



14754 - Confronting the 3D Orientation of Galactic Disks in Space: Disk Structure vs. Circumgalactic Gas Flows

Cycle: 24, Proposal Category: GO

(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) J081708+091750	WFC3/UVIS	1	20-Mar-2017 21:18:06.0	yes
02	(2) J091557+292626	WFC3/UVIS	1	20-Mar-2017 21:18:07.0	yes
03	(3) J102907+421737	WFC3/UVIS	1	20-Mar-2017 21:18:08.0	yes
04	(4) J123249+433244	WFC3/UVIS	1	20-Mar-2017 21:18:09.0	yes
05	(5) J124601+173152	WFC3/UVIS	1	20-Mar-2017 21:18:10.0	yes
06	(6) J133541+285324	WFC3/UVIS	1	20-Mar-2017 21:18:11.0	yes
07	(7) J142459+382113	WFC3/UVIS	1	20-Mar-2017 21:18:12.0	yes
08	(8) J143603+375138	WFC3/UVIS	1	20-Mar-2017 21:18:12.0	yes
09	(9) J154956+070056	WFC3/UVIS	1	20-Mar-2017 21:18:13.0	yes
10	(10) J165930+373527	WFC3/UVIS	1	20-Mar-2017 21:18:14.0	yes
18	(8) J143603+375138	WFC3/UVIS	1	20-Mar-2017 21:18:15.0	yes

11 Total Orbits Used

ABSTRACT

Can the origins of circumgalactic gas flows be recognized by their location relative to galactic disks? Several studies of disk galaxies paired with background quasars (or galaxies) at small angular separation suggest that the physical origin of halo absorption at low impact parameters (< 80 kpc) depends on azimuthal angle, i.e., the angular separation of the sightline from the major axis of the disk. We will use the spiral structure revealed by high-resolution, HST imaging to test the following paradigm: absorption near the galaxy major and minor axes arises, respectively, from gas accretion near the disk plane and winds blown perpendicular to the disk plane. Adopting this framework, we described the kinematics of circumgalactic Mg II absorption and established the required 3D orientation of ten galactic disks. These results, combined with rotation curves, predict the direction in which the spiral pattern in the disk wraps. We propose to resolve the spiral structure in HST images and thereby test the basic assumptions used by many researchers to interpret circumgalactic sightlines. The resulting knowledge will add interpretive value to the growing collection of archived, quasar spectra, which will hopefully elucidate how galaxies get their gas and enrich the surrounding medium with heavy elements.

OBSERVING DESCRIPTION

We aim to resolve spiral structure in ten galactic disks at intermediate redshifts. Imaging in two filters provides a large wavelength baseline and thereby optimizes contrast between the underlying stellar disk (old stellar population) and spiral density waves (young stellar population). For galaxies at redshift 0.2, the F390W bandpass isolates ultraviolet flux shortward of 4000 Angstroms in the galaxy rest frame and will trace light from stars younger than roughly 100 Myr. The longer wavelength image in F814W will trace the older (> 1 Gyr) stellar population.

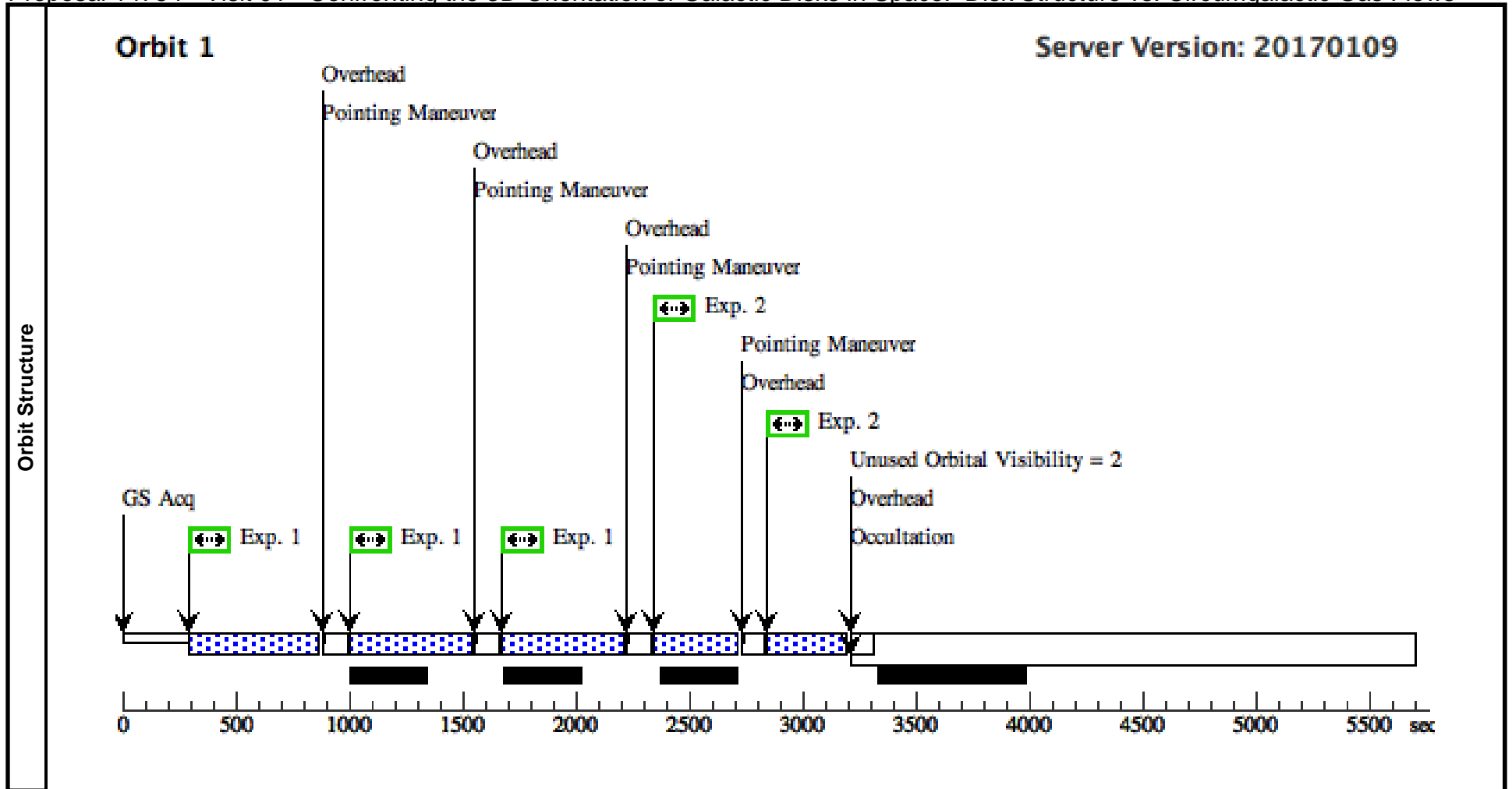
We place each target on the lower part of quadrant C to minimize CTE trails. The galaxies have small angular sizes, so we should be able to choose a position on quadrant C that will avoid the columns compromised by droplets. At the time of Phase II submission, we were awaiting information about the location of columns affected by droplets that would allow us to consider tuning the positioning of the targets on quadrant C.

