and we will have some sensitivity to ~ 15.5 through strong Lyman-series lines.

While our previous snapshot program was successful, the current experiment cannot be done as a snapshot program. We would require >150 targets to yield sufficient statistics in the final sample. There are not 150 LRG-QSO pairs with separations $\rho \leq 125$ kpc and bright enough QSOs to provide sufficient S/N in the lower snapshot exposure times. Going to larger impact parameters does not necessarily help, as the covering factors may be lower at larger impact parameter (Huang et al. 2016). None of our targets pose a risk to the detector, and all are sufficiently bright to provide spectroscopy useable for the detection of LLSs.

*Low-resolution metallicities:

We will use observations of Mg II/H I (from MODS/COS) to estimate the fraction of the LRG LLSs having metallicities consistent with those expected for cool infalling gas near galaxies. Wotta et al. (2016; see Fig. 2) demonstrate this approach (at the same redshifts as our target galaxies), showing the ionization correction required to estimate $[\text{Mg}/\text{H}]$ from Mg II/H I is relatively flat over the limited range of ionization parameters found in LLSs. For our proposed program, LRGs with very weak Mg II absorption or non-detections at the limits we reach with LBT/MODS (0.05 Ang, 3σ) will all be confined to the lower metallicity branch (Fig. 1), consistent with metallicities expected for infalling gas (Fumagalli et al. 2011a). Furthermore, we can use LBT/PEPSI, Keck/HIRES, VLT/UVES, or Magellan/MIKE to push non-detections as far as $[\text{Mg}/\text{H}] < -3$. The bimodal distribution, both in Lehner et al. and with our low-resolution metallicities, is not strongly affected by choice of UV background models (Lehner et al. 2013, Fumagalli et al. 2016).

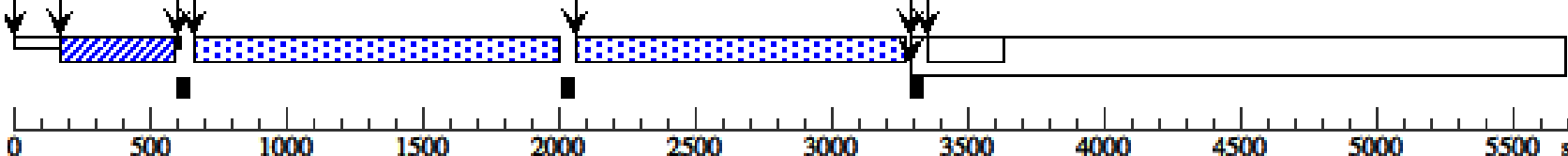
*Acquisition:

All acquisitions will use the ACQ/IMAGE in the NUV. The positions from SDSS are good enough for this purpose. All of our target span the range $17.6 < \text{FUV} < 20.0$ mag and $18.2 < \text{NUV} < 22.0$ mag. All are QSOs spectroscopically confirmed by SDSS with GALEX magnitudes. Using a QSO template at appropriate redshifts, we find that all but the faintest 4 objects and the brightest 1 can use the same acquisition setup: MIRROR-A + 100 sec exposure time yields $\text{SNR} > 40$ in all of those cases. For the single brightest object with $\text{FUV}=17.6$ and $\text{NUV}=18.1$ (object 4), we use MIRROR-B with otherwise the same set-up. For the faintest 5 targets, we use an exposure time of 150 sec.

Proposal 15075 - Visit 01 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 01, completed					Mon Aug 06 18:00:48 GMT 2018				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(Visit 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SDSSJ105911.85+175424.3	RA: 10 59 11.8579 (164.7994079d) Dec: +17 54 24.32 (17.90676d) Equinox: J2000	Redshift: 0.575456	V=18.016+/-0.021 GALEX NUV Mag: 18.50	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(1) SDSSJ105911.85 +175424.3	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs) [==>]	[1]
	2	(COS.sp.100 5413)	(1) SDSSJ105911.85 +175424.3	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=1			1100 Secs (1166 Secs) [==>1166.0 Secs]	[1]
	3	(COS.sp.100 5413)	(1) SDSSJ105911.85 +175424.3	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=2			1000 Secs (1066 Secs) [==>1066.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 5 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home 05001000150020002500300035004000450050005500sec									

Proposal 15075 - Visit 02 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 02, completed					Mon Aug 06 18:00:48 GMT 2018				
	Diagnostic Status: Warning									
Scientific Instruments: COS/FUV, COS/NUV										
Special Requirements: (none)										
Diagnostics	(Visit 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	SDSSJ124554.61+443536.9	RA: 12 45 54.6167 (191.4775696d) Dec: +44 35 36.95 (44.59360d) Equinox: J2000	Redshift: 0.846152	V=19.25+/-0.024 GALEX NUV Mag: 19.97	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[QSO] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(2) SDSSJ124554.61 +443536.9	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs)	
									[==>]	[1]
	2	(COS.sp.100 5413)	(2) SDSSJ124554.61 +443536.9	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=1			1100 Secs (1157 Secs)	
									[==>1157.0 Secs]	[1]
3	(COS.sp.100 5413)	(2) SDSSJ124554.61 +443536.9	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=2			1100 Secs (1157 Secs)		
								[==>1157.0 Secs]	[1]	
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 5 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home  05001000150020002500300035004000450050005500 sec									

Proposal 15075 - Visit 03 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Mon Aug 06 18:00:48 GMT 2018

Visit	Proposal 15075, Visit 03, scheduling									
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnosics	(Visit 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(49)	SDSSJ120118.00+335101.7	RA: 12 01 17.9993 (180.3249971d) Dec: +33 51 1.75 (33.85049d) Equinox: J2000	Redshift: 0.687728	V=17.842+/-0.015 GALEX NUV Mag: 18.07	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.103 9890)	(49) SDSSJ120118.0 0+335101.7	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				10 Secs (10 Secs)	
									[==>]	[1]
	2	(COS.sp.100 5413)	(49) SDSSJ120118.0 0+335101.7	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=1			1200 Secs (1220 Secs)	
									[==>1220.0 Secs]	[1]
3	(COS.sp.100 5413)	(49) SDSSJ120118.0 0+335101.7	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=2			1200 Secs (1220 Secs)		
								[==>1220.0 Secs]	[1]	
Orbit Structure	Orbit 1 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Unused Orbital Visibility = 1 Occultation Home 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 sec									
	Server Version: 20180409									

