



15195 - The Baryon Reservoirs in Ultra Diffuse Galaxies (UDGs)

Cycle: 25, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
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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) SDSSJ114436.12-005151.5	COS/FUV COS/NUV	4	26-Feb-2018 19:00:32.0	yes
02	(1) SDSSJ114436.12-005151.5	COS/FUV COS/NUV	4	26-Feb-2018 19:00:35.0	yes
03	(2) SDSSJ125820.47+281357.2	COS/FUV COS/NUV	3	26-Feb-2018 19:00:37.0	yes
04	(2) SDSSJ125820.47+281357.2	COS/FUV COS/NUV	3	26-Feb-2018 19:00:38.0	yes
07	(2) SDSSJ125820.47+281357.2	COS/FUV COS/NUV	4	26-Feb-2018 19:00:39.0	yes
05	(3) FCSSJ034235.6-355856	COS/FUV COS/NUV	3	26-Feb-2018 19:00:41.0	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>
06	(3) FCSSJ034235.6-355856	COS/FUV COS/NUV	2	26-Feb-2018 19:00:42.0	yes

23 Total Orbits Used

ABSTRACT

Ultra Diffuse Galaxies (UDGs) are galaxies with large effective radii but very low surface brightness. They were recently discovered in unprecedented numbers in the Coma Cluster, and are now being found in other clusters, as well as in the field. Their origin remains far from clear. In this proposal, we request time to observe three QSOs that lie behind three UDGs, using the COS G130M grating, in order to search for absorption lines from the interstellar and circumgalactic medium of the UDGs. Because the properties of UDGs are likely tied to their locations, the UDGs have been selected to reside in three different environments --- in Coma, in the Fornax Cluster, and in the field. The QSO sightlines probe the inner regions of the galaxies at radii of 1, 7 and 11 kpc, which should be small enough to detect high column densities of neutral hydrogen, N(H I), akin to gas clouds that give rise to Damped Lyman-alpha or Lyman Limit QSO absorption line systems (QSOALSs). This is particularly likely towards the gas-rich field UDG SECCO-dI-2 from which 21cm emission has recently been detected. This high N(H I) absorption, along with the corresponding metal absorption lines, will enable us to measure the ionization conditions of the ISM and CGM, its velocity structure, and especially its metallicity, which can be used to help constrain the chemical evolution of the galaxies and shed light on their origin. This will be the first study of absorption lines from this type of galaxies, and will demonstrate whether or not UDGs contribute significantly to the population of QSOALSs in the universe.

OBSERVING DESCRIPTION

The most important absorption lines from the intervening galaxies are Lyman-alpha and SiIII 1206. As the absorbing galaxies are at low redshift, these lines remain near geocoronal Lyman-alpha. We therefore need to use the remaining G130M-1291 grating settings. We also utilize the 2 remaining FP-POS positions to mitigate the effects of large-scale defects. There will now be a gap left between 1274-1294A which can no longer be filled using a different grating setting, but few absorption lines from the intervening galaxies are expected at these wavelengths.

Target ACQs: exposure times set by assuming half the cataloged FUV GALEX flux (to account for variability), and assuming a flat spectrum.

Proposal 15195 - UDG1 - VISIT 1 (01) - The Baryon Reservoirs in Ultra Diffuse Galaxies (UDGs)

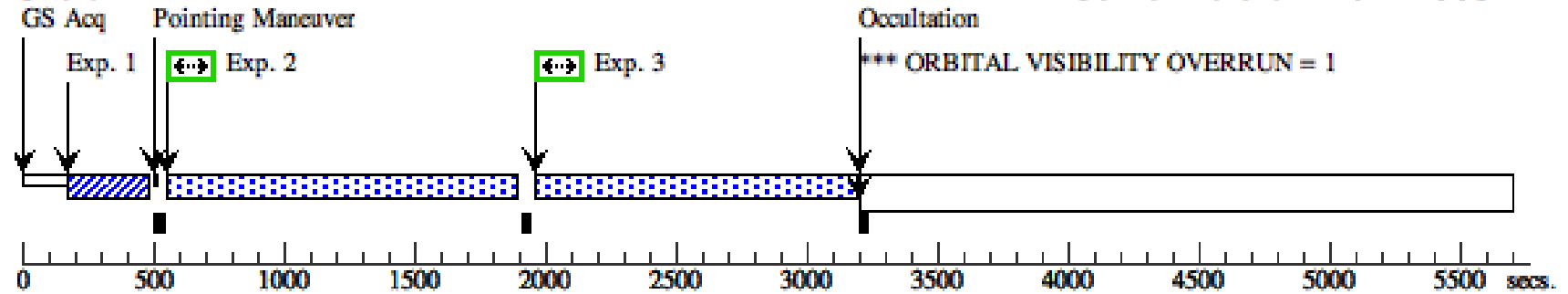
Visit	Proposal 15195, UDG1 - VISIT 1 (01), implementation Tue Feb 27 00:00:43 GMT 2018				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: First visit of 2, 4 orbits of 8</i>				
Diagnostics	(UDG1 - VISIT 1 (01)) Warning (Form): For the best 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. (UDG1 - VISIT 1 (01)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE. (UDG1 - VISIT 1 (01)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS (UDG1 - VISIT 1 (01)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS (UDG1 - VISIT 1 (01)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS (UDG1 - VISIT 1 (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(1)	SDSSJ114436.12-005151.5	RA: 11 44 36.1220 (176.1505083d) Dec: -00 51 51.00 (-.86417d) Equinox: J2000		V=19.9+/-0.1 GALEX FUV = 26 micro-Jy
Fixed Targets	<i>Comments:</i> Category=GALAXY Description=[QSO] Extended=NO				

Proposal 15195 - UDG1 - VISIT 1 (01) - The Baryon Reservoirs in Ultra Diffuse Galaxies (UDGs)

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (ta.1004516)	(1) SDSSJ114436.12 -005151.5	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				48 Secs (48 Secs) [==>]	[1]
	Comments: ACQ for SNR=40									
	2	V1 - Orb 1 - FP-POS 3 (COS.sp.101 4406)	(1) SDSSJ114436.12 -005151.5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=54 74			1200.0 Secs (1174 Secs) [==>1174.0 Secs]	[1]
	3	V1 - Orb 1 - FP-POS 4 (COS.sp.101 4406)	(1) SDSSJ114436.12 -005151.5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=54 74			1200 Secs (1174 Secs) [==>1174.0 Secs]	[1]
	4	V1 - Orb 2 - FP-POS 3 (COS.sp.101 4406)	(1) SDSSJ114436.12 -005151.5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=54 74			1200.0 Secs (1396 Secs) [==>1396.0 Secs]	[2]
	5	V1 - Orb 2 - FP-POS 4 (COS.sp.101 4406)	(1) SDSSJ114436.12 -005151.5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=54 74			1200 Secs (1396 Secs) [==>1396.0 Secs]	[2]
	6	V1 - Orb 3 - FP-POS 3 (COS.sp.101 4406)	(1) SDSSJ114436.12 -005151.5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=54 74			1200.0 Secs (1396 Secs) [==>1396.0 Secs]	[3]
	7	V1 - Orb 3 - FP-POS 4 (COS.sp.101 4406)	(1) SDSSJ114436.12 -005151.5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=54 74			1200.0 Secs (1396 Secs) [==>1396.0 Secs]	[3]
	8	V1 - Orb 4 - FP-POS 3 (COS.sp.101 4406)	(1) SDSSJ114436.12 -005151.5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=54 74			1200.0 Secs (1396 Secs) [==>1396.0 Secs]	[4]
	9	V1 - Orb 4 - FP-POS 4 (COS.sp.101 4406)	(1) SDSSJ114436.12 -005151.5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=54 74			1200.0 Secs (1396 Secs) [==>1396.0 Secs]	[4]