We pack observations in both filters into a single orbit for each target. We want to maximize exposure time in the bluer filter, so we chose the minimum exposure time for the red side that allows parallel data dumps. We apply sub-pixel dithers to optimize sampling of the UVIS point spread function.

Proposal 14754 - Visit 01 - Confronting the 3D Orientation of Galactic Disks in Space: Disk Structure vs. Circumgalactic Gas Flows

Tue Mar 21 01:18:16 GMT 2017

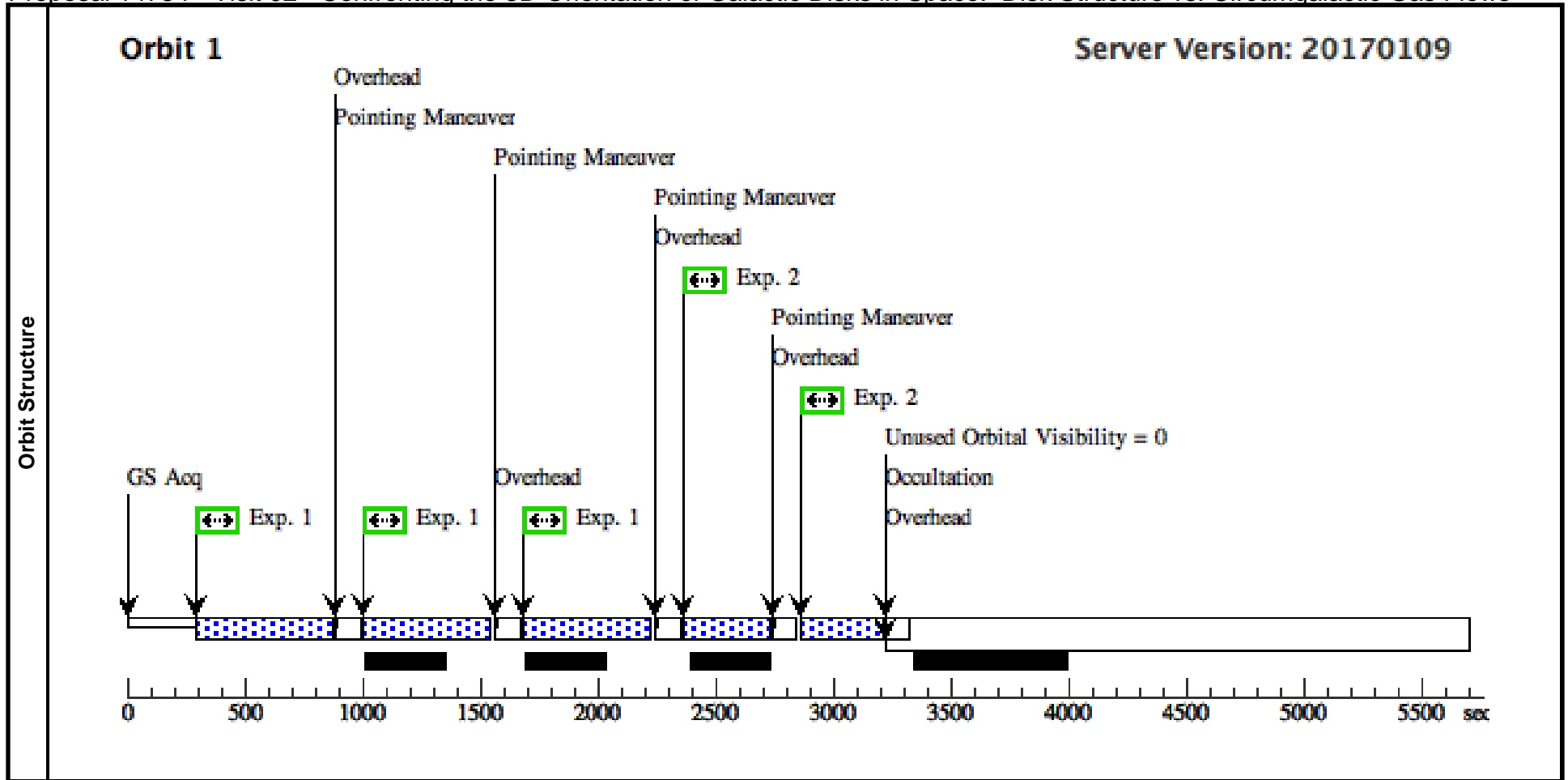
Visit	Proposal 14754, Visit 01, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
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Diagnosics										
Patterns	#	Primary Pattern				Secondary Pattern				Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false								(1)
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false								(2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(1)	J081708+091750	RA: 08 17 8.2900 (124.2845417d) Dec: +09 17 50.31 (9.29731d) Equinox: J2000			V=(?) g=20.69, i=17.93		Reference Frame: ICRS		
<i>Comments: Extended=YES</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.801089)	(1) J081708+091750	WFC3/UVIS, ACCUM, UVIS2-C512C-CTE	F390W	FLASH=7		Pattern 1, Exps 1-1 in Visit 01 (1)	540 Secs (1620 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
2	(WFC3UVIS.im.801100)	(1) J081708+091750	WFC3/UVIS, ACCUM, UVIS2-C512C-CTE	F814W	FLASH=1		Pattern 2, Exps 2-2 in Visit 01 (2)	350 Secs (700 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 14754 - Visit 02 - Confronting the 3D Orientation of Galactic Disks in Space: Disk Structure vs. Circumgalactic Gas Flows