Proposal 15075 - Visit 04 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 04, completed					Mon Aug 06 18:00:48 GMT 2018				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(Visit 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	SDSSJ011132.32+133519.1	RA: 01 11 32.3250 (17.8846875d) Dec: +13 35 19.10 (13.58864d) Equinox: J2000	Redshift: 0.576947	V=17.338+/-0.029 GALEX NUV Mag: 17.60	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5523)	(4) SDSSJ011132.32 +133519.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				150 Secs (150 Secs) [==>]	[1]
	2	(COS.sp.100 5413)	(4) SDSSJ011132.32 +133519.1	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=1			1050 Secs (1062 Secs) [==>1062.0 Secs]	[1]
	3	(COS.sp.100 5413)	(4) SDSSJ011132.32 +133519.1	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=2			1050 Secs (1062 Secs) [==>1062.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 6 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home									

Proposal 15075 - Visit 05 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 05, completed					Mon Aug 06 18:00:48 GMT 2018				
	Diagnostic Status: Warning									
Scientific Instruments: COS/FUV, COS/NUV										
Special Requirements: (none)										
Diagnostics	(Visit 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	SDSSJ112355.92+075332.6	RA: 11 23 55.9277 (170.9830321d) Dec: +07 53 32.61 (7.89239d) Equinox: J2000	Redshift: 0.939065	V=18.686+/-0.022 GALEX NUV Mag: 19.35	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[QSO] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(5) SDSSJ112355.92 +075332.6	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs) [==>]	[1]
	2	(COS.sp.100 5413)	(5) SDSSJ112355.92 +075332.6	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=1			1100 Secs (1110 Secs) [==>1110.0 Secs]	[1]
	3	(COS.sp.100 5413)	(5) SDSSJ112355.92 +075332.6	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=2			1100 Secs (1110 Secs) [==>1110.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 6									

Proposal 15075 - Visit 06 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Mon Aug 06 18:00:48 GMT 2018

Visit	Proposal 15075, Visit 06, scheduling									
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: (none)									
Diagnostics	(Visit 06) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(50)	SDSSJ092053.71+260744.2	RA: 09 20 53.7158 (140.2238158d) Dec: +26 07 44.25 (26.12896d) Equinox: J2000	Redshift: 0.753897	V=18.475+/-0.012 GALEX NUV Mag: 18.65	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.103 9891)	(50) SDSSJ092053.7 1+260744.2	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				15 Secs (15 Secs) [==>]	[1]
	2	(COS.sp.100 5413)	(50) SDSSJ092053.7 1+260744.2	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4000; SEGMENT=A; FP-POS=1			1200 Secs (1208 Secs) [==>1208.0 Secs]	[1]
	3	(COS.sp.100 5413)	(50) SDSSJ092053.7 1+260744.2	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4000; SEGMENT=A; FP-POS=2			1200 Secs (1208 Secs) [==>1208.0 Secs]	[1]
Orbit Structure	Orbit 1 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Unused Orbital Visibility = 0 Occultation Home 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 sec									
	Server Version: 20180409									

Proposal 15075 - Visit 07 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Mon Aug 06 18:00:48 GMT 2018

		Mon Aug 06 18:00:48 GMT 2018									
Visit	Proposal 15075, Visit 07, scheduling										
	Diagnostic Status: Warning										
	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: (none)										
Diagnostics	(Visit 07) 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.										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(7)	SDSSJ120513.57+172711.4	RA: 12 05 13.5718 (181.3065492d) Dec: +17 27 11.49 (17.45319d) Equinox: J2000	Redshift: 0.857537	V=18.481+/-0.015 GALEX NUV Mag: 19.01	Reference Frame: ICRS					
Comments: Category=GALAXY Description=[QSO] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(COS.ta.100 5407)	(7) SDSSJ120513.57 +172711.4	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs)		
									[=>]		[1]
	2	(COS.sp.100 5413)	(7) SDSSJ120513.57 +172711.4	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=1			1100 Secs (1116 Secs)		
									[=>1116.0 Secs]		[1]
3	(COS.sp.100 5413)	(7) SDSSJ120513.57 +172711.4	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=2			1100 Secs (1116 Secs)			
									[=>1116.0 Secs]		[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 5 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home The diagram illustrates the sequence of events during Orbit 1. Key milestones include GS Acquisition, three exposures (Exp. 1, 2, and 3), a pointing maneuver, occultation, and returning home. The timeline shows periods of observation (hatched areas) and non-observation (white area). The total duration shown is 5500 seconds.										

Proposal 15075 - Visit 08 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 08, completed									
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: (none)									
Diagnostics	(Visit 08) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	SDSSJ082337.39+064436.0	RA: 08 23 37.3993 (125.9058304d) Dec: +06 44 36.07 (6.74335d) Equinox: J2000	Redshift: 1.018773	V=17.823+/-0.012 GALEX NUV Mag: 18.80	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[QSO] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(8) SDSSJ082337.39 +064436.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs) [==>]	[1]
	2	(COS.sp.100 5413)	(8) SDSSJ082337.39 +064436.0	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=1			1100 Secs (1110 Secs) [==>1110.0 Secs]	[1]
	3	(COS.sp.100 5413)	(8) SDSSJ082337.39 +064436.0	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=2			1100 Secs (1110 Secs) [==>1110.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 6 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Home Occultation 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 sec									

Proposal 15075 - Visit 09 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 09, scheduled					Mon Aug 06 18:00:48 GMT 2018				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(Visit 09) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	SDSSJ163930.16+281633.1	RA: 16 39 30.1685 (249.8757021d) Dec: +28 16 33.16 (28.27588d) Equinox: J2000	Redshift: 0.599441	V=19.322+/-0.016 GALEX NUV Mag: 19.32	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(9) SDSSJ163930.16 +281633.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs) [==>]	[1]
	2	(COS.sp.100 5413)	(9) SDSSJ163930.16 +281633.1	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=1			1100 Secs (1120 Secs) [==>1120.0 Secs]	[1]
	3	(COS.sp.100 5413)	(9) SDSSJ163930.16 +281633.1	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=2			1100 Secs (1120 Secs) [==>1120.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 6									

Proposal 15075 - Visit 10 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 10, completed					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: (none)									
Diagnostics	(Visit 10) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	SDSSJ095659.17+295043.2	RA: 09 56 59.1724 (149.2465517d) Dec: +29 50 43.25 (29.84535d) Equinox: J2000	Redshift: 0.551782	V=18.112+/-0.018 GALEX NUV Mag: 18.65	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(10) SDSSJ095659.17+295043.2	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs) [==>]	[1]
	2	(COS.sp.100 5413)	(10) SDSSJ095659.17+295043.2	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4000; SEGMENT=A; FP-POS=1			1100 Secs (1120 Secs) [==>1120.0 Secs]	[1]
	3	(COS.sp.100 5413)	(10) SDSSJ095659.17+295043.2	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4000; SEGMENT=A; FP-POS=2			1100 Secs (1120 Secs) [==>1120.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 6 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home <									