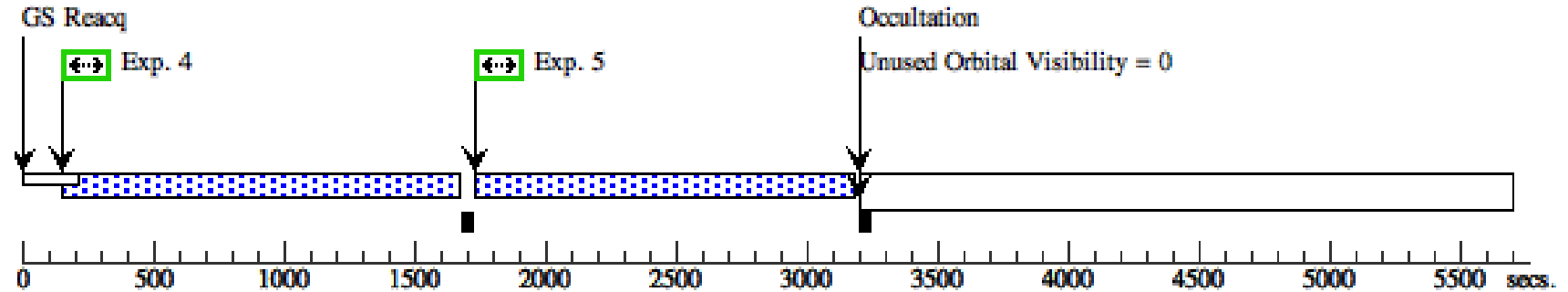
Orbit 1

Server Version: 20171009



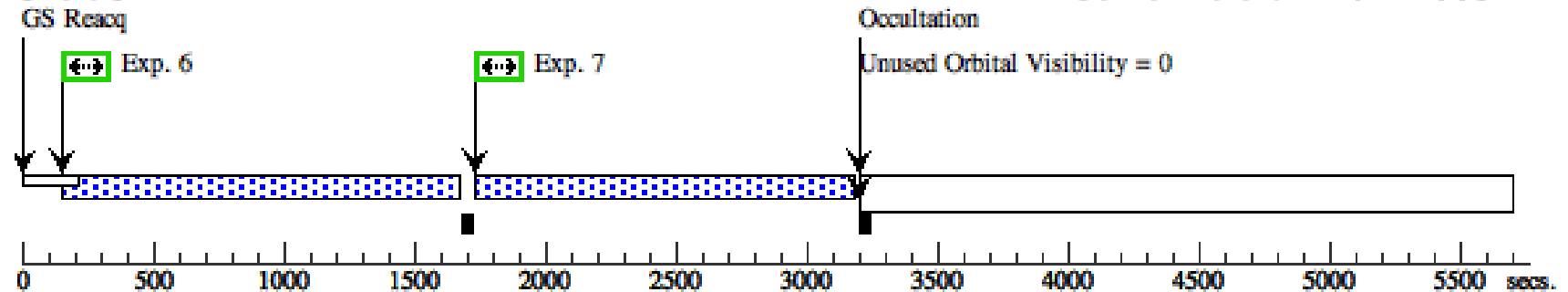
Orbit 2

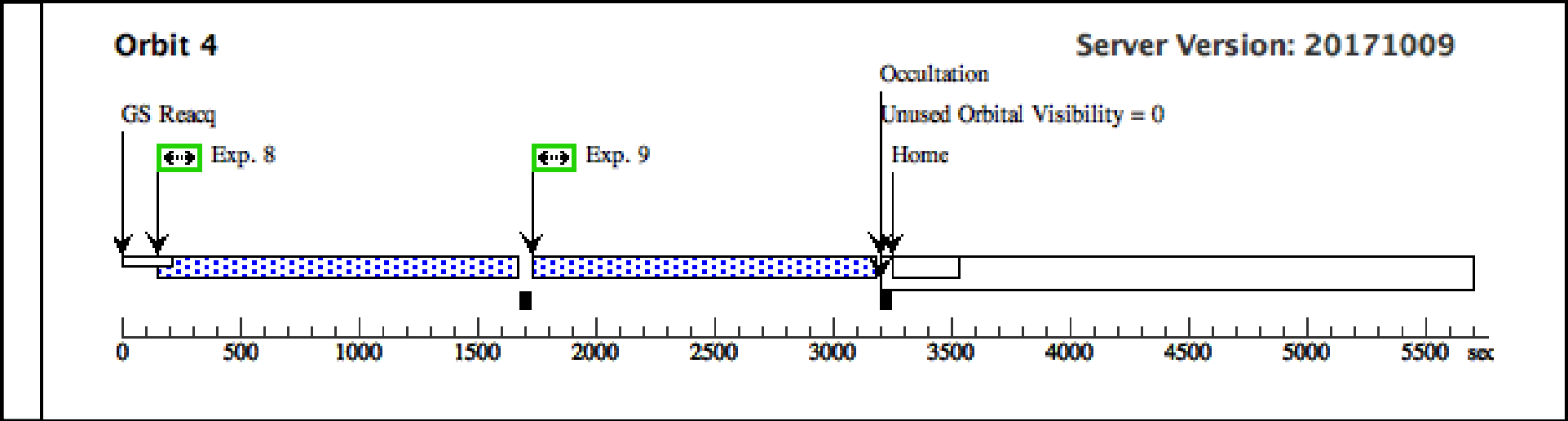
Server Version: 20171009



Orbit 3

Server Version: 20171009





Proposal 15195 - UDG1 - VISIT 2 (02) - The Baryon Reservoirs in Ultra Diffuse Galaxies (UDGs)