Tue Mar 21 01:18:16 GMT 2017

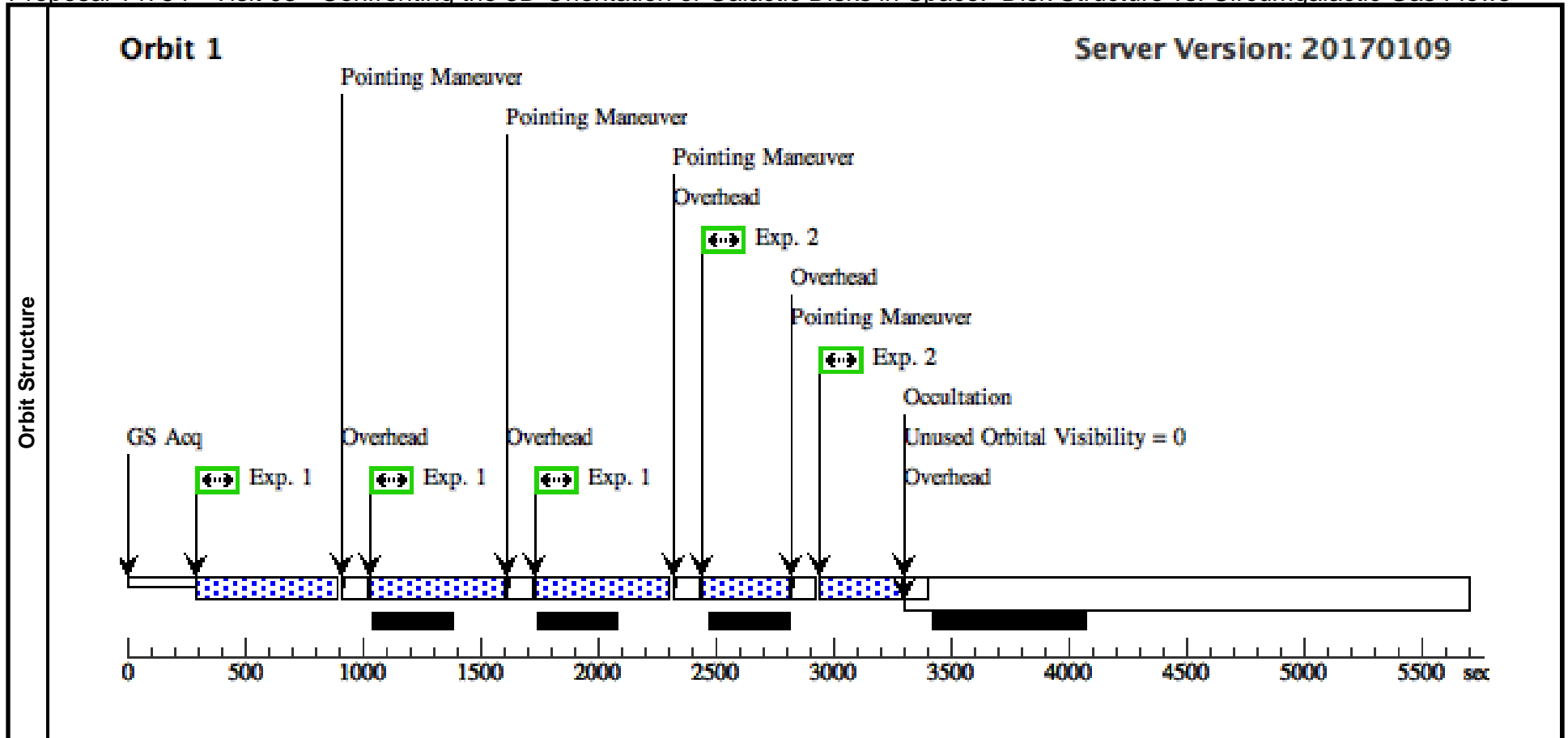
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Diagnosics										
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(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false								(2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(2)	J091557+292626	RA: 09 15 57.7800 (138.9907500d) Dec: +29 26 26.41 (29.44067d) Equinox: J2000			V=(?) u=19.53, i=16.87		Reference Frame: ICRS		
<i>Comments: Extended=YES</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.801089)	(2) J091557+292626	WFC3/UVIS, ACCUM, UVIS2-C512C-CTE	F390W	FLASH=7		Pattern 1, Exps 1-1 in Visit 02 (1)	546 Secs (1638 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
2	(WFC3UVIS.im.801100)	(2) J091557+292626	WFC3/UVIS, ACCUM, UVIS2-C512C-CTE	F814W	FLASH=1		Pattern 2, Exps 2-2 in Visit 02 (2)	350 Secs (700 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 14754 - Visit 03 - Confronting the 3D Orientation of Galactic Disks in Space: Disk Structure vs. Circumgalactic Gas Flows

Tue Mar 21 01:18:16 GMT 2017

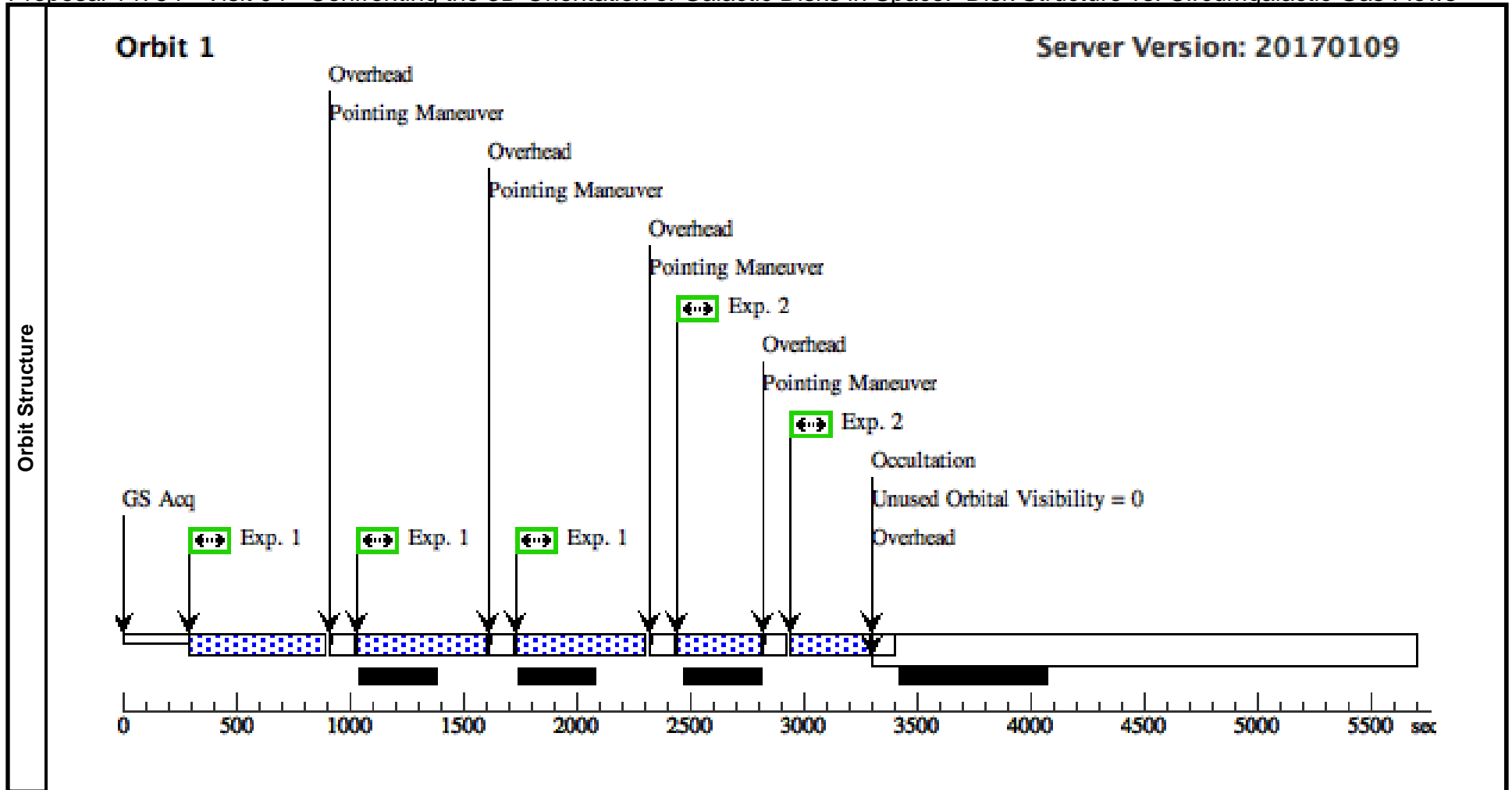
Visit	Proposal 14754, Visit 03, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
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Diagnosics										
Patterns	#	Primary Pattern				Secondary Pattern				Exposures
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(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false								(2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(3)	J102907+421737	RA: 10 29 7.5600 (157.2815000d) Dec: +42 17 37.64 (42.29379d) Equinox: J2000			V=(?) g=21.68, i=19.15		Reference Frame: ICRS		
<i>Comments: Extended=YES</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.801089)	(3) J102907+421737	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F390W	FLASH=7		Pattern 1, Exps 1-1 in Visit 03 (1)	572 Secs (1716 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
2	(WFC3UVIS.im.801100)	(3) J102907+421737	WFC3/UVIS, ACCUM, UVIS2-C1K1C-CTE	F814W	FLASH=1		Pattern 2, Exps 2-2 in Visit 03 (2)	350 Secs (700 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 14754 - Visit 04 - Confronting the 3D Orientation of Galactic Disks in Space: Disk Structure vs. Circumgalactic Gas Flows