Proposal 15075 - Visit 11 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 11, completed					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning									
Scientific Instruments: COS/FUV, COS/NUV										
Special Requirements: (none)										
Diagnostics	(Visit 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(11)	SDSSJ163454.50+115440.0	RA: 16 34 54.5068 (248.7271117d) Dec: +11 54 40.02 (11.91112d) Equinox: J2000	Redshift: 0.780286	V=18.803+/-0.014 GALEX NUV Mag: 19.67	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[QSO] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(11) SDSSJ163454.5 0+115440.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs) [==>]	[1]
	2	(COS.sp.100 5413)	(11) SDSSJ163454.5 0+115440.0	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=1			1100 Secs (1112 Secs) [==>1112.0 Secs]	[1]
	3	(COS.sp.100 5413)	(11) SDSSJ163454.5 0+115440.0	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=2			1100 Secs (1112 Secs) [==>1112.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 6 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home 05001000150020002500300035004000450050005500sec									

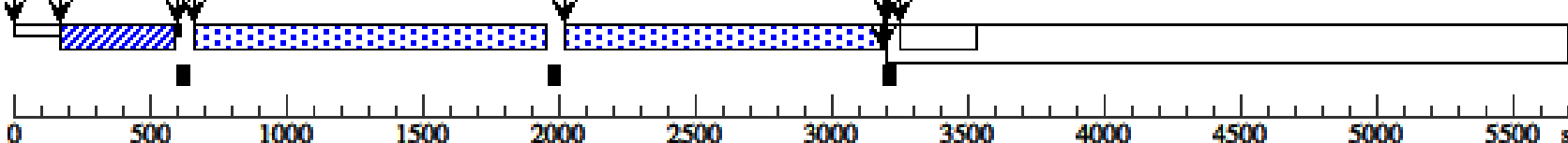
Proposal 15075 - Visit 12 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 12, scheduling					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(Visit 12) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	SDSSJ122337.21+270845.7	RA: 12 23 37.2144 (185.9050600d) Dec: +27 08 45.70 (27.14603d) Equinox: J2000	Redshift: 0.539749	V=18.302+/-0.017 GALEX NUV Mag: 18.65	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(12) SDSSJ122337.2 1+270845.7	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs)	
									[==>]	[1]
	2	(COS.sp.100 5413)	(12) SDSSJ122337.2 1+270845.7	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=1			1100 Secs (1120 Secs)	
									[==>1120.0 Secs]	[1]
3	(COS.sp.100 5413)	(12) SDSSJ122337.2 1+270845.7	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=2			1100 Secs (1120 Secs)		
									[==>1120.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 6 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 sec									

Proposal 15075 - Visit 13 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 13, completed										Mon Aug 06 18:00:49 GMT 2018
	Diagnostic Status: Warning										
	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: (none)										
Diagnostics	(Visit 13) 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.										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(51)	SDSSJ224645.75+003629.4	RA: 22 46 45.7544 (341.6906433d) Dec: +00 36 29.44 (.60818d) Equinox: J2000		Redshift: 0.973141		V=16.961+/-0.014 GALEX NUV Mag: 18.15		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[QSO] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(COS.ta.103 9890)	(51) SDSSJ224645.7 5+003629.4	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				10 Secs (10 Secs)		
									[==>]		[1]
	2	(COS.sp.100 5413)	(51) SDSSJ224645.7 5+003629.4	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4000; SEGMENT=A; FP-POS=1			1200 Secs (1200 Secs)		
									[==>]		[1]
	3	(COS.sp.100 5413)	(51) SDSSJ224645.7 5+003629.4	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4000; SEGMENT=A; FP-POS=2			1200 Secs (1200 Secs)		
								[==>]		[1]	
Orbit Structure	Orbit 1 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Unused Orbital Visibility = 3 Occultation Home 05001000150020002500300035004000450050005500 sec										

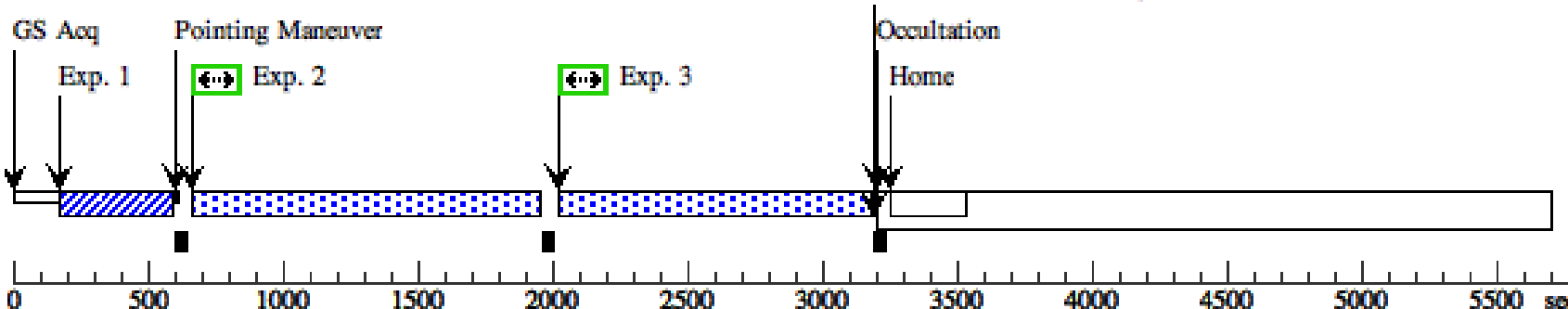
Proposal 15075 - Visit 46 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 46, completed					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(Visit 46) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(46)	SDSSJ103222.58-000345.6	RA: 10 32 22.5806 (158.0940858d) Dec: -00 03 45.63 (-.06268d) Equinox: J2000	Redshift: 0.559272	V=19.322+/-0.015 GALEX NUV Mag: 19.75	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(46) SDSSJ103222.5 8-000345.6	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs) [==>]	[1]
	2	(COS.sp.100 5413)	(46) SDSSJ103222.5 8-000345.6	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=1			1100 Secs (1109 Secs) [==>1109.0 Secs]	[1]
	3	(COS.sp.100 5413)	(46) SDSSJ103222.5 8-000345.6	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=2			1100 Secs (1109 Secs) [==>1109.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 5 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home  05001000150020002500300035004000450050005500 sec									

Proposal 15075 - Visit 15 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 15, scheduling					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(Visit 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(15)	SDSSJ012414.03+145513.3	RA: 01 24 14.0350 (21.0584792d) Dec: +14 55 13.36 (14.92038d) Equinox: J2000	Redshift: 0.719663	V=18.133+/-0.025 GALEX NUV Mag: 19.27	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(15) SDSSJ012414.0 3+145513.3	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs) [==>]	[1]
	2	(COS.sp.100 5413)	(15) SDSSJ012414.0 3+145513.3	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=1			1100 Secs (1112 Secs) [==>1112.0 Secs]	[1]
	3	(COS.sp.100 5413)	(15) SDSSJ012414.0 3+145513.3	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=2			1100 Secs (1112 Secs) [==>1112.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 6									