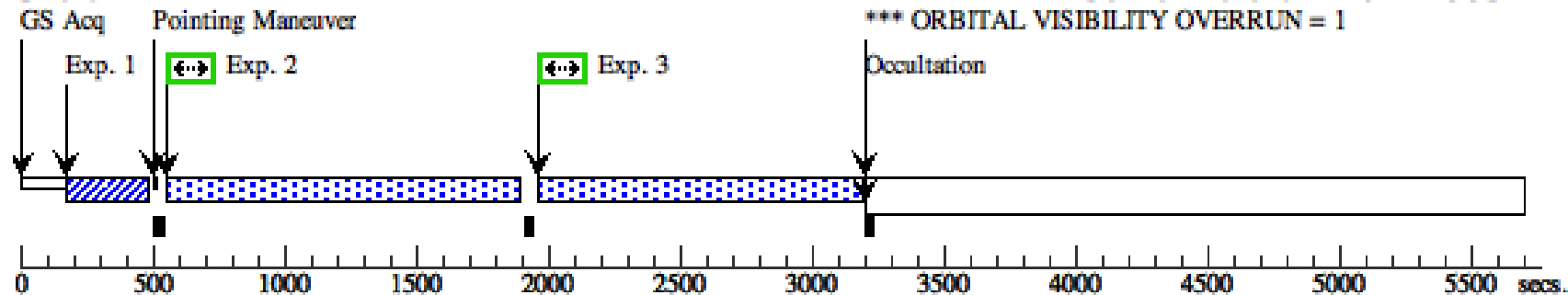
Visit	Proposal 15195, UDG1 - VISIT 2 (02), implementation Tue Feb 27 00:00:44 GMT 2018				
	Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: Second visit of 2, 4 orbits of 8</i>				
Diagnostics	(UDG1 - VISIT 2 (02)) Warning (Form): For the 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. (UDG1 - VISIT 2 (02)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE. (UDG1 - VISIT 2 (02)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS (UDG1 - VISIT 2 (02)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS (UDG1 - VISIT 2 (02)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS (UDG1 - VISIT 2 (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(1)	SDSSJ114436.12-005151.5	RA: 11 44 36.1220 (176.1505083d) Dec: -00 51 51.00 (-.86417d) Equinox: J2000		V=19.9+/-0.1 GALEX FUV = 26 micro-Jy
Fixed Targets	<i>Comments:</i> Category=GALAXY Description=[QSO] Extended=NO				
Fixed Targets	Reference Frame: ICRS				

Proposal 15195 - UDG1 - VISIT 2 (02) - The Baryon Reservoirs in Ultra Diffuse Galaxies (UDGs)

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	ACQ (ta.1004516)	(1) SDSSJ114436.12 -005151.5	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				48 Secs (48 Secs) [==>]	[1]
	Comments: ACQ for SNR = 40									
	2	V2 - Orb 1 - FP-POS 3 (COS.sp.101 4406)	(1) SDSSJ114436.12 -005151.5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=54 74			1200.0 Secs (1174 Secs) [==>1174.0 Secs]	[1]
	3	V2 - Orb 1 - FP-POS 4 (COS.sp.101 4406)	(1) SDSSJ114436.12 -005151.5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=54 74			1200 Secs (1174 Secs) [==>1174.0 Secs]	[1]
	4	V2 - Orb 2 - FP-POS 3 (COS.sp.101 4406)	(1) SDSSJ114436.12 -005151.5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=54 74			1200.0 Secs (1396 Secs) [==>1396.0 Secs]	[2]
	5	V2 - Orb 2 - FP-POS 4 (COS.sp.101 4406)	(1) SDSSJ114436.12 -005151.5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=54 74			1200 Secs (1396 Secs) [==>1396.0 Secs]	[2]
	6	V2 - Orb 3 - FP-POS 3 (COS.sp.101 4406)	(1) SDSSJ114436.12 -005151.5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=54 74			1200.0 Secs (1396 Secs) [==>1396.0 Secs]	[3]
	7	V2 - Orb 3 - FP-POS 4 (COS.sp.101 4406)	(1) SDSSJ114436.12 -005151.5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=54 74			1200.0 Secs (1396 Secs) [==>1396.0 Secs]	[3]
	8	V2 - Orb 4 - FP-POS 3 (COS.sp.101 4406)	(1) SDSSJ114436.12 -005151.5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=54 74			1200.0 Secs (1396 Secs) [==>1396.0 Secs]	[4]
	9	V2 - Orb 4 - FP-POS 4 (COS.sp.101 4406)	(1) SDSSJ114436.12 -005151.5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=54 74			1200.0 Secs (1396 Secs) [==>1396.0 Secs]	[4]