Tue Mar 21 01:18:16 GMT 2017

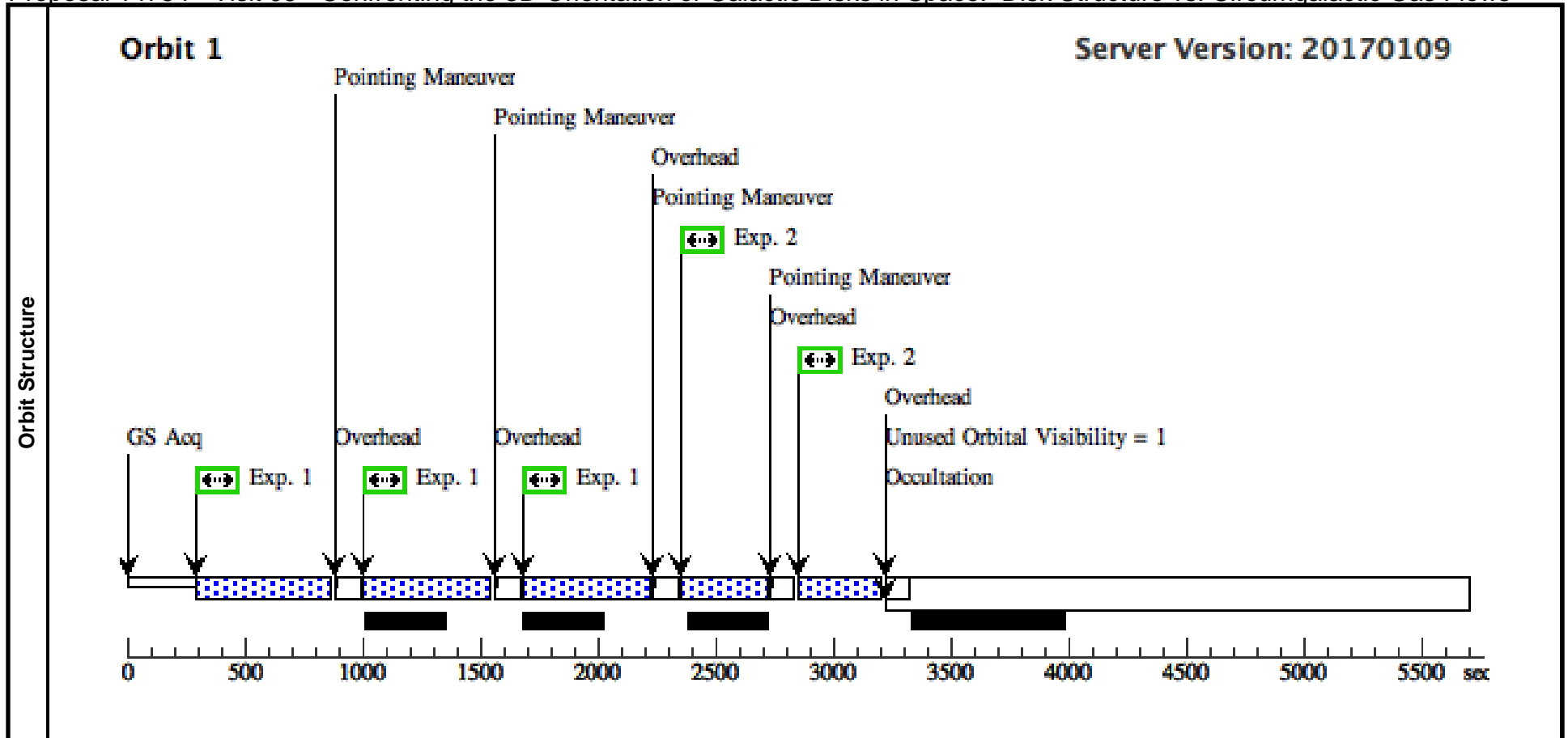
Visit	Proposal 14754, Visit 04, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(Exposure 2 (Pattern 2, Exps 2-2 in Visit 04)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									
Diagnosics										
Patterns	#	Primary Pattern				Secondary Pattern				Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false								(1)
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false								(2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(4)	J123249+433244	RA: 12 32 49.0600 (188.2044167d) Dec: +43 32 44.96 (43.54582d) Equinox: J2000			V=(?) g=21.09, i=18.69		Reference Frame: ICRS		
<i>Comments: Extended=YES</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.801089)	(4) J123249+433244	WFC3/UVIS, ACCUM, UVIS2-C512C-CTE	F390W	FLASH=7		Pattern 1, Exps 1-1 in Visit 04 (1)	572 Secs (1716 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
2	(WFC3UVIS.im.801100)	(4) J123249+433244	WFC3/UVIS, ACCUM, UVIS2-C512C-CTE	F814W	FLASH=1		Pattern 2, Exps 2-2 in Visit 04 (2)	350 Secs (700 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 14754 - Visit 05 - Confronting the 3D Orientation of Galactic Disks in Space: Disk Structure vs. Circumgalactic Gas Flows