Proposal 15075 - Visit 16 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 16, completed					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(Visit 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(16)	SDSSJ153541.18-001621.6	RA: 15 35 41.1914 (233.9216308d) Dec: -00 16 21.69 (-.27269d) Equinox: J2000	Redshift: 0.671786	V=19.275+/-0.015 GALEX NUV Mag: 19.62	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(16) SDSSJ153541.1 8-001621.6	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs)	
									[==>]	[1]
	2	(COS.sp.100 5413)	(16) SDSSJ153541.1 8-001621.6	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=1			1100 Secs (1109 Secs)	
									[==>1109.0 Secs]	[1]
3	(COS.sp.100 5413)	(16) SDSSJ153541.1 8-001621.6	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=2			1100 Secs (1109 Secs)		
									[==>1109.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 5 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home 									

Proposal 15075 - Visit 17 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 17, completed					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: (none)									
Diagnostics	(Visit 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(17)	SDSSJ123120.45+064737.5	RA: 12 31 20.4602 (187.8352508d) Dec: +06 47 37.55 (6.79376d) Equinox: J2000	Redshift: 0.95519	V=19.086+/-0.022 GALEX NUV Mag: 19.54	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(17) SDSSJ123120.4 5+064737.5	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs) [==>]	[1]
	2	(COS.sp.100 5413)	(17) SDSSJ123120.4 5+064737.5	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=1			1100 Secs (1110 Secs) [==>1110.0 Secs]	[1]
	3	(COS.sp.100 5413)	(17) SDSSJ123120.4 5+064737.5	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=2			1100 Secs (1110 Secs) [==>1110.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 6 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 sec									

Proposal 15075 - Visit 18 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

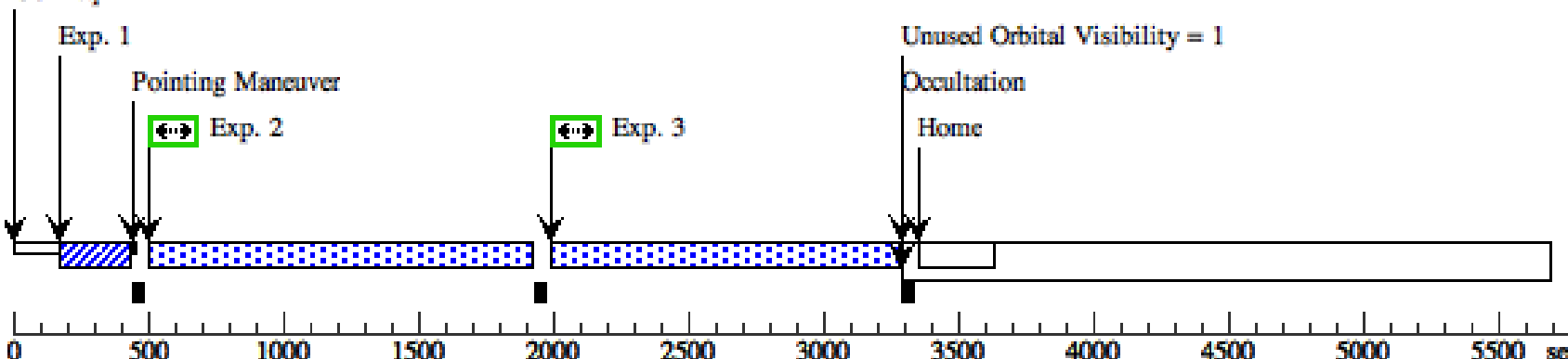
Visit	Proposal 15075, Visit 18, completed					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
Special Requirements: (none)										
Diagnostics	(Visit 18) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(18)	SDSSJ103624.23+493718.2	RA: 10 36 24.2322 (159.1009675d) Dec: +49 37 18.22 (49.62173d) Equinox: J2000	Redshift: 0.725844	V=18.691+/-0.029 GALEX NUV Mag: 18.92	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(18) SDSSJ103624.2 3+493718.2	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs) [==>]	[1]
	2	(COS.sp.100 5413)	(18) SDSSJ103624.2 3+493718.2	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4000; SEGMENT=A; FP-POS=1			1100 Secs (1180 Secs) [==>1180.0 Secs]	[1]
	3	(COS.sp.100 5413)	(18) SDSSJ103624.2 3+493718.2	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4000; SEGMENT=A; FP-POS=2			1100 Secs (1180 Secs) [==>1180.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 6 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 sec									

Proposal 15075 - Visit 19 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 19, completed									
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: (none)									
Diagnostics	(Visit 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(19)	SDSSJ235229.93-002702.4	RA: 23 52 29.9341 (358.1247254d) Dec: -00 27 2.50 (-.45069d) Equinox: J2000	Redshift: 0.892633	V=18.676+/-0.022 GALEX NUV Mag: 19.14	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(19) SDSSJ235229.93-002702.4	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs) [==>]	[1]
	2	(COS.sp.100 5413)	(19) SDSSJ235229.93-002702.4	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4000; SEGMENT=A; FP-POS=1			1100 Secs (1109 Secs) [==>1109.0 Secs]	[1]
	3	(COS.sp.100 5413)	(19) SDSSJ235229.93-002702.4	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4000; SEGMENT=A; FP-POS=2			1100 Secs (1109 Secs) [==>1109.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 5 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home 05001000150020002500300035004000450050005500sec									

Proposal 15075 - Visit 20 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Mon Aug 06 18:00:49 GMT 2018

Visit	Proposal 15075, Visit 20, completed										
	Diagnostic Status: Warning										
	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: (none)										
Diagnostics	(Visit 20) 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.										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(52)	SDSSJ143407.28+404303.4	RA: 14 34 7.2839 (218.5303496d) Dec: +40 43 3.46 (40.71763d) Equinox: J2000		Redshift: 0.681371		V=18.673+/-0.023 GALEX NUV Mag: 19.23		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[QSO] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(COS.ta.103 9893)	(52) SDSSJ143407.2 8+404303.4	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				20 Secs (20 Secs)		
									[==>]		[1]
	2	(COS.sp.100 5413)	(52) SDSSJ143407.2 8+404303.4	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4000; SEGMENT=A; FP-POS=1			1200 Secs (1239 Secs)		
									[==>1239.0 Secs]		[1]
	3	(COS.sp.100 5413)	(52) SDSSJ143407.2 8+404303.4	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4000; SEGMENT=A; FP-POS=2			1200 Secs (1239 Secs)		
								[==>1239.0 Secs]		[1]	
Orbit Structure	Orbit 1 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Unused Orbital Visibility = 1 Occultation Home  05001000150020002500300035004000450050005500sec										
	Server Version: 20180409										