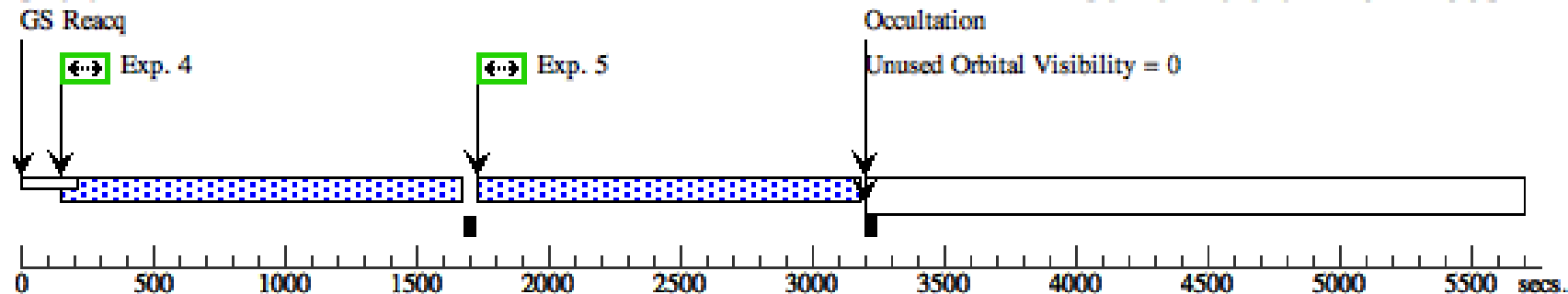
Orbit 1

Server Version: 20171009



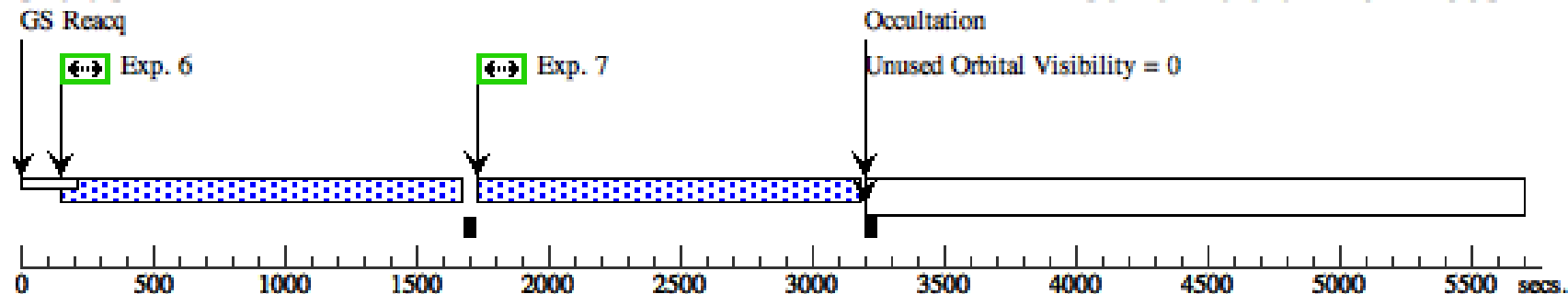
Orbit 2

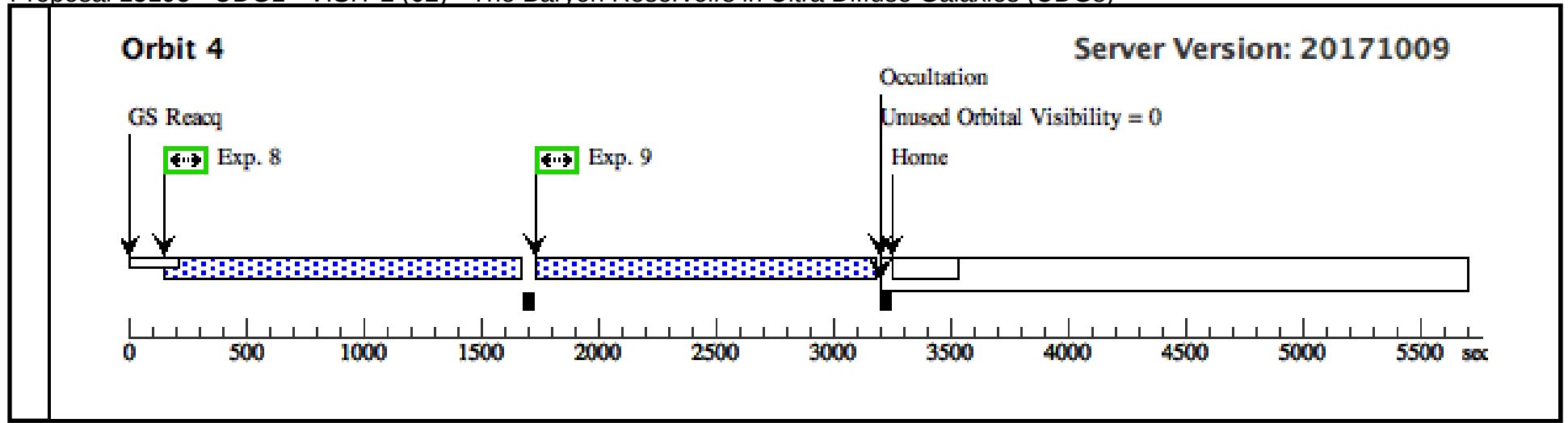
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Orbit 3

Server Version: 20171009



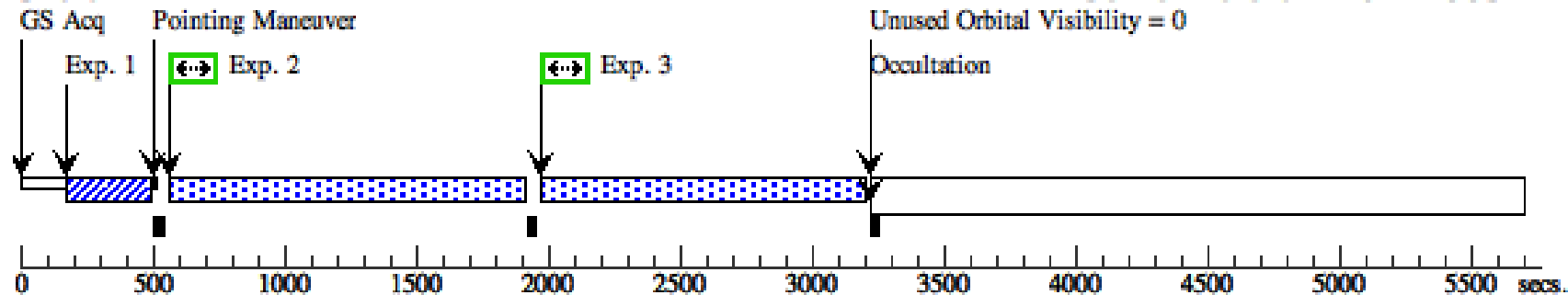


Proposal 15195 - UDG2 - VISIT 1 (03) - The Baryon Reservoirs in Ultra Diffuse Galaxies (UDGs)

Visit	Proposal 15195, UDG2 - VISIT 1 (03), implementation										Tue Feb 27 00:00:44 GMT 2018	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: (none)											
Comments: First visit of 3, 3 orbits of 10												
Diagnostics	(UDG2 - VISIT 1 (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.											
	(UDG2 - VISIT 1 (03)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.											
	(UDG2 - VISIT 1 (03)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS											
	(UDG2 - VISIT 1 (03)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(2)	SDSSJ125820.47+281357.2	RA: 12 58 20.5370 (194.5855708d) Dec: +28 13 57.50 (28.23264d) Equinox: J2000				V=18.9+/-0.1 GALEX FUV = 25 micro-Jy		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[QUASAR] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	ACQ (1004515)	(2) SDSSJ125820.47 +281357.2	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				52 Secs (52 Secs)			
									[==>]		[1]	
	Comments: ACQ for SNR = 40											
	2	V1 - Orb 1 - FP-POS 3 (COS.sp.101 4401)	(2) SDSSJ125820.47 +281357.2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=54 95			1200.0 Secs (1181 Secs)			
									[==>1181.0 Secs]		[1]	
	3	V1 - Orb 1 - FP-POS 4 (COS.sp.101 4401)	(2) SDSSJ125820.47 +281357.2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=54 95			1200 Secs (1181 Secs)			
									[==>1181.0 Secs]		[1]	
	4	V1 - Orb 2 - FP-POS 3 (COS.sp.101 4401)	(2) SDSSJ125820.47 +281357.2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=54 95			1200.0 Secs (1407 Secs)			
									[==>1407.0 Secs]		[2]	
	5	V1 - Orb 2 - FP-POS 4 (COS.sp.101 4401)	(2) SDSSJ125820.47 +281357.2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=54 95			1200 Secs (1407 Secs)			
									[==>1407.0 Secs]		[2]	
	6	V1 - Orb 3 - FP-POS 3 (COS.sp.101 4401)	(2) SDSSJ125820.47 +281357.2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=54 95			1200.0 Secs (1407 Secs)			
								[==>1407.0 Secs]		[3]		
7	V1 - Orb 3 - FP-POS 4 (COS.sp.101 4401)	(2) SDSSJ125820.47 +281357.2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=54 95			1200.0 Secs (1407 Secs)				
								[==>1407.0 Secs]		[3]		