Tue Mar 21 01:18:16 GMT 2017

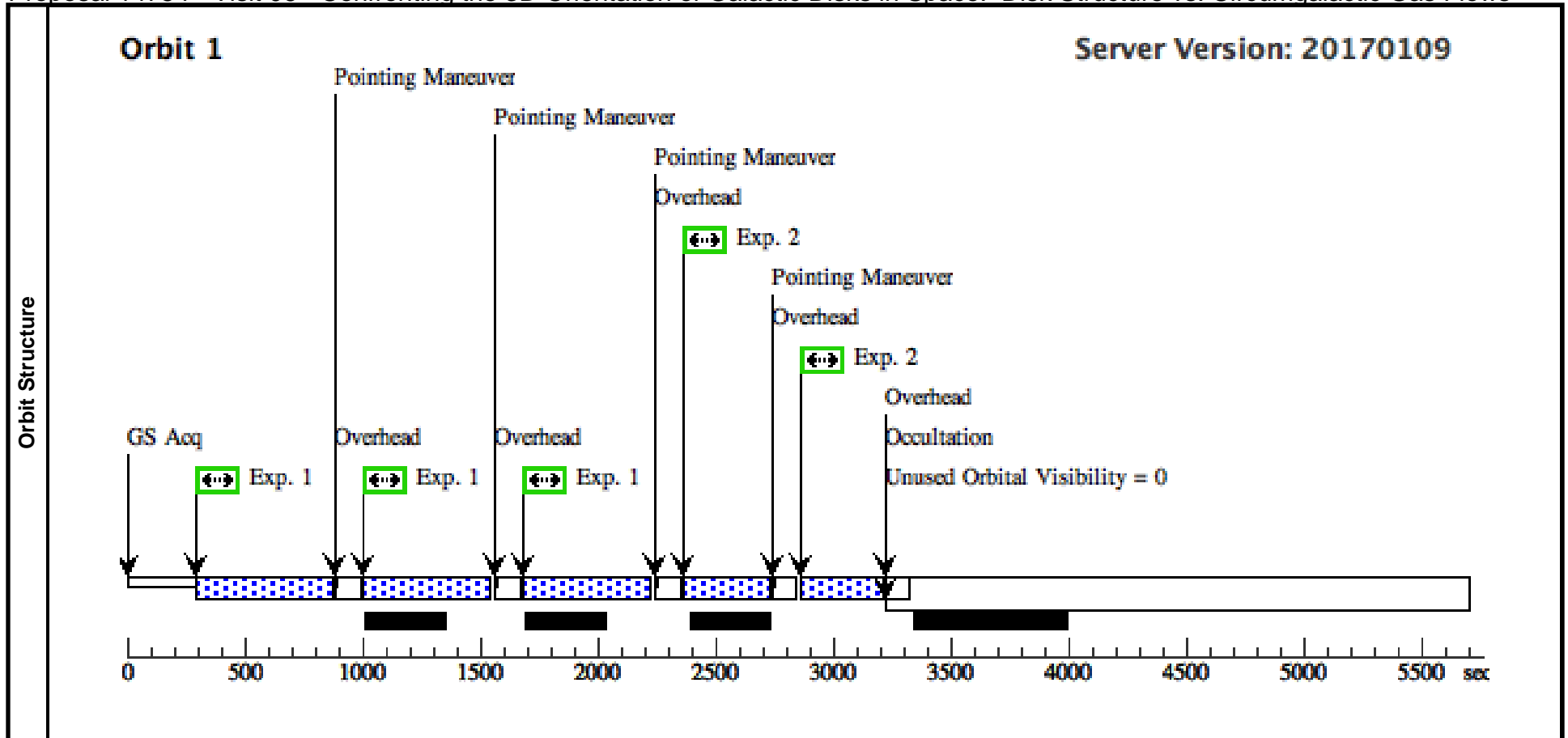
Visit	Proposal 14754, Visit 05, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(Exposure 2 (Pattern 2, Exps 2-2 in Visit 05)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									
Diagnosics										
Patterns	#	Primary Pattern				Secondary Pattern				Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false								(1)
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false								(2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(5)	J124601+173152	RA: 12 46 1.7500 (191.5072917d) Dec: +17 31 52.15 (17.53115d) Equinox: J2000				V=(?) g=21.24, i=20.28		Reference Frame: ICRS	
<i>Comments: Extended=YES</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.801089)	(5) J124601+173152	WFC3/UVIS, ACCUM, UVIS2-C512C-CTE	F390W	FLASH=7		Pattern 1, Exps 1-1 in Visit 05 (1)	543 Secs (1629 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
2	(WFC3UVIS.im.801100)	(5) J124601+173152	WFC3/UVIS, ACCUM, UVIS2-C512C-CTE	F814W	FLASH=1		Pattern 2, Exps 2-2 in Visit 05 (2)	350 Secs (700 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 14754 - Visit 06 - Confronting the 3D Orientation of Galactic Disks in Space: Disk Structure vs. Circumgalactic Gas Flows