Proposal 15075 - Visit 21 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 21, scheduling					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(Visit 21) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(21)	SDSSJ115749.07+414134.3	RA: 11 57 49.0723 (179.4544679d) Dec: +41 41 34.39 (41.69289d) Equinox: J2000	Redshift: 0.553185	V=18.559+/-0.014 GALEX NUV Mag: 19.31	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(21) SDSSJ115749.0 7+414134.3	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs) [==>]	[1]
	2	(COS.sp.100 5413)	(21) SDSSJ115749.0 7+414134.3	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=1			1100 Secs (1157 Secs) [==>1157.0 Secs]	[1]
	3	(COS.sp.100 5413)	(21) SDSSJ115749.0 7+414134.3	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=2			1100 Secs (1157 Secs) [==>1157.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 5 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home 05001000150020002500300035004000450050005500 sec									

Proposal 15075 - Visit 22 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 22, completed										Mon Aug 06 18:00:49 GMT 2018									
	Diagnostic Status: Warning																			
	Scientific Instruments: COS/FUV, COS/NUV																			
	Special Requirements: (none)																			
Diagnostics	(Visit 22) 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.																			
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous											
	(53)	SDSSJ074125.12+435605.6	RA: 07 41 25.1221 (115.3546754d) Dec: +43 56 5.68 (43.93491d) Equinox: J2000		Redshift: 0.662739		V=18.019+/-0.021 GALEX NUV Mag: 18.41		Reference Frame: ICRS											
	Comments: Category=GALAXY Description=[QSO] Extended=NO																			
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.		Opt. Params.		Special Reqs.		Groups		Exp. Time (Total)/[Actual Dur.]		Orbit				
	1	(COS.ta.103 9891)	(53) SDSSJ074125.1 2+435605.6	COS/NUV, ACQ/IMAGE, PSA		MIRRORA								15 Secs (15 Secs)						
														[==>]		[1]				
	2	(COS.sp.100 5413)	(53) SDSSJ074125.1 2+435605.6	COS/FUV, TIME-TAG, PSA		G140L 1105 A		BUFFER-TIME=4000; SEGMENT=A; FP-POS=1						1200 Secs (1244 Secs)						
														[==>1244.0 Secs]		[1]				
	3	(COS.sp.100 5413)	(53) SDSSJ074125.1 2+435605.6	COS/FUV, TIME-TAG, PSA		G140L 1105 A		BUFFER-TIME=4000; SEGMENT=A; FP-POS=2						1200 Secs (1244 Secs)						
													[==>1244.0 Secs]		[1]					
Orbit Structure	Orbit 1 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Unused Orbital Visibility = 1 Occultation Home The diagram shows a timeline from 0 to 5500 seconds. Key events include: GS Acq at ~100s, Exp. 1 at ~200s, Pointing Maneuver at ~300s, Exp. 2 at ~400s, Exp. 3 at ~1900s, Unused Orbital Visibility = 1 at ~3300s, Occultation at ~3400s, and Home at ~3500s. Exposures 2 and 3 are highlighted with green boxes and star icons. The timeline is divided into segments with different patterns: blue diagonal lines for GS Acq, blue checkered for Exp. 1, blue checkered for Exp. 2, blue checkered for Exp. 3, and white for the remaining time.																			

Proposal 15075 - Visit 23 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 23, completed					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: (none)									
Diagnostics	(Visit 23) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(23)	SDSSJ075503.02+401155.8	RA: 07 55 3.0267 (118.7626113d) Dec: +40 11 55.84 (40.19884d) Equinox: J2000	Redshift: 0.746042	V=17.732+/-0.014 GALEX NUV Mag: 18.54	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(23) SDSSJ075503.0 2+401155.8	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs) [==>]	[1]
	2	(COS.sp.100 5413)	(23) SDSSJ075503.0 2+401155.8	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=3			1100 Secs (1157 Secs) [==>1157.0 Secs]	[1]
	3	(COS.sp.100 5413)	(23) SDSSJ075503.0 2+401155.8	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=4			1100 Secs (1157 Secs) [==>1157.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 5 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home									

Proposal 15075 - Visit 24 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 24, scheduling					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(Visit 24) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(24)	SDSSJ113245.50+431637.9	RA: 11 32 45.5054 (173.1896058d) Dec: +43 16 38.00 (43.27722d) Equinox: J2000	Redshift: 1.026592	V=17.164+/-0.017 GALEX NUV Mag: 18.35	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(24) SDSSJ113245.5 0+431637.9	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs) [==>]	[1]
	2	(COS.sp.100 5413)	(24) SDSSJ113245.5 0+431637.9	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=3			1100 Secs (1157 Secs) [==>1157.0 Secs]	[1]
	3	(COS.sp.100 5413)	(24) SDSSJ113245.5 0+431637.9	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=4			1100 Secs (1157 Secs) [==>1157.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 5 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home 05001000150020002500300035004000450050005500sec									

Proposal 15075 - Visit 25 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Mon Aug 06 18:00:49 GMT 2018

Visit	Proposal 15075, Visit 25, failed					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning									
Scientific Instruments: COS/FUV, COS/NUV										
Special Requirements: (none)										
Diagnostics	(Visit 25) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(25)	SDSSJ131639.93+232323.0	RA: 13 16 39.9316 (199.1663817d) Dec: +23 23 23.06 (23.38974d) Equinox: J2000	Redshift: 0.749283	V=19.823+/-0.022 GALEX NUV Mag: 19.68	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[QSO] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(25) SDSSJ131639.93+232323.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs)	
									[==>]	[1]
	2	(COS.sp.100 5413)	(25) SDSSJ131639.93+232323.0	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4000; SEGMENT=A; FP-POS=3			1100 Secs (1116 Secs)	
									[==>1116.0 Secs]	[1]
3	(COS.sp.100 5413)	(25) SDSSJ131639.93+232323.0	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4000; SEGMENT=A; FP-POS=4			1100 Secs (1116 Secs)		
								[==>1116.0 Secs]	[1]	
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 6 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home									

Proposal 15075 - HOPR Repeat of failed visit 25 (Z5) - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, HOPR Repeat of failed visit 25 (Z5)					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(HOPR Repeat of failed visit 25 (Z5)) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(25)	SDSSJ131639.93+232323.0	RA: 13 16 39.9316 (199.1663817d) Dec: +23 23 23.06 (23.38974d) Equinox: J2000	Redshift: 0.749283	V=19.823+/-0.022 GALEX NUV Mag: 19.68	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(25) SDSSJ131639.9 3+232323.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORA		GS ACQ SCENARI O BASE1B3		100 Secs (100 Secs) [==>]	[1]
	2	(COS.sp.100 5413)	(25) SDSSJ131639.9 3+232323.0	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=3			1100 Secs (1116 Secs) [==>1116.0 Secs]	[1]
	3	(COS.sp.100 5413)	(25) SDSSJ131639.9 3+232323.0	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=4			1100 Secs (1116 Secs) [==>1116.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 6 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home 05001000150020002500300035004000450050005500sec									