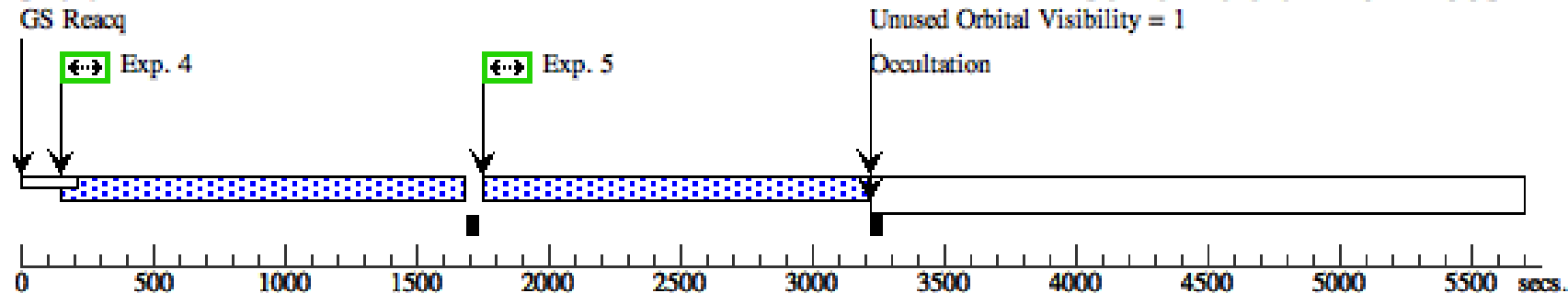
Orbit 1

Server Version: 20171009



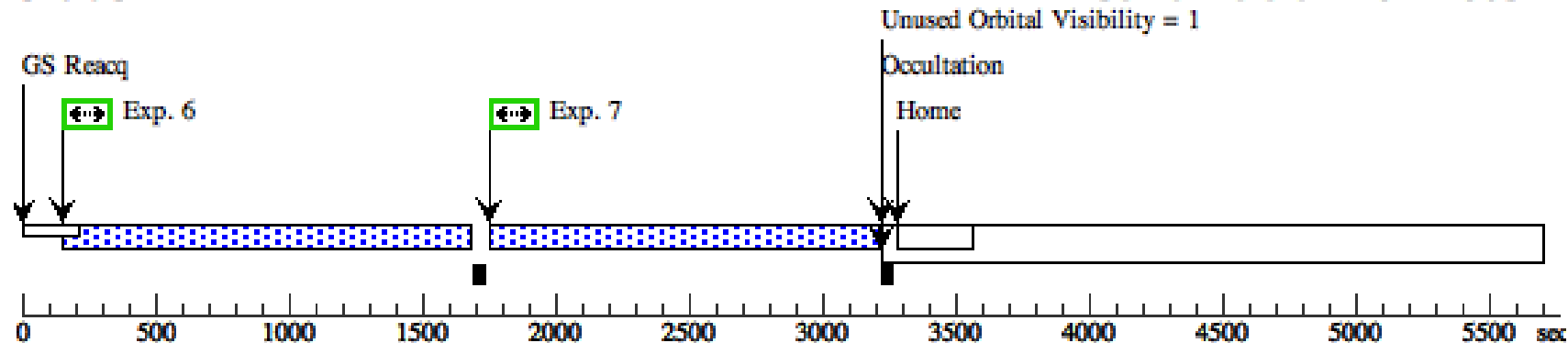
Orbit 2

Server Version: 20171009



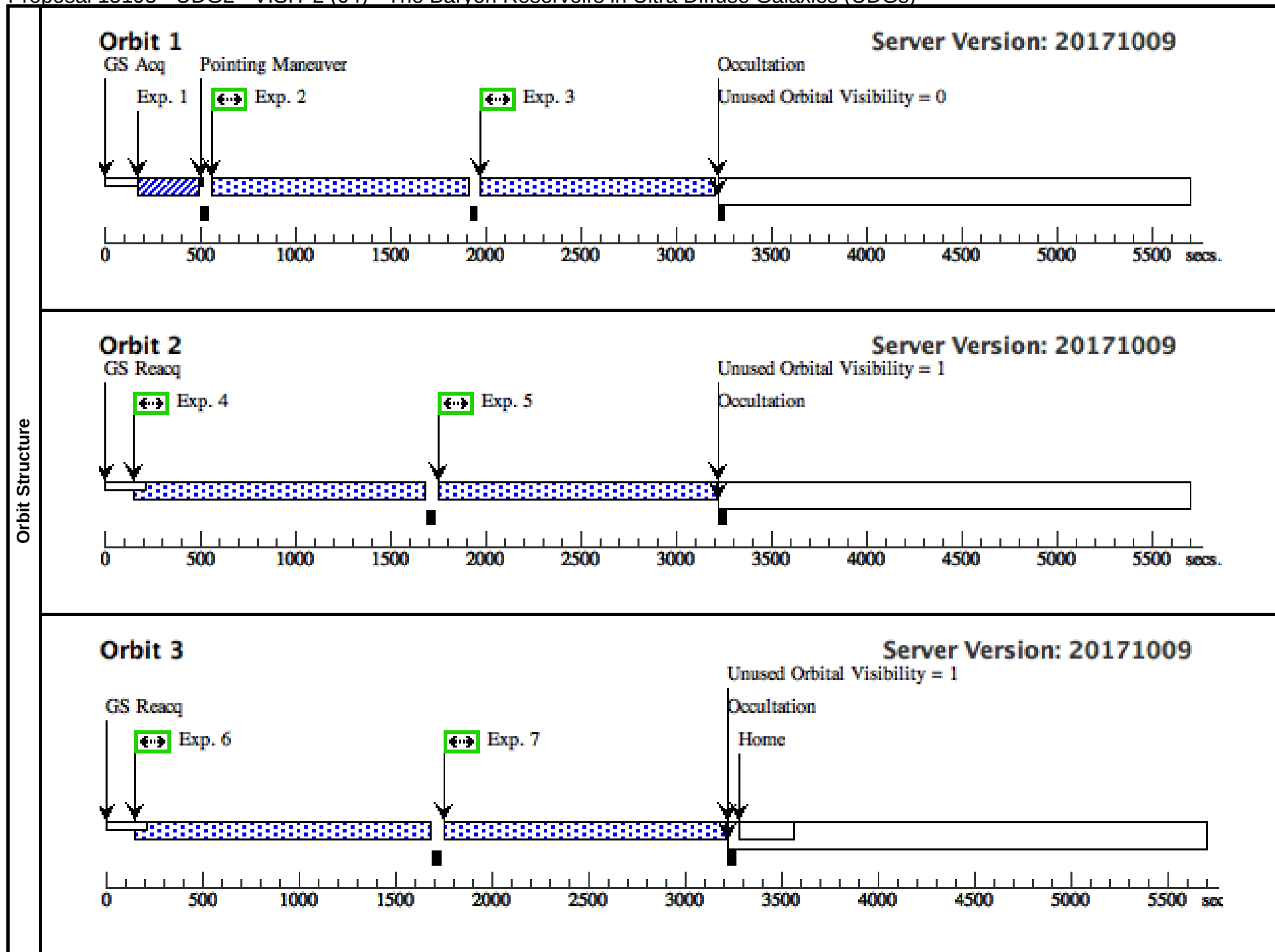
Orbit 3

Server Version: 20171009



Proposal 15195 - UDG2 - VISIT 2 (04) - The Baryon Reservoirs in Ultra Diffuse Galaxies (UDGs)