Tue Mar 21 01:18:17 GMT 2017

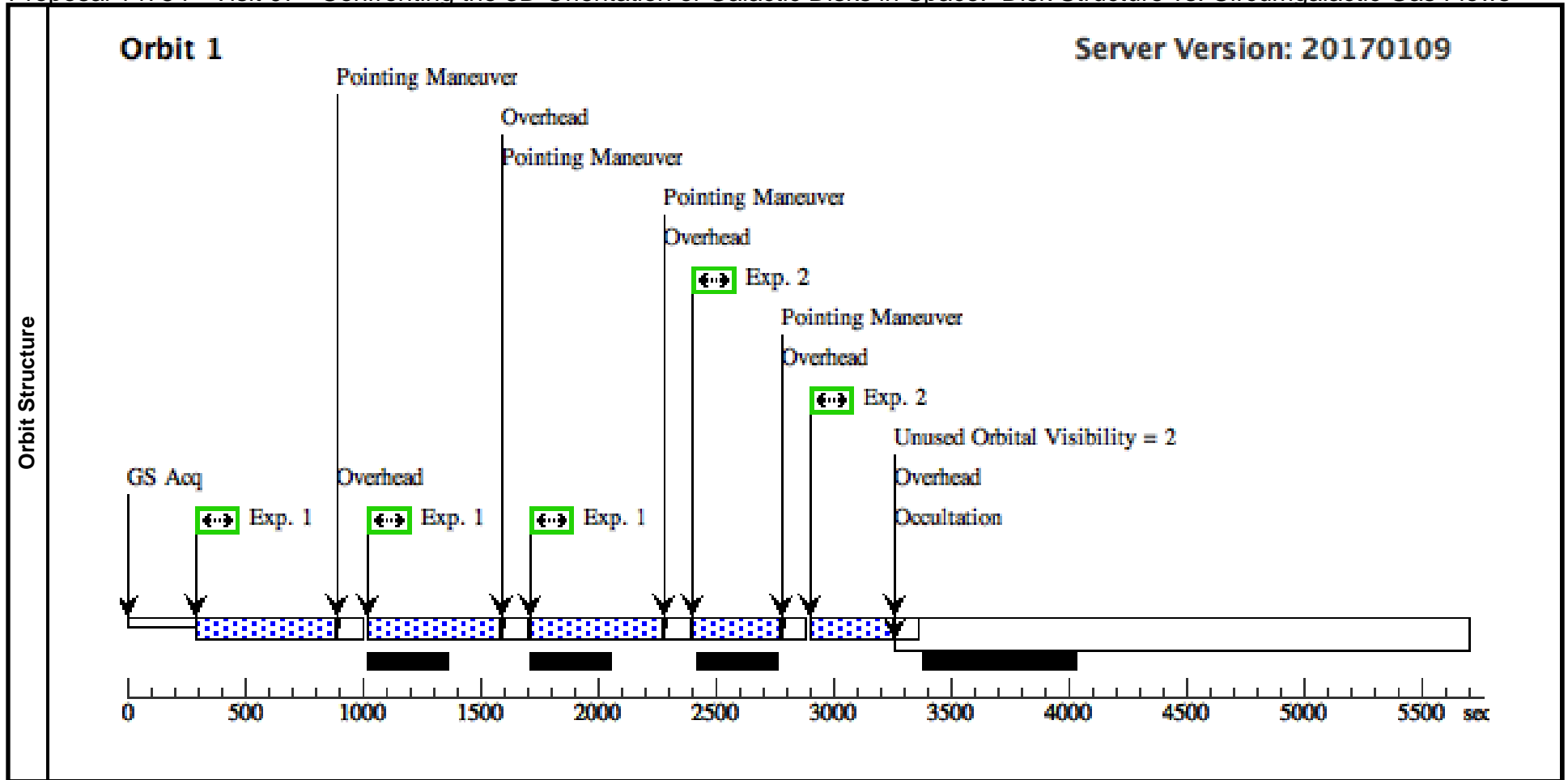
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Diagnosics										
Patterns	#	Primary Pattern				Secondary Pattern				Exposures
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(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false								(2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(6)	J133541+285324	RA: 13 35 41.4600 (203.9227500d) Dec: +28 53 24.78 (28.89022d) Equinox: J2000			V=(?) g=21.10, i=19.22		Reference Frame: ICRS		
<i>Comments: Extended=YES</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.801089)	(6) J133541+285324	WFC3/UVIS, ACCUM, UVIS2-C512C-CTE	F390W	FLASH=7		Pattern 1, Exps 1-1 in Visit 06 (1)	546 Secs (1638 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
2	(WFC3UVIS.im.801100)	(6) J133541+285324	WFC3/UVIS, ACCUM, UVIS2-C512C-CTE	F814W	FLASH=1		Pattern 2, Exps 2-2 in Visit 06 (2)	350 Secs (700 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 14754 - Visit 07 - Confronting the 3D Orientation of Galactic Disks in Space: Disk Structure vs. Circumgalactic Gas Flows

Tue Mar 21 01:18:17 GMT 2017

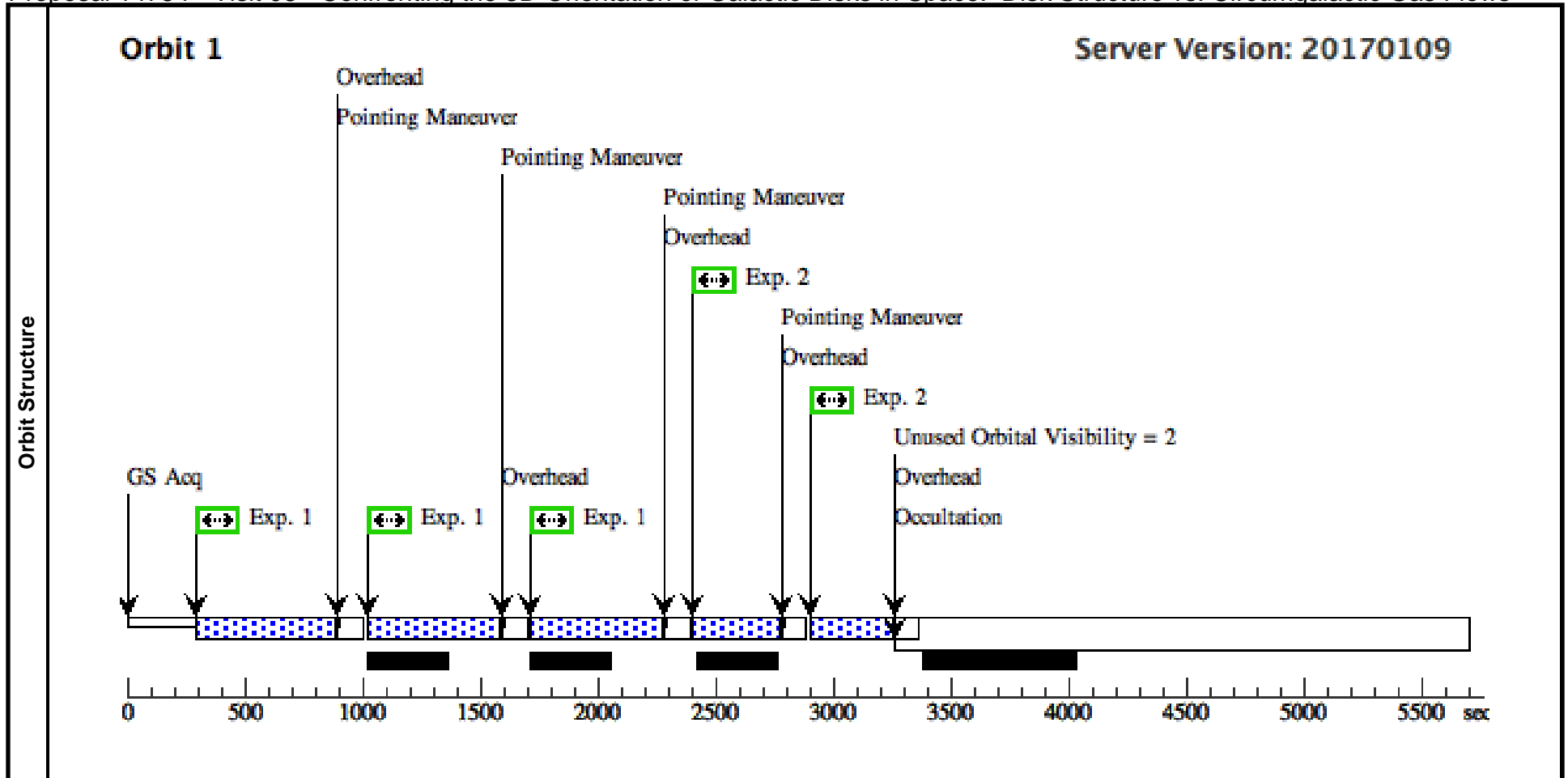
Visit	Proposal 14754, Visit 07, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
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Diagnosics										
Patterns	#	Primary Pattern				Secondary Pattern				Exposures
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(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false								(2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(7)	J142459+382113	RA: 14 24 59.8200 (216.2492500d) Dec: +38 21 13.37 (38.35371d) Equinox: J2000			V=(?) g=20.96, i = 18.56		Reference Frame: ICRS		
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.801089)	(7) J142459+382113	WFC3/UVIS, ACCUM, UVIS2-C512C-CTE	F390W	FLASH=7		Pattern 1, Exps 1-1 in Visit 07 (1)	558 Secs (1674 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
2	(WFC3UVIS.im.801100)	(7) J142459+382113	WFC3/UVIS, ACCUM, UVIS2-C512C-CTE	F814W	FLASH=1		Pattern 2, Exps 2-2 in Visit 07 (2)	350 Secs (700 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 14754 - Visit 08 - Confronting the 3D Orientation of Galactic Disks in Space: Disk Structure vs. Circumgalactic Gas Flows