Proposal 15075 - Visit 26 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 26, scheduling					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: (none)									
Diagnostics	(Visit 26) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(26)	SDSSJ115951.50+225157.9	RA: 11 59 51.5039 (179.9645996d) Dec: +22 51 58.00 (22.86611d) Equinox: J2000	Redshift: 1.013212	V=18.705+/-0.064 GALEX NUV Mag: 19.37	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(26) SDSSJ115951.5 0+225157.9	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs) [==>]	[1]
	2	(COS.sp.100 5413)	(26) SDSSJ115951.5 0+225157.9	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=3			1100 Secs (1116 Secs) [==>1116.0 Secs]	[1]
	3	(COS.sp.100 5413)	(26) SDSSJ115951.5 0+225157.9	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=4			1100 Secs (1116 Secs) [==>1116.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 6 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home									

Proposal 15075 - Visit 27 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 27, scheduling					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(Visit 27) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(27)	SDSSJ015354.99+001011.0	RA: 01 53 54.9966 (28.4791525d) Dec: +00 10 11.04 (.16973d) Equinox: J2000	Redshift: 0.737117	V=19.35+/-0.022 GALEX NUV Mag: 19.78	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(27) SDSSJ015354.9 9+001011.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs) [==>]	[1]
	2	(COS.sp.100 5413)	(27) SDSSJ015354.9 9+001011.0	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=3			1100 Secs (1109 Secs) [==>1109.0 Secs]	[1]
	3	(COS.sp.100 5413)	(27) SDSSJ015354.9 9+001011.0	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=4			1100 Secs (1109 Secs) [==>1109.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 5 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home 05001000150020002500300035004000450050005500 sec									

Proposal 15075 - Visit 28 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 28, scheduling					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(Visit 28) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(28)	SDSSJ130844.32+663927.3	RA: 13 08 44.3298 (197.1847075d) Dec: +66 39 27.36 (66.65760d) Equinox: J2000	Redshift: 0.553191	V=18.829+/-0.02 GALEX NUV Mag: 18.88	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(28) SDSSJ130844.3 2+663927.3	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs)	
									[==>]	[1]
	2	(COS.sp.100 5413)	(28) SDSSJ130844.3 2+663927.3	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=3			1100 Secs (1281 Secs)	
									[==>1281.0 Secs]	[1]
	3	(COS.sp.100 5413)	(28) SDSSJ130844.3 2+663927.3	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=4			1100 Secs (1281 Secs)	
									[==>1281.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 5 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home 05001000150020002500300035004000450050005500sec									

Proposal 15075 - Visit 29 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 29, completed					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(Visit 29) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(29)	SDSSJ123107.10+025724.5	RA: 12 31 7.1045 (187.7796021d) Dec: +02 57 24.52 (2.95681d) Equinox: J2000	Redshift: 0.744983	V=17.899+/-0.016 GALEX NUV Mag: 18.65	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(29) SDSSJ123107.1 0+025724.5	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs) [==>]	[1]
	2	(COS.sp.100 5413)	(29) SDSSJ123107.1 0+025724.5	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=3			1100 Secs (1109 Secs) [==>1109.0 Secs]	[1]
	3	(COS.sp.100 5413)	(29) SDSSJ123107.1 0+025724.5	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=4			1100 Secs (1109 Secs) [==>1109.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 5									

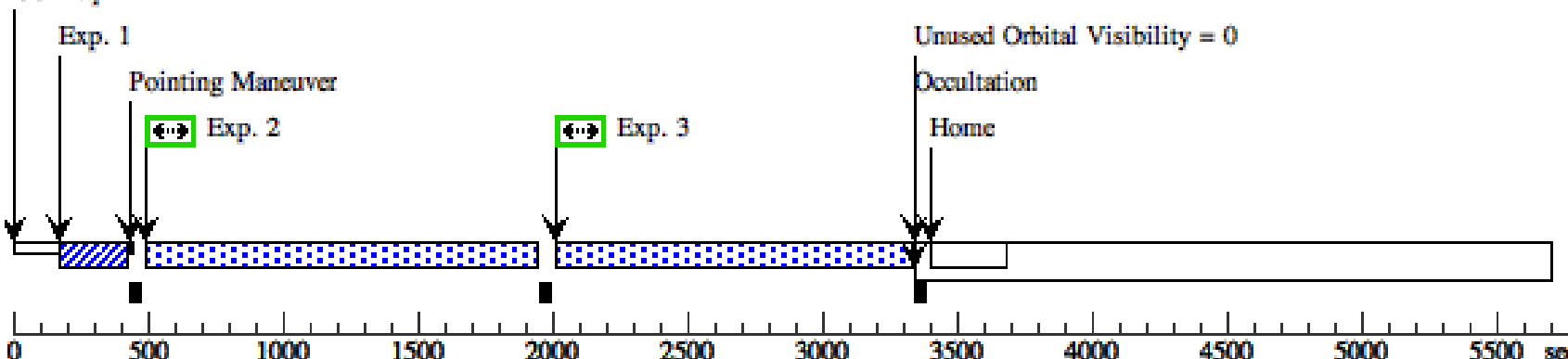
Proposal 15075 - Visit 30 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 30, completed					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(Visit 30) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(30)	SDSSJ091423.03+503855.2	RA: 09 14 23.0383 (138.5959929d) Dec: +50 38 55.28 (50.64869d) Equinox: J2000	Redshift: 0.526503	V=18.681+/-0.022 GALEX NUV Mag: 19.17	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(30) SDSSJ091423.0 3+503855.2	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs)	
									[==>]	[1]
	2	(COS.sp.100 5413)	(30) SDSSJ091423.0 3+503855.2	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=3			1100 Secs (1204 Secs)	
									[==>1204.0 Secs]	[1]
3	(COS.sp.100 5413)	(30) SDSSJ091423.0 3+503855.2	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=4			1100 Secs (1204 Secs)		
								[==>1204.0 Secs]	[1]	
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 6 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home 05001000150020002500300035004000450050005500 sec									

Proposal 15075 - Visit 31 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 31, completed					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: (none)									
Diagnostics	(Visit 31) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(31)	SDSSJ094811.87+381431.5	RA: 09 48 11.8726 (147.0494692d) Dec: +38 14 31.59 (38.24211d) Equinox: J2000	Redshift: 0.773903	V=19.423+/-0.02 GALEX NUV Mag: 19.57	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(31) SDSSJ094811.87+381431.5	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs) [==>]	[1]
	2	(COS.sp.100 5413)	(31) SDSSJ094811.87+381431.5	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4000; SEGMENT=A; FP-POS=3			1100 Secs (1138 Secs) [==>1138.0 Secs]	[1]
	3	(COS.sp.100 5413)	(31) SDSSJ094811.87+381431.5	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4000; SEGMENT=A; FP-POS=4			1100 Secs (1138 Secs) [==>1138.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 5 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 sec									