Visit	Proposal 15195, UDG2 - VISIT 2 (04), implementation										Tue Feb 27 00:00:44 GMT 2018	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: (none)											
Comments: Second visit of 3, 3 orbits of 10												
Diagnostics	(UDG2 - VISIT 2 (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.											
	(UDG2 - VISIT 2 (04)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.											
	(UDG2 - VISIT 2 (04)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS											
	(UDG2 - VISIT 2 (04)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(2)	SDSSJ125820.47+281357.2	RA: 12 58 20.5370 (194.5855708d) Dec: +28 13 57.50 (28.23264d) Equinox: J2000				V=18.9+/-0.1 GALEX FUV = 25 micro-Jy		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[QUASAR] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	ACQ (1004515)	(2) SDSSJ125820.47 +281357.2	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				52 Secs (52 Secs)			
									[==>]		[1]	
	Comments: ACQ for SNR = 40											
	2	V2 - Orb 1 - FP-POS 3 (COS.sp.101 4401)	(2) SDSSJ125820.47 +281357.2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=54 95			1200.0 Secs (1181 Secs)			
									[==>1181.0 Secs]		[1]	
	3	V2 - Orb 1 - FP-POS 4 (COS.sp.101 4401)	(2) SDSSJ125820.47 +281357.2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=54 95			1200 Secs (1181 Secs)			
									[==>1181.0 Secs]		[1]	
	4	V2 - Orb 2 - FP-POS 3 (COS.sp.101 4401)	(2) SDSSJ125820.47 +281357.2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=54 95			1200.0 Secs (1407 Secs)			
									[==>1407.0 Secs]		[2]	
	5	V2 - Orb 2 - FP-POS 4 (COS.sp.101 4401)	(2) SDSSJ125820.47 +281357.2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=54 95			1200 Secs (1407 Secs)			
									[==>1407.0 Secs]		[2]	
	6	V2 - Orb 3 - FP-POS 3 (COS.sp.101 4401)	(2) SDSSJ125820.47 +281357.2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=54 95			1200.0 Secs (1407 Secs)			
								[==>1407.0 Secs]		[3]		
7	V2 - Orb 3 - FP-POS 4 (COS.sp.101 4401)	(2) SDSSJ125820.47 +281357.2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=54 95			1200.0 Secs (1407 Secs)				
								[==>1407.0 Secs]		[3]		

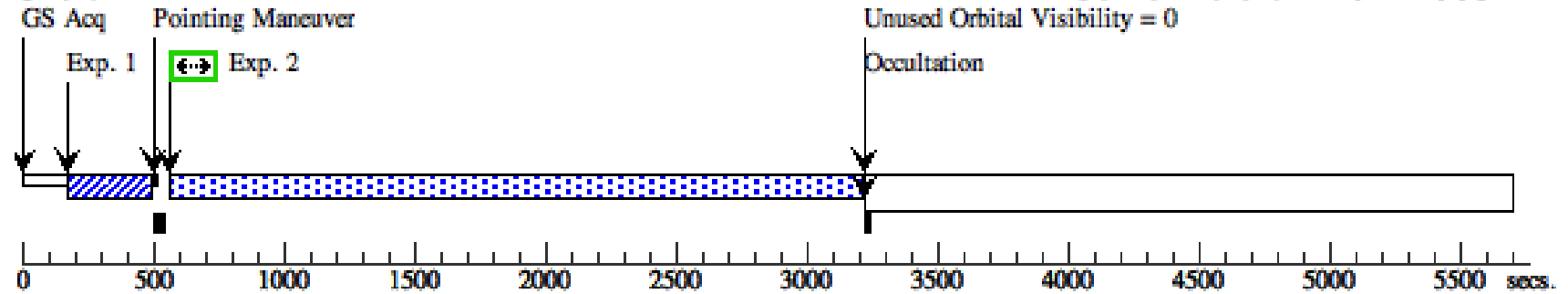


Proposal 15195 - UDG2 - VISIT 3 [G160M] (07) - The Baryon Reservoirs in Ultra Diffuse Galaxies (UDGs)

Visit	Proposal 15195, UDG2 - VISIT 3 [G160M] (07), implementation										Tue Feb 27 00:00:44 GMT 2018	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: (none)											
Comments: Third visit of 3, 4 orbits of 10, with G160M to cover Si4 and C4												
Diagnostics	(UDG2 - VISIT 3 [G160M] (07)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.											
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(2)	SDSSJ125820.47+281357.2	RA: 12 58 20.5370 (194.5855708d) Dec: +28 13 57.50 (28.23264d) Equinox: J2000				V=18.9+/-0.1 GALEX FUV = 25 micro-Jy		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[QUASAR] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	ACQ (1004515)	(2) SDSSJ125820.47 +281357.2	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				52 Secs (52 Secs)			
									[==>]		[1]	
	Comments: ACQ for SNR = 40											
	2	V2 - Orb 1 - FP-POS 1 (COS.sp.101 4400)	(2) SDSSJ125820.47 +281357.2	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=1; SEGMENT=BOTH; BUFFER-TIME=2.4365e4			2436 Secs (2436 Secs)			
									[==>]		[1]	
	3	V2 - Orb 2 - FP-POS 2 (COS.sp.101 4400)	(2) SDSSJ125820.47 +281357.2	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=2; SEGMENT=BOTH; BUFFER-TIME=2.4365e4			2939 Secs (2939 Secs)			
									[==>]		[2]	
	4	V2 - Orb 3 - FP-POS 3 (COS.sp.101 4400)	(2) SDSSJ125820.47 +281357.2	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=2.4365e4			2939 Secs (2939 Secs)			
									[==>]		[3]	
	5	V2 - Orb 4 - FP-POS 4 (COS.sp.101 4400)	(2) SDSSJ125820.47 +281357.2	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=2.4365e4			2939 Secs (2939 Secs)			
									[==>]		[4]	