Tue Mar 21 01:18:17 GMT 2017

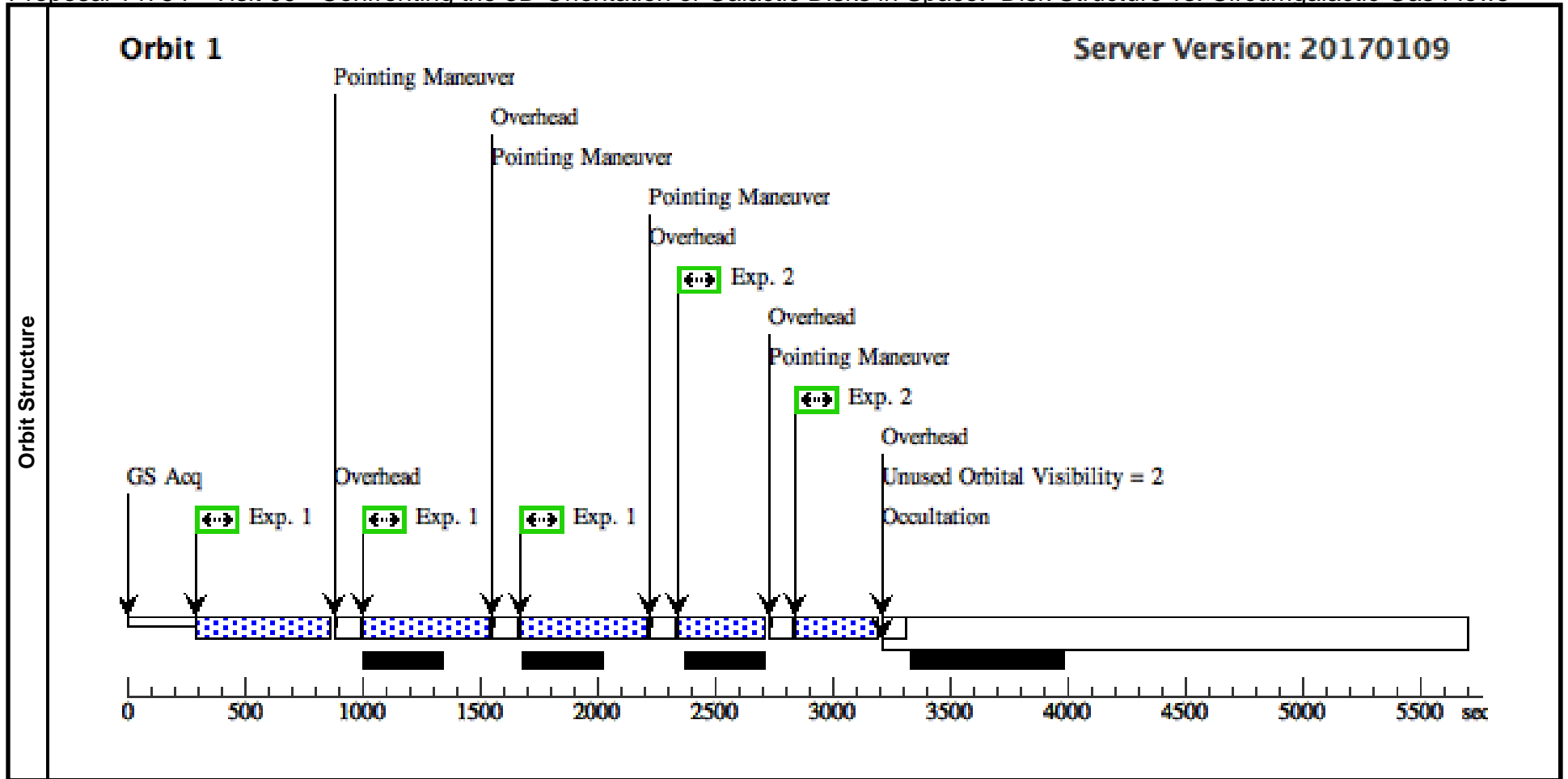
Visit	Proposal 14754, Visit 08, failed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)										
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Diagnosics											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
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(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false								(2)		
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections		Fluxes		Miscellaneous	
	(8)	J143603+375138	RA: 14 36 3.1600 (219.0131667d) Dec: +37 51 38.55 (37.86071d) Equinox: J2000					V=(?) g=21.61, i=18.88		Reference Frame: ICRS	
<i>Comments: Extended=YES</i>											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(WFC3UVIS.im.801089)	(8) J143603+375138	WFC3/UVIS, ACCUM, UVIS2-C512C-CTE	F390W	FLASH=7		Pattern 1, Exps 1-1 in Visit 08 (1)	558 Secs (1674 Secs)		
									[=>(Pattern 1)]		[1]
									[=>(Pattern 2)]		
									[=>(Pattern 3)]		
2	(WFC3UVIS.im.801100)	(8) J143603+375138	WFC3/UVIS, ACCUM, UVIS2-C512C-CTE	F814W	FLASH=1		Pattern 2, Exps 2-2 in Visit 08 (2)	350 Secs (700 Secs)			
									[=>(Pattern 1)]		[1]
									[=>(Pattern 2)]		



Proposal 14754 - Visit 09 - Confronting the 3D Orientation of Galactic Disks in Space: Disk Structure vs. Circumgalactic Gas Flows