Proposal 15075 - Visit 32 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 32, completed										Mon Aug 06 18:00:49 GMT 2018
	Diagnostic Status: Warning										
	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: (none)										
Diagnostics	(Visit 32) 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.										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(54)	SDSSJ084443.03+454831.3	RA: 08 44 43.0408 (131.1793367d) Dec: +45 48 31.35 (45.80871d) Equinox: J2000		Redshift: 0.876339		V=18.23+/-0.014 GALEX NUV Mag: 18.70		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[QSO] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(COS.ta.103 9891)	(54) SDSSJ084443.0 3+454831.3	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				15 Secs (15 Secs)		
									[==>]		[1]
	2	(COS.sp.100 5413)	(54) SDSSJ084443.0 3+454831.3	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4000; SEGMENT=A; FP-POS=3			1200 Secs (1268 Secs)		
									[==>1268.0 Secs]		[1]
	3	(COS.sp.100 5413)	(54) SDSSJ084443.0 3+454831.3	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4000; SEGMENT=A; FP-POS=4			1200 Secs (1268 Secs)		
								[==>1268.0 Secs]		[1]	
Orbit Structure	Orbit 1 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home Unused Orbital Visibility = 0  05001000150020002500300035004000450050005500 sec										
	Server Version: 20180409										

Proposal 15075 - Visit 33 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 33, scheduling					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(Visit 33) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(33)	SDSSJ092950.23+085821.4	RA: 09 29 50.2332 (142.4593050d) Dec: +08 58 21.43 (8.97262d) Equinox: J2000	Redshift: 0.633798	V=19.234+/-0.023 GALEX NUV Mag: 19.49	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(33) SDSSJ092950.2 3+085821.4	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs)	
									[==>]	[1]
	2	(COS.sp.100 5413)	(33) SDSSJ092950.2 3+085821.4	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=3			1100 Secs (1110 Secs)	
									[==>1110.0 Secs]	[1]
3	(COS.sp.100 5413)	(33) SDSSJ092950.2 3+085821.4	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=4			1100 Secs (1110 Secs)		
									[==>1110.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 6									

Proposal 15075 - Visit 47 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 47, completed					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(Visit 47) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(47)	SDSSJ130940.41+632557.5	RA: 13 09 40.4150 (197.4183958d) Dec: +63 25 57.53 (63.43265d) Equinox: J2000	Redshift: 0.901186	V=19.148+/-0.021 GALEX NUV Mag: 19.90	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(47) SDSSJ130940.41+632557.5	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs)	
									[==>]	[1]
	2	(COS.sp.100 5413)	(47) SDSSJ130940.41+632557.5	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4000; SEGMENT=A; FP-POS=3			1100 Secs (1243 Secs)	
									[==>1243.0 Secs]	[1]
	3	(COS.sp.100 5413)	(47) SDSSJ130940.41+632557.5	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4000; SEGMENT=A; FP-POS=4			1100 Secs (1243 Secs)	
									[==>1243.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 6 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home 05001000150020002500300035004000450050005500 sec									

Proposal 15075 - Visit 35 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 35, completed					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(Visit 35) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(35)	SDSSJ015327.20-004522.9	RA: 01 53 27.2008 (28.3633367d) Dec: -00 45 22.93 (-.75637d) Equinox: J2000	Redshift: 0.971155	V=19.603+/-0.034 GALEX FUV Mag: 19.58	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(35) SDSSJ015327.2 0-004522.9	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs) [==>]	[1]
	2	(COS.sp.100 5413)	(35) SDSSJ015327.2 0-004522.9	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=3			1100 Secs (1109 Secs) [==>1109.0 Secs]	[1]
	3	(COS.sp.100 5413)	(35) SDSSJ015327.2 0-004522.9	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=4			1100 Secs (1109 Secs) [==>1109.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 5 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Home Occultation 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 sec									

Proposal 15075 - Visit 36 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 36, scheduling					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(Visit 36) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(36)	SDSSJ135711.23+555804.9	RA: 13 57 11.2390 (209.2968292d) Dec: +55 58 4.95 (55.96804d) Equinox: J2000	Redshift: 0.941777	V=18.688+/-0.019 GALEX NUV Mag: 19.32	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(36) SDSSJ135711.2 3+555804.9	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs)	
									[==>]	[1]
	2	(COS.sp.100 5413)	(36) SDSSJ135711.2 3+555804.9	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=3			1100 Secs (1232 Secs)	
									[==>1232.0 Secs]	[1]
3	(COS.sp.100 5413)	(36) SDSSJ135711.2 3+555804.9	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=4			1100 Secs (1232 Secs)		
								[==>1232.0 Secs]	[1]	
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 6 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home 05001000150020002500300035004000450050005500sec									

Proposal 15075 - Visit 37 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 37, completed					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
Special Requirements: (none)										
Diagnostics	(Visit 37) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(37)	SDSSJ124312.52+480838.5	RA: 12 43 12.5244 (190.8021850d) Dec: +48 08 38.51 (48.14403d) Equinox: J2000	Redshift: 0.704194	V=17.482+/-0.012 GALEX NUV Mag: 17.81	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(37) SDSSJ124312.5 2+480838.5	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs)	
									[==>]	[1]
	2	(COS.sp.100 5413)	(37) SDSSJ124312.5 2+480838.5	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=3			1100 Secs (1180 Secs)	
									[==>1180.0 Secs]	[1]
	3	(COS.sp.100 5413)	(37) SDSSJ124312.5 2+480838.5	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=4			1100 Secs (1180 Secs)	
									[==>1180.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 6 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home 05001000150020002500300035004000450050005500 sec									

Proposal 15075 - Visit 38 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 38, completed					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(Visit 38) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(38)	SDSSJ153645.52+015143.2	RA: 15 36 45.5237 (234.1896821d) Dec: +01 51 43.27 (1.86202d) Equinox: J2000	Redshift: 0.732973	V=18.329+/-0.011 GALEX NUV Mag: 19.28	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[QSO] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(38) SDSSJ153645.5 2+015143.2	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs) [==>]	[1]
	2	(COS.sp.100 5413)	(38) SDSSJ153645.5 2+015143.2	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4000; SEGMENT=A; FP-POS=3			1100 Secs (1109 Secs) [==>1109.0 Secs]	[1]
	3	(COS.sp.100 5413)	(38) SDSSJ153645.5 2+015143.2	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4000; SEGMENT=A; FP-POS=4			1100 Secs (1109 Secs) [==>1109.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 5 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Home Occultation 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 sec									