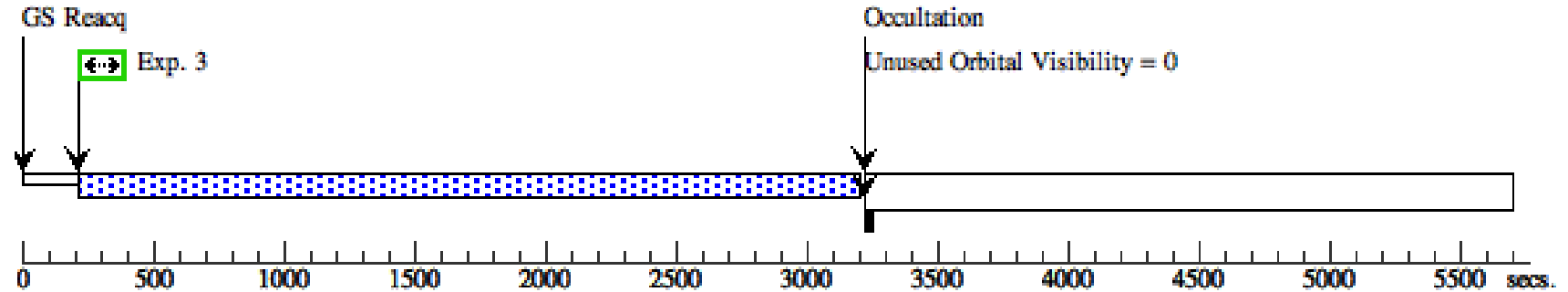
Orbit 1

Server Version: 20171009



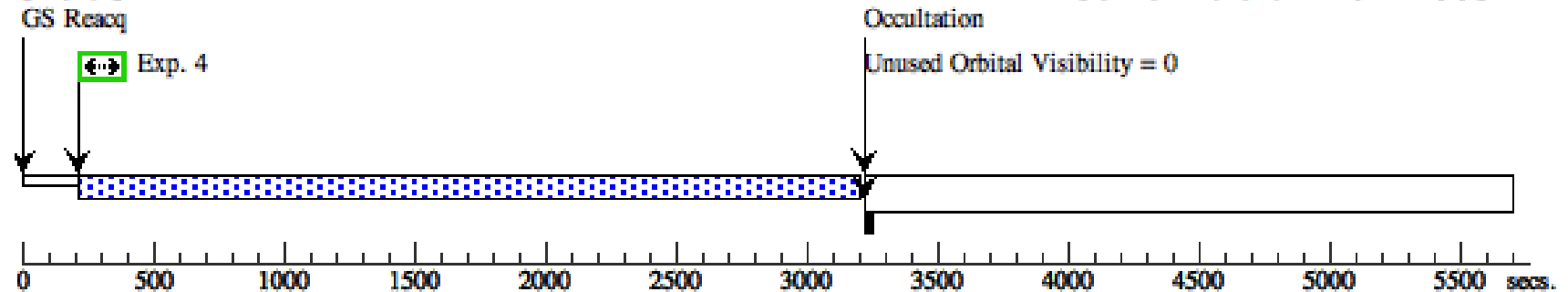
Orbit 2

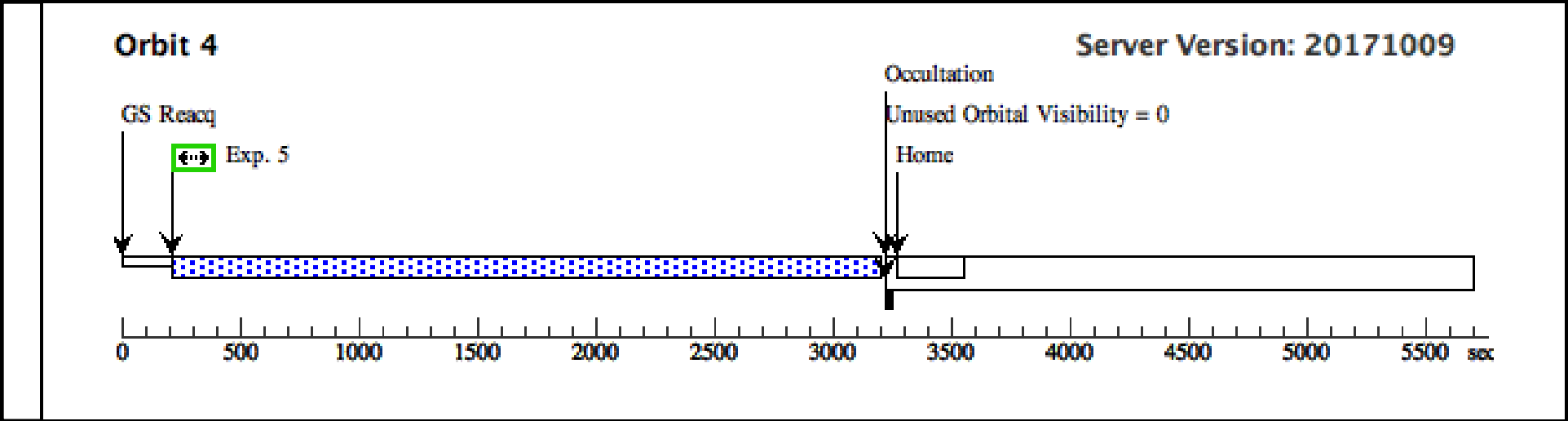
Server Version: 20171009



Orbit 3

Server Version: 20171009



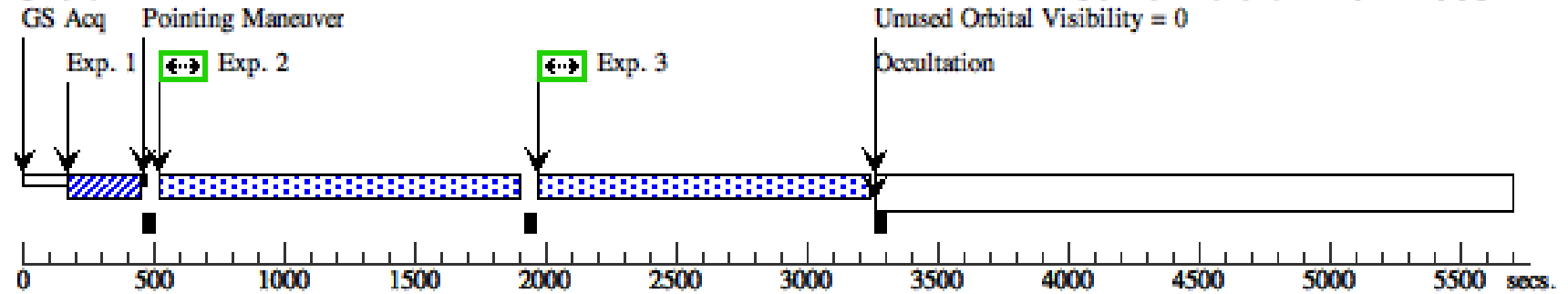


Proposal 15195 - UDG3 - VISIT 1 (05) - The Baryon Reservoirs in Ultra Diffuse Galaxies (UDGs)