Tue Mar 21 01:18:17 GMT 2017

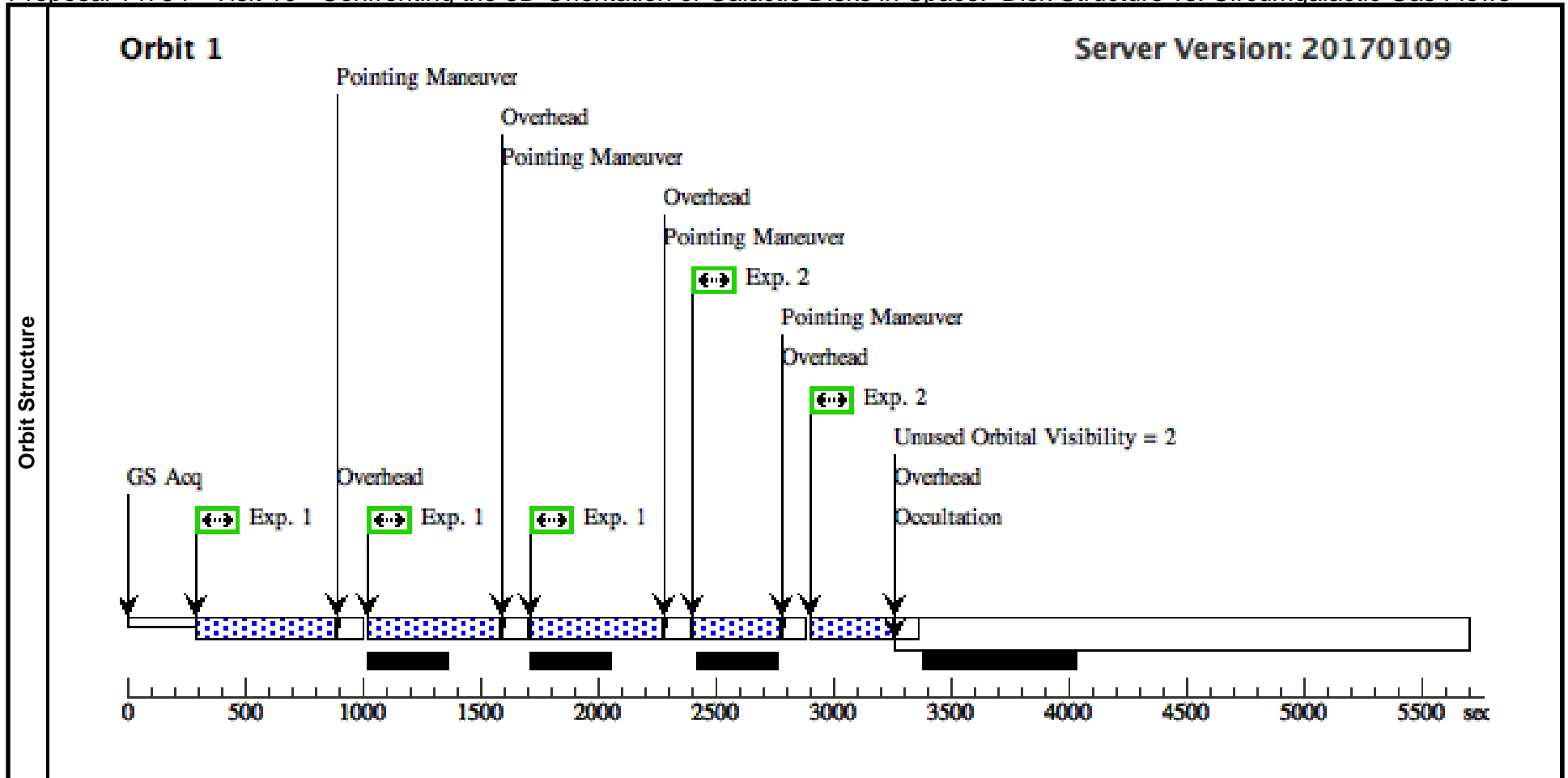
Visit	Proposal 14754, Visit 09, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(Exposure 2 (Pattern 2, Exps 2-2 in Visit 09)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									
Diagnosics										
Patterns	#	Primary Pattern				Secondary Pattern				Exposures
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Patterns	(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false								(2)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(9)	J154956+070056	RA: 15 49 56.7300 (237.4863750d) Dec: +07 00 56.09 (7.01558d) Equinox: J2000			V=(?) g=20.86, i=19.14		Reference Frame: ICRS		
<i>Comments: Extended=YES</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.801089)	(9) J154956+070056	WFC3/UVIS, ACCUM, UVIS2-C512C-CTE	F390W	FLASH=7		Pattern 1, Exps 1-1 in Visit 09 (1)	540 Secs (1620 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
2	(WFC3UVIS.im.801100)	(9) J154956+070056	WFC3/UVIS, ACCUM, UVIS2-C512C-CTE	F814W	FLASH=1		Pattern 2, Exps 2-2 in Visit 09 (2)	350 Secs (700 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 14754 - Visit 10 - Confronting the 3D Orientation of Galactic Disks in Space: Disk Structure vs. Circumgalactic Gas Flows

Tue Mar 21 01:18:17 GMT 2017

Visit	Proposal 14754, Visit 10, completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)										
	(Exposure 2 (Pattern 2, Exps 2-2 in Visit 10)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser										
Diagnosics											
Patterns	#	Primary Pattern				Secondary Pattern				Exposures	
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false								(1)	
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false								(2)		
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(10)	J165930+373527	RA: 16 59 30.4400 (254.8768333d) Dec: +37 35 27.90 (37.59108d) Equinox: J2000				V=(?) g=19.73, i=18.11		Reference Frame: ICRS		
<i>Comments: Extended=YES</i>											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	(WFC3UVIS.im.801089 7)	(10) J165930+373527	WFC3/UVIS, ACCUM, UVIS2-C512C-CTE	F390W	FLASH=7		Pattern 1, Exps 1-1 in Visit 10 (1)	558 Secs (1674 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]	
2	(WFC3UVIS.im.801100 7)	(10) J165930+373527	WFC3/UVIS, ACCUM, UVIS2-C512C-CTE	F814W	FLASH=1		Pattern 2, Exps 2-2 in Visit 10 (2)	350 Secs (700 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]		



Proposal 14754 - Visit 18 - Confronting the 3D Orientation of Galactic Disks in Space: Disk Structure vs. Circumgalactic Gas Flows

Tue Mar 21 01:18:17 GMT 2017

Visit	Proposal 14754, Visit 18 Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none) <i>Comments: Repeat of failed visit 08.</i>									
	(Exposure 2 (Pattern 2, Exps 2-2 in Visit 18)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									
Diagnosics										
Patterns	#	Primary Pattern				Secondary Pattern				Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE-3PT Purpose=DITHER Number Of Points=3 Point Spacing=0.135 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false								(1)
(2)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false								(2)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(8)	J143603+375138	RA: 14 36 3.1600 (219.0131667d) Dec: +37 51 38.55 (37.86071d) Equinox: J2000			V=(?) g=21.61, i=18.88		Reference Frame: ICRS		
<i>Comments: Extended=YES</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(WFC3UVIS.im.801089)	(8) J143603+375138	WFC3/UVIS, ACCUM, UVIS2-C512C-CTE	F390W	FLASH=7		Pattern 1, Exps 1-1 in Visit 18 (1)	558 Secs (1674 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)]	[1]
2	(WFC3UVIS.im.801100)	(8) J143603+375138	WFC3/UVIS, ACCUM, UVIS2-C512C-CTE	F814W	FLASH=1		Pattern 2, Exps 2-2 in Visit 18 (2)	350 Secs (700 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]	