Proposal 15075 - Visit 39 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 39, scheduling					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(Visit 39) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(39)	SDSSJ112558.27+121616.1	RA: 11 25 58.2751 (171.4928129d) Dec: +12 16 16.19 (12.27116d) Equinox: J2000	Redshift: 0.573026	V=18.514+/-0.016 GALEX NUV Mag: 18.89	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(39) SDSSJ112558.2 7+121616.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs) [==>]	[1]
	2	(COS.sp.100 5413)	(39) SDSSJ112558.2 7+121616.1	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=3			1100 Secs (1112 Secs) [==>1112.0 Secs]	[1]
	3	(COS.sp.100 5413)	(39) SDSSJ112558.2 7+121616.1	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=4			1100 Secs (1112 Secs) [==>1112.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 6 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 sec									

Proposal 15075 - Visit 48 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 48, completed									
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: (none)									
Diagnostics	(Visit 48) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(48)	SDSSJ080231.91+381538.4	RA: 08 02 31.9153 (120.6329804d) Dec: +38 15 38.48 (38.26069d) Equinox: J2000	Redshift: 0.642693	V=18.476+/-0.017 GALEX NUV Mag: 19.51	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[QSO] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(48) SDSSJ080231.91+381538.4	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs)	
									[==>]	[1]
	2	(COS.sp.100 5413)	(48) SDSSJ080231.91+381538.4	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4000; SEGMENT=A; FP-POS=3			1100 Secs (1138 Secs)	
									[==>1138.0 Secs]	[1]
	3	(COS.sp.100 5413)	(48) SDSSJ080231.91+381538.4	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4000; SEGMENT=A; FP-POS=4			1100 Secs (1138 Secs)	
									[==>1138.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409									
	GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home Unused Orbital Visibility = 5 05001000150020002500300035004000450050005500 sec									

Proposal 15075 - Visit 41 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 41, completed					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: (none)									
Diagnostics	(Visit 41) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(41)	SDSSJ123154.78+390311.6	RA: 12 31 54.7815 (187.9782563d) Dec: +39 03 11.68 (39.05324d) Equinox: J2000	Redshift: 0.74186	V=19.115+/-0.018 GALEX NUV Mag: 19.82	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(41) SDSSJ123154.78+390311.6	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs) [==>]	[1]
	2	(COS.sp.100 5413)	(41) SDSSJ123154.78+390311.6	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4000; SEGMENT=A; FP-POS=3			1100 Secs (1138 Secs) [==>1138.0 Secs]	[1]
	3	(COS.sp.100 5413)	(41) SDSSJ123154.78+390311.6	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4000; SEGMENT=A; FP-POS=4			1100 Secs (1138 Secs) [==>1138.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 5 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home </									

Proposal 15075 - Visit 42 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 42, completed					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(Visit 42) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(42)	SDSSJ004502.64+004403.3	RA: 00 45 2.6418 (11.2610075d) Dec: +00 44 3.30 (.73425d) Equinox: J2000	Redshift: 0.621097	V=18.963+/-0.021 GALEX NUV Mag: 19.27	Reference Frame: ICRS				
Comments: Category=GALAXY Description=[QSO] Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(42) SDSSJ004502.6 4+004403.3	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs)	
									[==>]	[1]
	2	(COS.sp.100 5413)	(42) SDSSJ004502.6 4+004403.3	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=3			1100 Secs (1109 Secs)	
									[==>1109.0 Secs]	[1]
3	(COS.sp.100 5413)	(42) SDSSJ004502.6 4+004403.3	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=4			1100 Secs (1109 Secs)		
								[==>1109.0 Secs]	[1]	
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 5 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 sec									

Proposal 15075 - Visit 43 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 43, completed					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(Visit 43) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(43)	SDSSJ155729.93+330446.9	RA: 15 57 29.9377 (239.3747404d) Dec: +33 04 46.92 (33.07970d) Equinox: J2000	Redshift: 0.944455	V=18.277+/-0.014 GALEX NUV Mag: 18.59	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(43) SDSSJ155729.9 3+330446.9	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs)	
									[==>]	[1]
	2	(COS.sp.100 5413)	(43) SDSSJ155729.9 3+330446.9	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=3			1100 Secs (1128 Secs)	
									[==>1128.0 Secs]	[1]
3	(COS.sp.100 5413)	(43) SDSSJ155729.9 3+330446.9	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=4			1100 Secs (1128 Secs)		
									[==>1128.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 5 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home 05001000150020002500300035004000450050005500sec									

Proposal 15075 - Visit 44 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 44, completed					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(Visit 44) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(44)	SDSSJ135239.76+240735.9	RA: 13 52 39.7595 (208.1656646d) Dec: +24 07 35.90 (24.12664d) Equinox: J2000	Redshift: 0.63389	V=18.877+/-0.024 GALEX NUV Mag: 18.98	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(44) SDSSJ135239.76+240735.9	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs)	
									[==>]	[1]
	2	(COS.sp.100 5413)	(44) SDSSJ135239.76+240735.9	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4000; SEGMENT=A; FP-POS=3			1100 Secs (1116 Secs)	
									[==>1116.0 Secs]	[1]
3	(COS.sp.100 5413)	(44) SDSSJ135239.76+240735.9	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=4000; SEGMENT=A; FP-POS=4			1100 Secs (1116 Secs)		
								[==>1116.0 Secs]	[1]	
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 6 GS Acq Exp. 1 Pointing Maneuver Exp. 2 Exp. 3 Occultation Home 0 500 1000 1500 2000 2500 3000 3500 4000 4500 5000 5500 sec									

Proposal 15075 - Visit 45 - The CGM of Massive Galaxies: Where Cold Gas Goes to Die?

Visit	Proposal 15075, Visit 45, completed					Mon Aug 06 18:00:49 GMT 2018				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
Diagnostics	(Visit 45) 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.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(45)	SDSSJ153919.13+434051.5	RA: 15 39 19.1382 (234.8297425d) Dec: +43 40 51.57 (43.68099d) Equinox: J2000	Redshift: 0.623793	V=18.585+/-0.015 GALEX NUV Mag: 19.22	Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[QSO] Extended=NO									
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.100 5407)	(45) SDSSJ153919.1 3+434051.5	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				100 Secs (100 Secs)	
									[==>]	[1]
	2	(COS.sp.100 5413)	(45) SDSSJ153919.1 3+434051.5	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=3			1100 Secs (1157 Secs)	
									[==>1157.0 Secs]	[1]
3	(COS.sp.100 5413)	(45) SDSSJ153919.1 3+434051.5	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=40 00; SEGMENT=A; FP-POS=4			1100 Secs (1157 Secs)		
									[==>1157.0 Secs]	[1]
Orbit Structure	Orbit 1 Server Version: 20180409 Unused Orbital Visibility = 5									