Visit	Proposal 15195, UDG3 - VISIT 1 (05), implementation										Tue Feb 27 00:00:44 GMT 2018
	Diagnostic Status: Warning										
	Scientific Instruments: COS/FUV, COS/NUV										
	Special Requirements: (none)										
Comments: First visit of 2, 3 orbits of 5											
Diagnostics	(UDG3 - VISIT 1 (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.										
	(UDG3 - VISIT 1 (05)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.										
	(UDG3 - VISIT 1 (05)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS										
	(UDG3 - VISIT 1 (05)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections			Fluxes		Miscellaneous		
	(3)	FCSSJ034235.6-355856	RA: 03 42 35.6020 (55.6483417d) Dec: -35 58 55.60 (-35.98211d) Equinox: J2000				V=18.9+/-0.1 GALEX FUV = 56 micro-Jy		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	ACQ (1004612)	(3) FCSSJ034235.6-355856	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs)		
									[==>]		[1]
	Comments: SNR = 47 for 30 sec										
	2	V1 - Orb 1 - FP-POS 3 (COS.sp.101 4407)	(3) FCSSJ034235.6-355856	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=51 77			1200.0 Secs (1216 Secs)		
									[==>1216.0 Secs]		[1]
	3	V1 - Orb 1 - FP-POS 4 (COS.sp.101 4407)	(3) FCSSJ034235.6-355856	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=51 77			1200 Secs (1216 Secs)		
									[==>1216.0 Secs]		[1]
	4	V1 - Orb 2 - FP-POS 3 (COS.sp.101 4407)	(3) FCSSJ034235.6-355856	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=51 77			1200.0 Secs (1425 Secs)		
									[==>1425.0 Secs]		[2]
	5	V1 - Orb 2 - FP-POS 4 (COS.sp.101 4407)	(3) FCSSJ034235.6-355856	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=51 77			1200 Secs (1425 Secs)		
									[==>1425.0 Secs]		[2]
	6	V1 - Orb 3 - FP-POS 3 (COS.sp.101 4407)	(3) FCSSJ034235.6-355856	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=51 77			1200.0 Secs (1425 Secs)		
								[==>1425.0 Secs]		[3]	
7	V1 - Orb 3 - FP-POS 4 (COS.sp.101 4407)	(3) FCSSJ034235.6-355856	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=51 77			1200.0 Secs (1425 Secs)			
								[==>1425.0 Secs]		[3]	

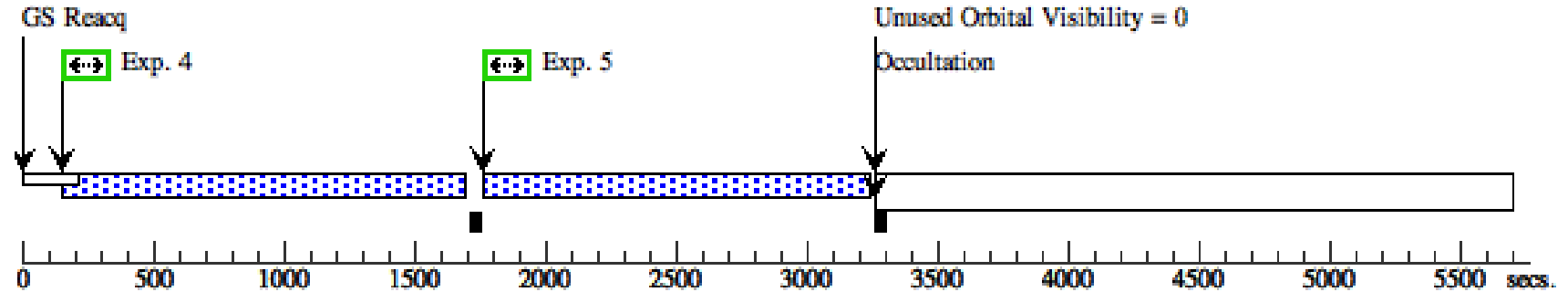
Orbit 1

Server Version: 20171009



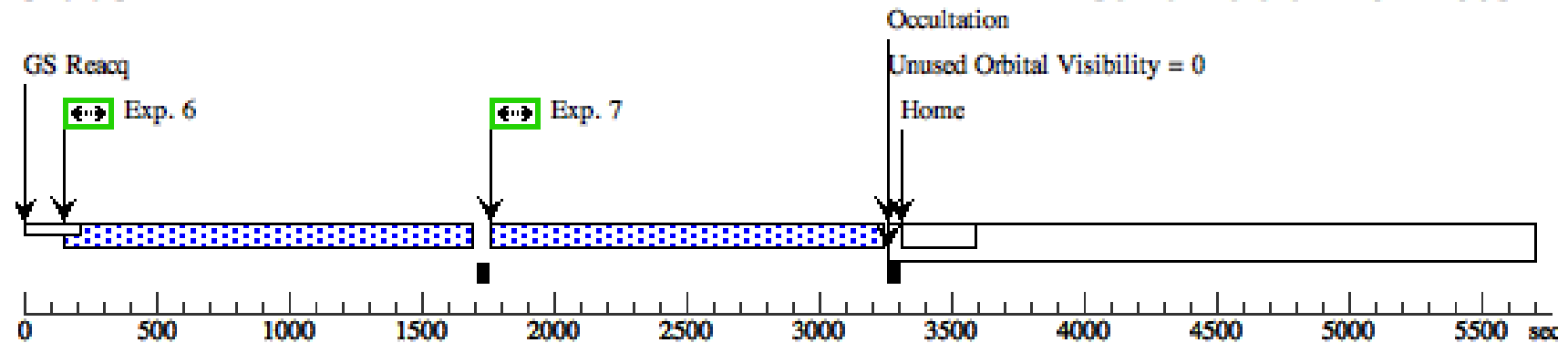
Orbit 2

Server Version: 20171009



Orbit 3

Server Version: 20171009



Proposal 15195 - UDG3 - VISIT 2 (06) - The Baryon Reservoirs in Ultra Diffuse Galaxies (UDGs)

Visit	Proposal 15195, UDG3 - VISIT 2 (06), implementation									Tue Feb 27 00:00:44 GMT 2018
	Diagnostic Status: Warning									
	Scientific Instruments: COS/FUV, COS/NUV									
	Special Requirements: (none)									
Comments: Second visit of 2, 2 orbits of 5										
Diagnostics	(UDG3 - VISIT 2 (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.									
	(UDG3 - VISIT 2 (06)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.									
	(UDG3 - VISIT 2 (06)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(3)	FCSSJ034235.6-355856	RA: 03 42 35.6020 (55.6483417d) Dec: -35 58 55.60 (-35.98211d) Equinox: J2000			V=18.9+/-0.1 GALEX FUV = 56 micro-Jy		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	ACQ (1004612)	(3) FCSSJ034235.6-355856	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				30 Secs (30 Secs)	
									[==>]	[1]
	Comments: SNR = 47 for 30 sec									
	2	V2 - Orb 1 - FP-POS 3 (COS.sp.101 4407)	(3) FCSSJ034235.6-355856	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=51 77			1200.0 Secs (1216 Secs)	
									[==>1216.0 Secs]	[1]
	3	V2 - Orb 1 - FP-POS 4 (COS.sp.101 4407)	(3) FCSSJ034235.6-355856	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=51 77			1200 Secs (1216 Secs)	
									[==>1216.0 Secs]	[1]
	4	V2 - Orb 2 - FP-POS 3 (COS.sp.101 4407)	(3) FCSSJ034235.6-355856	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; SEGMENT=BOTH; BUFFER-TIME=51 77			1200.0 Secs (1425 Secs)	
									[==>1425.0 Secs]	[2]
	5	V2 - Orb 2 - FP-POS 4 (COS.sp.101 4407)	(3) FCSSJ034235.6-355856	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; SEGMENT=BOTH; BUFFER-TIME=51 77			1200 Secs (1425 Secs)	
									[==>1425.0 Secs]	[2]

